

Amana Tool is an industry leader specializing in industrial quality solid carbide, insert carbide and carbide-tipped cutting tools for the woodworking, plastics, aluminum, composite and metal industry. We provide many solutions for manufacturers, fabricators, display and cabinet professionals as well as hobbyists.

Combining the use of our fully automated precision machinery with the highest quality raw materials, technical know-how and ongoing research and development, we continue to provide cutting solutions for a great number of materials and various cutting industries. This has helped us meet the challenges of the vast array of new and different materials in our marketplace, such as but not limited to: aluminum/non-ferrous, ACM, MDF/HDF, solid surface, fiberglass, PVCs, acrylics, composites and other man-made materials.



	1-256
2D/3D Carving	
4 Facet Fractional Drills	
Aluminum Composite Material (ACM)	
Beading & Cove151	
Box Joint / Finger Joint / Drawer Lock	
Bullnose	
Burrs	
Cabinet Door Edge	
CNC Safety Guidelines	
Composite	
Compression Spiral, Solid Carbide	
Core Box / Bowl & Tray / Ball End	
Corner Round	
Diamond (PCD) Polycrystalline	
Divided Light Door Set	
Ooor Making, Cabinet	
Oovetail	. 185-189
Z-Change™ (Ocemco)	
inger Grip / Door Lip	
Flooring Solutions Flush Trim / No File TM / Dynabit TM	. 208-209
Flush Trim, Solid Carbide	
oam	
Handrail / Table Edge	
n-Groove,™ Insert CNC	
n-Tech,™ Insert	
nstile & Rail™ System / Stile & Rail Sets nvectra™	
ointing Bits	
ock Miter / Edge Banding	
MDF Cabinet Door	
Miniature Bits123	
Molding / Edging	
Molding / Multi Form	
Nortisinglova™ System, Insert	
Panel Pilot (Solid Carbide & HSS)	42-43
Plastic	25-33
Plunge, Straight	
Profiling	
Projects	
Raised Panel	
Round Over Bead / Groove Plunge	
Router Bit Technology	
Safety Guidelines	
Signmaking & V-Groove	
Slot Cutter / EZ-Dial™	
Solid Carbide SpiralsSolid Surface	
Special Interest Sets	
Spiral Compression, Solid Carbide	
Spoilboard, Insert	
Steel	
Stile & Rail Sets / Instile & Rail™ System	
Straight Plunge / Specialty Plunge Stub Spindle & Cope	
T-Slot / Screw Slot / Amerock Hinge / Keyhole.	. 182-184
T-Slot / Screw Slot / Amerock Hinge / Keyhole. Table Edge / Handrail	
r-Slot / Screw Slot / Amerock Hinge / Keyhole. Fable Edge / Handrail Fambour Set Fongue & Groove / 'V' Panel	236
r-Slot / Screw Slot / Amerock Hinge / Keyhole. Fable Edge / Handrail. Fambour Set Fongue & Groove / 'V' Panel. Frim / Solid Carbide Panel Pilot	236 . 205-207 . 129-136
r-Slot / Screw Slot / Amerock Hinge / Keyhole. Iable Edge / Handrail. Iambour Set	236 . 205-207 . 129-136 49-61
r-Slot / Screw Slot / Amerock Hinge / Keyhole. Iable Edge / Handrail. Iambour Set	236 . 205-207 . 129-136 49-61
r-Slot / Screw Slot / Amerock Hinge / Keyhole. Fable Edge / Handrail	236 . 205-207 . 129-136 49-61
r-Slot / Screw Slot / Amerock Hinge / Keyhole. Fable Edge / Handrail. Fambour Set Fongue & Groove / 'V' Panel. Frim / Solid Carbide Panel Pilot/-Groove & Signmaking Window Sill CNC ACCESSORIES	236 . 205-207 . 129-136 49-61 239
r-Slot / Screw Slot / Amerock Hinge / Keyhole. Fable Edge / Handrail. Fambour Set Fongue & Groove / 'V' Panel. Frim / Solid Carbide Panel Pilot V-Groove & Signmaking Window Sill CNC ACCESSORIES Adapters / Holders / Wrenches	236 . 205-207 . 129-136 49-61 239 78-89
I-Slot / Screw Slot / Amerock Hinge / Keyhole. Iable Edge / Handrail. Iambour Set	236 . 205-207 . 129-136 49-61 239 78-89 78-82 79, 283
I-Slot / Screw Slot / Amerock Hinge / Keyhole. Iable Edge / Handrail. Iambour Set	
IT-Slot / Screw Slot / Amerock Hinge / Keyhole. ITable Edge / Handrail Imambour Set Imambour Se	

REPLACEMENT PARTS	257-2	27
Router Collet Assembly		
Arbors / Hex Nuts / Screws / Keys		
Ball Bearings, Steel & Ultra-Glide™		
Carbide Insert Knives		
Replacement Parts Index		
Template Guide / Router Collet Reducers		26
BORING/DRILLING BITS	279-3	30
Adj. Countersink, Counterbore, Depth-Stops	297-	30
Boring Bit Adapters	79,	28
Brad Point		
Carbide Tipped Countersinks		
Countersinks for Boring Machines / Metric		
Counterbore		
Forstner Bits		
Hinge Boring		
HSS Drills Metric Boring Drills / Adapters & Bushings		
Plug Cutter		
Plug Planer		
Quick Change Chuck		
Replacement Chucks		
Rosette Cutter System		
RTA Drills / Countersinks		
Through Hole with V-Point	282-	28
SAW BLADES		
ACM Scoring		
Aluminum, Non-Ferrous Metal		
Cut-Off / Crosscut		
Dado Sets		
Edgebander Trim Saw		
EZ-Dial™ Scoring System		
Finishing		
General Purpose / Combination 308, 311		
Groover		
Hollow Ground		
Melamine & Laminate		
Miter / Double Miter		
Non-Ferrous Metal, Aluminum		
Non-Melt, Plastic		
Panel Saw & Conical327	, 329,	33
Panel Saw & Conical327 Plate Joinery / Portable Blades327	, 329,	33
Panel Saw & Conical	, 329,	33 33 32
Panel Saw & Conical327 Plate Joinery / Portable Blades327	, 329,	33 33 32 33
Panel Saw & Conical	, 329,	33 32 33 32
Panel Saw & Conical	308,	33 32 33 32 34 31
Panel Saw & Conical	308,	33 32 33 32 34 31 34
Panel Saw & Conical	, 329, 308, 309- 344-	33 32 33 32 34 31 34 32
Panel Saw & Conical	308, 308, 309- 344-	33 32 33 34 31 34 32 32
Panel Saw & Conical	308, 308, 309- 344-	33 32 33 34 31 34 32 32
Panel Saw & Conical	308,309344-	33 32 33 32 34 31 32 32 31
Panel Saw & Conical	308, 309- 344-	33 32 33 32 34 31 34 32 32 31
Panel Saw & Conical	, 329, 308, 309- 344-	33 32 33 32 34 31 34 32 32 31
Panel Saw & Conical	, 329, 308, 309- 344-	33 32 33 32 34 31 34 32 31 37 34 36
Panel Saw & Conical	308, 309- 344- 366-	33 32 33 32 34 31 34 32 31 37 34 36 36
Panel Saw & Conical	309-, 309-, 344-	33 32 33 32 34 31 34 32 32 31 34 36 36 36 35
Panel Saw & Conical	308, 308, 344- 366- 350- 372- 362-	33 32 33 32 34 31 34 32 31 37 36 36 37 36
Panel Saw & Conical	308,309- 344- 344- 366- 350- 372- 362-	33 32 33 32 34 31 32 32 31 37 36 36 37 36 39
Panel Saw & Conical	308, 309- 344- 366- 350- 372- 362- 364-	33 32 33 32 34 31 34 32 31 37 36 36 37 36 37 36 37 37
Panel Saw & Conical	308,309- 344- 366- 350- 372- 362- 364-	333 332 333 332 333 333 333 333 334 335 337 337 337 337 337 337 337 337 337
Panel Saw & Conical	308, 308, 309344366350372362364360	333 332 333 332 333 334 334 332 333 337 337 337 337 337 337 337 337
Panel Saw & Conical	308, 309, 344- 366- 350- 362- 364- 360- 378-3	33333333333333333333333333333333333333
Panel Saw & Conical	309, 309, 344- 366- 350- 362- 364- 360- 368- 369	33333333333333333333333333333333333333
Panel Saw & Conical	308,309,344366350372362364360378-3	33333333333333333333333333333333333333
Panel Saw & Conical	308,308,3093443663503623623623683583683888388838883883883883883883883883883883	333 332 333 332 333 332 333 333 333 333
Panel Saw & Conical	309,308,309,344344366350362362364360388388263388263388	333 332 333 332 333 333 333 333 333 333
Panel Saw & Conical	308,308,309,3443663503723623643663503723623643783	333 332 333 332 333 333 334 334 336 337 337 337 337 337 337 337 337 337
Panel Saw & Conical	309,308,309,344364350372362362360378388379	33333333333333333333333333333333333333
Panel Saw & Conical	308,308,308,309,3443443503723623643503783383383379337	333 333 332 333 333 333 333 333 333 333

Contents

ALUMINUM/STEEL CNC BITS	02
PLASTIC CNC BITS	25
COMPOSITE CNC BITS	34
PANEL PILOT ROUTER BITS	42
DIAMOND TIP CNC BITS	44
SIGN MAKING CNC BITS	49
SETS CNC BITS	62
ACCESSORIES CNC BITS	78
ROUTER BITS TABLE, HAND, CNC	90
BORING TOOLS	279
SAW BLADES	307
SHAPER CUTTERS	347
PLANER / JOINTING	392
Safety Guidelines	383
PLANER/JOINTER KNIVES/HAND TOOLS Corrugated Back Steel. Dicut Laminate Cutter / Scrapers / Knife Setter. HSS Planer / Jointer Knives & Sets Planer Knives	393 393 392-393 392

The specifications, current at time of publication, are intended for reference purposes and are subject to change without notice.

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HEAVY DUTY SPOILBOARDS

3 and 5-Wing Heavy Duty Spoilboards pg. 115





3-Wing



SPIRAL '0' FLUTE BITS

Solid carbide bits available in up & down-cut

Aluminum pg. 26

Plastic pg. 3



ACM **CUTTING SOLUTIONS**

Router bits and saw blades available for scoring aluminum sandwich materials

pg. 8



NO-MAR COUNTERSINKS

The countersink leaves a clean hole edge and the adjustable depth-stop doesn't mar the surface

pg. 292



58-PC LED MASTER **CNC ROUTER BIT** COLLECTION

The most versatile collection of industrial quality router bits for all your CNC applications

pg. 76





HIGH PRECISION CNC **ACCESSORIES**

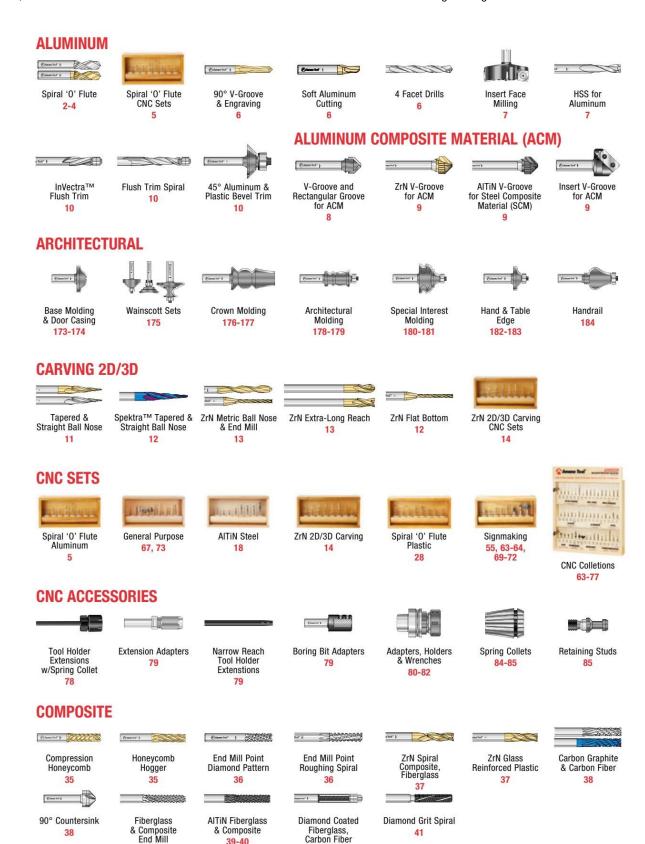
For all your cnc tooling needs

NON-MELT SAW BLADE WITH ELECTRO-BLU™ COATING

Many new saw blades available featuring this eco-friendly coating

pg. 307





Carbon Fiber

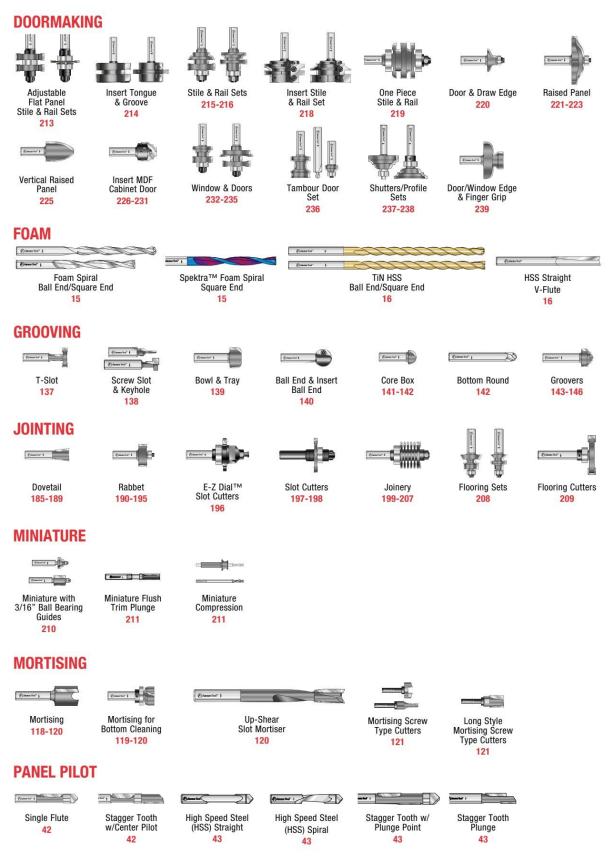
and Composite

41

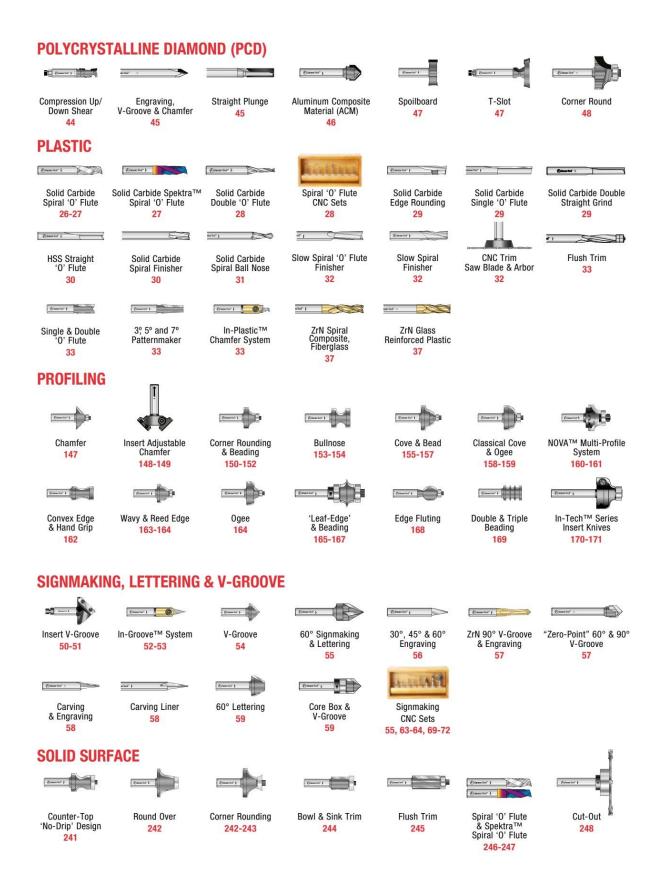
39-40

39

For a complete listing by product number, see numerical index on pages 394-400.



For a complete listing by product number, see numerical index on pages 394-400.



SOLID SURFACE (CONT'D)











Cove/Backsplash 249

Undermount Bowl 250-252

Karran® Stainless Steel Sink Edge Bits

Topmount Router European Type 254

Decorative Edge 255-256

Wavy Joint 255

SOLID CARBIDE SPIRAL & COMPRESSION



101





102





105-106





108

SPOILBOARD



113





115



116





117



STEEL, STAINLESS STEEL



18









21



Carbide Burr Bits 22-24

STRAIGHT PLUNGE















TRIM















Flush Trim Template 122-123















130-131



132-133

Bevel and Flush Trim

133

EZ-Change™ Series 134-135



AITIN Panel Pilot 135 135-136



Weatherseal

136

COUNTERSINKS



293-296



297



Countersinks

297-299



Economy No-Mar

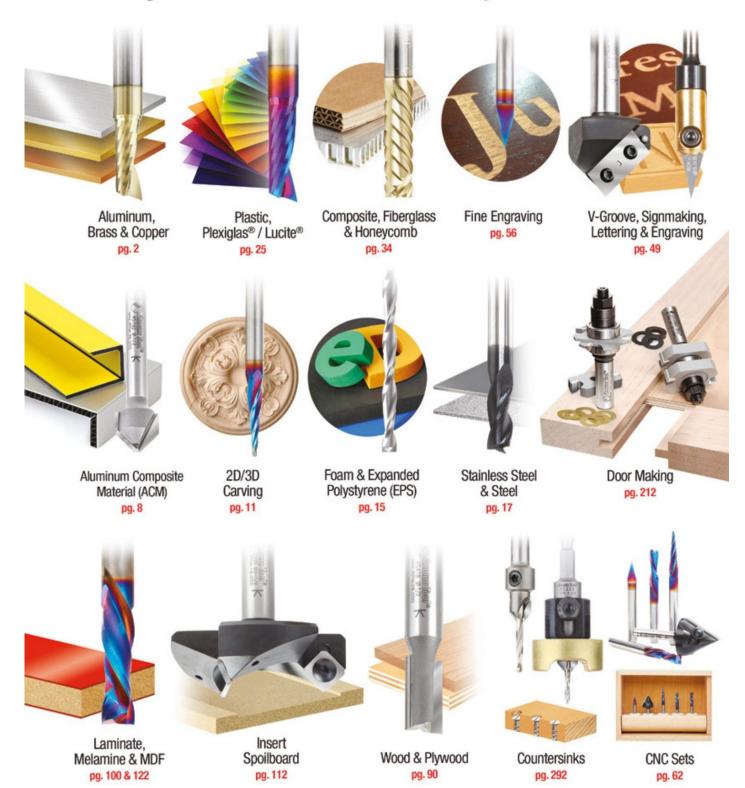
Countersinks

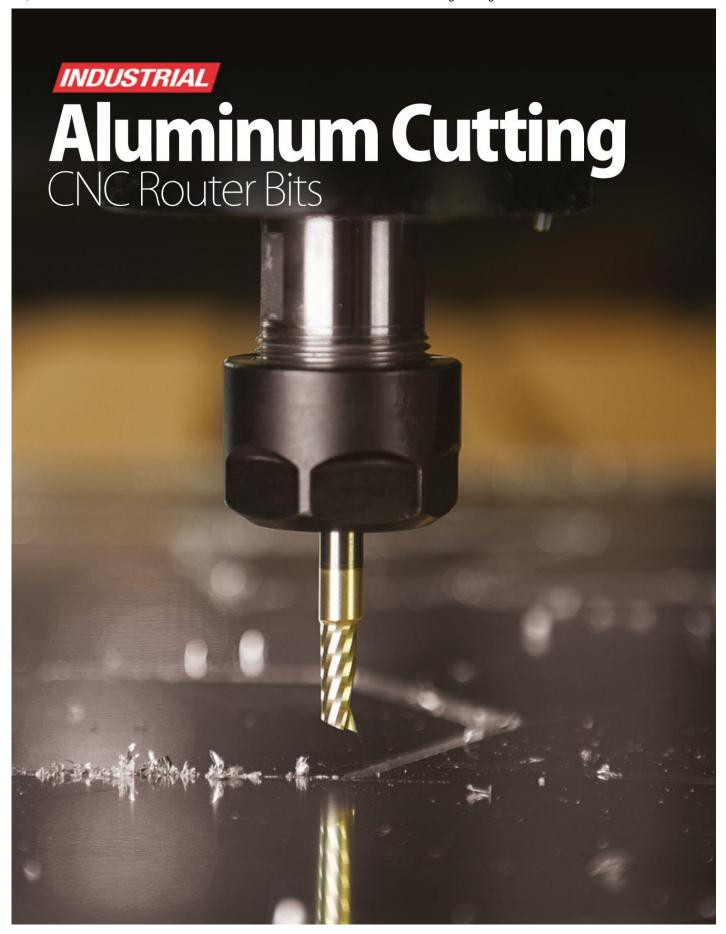






Large Assortment of Router Bits for Today's Advanced Materials





CNC ALUMINUM CUTTING SPIRAL 'O' FLUTE

Solid Carbide . Single Flute . Up-Cut & Down-Cut

Using the highest quality carbide, these bits have a special proprietary edge processing system featuring a super high polished cutting edge with a unique "mirror finish". The result is clean cuts, less chance for chip re-welding, a superior surface finish and longer tool life.

Ød

1/8

1/8

1/8

1/4

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3/8

3/8

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1/2

51480-5

+ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

* Special point for improved bottom finish. ** Not guaranteed due to size.

B

1/4

1/4

1/4

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5/16

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9/16

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3/8

1/2

1/2

5/8

5/8

7/8

3/8

5/8

5/8

3/4

3/4

7/8

1-1/4

1-1/2

5/8

9/16

3/4

13/16

3/4

9/16

3/4

7/8

1

1-1/8

1-3/8

1

1-1/8

1-1/8

1-3/8

1-5/8

▲ Warning: Maximum RPM=35,000

ØD

1/16

3/32

1/8

1/8

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1/8 1/8

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1/4 1/4

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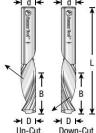
1/2

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1/2



'Up-Cut'

Tool No.

51470 + **

51472 † **

51471 t

51406 t

51474

51373

51459 t

51454

51482

51486

51473 51840

51475

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51408

51375

51478

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51402

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51483

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51844

51378

51485

51643

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51644

51489

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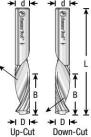
3

2-1/2

3-1/2

3-1/2

3-1/2



'Down-Cut'

Tool No.

51770†

51771†

51506†

51501†

51503

51773

51508

51774

51502

51775

51776

51838 Ne

51772



Benefits of Mirror Finish:

- · Razor sharp cutting edge
- · Effortless chip removal
- · Helps prevent chip re-welding
- Extends tool life
- Exceptional cut quality







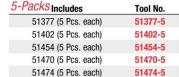
Excellent For Cutting:

- AluminumAluminum 5052
- Aluminum 6061 Aluminum Alloys
- Aluminum Composite
- Material (ACM)
- Aluminum Composite Panel (ACP)
 ALPOLIC® Copper
- Composite Material (CCM)
- Alucobond®
- Brass
- Alupanel®

- Copper
 Dibond®
- Durabond
- e-panel™ Etalbond®
- Fomex® with
- Aluminum Face
 Gold
- Silver
- Titanium Composite
- Material (TCM) Wood

▲ Warning: Never attempt to cut ferrous metals with these bits. Inspect cut quality, adjust feed / speed accordingly. For optimal results and extended tool life use mist lubricant system or air cooling.

Packs Includes	Tool No.	
51471, 46291, 51470		
51406 & 51459 (1/8 Shank)	AMS-161	New
51402 & 51474 (1/4)	AMS-194	New



51480 (5 Pcs. each)

5-Packs Includes	Tool No.
51408 (5 Pcs. each)	51408-5
51486 (5 Pcs. each)	51486-5
51481 (5 Pcs. each)	51481-5



CNC feed and speed available online

INDUSTRIAL ALUMINUM CUTTING ROUTER BITS



low Total

clean cuts.

essentially

eliminates

chip loads **Excellent For**

Cutting:

Aluminum

 Alucobond® Alupanel® Brass

Copper

Dibond®

 Silver TCM

Wood

air cooling.

▲ Warning: Never attempt to cut ferrous

metals with these bits.

Inspect cut quality, adjust feed / speed accordingly. For optimal results and extended tool life use mist lubricant system or

 Durabond e-panel™
 Etalbond® Gold

sanding and reduces chatter

when used with low TIR spindles

Indicated Runout

(TIR) guarantees

CNC ALUMINUM CUTTING SPIRAL '0' FLUTE

New

Solid Carbide . Single Flute . Up-Cut & Down-Cut

Produce super clean, smooth cuts in aluminum and non-ferrous metals. For material cut list visit www.amanatool.com.



→ C Amman 9ad
<u>₹</u> L T
B →I D I← Down-Cut

ØD	В	Ød	L	'Up-Cut' Tool No.	'Down-Cut' Tool No.	ØD	В	Ød	L	'Up-Cut' Tool No.	Down-Cut Tool No.
1/32	3/16	1/4	2	51376-Z**	_	3/16	3/8	1/4	2	51477-Z	_
1.5mm	4mm	3mm	30mm	_	51380-Z	3/16	1/2	1/4	2	51408-Z	51508-Z
1/16	1/4	1/8	1-1/2	51470-Z†**	 .	3/16	5/8	1/4	2	51478-Z	51838-Z
1/16	1/4	1/4	1-1/2		51488-Z**	3/16	7/8	1/4	2-1/2	51456-Z	51779-Z
3/32	1/4	1/8	2	51472-Z†**	_	1/4	3/8	1/4	2	51479-Z	_
3/32	1/4	1/4	2	51372-Z**	_	1/4	1/2	1/4	2	51810-Z	_
1/8	1/4	1/8	1-1/2	51471-Z†	_	1/4	5/8	1/4	2	51402-Z	51502-Z
1/8	1/4	1/4	2	51474-Z	_	1/4	3/4	1/4	2	51377-Z	51786-Z
1/8	5/16	1/8	1-1/2	51406-Z†	51506-Z†	1/4	3/4	1/4	2-1/2	51480-Z	_
1/8	5/16	1/4	1-1/2	51373-Z	51777-Z	1/4	7/8	1/4	2-1/2	51458-Z	51775-Z
1/8	1/2	1/8	2	51459-Z†	-	1/4	1-1/4	1/4	3	51481-Z	_
1/8	1/2	1/4	2	51454-Z	51503-Z	1/4	1-1/2	1/4	3	51476-Z	-
1/8	5/8	1/4	2-1/2	51482-Z	_	5/16	9/16	5/16	2-1/2	51642-Z	_
1/8	3/4	1/4	2-1/2	51486-Z	51778-Z	8mm	25mm	8mm	64mm	51498-Z	_
8 Pie	ce S	et		Tool N	o. 5-1	Packs	Tool No	D	5-Pac	cks to	ol No.
51470	-Z. 51	406-7	51474-	Z. 51454-Z.	51	377-Z	51377-	Z-5	51470	-7 51	470-Z-5

Single Flute

51408-Z, 51402-Z, 51502-Z, 51480-Z, RB-102 (2 included) AMS-160-Z

51402-Z 51402-Z-5 51474-Z 51474-Z-5

51454-Z 51454-Z-5 51408-Z 51408-Z-5

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits. ** Not guaranteed due to size. ▲ Warning: Maximum RPM=35,000

CNC ALUMINUM CUTTING SPIRAL 'O' FLUTE New







Produce super clean, smooth cuts in aluminum and non-ferrous metals. For material cut list visit www.amanatool.com.

•	Allows for a	_		
	prolonged	2 12		
	cutting edge life	2		
•	Helps to prevent		M ±	1
	the build-up of	↓	₩ B	,
	material in the	-	IDI √	ï
	flutes while	7	אוטו י	
	cutting			



Solid Co	arbide •	2 Flute •	Solid Ca	arbide •	Single	Flute •	Ball	Nose		
ØD	В	Ød	L	Tool No.	ØD	R	В	d	L	Tool No.
1/8	1/4	1/4	2	51850-Z	1/8	1/16	1/2	1/4	2	51876-Z
1/8	1/2	1/4	2	51852-Z	3/16	3/32	1/2	1/4	2	51878-Z
3/16	1/2	1/4	2	51854-Z	1/4	1/8	5/8	1/4	2	51880-Z
1/4	5/8	1/4	2	51856-Z	1/4	1/8	3/4	1/4	2	51882-Z

· High flute volume supports high feedrates and

→ | d | ←

CNC ALUMINUM CUTTING SPIRAL 'O' FLUTE FOR New **IMPROVED SURFACE FINISH**

Solid Carbide • Single Flute • Up-Cut



Using the highest quality carbide, these bits have a special proprietary edge processing system featuring a super high polished cutting edge witha unique "mirror finish". The result is clean cuts, less chance for chip re-welding, a superior surface finish and longer tool life.

Aluminum 6061 Aluminum Allovs	₹	
• ACM • ACP	B	
• CCM	\swarrow	
 Alucobond® Alupanel® 	→ D I←	Single Flu



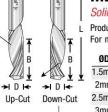
В	Ød	L	Tool No.	ØD	В	Ød	L	Tool No.
3/16	1/8	1-1/2	57340-Z†**	3/16	7/8	1/4	2-1/2	57347-Z
1/4	1/4	2	57341-Z	1/4	1/2	1/4	2	57342-Z
5/16	1/4	1-1/2	57346-Z	1/4	5/8	1/4	2	57344-Z
1/2	1/4	2	57343-Z	1/4	3/4	1/4	2	57348-Z
	1/4 5/16	3/16 1/8 1/4 1/4 5/16 1/4	3/16 1/8 1-1/2 1/4 1/4 2 5/16 1/4 1-1/2	3/16 1/8 1-1/2 57340-Z†** 1/4 1/4 2 57341-Z 5/16 1/4 1-1/2 57346-Z	B Od L Tool No. OD 3/16 1/8 1-1/2 57340-Z†** 3/16 1/4 1/4 2 57341-Z 1/4 5/16 1/4 1-1/2 57346-Z 1/4	B Ød L Tool No. ØD B 3/16 1/8 1-1/2 57340-Z†** 3/16 7/8 1/4 1/4 2 57341-Z 1/4 1/2 5/16 1/4 1-1/2 57346-Z 1/4 5/8	B Ød L Tool No. ØD B Ød 3/16 1/8 1-1/2 57340-Z†** 3/16 7/8 1/4 1/4 1/4 2 57341-Z 1/4 1/2 1/4 5/16 1/4 1-1/2 57346-Z 1/4 5/8 1/4	B Ød L Tool No. ØD B Ød L 3/16 1/8 1-1/2 57340-Z†*** 3/16 7/8 1/4 2-1/2 1/4 1/4 2 57341-Z 1/4 1/2 1/4 2 5/16 1/4 1-1/2 57346-Z 1/4 5/8 1/4 2

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits. ** Not guaranteed due to size.

▲ Warning: Maximum RPM=35,000

METRIC CNC ALUMINUM CUTTING SPIRAL '0' FLUTE

	ØD	В	Ød	1	Tool No.	Tool No.	ØD
					'Up-Cut'	'Down-Cut'	
1	For mat	erial c	ut list vi	sit ww	w.amanatoo		
L						nd non-ferrous i	netals.
	Solid (Carbic	le • Sir	igle F	lute • Up	& Down-Cut	



/ D	UU		υu	-	1001 140
1	1.5mm	4mm	3mm	30mm	51370
, \ 	2mm	6mm	6mm	64mm	57300
n-Cut	2.5mm	6mm	6mm	64mm	57301
	3mm	8mm	3mm	30mm	51371
	3mm	8mm	6mm	63mm	51490
(-) }-	3mm	12mm	6mm	50mm	· —
	3mm	12mm	6mm	64mm	57302
	4mm	8mm	4mm	66mm	57303

an		6. 1			'Down-Cut
ØD	В	Ød	L	1001 NO.	Tool No.
1.5mm	4mm	3mm	30mm	51370	_
2mm	6mm	6mm	64mm	57300	_
2.5mm	6mm	6mm	64mm	57301	_
3mm	8mm	3mm	30mm	51371	-
3mm	8mm	6mm	63mm	51490	_
3mm	12mm	6mm	50mm	_	57307
3mm	12mm	6mm	64mm	57302	_

ØD	В	Ød	L	Tool No.	Tool No.
4mm	20mm	6mm	63mm	51492	
5mm	16mm	6mm	63mm	51494	_
6mm	8mm	6mm	64mm	57304	_
6mm	20mm	6mm	64mm	51496	_
6mm	32mm	6mm	76mm	_	57308
8mm	25mm	8mm	64mm	51498	_
8mm	38mm	8mm	76mm	57305	_
10mm	30mm	10mm	76mm	57306	_
	Pfor				

FINISH





▲ Warning: Maximum RPM=35,000

'Up-Cut' 'Down-Cut'

→ d l ←

→ D I > d l ←

Top View

Top View

→ d l ←

→ D I←

Single Flute

→ 30° /-

ALUMINUM CUTTING '0' FLUTE New

Solid Carbide . Single 'O' Flute . Straight Grind

Combining "mirror-finish" fluting which insures the best of cutting edges possible in a solid carbide tool, along with a strong, straight-fluted design, these aggressive '0' flute tools will give longer tool life.

Excellent For Cutting:

 Aluminum 	Fomex® with Al	uminum Face • Wood	Œ,	CNC
ØD	В	Ød	L	Tool No.
1/8	1/2	1/4	2	43530
1/8	13/16	1/4	2	43531
3/16	5/8	1/4	2	43532
1/4	3/4	1/4	2-1/2	43534
1/2	1	1/2	3	43539



30° AND 45° ENGRAVING New

1/4" Shank • Solid Carbide • Single Flute

For extra-fine carving and lettering details for signmaking in aluminum, wood, plastic and solid surface materials. ZrN coated.

a°	t = tip width	В	Ød	L	Tool No.
30°	0.005	0.440	1/4	2-1/4	45771-Z
45°	0.025	0.272	1/4	2	45622-Z



SPIRAL FLUTE PLUNGE New WITH CORNER RADIUS





JEL 😭 NH







For carving, lettering, decorative doors and sign manufacturing. Leaves an excellent finish and expels chips quickly.

Excellent For Cutting: • Aluminum • MDF • Soft/Hard Plastic • Soft/Hardwood Ød Tool No. 1/4 1/16 3/4 1/4 2-1/2

ALUMINUM CUTTING SQUARE END MILL

Solid Carbide • 3 Flute • Up-Cut

Produce super clean and extra smooth finish cut in Aluminum and non-Ferrous metals.

	ØD	В	Ød	L	Tool No.	
Ī	1/8	1/2	1/8	1-1/2	51862-Z	
	3/16	3/4	3/16	2	51864-Z	
	1/4	3/4	1/4	2-1/2	51866-Z	
	3/8	7/8	3/8	2-1/2	51868-Z	
	1/2	1-1/4	1/2	3	51870-Z	

8-PC. CNC ALUMINUM **CUTTING SPIRAL '0' FLUTE**













Excellent For Cutting:

- Aluminum /Alloys Alucobond® CCM Durabond Fomex® with Silver/Gold
 ACM Alupanel® Copper e-panel™ Aluminum TCM
 ACP Brass/Bronze Dibond® Etalbond® Face Wood

Set #AMS-160 Includes:

51474, 51454, 51408, 51402, 51480, 51481, 51508 & 51502

18-PC. CNC ADVANCED ALUMINUM CUTTING

CNC feed and speed available online









- **Excellent For Cutting:**
- Aluminum • Carbon Fiber • Fomex® with Aluminum Alloys
 CCM
- ACM
- Composites Alucobond[®]
- Alupanel® Dibond® Brass/Bronze Fiberglass
- HDF/MDF Copper HDII
- Graphite Laminate
- Aluminum Face Phenolic · Silver/Gold
 - Composites Sign Foam
 Plastic/Acrylic TCM Plywood Wood

Set #AMS-162 Includes:

51474, 51454, 51477, 51408, 51478, 51479, 51402, 51480, 51502, 45762, 46280, 46282, 51452, 51464, 51460 & RC-1075

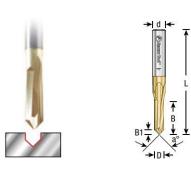


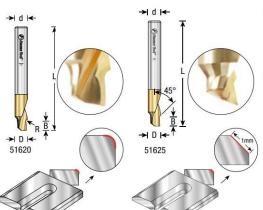
CNC feed and speed available online



ALUMINUM CUTTING ROUTER BITS









ZrN

SOFT ALUMINUM CUTTING

Solid Carbide • Single Flute • Up-Cut



Solid carbide single flute aluminum router bits, Zirconium Nitride (ZrN) coated, are especially designed to cut soft grades of aluminum sheet, 3003 grade to achieve a satisfactory finished edge. Also good for cutting brass, bronze, copper, gold and silver.

ØD	В	Ød	L	Max RPM	Tool No.
3/16	1/4	1/4	2	28,000	51450
1/4	1/4	1/4	2	28.000	51452

45°, 60° & 90° V-GROOVE & ENGRAVING Solid Carbide • 2 & 3 Flute

Designed for beveling or V-Grooving 45°, 60° & 90°. For material cut list visit www.amanatool.com.

	A	GINE
_		

a°	ØD	В	B1	Ød	L	Flutes	Tool No.
45°	1/4	3/4	0.310	1/4	2-1/4	2	45613 New
60°	1/4	3/4	0.214	1/4	2-1/4	2	45615 New
90°	1/8	5/8	1/16	1/8	2	2	45608
90°	1/8	5/8	1/16	1/4	2-1/4	2	45609
90°	3/16	5/8	3/32	1/4	2-1/4	2	45610
90°	1/4	3/4	1/8	1/4	2-1/4	2	45612
90°	3/8	3/4	3/16	3/8	2-1/2	2	45614
90°	1/4	1/4	1/8	1/4	1-1/2	3	45626-Z New

RADIUS & CHAMFER EDGE NON-FERROUS CUTTING END MILL

Solid Carbide • Single Flute • Up-Cut

By combining the up-cut design along with the common 3/32" convex radius or 45° chamfer, you can maximize your efficiency by routing one single pass.

Excellent For Cutting:

AluminumBrass • Copper • Non-Ferrous Metals

-	<	0
, = ,	A	(-
. A.	1,11	CNC
_	100	2

ØD	В	R	Ød	L	Type	Tool No.
3/16	3/32	3/64	1/4	2	Radius	51620
3/16	1/8	3/64	1/4	2	Radius	51622
3/16	3/32	_	1/4	2	Chamfer	51625
3/16	1/8	-	1/4	2	Chamfer	51627

CNC 4 FACET DRILLS

Solid Carbide • 118° Drill Point

Drill non-ferrous, iron and a variety of steels. See website for full material list. 2-flute design.







ØD	В	Ød	L	Tool No.
1/8	1-1/4	1/8	2-1/4	SCFD-100 †
5/32	1-3/8	5/32	2-1/2	SCFD-102
3/16	1-5/8	3/16	2-3/4	SCFD-104
7/32	1-3/4	7/32	3	SCFD-106
1/4	2	1/4	3-1/4	SCFD-108
5/16	2-3/8	5/16	4	SCFD-112
3/8	2-3/4	3/8	4-1/4	SCFD-116
1/2	3	1/2	4-3/4	SCFD-124
9/16	4	9/16	6	SCFD-126
3/4	4	3/4	6	SCFD-128

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank drills. More sizes and types (Letter, Number & Metric) available upon request.



CNC feed and speed available online

HIGH SPEED STEEL (HSS) FOR ALUMINUM

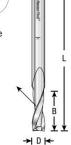
Up-Cut & Down-Cut

Single Flute: for routing materials where speed and easy chip removal are desired. Double Flute: provides a smoother finish than single flute when grooving, slotting.



Single Flute 2 Flute

'Up-Cut' 'Down-Cut'



Up-Cut



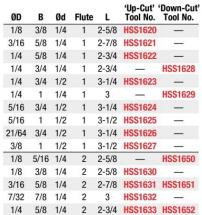
Excellent For Cutting: → d l ← 1 Flute (Up-Cut)

Aluminum Plate Natural Wood Plate

1 Flute (Down-Cut) Aluminum Plate

2 Flute (Down-Cut) Aluminum Extrusions Natural Wood Plate

2 Flute (Up-Cut) Aluminum Plate Aluminum Block Natural Wood Plate



ØD R Ød Flute L Tool No. Tool No. 1/4 3/4 1/4 2 2-3/4 HSS1634 HSS1653 1/4 3/4 1/2 2 3-1/4 HSS1635 1/4 1 1/4 2 3 HSS1655 3-1/4 HSS1656 1/4 1 1/4 2 1/4 2-1/8 1/4 3-1/2 5/16 3/4 1/2 2 3-1/4 HSS1637 HSS1657 5/16 3/4 3/8 2 3 HSS1638 5/16 5/16 HSS1639 5/16 1/2 2 3-1/2 HSS1640 HSS1659 3/8 3/8 2 3 HSS1641 1 3/8 1/2 3-1/2 HSS1642 3/8 1-1/4 1/2 3-3/4 HSS1643 1/2 1-1/4 1/2 2 3-1/4 HSS1644 HSS1661 1/2 2 1-1/2 1/2 3-1/2 3/4 1-1/4 1/2 2 3-1/4 HSS1646 HSS1663 Down-cut tools are recommended when chip removal is directed

down to protect the finish of the top of the material that has been cut.

CNC feed and speed available online

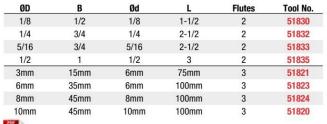
ALUMINUM CUTTING 55° HELIX END MILLS

Solid Carbide • 2 & 3 Flute

Endmills with upgraded helix angles are your friend when better surface finishes, reduced vibrations, enhanced chip removal and improved dimensional tolerances all take priority over material removal rates.

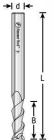
New 55° helix 2 & 3 flute endmills with the ideal geometry for superb finishing of aluminum and other non-ferrous materials

Unique design for cutting aluminum, brass, bronze, copper and other non-ferrous materials.









→ D I←

→ D I←

Down-Cut





CNC feed and speed available online

CNC NON-FERROUS FACE MILLING

Insert Carbide

The replaceable tips end mill/router bit tool body made from alloy steel with 4 solid carbide cutting inserts for maximum feed and stability are specially made for CNC and milling machines. Each solid carbide tip has 4 cutting rounded corners that can be rotated.

Excellent For Cutting:

- · Aluminum, Bronze & Copper
- Fomex® with Aluminum Face

Applications:

- Milling / Surfacing / Facing
- Shouldering / Rabbeting
- Slotting / Grooving

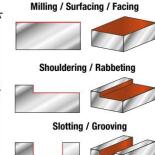


Use "Ramp Down" Technique.



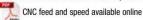
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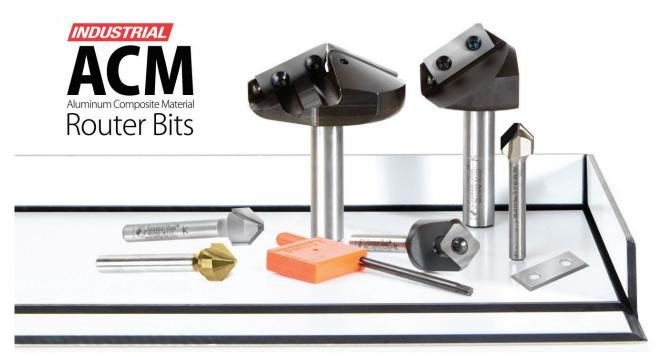


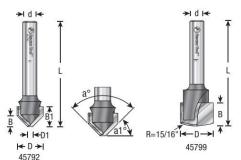
ØD	В	Ød	L	Max RPM	Flute	Repl. Knife	Tool No.
1-5/8	15mm	1/4	1-7/8	12,000	3	RCK-458	RC-3402
2-31/64	15mm	1/2	2-53/64	8 000	4	BCK-458	BC-3400

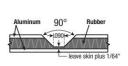
Maximum recommended material depth in one pass 1/32" (1.0mm).



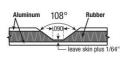
INDUSTRIAL ALUMINUM CUTTING ROUTER BITS



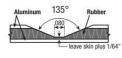


















* For rectangular grooves in thicker material like Alucore.®



ACM DOUBLE EDGE FOLDING

Carbide Tipped . V-Groove

Designed for shaping Aluminum Composite (sandwich) Materials with 90°, 108°, 135°, and 155° angle V-grooves with flat bottom. Ideal for wall panel fabrication. Widely used for cladding many diverse exterior and interior applications. The long lasting durablility of the material makes it an excellent choice for buildings, signage, displays, etc. Routing V-shaped grooves, whereby the aluminum cover and a part of the polyethylene core is removed, allows for folding the remaining material.

For Scoring Aluminum Composite Materials Including:

- · Aluminum, Clay, Zinc & Wood Composite Panels

 Aluminum Composite
- Material (ACM)
- · Aluminum Composite Panel (ACP)
 • ALPOLIC® Copper
- Composite Material (CCM)
- Alucobond® Alupanel[®]
 Dibond[®]
- Durabond
- e-panel™
- Etalbond® PE and FR Cores Phenolics
- Plastic/Acrylic
 Plexiglas[®]
 Titanium Composite Material (TCM)
- Wood





a°	a1°	ØD	ØD1	В	B1	Ød	L	Tool No.	
90°	45°	1/2	0.090 (2.3mm)	13/64	3/8	1/4	2	45792	
90°	45°	1/2	0.090 (2.3mm)	13/64	3/8	6mm	2	45792-N	1
90°	45°	1/2	0.090 (2.3mm)	13/64	3/8	1/2	2	45794	
90°	45°	3/4	0.118 (3.0mm)	5/16	17/32	1/4	2-1/8	45793	
108°	36°	1/2	0.090 (2.3mm)	5/32	3/8	1/4	2	45795	
108°	36°	1/2	0.090 (2.3mm)	5/32	3/8	1/2	2-3/64	45797	
108°	36°	1/2	0.090 (2.3mm)	5/32	3/8	1/2	3	45736	
108°	36°	3/4	0.090 (2.3mm)	15/64	3/8	1/2	2-3/8	45735	New
135°	22.5°	3/4	0.078 (2.0mm)	9/64	1/2	1/4	2-1/4	45798	
135°	22.5°	3/4	0.078 (2.0mm)	1/8	1/2	1/2	2-1/2	45791	
155°	12.5°	3/4	0.118 (3.0mm)	1/8	1/2	1/2	2-1/2	45737	New
_	_	5/8	_	7/16	_	1/4	2	45799	*

Packs

Includes 45792, 45795 & 45798 (1/4 shank)	AMS-140
Includes 45794, 45797 & 45791 (1/2 shank)	AMS-147



Excellent cutting surfaces and extremely long life. Good for scoring above materials. Also optimal for panels with mineral core which may meet fire regulations.

a°	a1°	ØD	ØD1	В	B1	Ød	L	Tool No.
90°	45°	1/2	0.090 (2.3mm)	13/64	3/8	1/4	2	DRB-450
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ACM DOUBLE EDGE FOLDING

Carbide (Brazed to Steel Shank) V-Groove

Designed For Scoring Aluminum Composite Materials

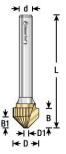
For material cut list visit www.amanatool.com.

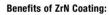
a°	a1°	ØD	ØD1	В	B1	Ød	L	Tool No.
90°	45°	1/2	0.090 (2.3mm)	3/8	13/64	1/4	2-1/8	45745
90°	45°	1/2	0.090 (2.3mm)	3/8	13/64	1/2	2-3/8	45747
108°	36°	1/2	0.090 (2.3mm)	3/8	5/32	1/4	2-1/8	45781
108°	36°	1/2	0.090 (2.3mm)	3/8	5/32	1/2	2-3/8	45785
135°	22.5°	3/4	0.078 (2.0mm)	1/2	1/8	1/4	2-1/4	45741
135°	22.5°	3/4	0.078 (2.0mm)	1/2	1/8	1/2	2-1/2	45743

Sets

3-Pc Set includes 45745 (90°), 45781 (108°) & 45741 (135°) (1/4 Shank)	AMS-218 New
3-Pc Set includes 45745 (90°), 45795 (108°) & 51402-Z (1/4 Shank)	AMS-213 New
3-Pc Set includes 45747 (90°), 45785 (108°) & 45743 (135°) (1/2 Shank)	AMS-219 New

Tools are manufactured with high balance, that allows them to run up to 60,000 RPM. Adjust your chip load and feed rate accordingly. See page 8 for cut illustrations.





- · Creates a harder and tougher cutting edge
- . Allows for a prolonged cutting edge life
- . Helps to prevent the build-up of material in the flutes while cutting

AITIN COATED BITS

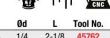
SCM DOUBLE EDGE FOLDING

Carbide (Brazed to Steel Shank) V-Groove

Special Amana-grade carbide provides much longer tool life especially compared to carbide tipped tooling.

For Scoring Steel and Titanium Composite Materials:

- Metal Composite Material (MCM)
- Steel Composite Material (SCM)
- . Titanium Composite Material (TCM)



a°	a1°	ØD	ØD1	В	B1	Ød	L	Tool No.
90°	45°	1/2	0.090 (2.3mm)	3/8	13/64	1/4	2-1/8	45762
90°	45°	1/2	0.090 (2.3mm)	3/8	13/64	1/2	2-3/8	45778
108°	36°	1/2	0.090 (2.3mm)	3/8	5/32	1/4	2-1/8	45749

See previous page for cut illustrations.



· Superior cut quality & extended tool life

ACM Saw Blades

See page 338-339

CNC ACM DOUBLE EDGE FOLDING

Insert Carbide • V-Groove for Shaping Composite Material Panels

Special Amana-grade insert carbide provides much longer tool life especially compared to carbide tipped tooling.

For Scoring Aluminum Composite Materials Including:

Aluminum, Clay, Zinc & • Alupanel®

ACM

ACP

CCM

Alucobond®

- Wood Composite Panels Dibond®
 - Durabond
 - e-panel™
- SCM
 - Etalbond® TCM PE and FR Cores
 Wood
- Plexiglas[®]

Phenolics

Plastic/Acrylic

(A)	C

Ronl

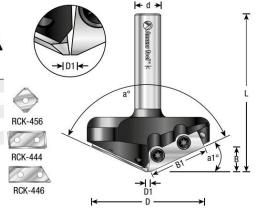
									nopi.		
ØD	ØD1	a°	a1°	В	B1	Flute	Ød	L	Knives	Tool No.	
43/64	0.090	90°	45°	19/64	_	2	1/4	2-9/32	RCK-456	RC-45716	
43/64	0.090	90°	45°	19/64	_	2	1/2	2-9/32	RCK-456	RC-45714	
1-1/2	0.090	90°	45°	45/64	1	1	1/2	3	RCK-442	RC-1172	
1-47/64	2mm	110°	35°	37/64	1	1	1/2	3-5/32	RCK-444	RC-1175	
2-1/8	3mm	130°	25°	15/32	1-7/64	2	1/2	3	RCK-446	RC-1177	

Optional knives for RC-1175: General Purpose #RCK-119; MDF #RCK-352.

Optional knives for RC-1177: General Purpose #RCK-136; MDF #RCK-353.

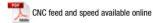
Visit www.amanatool.com for technical details and a complete list of replacement parts.

See page 8 for cut illustrations.



Set AMS-151

See page 72



INDUSTRIAL ACM CUTTING ROUTER BITS





Solid Carbide Spiral • 2 Flute with Ball Bearing Guide

Designed and tested for trimming all decorative aluminum laminates manufactured by Formica®, Advanced Technology Inc. (ATI™), DecoMetal® and many others. Engineered from our exclusive carbide grade designed specifically for cutting both aluminum laminates and wood-based substrate materials. Each bit is fitted with a steel bearing guide that enables users to trim laminate materials flush, allowing you

to perform any metal trim job to perfection! Not for use on

stainless steel.

	ØD	В	Ød	L	L1	Tool No.
Ī	1/4	5/8	1/4	2-1/2	_	51430* A28
	1/2	5/8	1/2	3-1/2	5/32	51432* A14

#51430 Replacement bearing #47723 (2), lock ring #47779.

#51432 Replacement bearing #47701 (2), lock ring #47752, replacement washer #67053.

* Except material: Formica® #2178

▲ Warning: Maximum RPM ▲14=14,000; ▲28=28,000

5-Packs Includes	Tool No. New
51430 (5 Pcs_each)	51430-5





With Invectra™ router bits, kitchen fabricators, remodelers and construction workers can perform any kind of cut and trim job in aluminum laminates.





ALUMINUM CUTTING FLUSH TRIM SPIRAL

Solid Carbide • 2 Flute with Ball Bearing Guide • Up & Down-Cut

This flush trim router bit was designed to eject chips up for clean cuts in aluminum and ACM materials. Perfect for routing aluminum using a template. Features a special carbide grade to perform high-quality cuts in aluminum.

Excellent For Cutting:

- Aluminum
- Aluminum Composite
- Materials (ACM)









	ØD	В	Ød	L	Tool No.	'Down-Cut' Tool No.
Ī	1/4	1/2	1/4	3	51422	51522
	1/4	1-1/4	1/4	3-1/2	51420	51520

Replacement parts: Bearing #47723 (2); Snap Ring #47779.

45° ALUMINUM & PLASTIC CUTTING **BEVEL TRIM**

Carbide Tipped • 2 Flute

For bevel trimming in aluminum and plastic with a standard router. The solid construction reduces vibration for the smoothest cut possible with a two flute bit.





ØD	D1	a°	В	Ød	L	Tool No.
31/32	1/2	45°	1/4	1/4	1-15/16	51434
31/32	1/2	45°	1/4	1/4	1-15/16	51434-DLC*

* Diamond-Like Carbon (DLC) is a low-friction coating for aluminum and aluminum alloys with a longer tool edge life

Replacement bearing #47706.

Note: Start at 12,000 RPM, inspect result, and increase the speed for a better surface, if necessary.







D/3D Carving IC Router Bits

Solid Carbide • 2, 3 & 4 Flute • Ball Nose • Tapered and Straight • Up-Cut

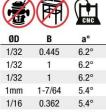
Specially designed for 2D and 3D CNC profiling and carving with CNC machines. The high-shear ball nose tips cut smooth 2D and 3D contours with reduced stepping while the optimized flute geometry and low Total Indicated Runout (TIR) guarantees clean cuts, essentially eliminates sanding and reduces chatter. The high flute volume supports high feed rates and chip loads while the high aspect ratio is excellent for single pass, deep-reach cutting. Manufactured with high balance which allows tools to be run up to 60,000 RPMs. Adjust your chip load and feed rate accordingly.

Applications:

- · A perfect router bit for 3D carving
- Precision 2D and 3D large scale carving
- Dimensional signage & 3D millwork
- · 2D/3D contouring, profiling, modeling & pattern making
- Cabinetry, furniture making
- · Jewelry mold making

Uncoated ZrN Coated





ØD	В	a°	R	Flute	Ød	L	Tool No.	Tool No.
1/32	0.445	6.2°	1/64	3	1/8	3	_	46291 †
1/32	1	6.2°	1/64	3	1/4	2-1/4	_	46280-S
1/32	1	6.2°	1/64	3	1/4	3	46280-U	46280
1mm	1-7/64	5.4°	0.5mm	2	1/4	2-23/64	_	46256
1/16	0.362	5.4°	1/32	4	1/8	3	_	46293 †
1/16	1	5.5°	1/32	2	1/4	2-1/4	_	46252-S
1/16	1	5.5°	1/32	2	1/4	2-23/64	_	46252
1/16	1	5.4°	1/32	4	1/4	3	46282-U	46282
1/16	1-1/2	3.6°	1/32	3	1/4	3	_	46281
1/16	1-1/2	5.4°	1/32	4	3/8	3-1/2	-	46582
1/8	1/2	7°	1/16	3	1/4	3	_	46288
1/8	3/4	5°	1/16	3	1/4	3	_	46287
1/8	1	3.6°	1/16	3	1/4	2-1/4	_	46286-S
1/8	1	3.6°	1/16	3	1/4	3	46286-U	46286
1/8	1	3.6°	1/16	4	1/4	3	_	46583
1/8	1-1/2	0.10°	1/16	3	1/8	3	_	46295 †
1/8	1-1/2	1°	1/16	3	1/4	3	46284-U	46284
3/16	1	1°	3/32	3	1/4	3		46298
1/4	1	0.10°	1/8	2	1/4	2-1/4	_	46294-S
1/4	1	0.10°	1/8	4	1/4	3	_	46584
1/4	1-1/2	0.10°	1/8	2	1/4	3	46294-U	46294
1/4	1-3/8	5°	1/8	2	1/2	4	6 <u></u> 8	46285
1/4	2	3°	1/8	2	1/2	4	_	46283
3/8	2-1/4	0.10°	3/16	3	3/8	4	-	46494
1/2	2-1/4	0.10°	1/4	3	1/2	4	_	46495

or 1/8 shank bits.

1/4	2	3°	1/8	2	1/2
3/8	2-1/4	0.10°	3/16	3	3/8
1/2	2-1/4	0.10°	1/4	3	1/2
† Route	er collet redu	ucer RB-10	2 (1/4 to 1	/8) ava	ilable fo
Packs	Includes		To	ol No.	
462	282, 46284	& 46294	AM	S-142	
462	280, 46282	& 46286	AM	S-144	
462	280, 46282	& 46294	AM	S-185	New
462	282, 46286	& 46294	AM	S-146	
462	256, 46252	& 46254	AM	S-110	
462	290, 46292	& 46294	AM	S-145	
46280,	46282, 46	286 & 462	294 AM	S-148	
46290.	46292, 46	284 & 462	288 AM	S-141	

46280-U, 46282-U & 45771 AMS-107 New

5	-Packs Includes	Tool No.	
Ī	46280 (5 Pcs. each)	46280-5	
	46282 (5 Pcs. each)	46282-5	
	46284 (5 Pcs. each)	46284-5	
	46286 (5 Pcs. each)	46286-5	
	46290 (5 Pcs. each)	46290-5	New
	46292 (5 Pcs. each)	46292-5	New
	46294 (5 Pcs. each)	46294-5	





Benefits of ZrN Coating:

- · Creates a harder and sharper cutting edge
- · Allows for a prolonged cutting edge life
- . Helps to prevent the build-up of material in the flutes while cutting
- · High resistance to wear for faster speeds
- · Less friction and heat buildup

Excellent for Cutting:

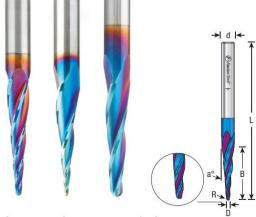
- · Acrylonitrile Butadiene Styrene (ABS)
- Acrylic
- Aluminum
- Brass
- Bronze
- Copper Gold
- Silver
- Titanium
- Composite
- Dibond[®]
- Ethafoam
- Expanded
- Polypropylene (EPP)
- FiberglassExpanded Polystyrene
- Foam (EPS) Extruded Polystyrene
- Foam (XPS) Foam Board

- · Graphite
- · 20lbs High Density Urethane
- High Density Polyethylene (HDPE)
 High Density Urethane (HDU)
 LexanTM
- MDF/HDF
- Non-Ferrous Metals
- Phenolics
- · Phenolic Composites
- Polyethylene Foam
- Polylam
 Polyurethane Foam
- PVC Foam Board
- Sign Board
- Sign Foam Tooling Board
- Wood
- XLPE (Cross Linked) Polyethylene) Foam



CNC feed and speed available online

INDUSTRIAL 2D/3D CARVING ROUTER BITS



Spektra™ 2D/3D Bits Excellent for Cutting:

- · Acrylonitrile Butadiene Styrene (ABS)

 • Acrylic
- · Acrylic Stone
- Composite
- Corian
- Coroplast®
 Dibond®
- Ethafoam
- Expanded
- Polypropylene (EPP)
- Ethylene-vinyl Acetate Foam (EVA)
- · Expanded Polypropylene (EPP)
- Expanded Polystyrene Foam (EPS)
- Extruded Polystyrene Foam (XPS) Fiberglass
- Fiberglass PCB Board

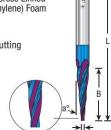
- Foam Board
- Graphite
 20lbs High Density Urethane · High Density Polyethylene (HDPE)
- . High Density Urethane (HDU)
- Lexan™
 MDF/HDF
- PALFOAMTM
- Plastics
- Poly (methyl methacrylate) (PMMA)
- Phenolics
- Phenolic Composites Polyethylene Foam
- Polylam
- Polyurethane Foam
- PVĆ
- PVC Foam Board
- Sign Board
- Sign Foam Tooling Board
- Wood





Benefits of Spektra™ Coating:

- · Provides longevity and produces cutting results of the highest quality
- · Prevents high heat and oxidation
- · Impressive solid hardness on cutting areas
- Increased longevity up to 2.5 times compared to uncoated bits



→ d |<



CNC 2D/3D CARVING TAPERED BALL NOSE

Solid Carbide • Ball Nose • Up-Cut

Specially designed for 2D and 3D CNC profiling and carving with CNC machines. Spektra $^{\text{TM}}$ bits feature a nACo $^{\text{M}}$ nanocomposite coating with an extreme nanohardness and heat resistance.





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ı	2	CNC	:

ØD	В	a°	R	Flute	Ød	L	Tool No.
0.5mm	19mm	3.7°	0.25mm	3	3mm	75mm	48418-K-M Ne
1/32	1	6.2°	1/64	3	1/4	3	46280-K
1.5mm	26mm	5.0°	0.75mm	3	6mm	75mm	48420-K-M
1.5mm	26mm	5.4°	0.75mm	4	6mm	76mm	48422-K
1/16	1	5.4°	1/32	4	1/4	3	46282-K
3mm	26mm	3.6°	1.50mm	3	6mm	75mm	46286-K-M
1/8	1/2	7°	1/16	3	1/4	3	46288-K
1/8	1	3.6°	1/16	3	1/4	3	46286-K
1/8	1-1/2	0.10°	1/16	3	1/8	3	46295-K†
1/8	1-1/2	1°	1/16	3	1/4	3	46284-K
1/4	1/2	0.10°	1/8	2	1/4	3	46294-K

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

Packs New Includes	Tool No.
46282-K, 46284-K & 46294-K	AMS-142-K
46280-K, 46282-K & 46286-K	AMS-144-K
46282-K, 46286-K & 46294-K	AMS-146-K
46280-K, 46282-K,	
46286-K & 46294-K	AMS-148-K
46282-K & 45624 (60°)	AMS-192
46280-K, 46282-K & 45771-K	AMS-107-K

5-Packs	New	Includes	Tool No.
46280-K	(5 Pc	s. each)	46280-K-5
46282-K	(5 Pc	s. each)	46282-K-5
46284-K	(5 Pc	s. each)	46284-K-5
46286-K	(5 Pc	s. each)	46286-K-5
46290-K	(5 Pc	s. each)	46290-K-5
46292-K	(5 Pc	s. each)	46292-K-5
46294-K	(5 Pc	s. each)	46294-K-5
46577-K	(5 Pc	s each)	46577-K-5



CNC 2D/3D CARVING TAPERED New AND STRAIGHT FLAT BOTTOM

Solid Carbide • Flat Bottom • Up-Cut

High-shear flat bottom tips cut smooth 2D and 3D contours with reduced stepping. Spektra™ extreme tool life coated.

with red	uced steppii	ng. Spektra	a™ extre	me tool li	fe coated.	Up-Cut	Down-Cut
ØD	В	a°	Flute	Ød	L	Tool No.	Tool No.
1/16	5/16	0.10°	3	1/4	2	46290-K	46486-K New
3mm	28mm	0.10°	4	6mm	63mm	48424-K	_
1/8	1/2	0.10°	4	1/4	2	46586-K	_
1/8	3/4	0.10°	4	1/4	2-1/2	46292-SK	New —
1/8	1-3/32	0.10°	4	1/4	2-1/2	46292-K	_
1/4	3/4	0.10°	2	1/4	2	46587-K	-
1/4	1_1/2	0.100	2	1//	3	46577-K	

CNC 2D/3D CARVING TAPERED AND STRAIGHT FLAT BOTTOM



High-shear flat bottom tips cut smooth 2D and 3D contours with reduced stepping.

ZrN coated. For material cut list		st visit ww	/w.amar	natool.com.	Uncoated	ZrN Coated	
ØD	В	a°	Flute	Ød	L	Tool No.	Tool No.
1/32	0.445	6.2°	3	1/8	3	2—8	46571 †
1/32	1	6.2°	3	1/4	3	6-8	46570
1/16	5/16	0.10°	3	1/4	2	46290-U	46290
1/16	1	5.4°	4	1/4	3	_	46572
1/8	15/32	0.10°	2	1/4	2-23/64	_	46254
1/8	1/2	7°	3	1/4	3	2-0	46576
1/8	1	3.6°	3	1/4	3	_	46573
1/8	1-3/32	0.10°	4	1/4	2-1/2	46292-U	46292
1/8	1-1/2	0.10°	3	1/8	3	_	46299
1/8	1-1/2	1°	3	1/4	3	_	46574
3/16	1	1°	3	1/4	3	-	46575 Nev
1/4	3/4	0.10°	3	1/4	2-1/2		46578
1/4	1-1/2	0.10°	2	1/4	3		46577 Nev
3/8	1-3/4	0.10°	3	3/8	3	S SS	46597
1/2	2-1/4	0.10°	3	1/2	4	_	46579

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

CNC METRIC 2D/3D CARVING TAPERED AND STRAIGHT

Solid Carbide • Ball Nose (Conical Ball) • Up-Cut

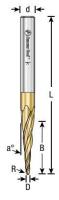


ØD	В	a°	R	Flute	Ød	L	Tool No.
0.5mm	26.5mm	6.2°	0.25mm	3	6mm	75mm	46473 New
0.8mm	25mm	6.2°	0.40mm	3	6mm	75mm	46470
1mm	3mm	0.10°	.019	3	1/8	1-1/2	46471
1.5mm	25mm	5.4°	0.75mm	4	6mm	75mm	46472
3.2mm	38mm	1°	1.6mm	3	6mm	75mm	46474
6.0mm	38mm	0.10°	3.0mm	2	6mm	75mm	46479

Solid Carbide • Flat Bottom (Square End) • Up-Cut

ØD	В	a°	Flute	Ød	L	Tool No.
1mm	3mm	0.10°	3	1/8	1-1/2	46581 †
6mm	38mm	0.10°	2	6mm	75mm	46585

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.









> d l←

Flat Bottom



CNC EXTRA-LONG REACH 2D/3D CARVING FLAT BOTTOM AND BALL NOSE

Solid Carbide with Reduced Shank . 3 Flute . Up-Cut

Extra-long reduced shank section for deeper reach and better chip clearance.

The industrial router bits can be used in sign making & 3D Carving industries in MDF, Plastics, Bronze, Copper, Aluminum, Foam, Wood and other materials. The simultaneous 3-axis motion with the appropriate software allows full 3D capability that provides sign and 3D model makers the ability to work with most materials.



Ball Nose (Conical Ball)

511	ØD	В	a°	R	Ød	Ød1	L	L1	Tool No.
	1/4	1/2	0.10°	1/8	1/4	15/64 (.235)	4	1-1/4	46490
	3/8	3/4	0.10°	3/16	3/8	23/64 (.352)	4	1-1/4	46491
	1/2	1	0.10°	1/4	1/2	15/32 (.470)	6	1-1/2	46493
	1/2	1-1/4	0.10°	1/4	1/2	15/32 (.470)	7	2	46496

Flat Bottom (Square End)

- 5	ØD	В	a°	Ød	Ød1	L	L1	Tool No.
	1/4	1/2	0.10°	1/4	15/64 (.235)	4	1-1/4	46590
	3/8	3/4	0.10°	3/8	23/64 (.352)	4	1-1/4	46591 New
	1/2	1	0.10°	1/2	15/32 (.470)	6	1-1/2	46593
	1/2	1-1/4	0.10°	1/2	15/32 (.470)	7	2	46596

Tools are manufactured with high balance, that allows them to run up to 60,000 RPM. Adjust your chip load and feed rate accordingly.



CNC feed and speed available online



CNC EXTRA-LONG REACH 2D/3D New CARVING FLAT BOTTOM AND BALL NOSE

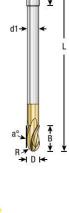
Solid Carbide with Reduced Shank • 3 Flute • Ball Nose (Conical Ball)

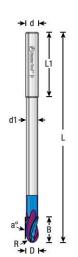
Extra-long reduced shank section for deeper reach and better chip clearance.

For complete details on Spektra™ visit www.amanatool.com/spektra

CNC									
ØD	В	a°	R	Ød	Ød1	L	L1	Tool No.	
1/4	1/2	0.10°	1/8	1/4	15/64 (.235)	4	1-1/4	46490-K	

For material cut list visit www.amanatool.com.









INDUSTRIAL 2D/3D CARVING ROUTER BITS

ZrN Coated Excellent for Cutting:

- · Acrylonitrile Butadiene Styrene (ABS)
- Acrylic
 Aluminum
- Brass
- Bronze
- Copper
- · Gold
- Silver
- Titanium
- · Composite
- Dibond®
- Ethafoam Expanded
- Polypropylene (EPP)
- Fiberglass
- Expanded Polystyrene

Set #AMS-136 Includes:

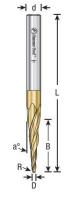
46280, 46282, 46284, 46286, 46288, 46294, 46290 & 46292

- Foam (EPS)

 Extruded Polystyrene Foam (XPS)

 Foam Board
- Graphite
- · 20lbs High Density Urethane

- · High Density Polyethylene (HDPE)
- High Density Urethane (HDU)
 Lexan™
- MDF/HDF
- Non-Ferrous Metals
- PhenolicsPhenolic CompositesPolyethylene Foam
- Polylam
- Polyurethane Foam
- PVCPVC Foam BoardSign Board
- Sign Foam
- Tooling Board
- Wood
- XLPE (Cross Linked Polyethylene) Foam



CNC 2D/3D CARVING HIGH SPEED STEEL New (HSS) TAPERED AND STRAIGHT

High Speed Steel (HSS) • 3 & 4 Flute • Up-Cut

Specially designed for 2D/3D CNC profiling and carving in plastic, aluminum & wood with CNC machines. High-shear ball nose tips cut smooth 2D and 3D contours with reduced stepping. ZrN Coated.



Applications:

- · A perfect router bit for 3D carving
- · Precision 2D and 3D large scale carving
- · Dimensional signage & 3D millwork
- · 2D/3D contouring, profiling, modeling & pattern making
- · Cabinetry, furniture making
- · Jewelry mold making





Ball Nose

Flat Bottom

Ball Nose

ØD	В	a°	R	Flute	Ød	L	Tool No.
0.5mm	26mm	5.8°	0.25mm	3	6mm	76mm	HSS1298-M
1/32	1	6.2°	1/64	3	1/4	3	HSS1300
1.5mm	26mm	5.1°	0.75mm	3	6mm	76mm	HSS1303-M
1/16	1	5.4°	1/32	4	1/4	3	HSS1302
3mm	26mm	3.5°	1.5mm	3	6mm	76mm	HSS1304-M
1/8	1	3.6°	1/16	3	1/4	3	HSS1304
1/8	1-1/2	1°	1/16	3	1/4	3	HSS1306

Flat Bottom (Square End)

See below table for material cut list

ØD	В	a°	Flute	Ød	L	Tool No.
1/16	5/16	0.10°	3	1/4	2	HSS1310
1/8	1-3/32	0.10°	4	1/4	2-1/2	HSS1312



8-PC CNC 2D/3D CARVING

1/4" Shank • Solid Carbide Spiral Ball Nose and Flat Bottom Router Bit Collection . Up-Cut Designed for 2D and 3D CNC profiling and carving.











18-PC. CNC 2D/3D CARVING & LETTERING

1/8" & 1/4" Shank • Solid Carbide Router Bit Collection • Up-Cut

Designed specifically for precision 2D and 3D applications.

AMS-136 and AMS-143 Excellent For Cutting:

- Acrylonitrile Butadiene Styrene (ABS)
- AcrylicAluminum
- Aluminum Alloys
- ACM
- Alucobond®
- Alupanel® Brass/Bronze
- · Carbon Fiber
- Composites
- Copper Dibond[®]

- Expanded Polystyrene Foam (EPS)
- Extruded Polystyrene Foam
- Fiberglass Fiberglass PCB
- Board Graphite
- HDF/MDF
- HDPE
- HDU
 - LexanTM

- Phenolics
 - Phenolic Composites
 - Plastic/Acrylic Plywood
 - Silver/Gold

 - Sign Foam TCM
 - Titanium
 - Tooling Board
 - Wood
 - 20lbs High Density
- Urethane Non-Ferrous Metals XPE





& RB-102 (2)



46280, 46282, 46284, 46286, 46288, 46294, 46290, 46292, 46291, 46295, 46287, 46570, 46572, 46574, 46490, 46590, 46094, 46090



CNC feed and speed available online

Set #AMS-143 Includes:



Excellent For Cutting:

- Acrylonitrile-Butadiene-Styrene (ABS)
 Ethafoam

- Ethylene-Vinyl Acetate Foam (EVA)
 Expanded Polypropylene (EPP)
 Expanded Polystyrene Foam (EPS)
 Extruded Polystyrene Foam (XPS)
 Flexible Polyurethane Foam (FPF)
 Fomov®
- Fomex®
- Lexan™
- PALFOAM™
- Polyethylene Foam
- Polylam
- Polyurethane Foam
- XLPE (Cross Linked Polyethylene) Foam



CNC FOAM CUTTING SPIRAL

Solid Carbide • 2 Flute • Up-Cut & Down-Cut

Specifically designed for milling Polyurethane Foam and Expanded Polystyrene (EPS) to ensure your foam projects are milled with unparalleled accuracy, detail and clarity. Achieve both precision and depth for foam carving and milling applications. Provides deeper cuts and larger slices with fewer passes in thick materials, resulting in improved productivity and less assembly.

The up-cut spiral ejects chips away from the work-piece.





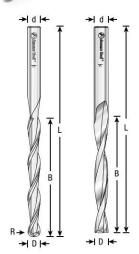
Ball Nose

	ØD	В	R	Ød	L	'Up-Cut' Tool No.
Ī	1/8	1-1/8	1/16	1/4	2-1/2	46030 †
	1/4	2-1/4	1/8	1/4	4	46032

Flat Bottom (Square End)

20,000				
28mm	6mm	64mm	48442 New	
28mm	6mm	64mm	48442-K 🔀 🖊	New
1-1/16	1/8	3	46269 †	46562
1-1/16	1/8	3	46269-K† 🔀 🔥	New —
1-1/8	1/4	2-1/2	46270 †	46564
1-1/8	1/4	2-1/2	46270-K† 🔀 🗥	New —
1-1/8	3/16	3	46271	_
1-5/8	3/16	4	46273	_
57mm	6mm	100mm	48444 New	_
57mm	6mm	100mm	48444-K 🔀 🖊	New —
1-1/4	1/4	2-1/2	46274	-
2-1/4	1/4	4	46272	46566
2-1/4	1/4	4	46272-K 🔀 🖊	New 46566-K ⋈ N
3	1/4	6	46275	_
3-1/2	3/8	6	46278	_
4	3/8	6	46277	_
4-1/2	3/8	7	46279	
	1-1/16 1-1/16 1-1/8 1-1/8 1-1/8 1-5/8 57mm 57mm 1-1/4 2-1/4 3 3-1/2	1-1/16 1/8 1-1/18 1/4 1-1/8 1/4 1-1/8 3/16 1-5/8 3/16 57mm 6mm 57mm 6mm 1-1/4 1/4 2-1/4 1/4 3 1/4 3-1/2 3/8 4 3/8	1-1/16	1-1/16

[†] Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.







INDUSTRIAL CNC FOAM CUTTING ROUTER BITS

Flat Bottom

Marktra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality. For complete details on Spektra™ visit www.amanatool.com/spektra



CNC EXTENDED REACH FOAM CUTTING HIGH SPEED STEEL (HSS) SPIRAL High Speed Steel (HSS) • 4 Flute • Up-Cut

Titanium Nitride (TiN) coating increases strength and durability. TiN coated bits harden and protect the cutting edges, and helps smooth the flutes for improved chip ejection.

TiN coated CNC foam tools let you achieve depth and precision for thick foam carving applications. Ensure your foam projects are milled with accuracy and high detail, deep cuts in thick materials in fewer passes.

Excellent For Cutting:

- Acrylonitrile-Butadiene-Styrene (ABS)
 Aluminum Alloys
- Crosslinked Polyethylene Foam (XLPE)
- Ethafoam

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- Ethylene-Vinyl Acetate Foam (EVA)
 Expanded Polypropylene (EPP)
 Expanded Polystyrene Foam (EPS)
 Extruded Polystyrene Foam (XPS)
 Flexible Polyurethane Foam (FPF)

- Fomex®
 Lexan™
 PALFOAM™ Plastic
- Polyethylene Foam
- Polylam
- Polyurethane Foam
- Wood





Ball Nose Flat Bottom





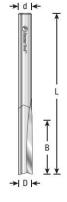
Ball Nose

ØD	В	Radius	Ød	L	Tool No.	
1/4	4	1/8	1/4	6	HSS1202	
1/4	4	1/8	3/8	6	HSS1200	
1/2	6	1/4	1/2	8	HSS1204	
1/2	6	1/4	1/2	10	HSS1205	New

Flat Bottom (Square End)

ØD	В	Ød	L	Tool No.
1/4	4	1/4	6	HSS1212
1/4	4	3/8	6	HSS1210
1/2	6	1/2	8	HSS1214
1/2	6	1/2	10	HSS1215
3/4	10	3/4	12-1/2	HSS1216





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FOAM CUTTING HIGH SPEED STEEL (HSS) STRAIGHT V-FLUTE

High Speed Steel (HSS) . 2 Flute

V-flutes are selected when a balanced tool is critical for smooth finish. Excellent for hand-fed operations.

Excellent For Cutting:

- · Crosslinked Polyethylene Foam (XLPE)
- Ethafoam
- Expanded Polypropylene (EPP)
- · Flexible Polyurethane Foam (FPF)

- Fomex®
 Natural Woods
- Polyethylene Foam
- Polylam



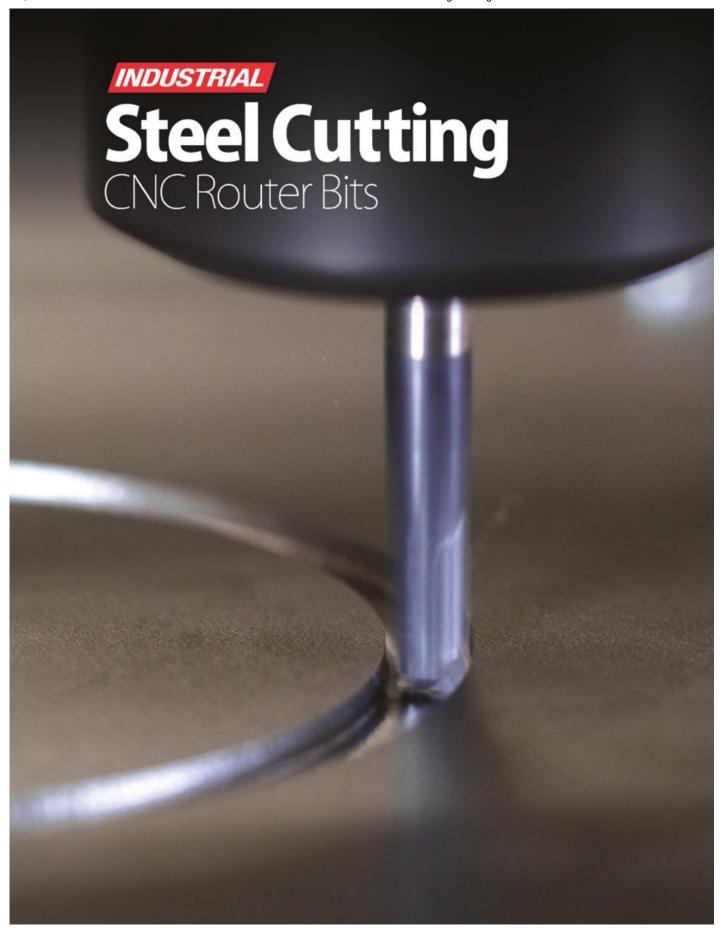




ØD	В	Ød	L	Tool No.
1/4	3/4	1/4	2-1/8	HSS1610
6mm	25mm	6mm	83mm	HSS1611-M New
1/4	1	1/4	3-1/4	HSS1611*
1/4	1	1/2	2-1/2	HSS1612
3/8	1	3/8	2-1/2	HSS1613
1/2	1-1/4	1/2	2-3/4	HSS1614

^{*} May be used in Air Routers.







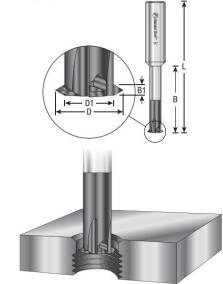
Benefits of AITIN Coating:

- · Extra wear resistance
- Allows for faster feed & speed rates
- · Cutting edge protected from wear
- · Better chip evacuation
- · Superior cutting quality & extended tool life
- · Less heat build-up

Excellent For Cutting:

- Stainless Steel
- Steel
- · Cast Iron
- · Composites
- · Low Carbon Steel Metal Composite Material (MCM)
- MagnesiumPlastics
- Super Alloys
- Titanium
- (up to 40HRC hardness)

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CNC HIGH PERFORMANCE STEEL, STAINLESS STEEL & COMPOSITE CUTTING

Solid Carbide Spiral • 2, 3 & 4 Flute • Up-Cut Router Bits/End Mills

Manufactured from our exclusive ultra-fine micrograin carbide, these bits feature a 30 degree Center Cutting Mill End with a 45 degree corner chamfer (for extra strength) and Aluminum Titanium Nitride (AITiN) coating for superior cut quality.

Perfect for the signmaking industry. Our special carbide grade combined with the AITiN coating results in amazing performance. The unique corner chamfer gives the bits additional strength.





CNC	CNC Milling
	Tool No.
	51673†
	51674†
	51461†
	51463

	Tool No.	Flute	L	Ød	В	ØD
New	51673†	2	1-1/2	1/8	3/16	1/16
New	51674†	2	1-1/2	1/8	3/8	1/8
	51461†	2	2	1/8	1/4	1/8
	51463	2	2-1/2	3/16	3/8	3/16
New	51675	2	2	3/16	5/8	3/16
	51465	2	2-1/2	1/4	3/8	1/4
	51466	2	2-1/2	1/4	1/2	1/4
New	51676	2	2-1/2	1/4	3/4	1/4
	51467	2	3	3/8	1/2	3/8
New	51677	2	2-1/2	3/8	1	3/8
	51468	2	3	1/2	3/4	1/2
	51610	3	40mm	3mm	10mm	3mm
	51460	3	1-1/2	1/4	3/8	1/8
	51612	3	48mm	4mm	10mm	4mm
	51462	3	1-7/8	1/4	7/16	3/16
	51614	3	63mm	6mm	16mm	6mm
	51464	3	2-3/8	1/4	5/8	1/4
	51602	4	1-1/2	1/4	3/8	1/8
	51604	4	2-3/8	1/4	5/8	1/4

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

▲ Warning: Maximum RPM=28,000

Visit www.amanatool.com for technical details

3-Pc, 4-Pc Packs and 8-Pc Collection

Description	Tool No.
4-Pc AlTiN Coated Pack Includes #'s 51461 (1/8 dia), 51463 (3/16 dia),	AMS-154
51465 (1/4 dia.), 51467 (3/8 dia.)	
0. D. AUTHOUGH AND R. L. L. L. W. Eddod (4/0. P.). Eddod (4/0. P.)	*****

8-Pc AlTiN Coated Collection Includes #'s 51461 (1/8 dia), 51460 (1/8 dia), AMS-152 51602 (1/8 dia.), 51465 (1/4 dia.), 51464 (1/4 dia.), 51604 (1/4 dia.),

51462 (3/16 dia.), 51467 (3/8 dia.), RB-102, RB-122



CNC SINGLE FORM THREADMILLS, New STEEL & STAINLESS STEEL CUTTING

Solid Carbide • 4 Flute

Tool is designed to cut internal and external and can mill mulitple pitches.

- Cuts internal and external 60° UN threads
 Hole-making and threading
- · Tip of included angle ground to a point
- · Available in metric and inch sizes

Excellent For Cutting:

Steel

- Also for cutting: Cast Iron Titanium • Stainless Steel
 - Aluminum/ Non-Ferrou Acrylic/Pla

1/		
S	Materials	
as	stic	





Thread		Neck Diameter					
Size	ØD	D1	В	B1	Ød	L	Tool No.
1/4	0.18	0.115	1	0.038	1/4	2-1/2	59402
5/16	0.24	0.160	1	0.046	1/4	2-1/2	59404
3/8	0.30	0.218	1-1/4	0.047	3/8	2-1/2	59406
M5	4mm	2.4mm	12mm	0.92mm	4mm	50mm	59410
M6	4.8mm	2.88mm	14mm	1.11mm	6mm	50mm	59412
M8	6mm	3.6mm	18mm	1.39mm	6mm	50mm	59414
M10	8mm	4.8mm	24mm	1.85mm	8mm	63mm	59416

A Warning: Must have a CNC machine and the software to accept the programming needed to utilize helical circular interpolation.

Note: Inspect cut quality and adjust feed/speed accordingly. Care should be taken to observe proper feeds/speeds according to the work-piece material to avoid damage. For optimal results and extended tool life use mist lubricant system or air cooling.

MINIATURE CNC STEEL, STAINLESS STEEL & COMPOSITE CUTTING

Solid Carbide Spiral • 2 & 4 Flute • Up-Cut Router End Mills

High performance. Choose 2 flute for effecient vertical plunging, pocketing and slotting operations and 4 flute for improved surface finish, longer life and increased feed rates with peripheral milling applications.

AITIN COATED BITS







ØD	R	В	Ød	L	Туре	2-Flute Tool No.	4-Flute Tool No.
0.010	0.0050	0.030	1/8	1-1/2	Ball End	51739	51750
0.015	0.0075	0.045	1/8	1-1/2	Ball End	51740	51751
0.020	0.0100	0.060	1/8	1-1/2	Ball End	51741	51752
0.025	0.0125	0.075	1/8	1-1/2	Ball End	51742	51753
0.030	0.0150	0.090	1/8	1-1/2	Ball End	51743	51754
0.035	0.0175	0.105	1/8	1-1/2	Ball End	51744	51755
0.040	0.0200	0.125	1/8	1-1/2	Ball End	51745	51756
0.045	0.0225	0.135	1/8	1-1/2	Ball End	51746	-
0.050	0.0250	0.174	1/8	1-1/2	Ball End	51747	51758
0.055	0.0275	0.267	1/8	1-1/2	Ball End	51748	-
0.060	0.0300	0.360	1/8	1-1/2	Ball End	51749	51760
0.010	40	0.030	1/8	1-1/2	Square End	51660	51719
0.015	-	0.045	1/8	1-1/2	Square End	51661	51720
0.020	-	0.060	1/8	1-1/2	Square End	51662	51721
0.025	-	0.075	1/8	1-1/2	Square End	51663	51722
0.030		0.090	1/8	1-1/2	Square End	51664	51723
0.035	-	0.105	1/8	1-1/2	Square End	51665	51724
0.040	-	0.120	1/8	1-1/2	Square End	51666	51725
0.045	-	0.135	1/8	1-1/2	Square End	51667	51726
0.050		0.174	1/8	1-1/2	Square End	51668	51727
0.055	-	0.267	1/8	1-1/2	Square End	51669	51728
0.060	-	0.360	1/8	1-1/2	Square End	51679	51729

▲ Warning: Due to the extremely small diameters involved, please exercise caution to the accurate calculations of all feed and speed rates.



CNC feed and speed available online

HIGH SPEED STEEL (HSS) DOOR BITS FOR STEEL

High Speed Steel (HSS) TiN Coated • Single Flute • Down-Cut

Titanium Nitride (TiN) coating increases strength and durability. TiN coated bits harden and protect the cutting edges, and helps smooth the flutes for improved chip ejection.



ØD	В	Ød	L	Machine	Tool No.
1/2	2-1/2	1/2	5-1/2	RUV0	HSS1702TIN
1/2	2-1/2	1/2	5-1/2	NORFIELD †	HSS1705TIN

[†] Part of the shank is flat to fit in Norfield machine.

▲ Warning: Not to be used on a handheld router, table router or CNC machine.



Excellent For Cutting:

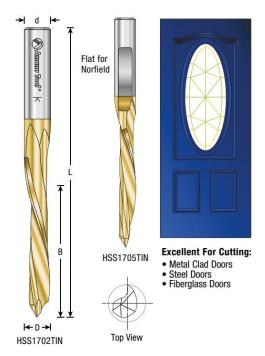
- · Stainless Steel
- Steel
- Titanium
- Cast Iron
- Cermet*Metal Composite
- Material (MCM)
- Magnesium
- Plastic



Miniature End Mills

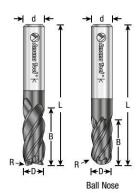
Micro machining applications involve miniature tooling that requires very high attention to tolerances and detail in their construction.

These end mills incorporate 30 degree helixes and AlTiN coating to insure a high degree of precision. Miniature end mills also routinely require RPMs in excess of 40,000 RPMs or more. Attention to both RPM capacity and accurate chip-loads is mandatory.



INDUSTRIAL STEEL CUTTING ROUTER BITS







CNC VARIABLE HELIX SPIRAL

Solid Carbide End Mills • 4 Flute • Up-Cut

These variable-helix tools are the superstars of carbide end mills for professionals and hobbvists alike. The variable helix eliminates harmonic chatter, so critical when surface finishes, part dimension tolerances and tool life are of the utmost importance.

They are outstanding tools for peripheral milling, and can take aggressive cuts along the full length of the overall flute length with no issues. For use with manual and automatic milling machines, as well as the most sophisticated CNC machines.

AITIN COATED BITS

Excellent For Cutting:

- · Stainless Steel

- Cast Iron
- Cermet*
- Composites
 Low Carbon Steel
- Magnesium
- Magnesium Metal Composite Material (MCM)
- PlasticsSuper AlloysTitanium (up to
- 40HRc Hardness)









Square Bottom

ØD	В	Ød	L	Tool No.
1/4	5/8	1/4	2-1/2	51593
3/8	7/8	3/8	2-1/2	51595
1/2	1	1/2	3	51597

Corner Radius Bottom

ØD	R	В	Ød	L	Tool No.
1/4	0.015	5/8	1/4	2-1/2	51605
3/8	0.020	7/8	3/8	2-1/2	51607
1/2	0.030	1	1/2	3	51609

Ball Nose

ØD	R	В	Ød	L	Tool No.
1/8	1/16	1/4	1/8	1-1/2	51790 Nev
1/8	1/16	3/8	1/8	1-1/2	51792 New
3/16	3/32	7/16	3/16	2	51794 New
1/4	1/8	1/2	1/4	2	51796 New
1/4	1/8	5/8	1/4	2-1/2	51798 New
1/4	1/8	1-1/8	1/4	3	51800 New
3/8	3/16	7/8	3/8	2-1/2	51802 New
1/2	1/4	1	1/2	3	51804 New
1/2	1/4	1-1/4	1/2	3	51806 New
3/4	3/8	1-1/2	3/4	4	51808 New

^{*}Composites in which ceramic materials and metals are joined together.



CNC feed and speed available online

CNC 118° POINT SPADE DRILL

Solid Carbide • 2 Flute

Used to drill very short, shallow holes in hard (or hardened) steel. Can be used in either CNC or drill presses. Note: Make sure your drill press runs fast and has a tight spindle.

Excellent For Cutting:

- Stainless Steel Titanium
- Steel · Non-Ferrous
- Cast Iron







* Cermets are composites in which ceramic materials and metals join together.

ØD	В	Ød	L	Tool No.
1/8	7/16	1/8	1-1/2	51682
3/16	9/16	3/16	2	51684
1/4	11/16	1/4	2	51686
5/16	7/8	5/16	2-1/2	51688
3/8	1	3/8	2-1/2	51680



CNC feed and speed available online

CNC HIGH PERFORMANCE 90° 'V' SPIRAL DRILLS

Solid Carbide Spiral • 2 & 4 Flute • Up-Cut

A true multi-function tool, combination drill/mills allow plunging, slotting and/or top chamfering all in one tool saving you indexing time. AlTiN coating provides quantum increases in productivity, either in terms of speed or longevity, with or without coolant.

AITIN COATED BITS

Excellent For Cutting:

- · Stainless Steel
- Soft Plastics · Composites
- Steel · Cast Iron
- Titanium
- · Metal Composite Material



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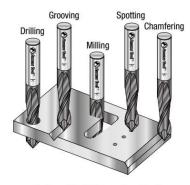
ØD	В	B1	Ød	L	Flute	Tool No.	
1/8	1/2	1/16	1/8	1-1/2	2	51650	
3/16	5/8	3/32	3/16	2	2	51651	
1/4	3/4	1/8	1/4	2-1/2	2	51652	
5/16	7/8	5/32	5/16	2-1/2	2	51653	
3/8	7/8	3/16	3/8	2-1/2	2	51654	
7/16	1	7/32	7/16	2-1/2	2	51655	
1/2	1	1/4	1/2	3	2	51656	
5/8	1-1/4	5/16	5/8	3-1/2	2	51657	
3/4	1-1/2	3/8	3/4	4	2	51658	
1/8	1/2	1/16	1/8	1-1/2	4	51690	
1/4	3/4	1/8	1/4	2-1/2	4	51692	
3/8	7/8	3/16	3/8	2-1/2	4	51694	
1/2	1	1/4	1/2	3	4	51696	

A Warning: These tools are not designed for drilling steel, stainless steel, titanium and cermets.



CNC feed and speed available online





A True Multi-Function Tool.

CNC HIGH PERFORMANCE 118° POINT CENTER DRILL, 60° COUNTERSINK

Solid Carbide • 2 Flute

60° inclusive countersinks drill downwards a small amount in order to make a quality starting hole and a profile. Follow up with a secondary drill for the full depth of cut of the work-piece. They do not route along a slot. Combination drill/countersinks provides exceptional starting positioning for secondary drills, plus provide qualified countersink dimensions for screw heads, etc. Premium AlTiN coating provides quantum increase in productivity, either in terms of speed or longevity, with or without coolant.

Use on manual or CNC driven lathes and manual or CNC driven milling machines. Not for use in handheld drills or handheld routers.

Drill Point 118°

AITIN COATED BITS

Excellent For Cutting:

- · Stainless Steel Steel
- Soft Plastic Composites
- Poly (methyl methacrylate) (PMMA)
- Titanium
- Cermet

- · Cast Iron
- Corian
- Acrylic Stone Coroplast[®]

* A soft plastic cardboard made with super soft & flexible PVC.



ØD	ØD1	В	Ød	L	Tool No.
3/16	5/64	5/64	3/16	2	51670
5/16	1/8	1/8	5/16	2-1/8	51672

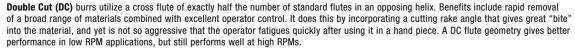


CNC feed and speed available online



INDUSTRIAL STEEL CUTTING ROUTER BITS

bide Burr Bits



Non Ferrous (NF) burrs are specially designed for cutting all non-ferrous and non-metallic workpieces such as aluminum, zinc, plastic, wood, etc. The uniquely aggressive cutting action provides little to no chance of plugging the flutes.

Applications: To be used with air or electrically-driven hand die-grinder with a typical collet mechanism or knee mill with an air-driven spindle speeder such as an Air Turbine product. An air speeder can bump spindle. (Carbide brazed to steel shank)

Warning: Not to be used in conventional routers.









Oval Shape





Shape







Cylindrical Shape

Bronze

* Solid carbide.

BURS-082

Radius Cylinder Shape

- · Copper & Chrome
- Steel: 40-55rc
- Steel: 55-60rc
- · Steel: Carbon



Pointed Cone Shape

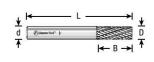
Excellent For Cutting:

- Aluminum Brass
- · Cast Iron
- - · Steel: Nickel
- · Stainless Steel Steel Weldments
- Titanium





					Doub	ile Cut	Non-Ferro	us/ZrN Coated	
740	ØD	В	Ød	L	DC Ref #	DC Tool No.	NF Ref #	NF Tool No.	
Ī	1/8	9/16	1/8	1-1/2	SA-43DC	BURS-098 *	_	_	
	1/4	5/8	1/4	2	SA-1DC	BURS-100 *	SA-1FM	BURS-100NF *	
	3/8	3/4	1/4	2-1/2	SA-3DC	BURS-102	SA-3FM	BURS-102NF	
	3/8	3/4	1/4	6-3/4	SA-3LDC	BURS-103	_	-	
	1/2	1	1/4	2-3/4	SA-5DC	BURS-104	SA-5FM	BURS-104NF	
	1/2	1	1/4	7	SA-5L6DC	BURS-105			





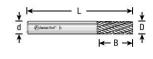
No End Cut

SB Burrs • Cylindrical Shape with End Cut



				Doub	le Cut	Non-Ferrous/ZrN Coated		
ØD	В	Ød	L	DC Ref #	DC Tool No.	NF Ref #	NF Tool No.	
1/8	9/16	1/8	1-1/2	SB-43DC	BURS-080 *		 2	
1/4	5/8	1/4	2	SB-1DC	BURS-082 *	SB-1FM	BURS-082NF *	
3/8	3/4	1/4	2-1/2	SB-3DC	BURS-084	SB-3FM	BURS-084NF	
3/8	3/4	1/4	6-3/4	SB-3L6DC	BURS-086	-	_	
1/2	1	1/4	2-3/4	SB-5DC	BURS-088	SB-5FM	BURS-088NF	
1/2	1	1/4	7	SB-5L6DC	BURS-090	_	_	

BURS-082NF



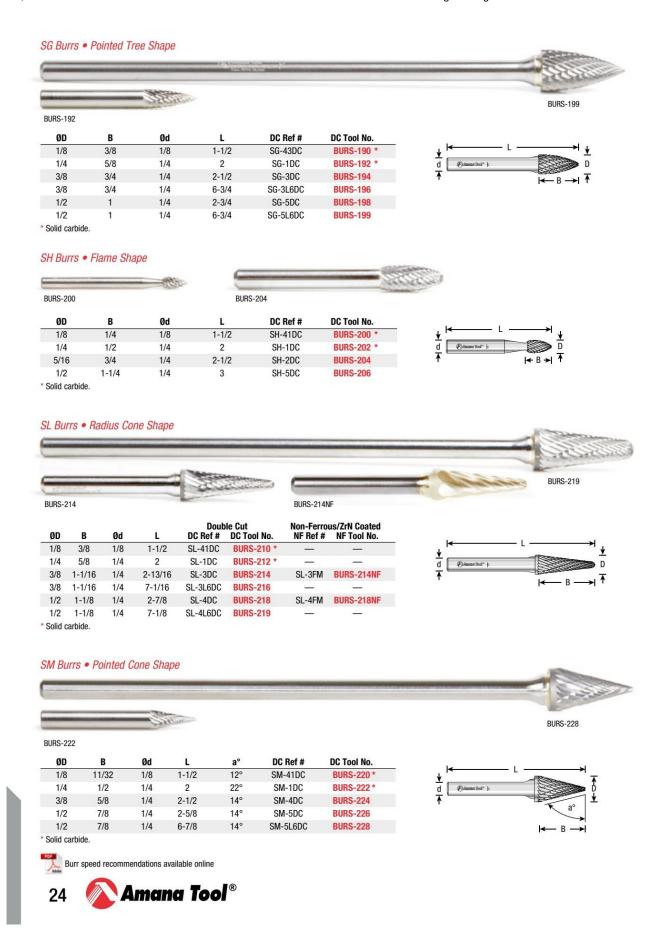


End Cut

Solid carbide













Excellent for Cutting:

- · Plastic, Acrylic
- Acetal and Nylon · Acrylic Stone
- Acrylonitrile Butadiene Styrene
- Butadiene Styrene
 (ABS)

 Aluminum Composite

 Material (ACM)

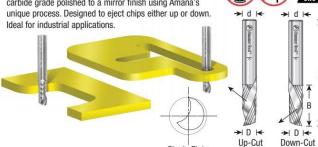
 Plexiglas®

 Poly (methyl methacrylate) Material (ACM)
- Alupanel[®]
- Corian
- Coroplast[®]
- Correx BoardsCorrugated Polypropylene
- Crosslinked Polyethylene (XPE, PEX, XLPE)
- Delrin • Dibond®
- **Extruded Acrylic**
- Foam Board

- Fomex® Gatorfoam® Hard Plastic High Density Polyethylene
- (HDPE) High Density
- Urethane (HDU Board) High Impact
- Polystyrene (HIPS) HIPS with Digital Printing
- Hydroxy-Terminated Polyether (HTPE)
- King ColorCore®, The Multi-Color Engravable Polymer Sheet
- Laminated
- LubX[®]
- Low Density Polyethylene (LDPE)

- Lucite® Mechanical/
- **Engineered Plastics** Perspex® Cast Acrylic Sheet
- (PMMA)
- Polyethylene Terephthalate Glycol-Modified (PETG / PET-G)
- Polycarbonate (Lexan™)
- Polystyrene (PS) Polyoxymethylene (POM)
- PVC
- Sign FoamSintra-PVC
- Solid Surface
 StarBoard® (King StarBoard 'R') High Density Polyethylene Sheet
- (HDPE)
 Teflon® Thermoplastic
- Polyolefin (TPO) Trespa® Meteon® Decorative High-Pressure
- (HPL) With An Integral Surface Urethane
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- Wood

CNC PLASTIC CUTTING SPIRAL '0' FLUTE Solid Carbide • Single Flute • Up-Cut & Down-Cut Made according to strict tolerances from an exclusive carbide grade polished to a mirror finish using Amana's



					IIIm Conti	(Down Cut)		Single Flute					
	ØD	В	Ød	L	'Up-Cut' Tool No.	'Down-Cut' Tool No.	ØD	В	Ød	L	'Up-Cut' Tool No.	'Down-Cut' Tool No.	
	1/16	1/4	1/8	2	51415†	51515†	7/32	3/4	1/4	2-1/2	51424	_	
	1/16	1/4	1/4	2	51441		1/4	3/8	1/4	2	51425	51519	
	3/32	1/4	1/8	2	51647†	_	1/4	5/8	1/4	2	51419	_	
	1/8	1/4	1/8	2	51443†	_	1/4	3/4	1/4	2	51404	51504	
	1/8	3/4	1/8	2	51437†	_	1/4	3/4	1/4	2-1/2	51421	51524	
	1/8	1/4	1/4	2	51416	_	1/4	7/8	1/4	2-1/2	51444	_	
	1/8	5/16	1/4	1-1/2	_	51523	1/4	1	1/4	2-1/2	51405	51505	
,	1/8	5/16	1/8	2	51453†	_	1/4	1-1/16	1/4	3	51409	_	
	1/8	1/2	1/8	2	51410t	51510†	1/4	1-1/4	1/4	3	51407	51507	
	1/8	1/2	1/4	2	51411	51511	1/4	1-3/8	1/4	3	51403	_	
	1/8	5/8	1/4	2-1/2	51445	_	1/4	1-1/2	1/4	3	51413	51513	
	1/8	3/4	1/4	2-1/2	51446	_	1/4	2-1/4	1/4	3-3/4	51646	_	
	5/32	9/16	1/4	2	51447	51516	3/8	5/8	3/8	2-1/2	51429	-	
	3/16	3/8	3/16	2	51448	51518	3/8	3/4	3/8	3	51426	51509	
et	3/16	3/8	1/4	2	51449	_	3/8	1-1/8	3/8	3	51414	51514	
	3/16	5/8	3/16	2	51412	51512	3/8	1-5/8	3/8	3-1/2	51427	_	
	3/16	5/8	1/4	2	51417	51517	1/2	1-1/4	1/2	3	51645	51529	
	3/16	5/8	1/4	2-1/2	51423	_	1/2	1-3/8	1/2	3-1/2	51644	-	
	3/16	7/8	1/4	2-1/2	51442	_	1/2	1-5/8	1/2	3-1/2	51428	(1223)	
	3/16	1-1/4	1/4	3	51418	-	1/2	2	1/2	4	51648	_	

Compact Laminate + Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits. E Dooke . . .

3-Packs Includes	Tool No.
51404 (5 Pcs. each)	51404-5
51405 (5 Pcs. each)	51405-5
51410 (5 Pcs. each)	51410-5
51411 (5 Pcs. each)	51411-5
51511 (5 Pcs_each)	51511-5

5-Packs Includes	Tool No. New
51417 (5 Pcs. each)	51417-5
51446 (5 Pcs. each)	51446-5
51504 (5 Pcs. each)	51504-5
51507 (5 Pcs. each)	51507-5
51513 (5 Pcs. each)	51513-5

METRIC CNC PLASTIC CUTTING SPIRAL '0' FLUTE

Solid Carbide • Single Flute • Up-Cut & Down-Cut

Produce super clean, smooth cuts in plastics. Metric sized.

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	\ <u>~</u>	
		T B
Single Flute	≯ D ←	<u>↓</u> <u>↓</u> ↓
	Up-Cut	Down-Cut

CNC feed and speed available online

	'Up-Cut' 'Down-Cut'									'Up-Cut'	Down-Cut'
ØD	В	Ød	L	Tool No.	Tool No.	ØD	В	Ød	L	Tool No.	Tool No.
2mm	6mm	3mm	50mm	51634	-	5mm	16mm	5mm	64mm	51493	_
2mm	8mm	2mm	50mm	57310	-	5mm	16mm	6mm	64mm	57321	57332
2mm	8mm	6mm	64mm	57311	_	5mm	30mm	5mm	64mm	57322	: :
2.5mm	8mm	2.5mm	50mm	57312	_	6mm	8mm	6mm	64mm	57323	_
2.5mm	8mm	6mm	64mm	57313	_	6mm	12mm	6mm	64mm	57324	_
3mm	8mm	3mm	50mm	57314	-	6mm	16mm	6mm	63mm	51638	(1
3mm	8mm	6mm	64mm	57315	_	6mm	20mm	6mm	64mm	51495	_
3mm	12mm	3mm	64mm	51491	_	6mm	30mm	6mm	75mm	51497	-
3mm	12mm	6mm	50mm	_	51526	6mm	30mm	6mm	76mm	_	57333
3mm	12mm	6mm	64mm	57316		6mm	32mm	6mm	75mm	t 4	51527
4mm	8mm	4mm	64mm	57317	_	6mm	38mm	6mm	75mm	51499	_
4mm	12mm	4mm	64mm	51636	_	8mm	25mm	8mm	64mm	57325	_
4mm	20mm	4mm	64mm	57318	_	8mm	38mm	8mm	76mm	57326	_
4mm	20mm	6mm	64mm	57319	57331	10mm	30mm	10mm	76mm	57327	11
4mm	30mm	4mm	64mm	57320	_	10mm	35mm	10mm	76mm	57328	_
®						12mm	38mm	12mm	76mm	57329	_





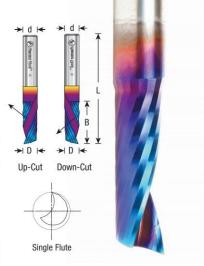


CNC PLASTIC CUTTING SPIRAL '0' FLUTE New

Solid Carbide • Single Flute • Up & Down-Cut

The Spektra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality.
For complete details on Spektra™ visit www.amanatool.com/spektra

				'Up-Cut'	Down-Cut'					'Up-Cut' '	Down-Cut'
ØD	В	Ød	L	Tool No.	Tool No.	ØD	В	Ød	L	Tool No.	Tool No.
1/32	3/16	1/4	2	51649-K	-	3/16	5/8	1/4	2	51417-K	51517-K
1mm	4mm	3mm	30mm	51390-K	_	3/16	7/8	1/4	2-1/2	51442-K	_
1.1mm	4mm	3mm	30mm	51394-K	_	3/16	1-1/4	1/4	3	51418-K	-
1.2mm	4mm	3mm	30mm	51395-K	_	1/4	3/8	1/4	2	51425-K	_
1.4mm	4mm	3mm	30mm	51396-K	_	1/4	1/2	1/4	2	51810-K	_
1.5mm	6mm	3mm	30mm	51391-K	_	1/4	5/8	1/4	2	51419-K	_
1/16	1/4	1/8	2	51415-K†	51515-K†	1/4	3/4	1/4	2	51404-K	51504-K
1/16	1/4	1/4	2	51441-K	_	1/4	3/4	1/4	2-1/2	51421-K	51524-K
1.6mm	6mm	3mm	30mm	51397-K		1/4	7/8	1/4	2-1/2	51444-K	_
1.8mm	6mm	3mm	30mm	51398-K	_	1/4	1	1/4	2-1/2	51405-K	51505-K
1/8	1/4	1/4	2	51416-K	_	1/4	1-1/8	1/4	3	51392-K	_
1/8	5/8	1/4	2-1/2	51445-K	_	1/4	1-1/4	1/4	3	51407-K	51507-K
1/8	1/2	1/8	2	51410-K†	51510-K†	1/4	1-1/2	1/4	3	51413-K	51513-K
1/8	1/2	1/4	2	51411-K	51511-K	1/4	2-1/4	1/4	3-3/4	51646-K	_
1/8	3/4	1/8	2	51437-K†	_	3/8	1-1/8	3/8	3	51414-K	_
1/8	3/4	1/4	2-1/2	51446-K	_	3/8	1-5/8	3/8	3-1/2	51427-K	_
1/8	7/8	1/4	2-1/2	51435-K Ne	ew —	1/2	1-5/8	1/2	3-1/2	51428-K	_
3/16	5/8	3/16	2	51412-K	_						





- Razor sharp cutting edge
 Effortless chip removal
 Helps prevent chip re-welding
- Extends tool life
- · Exceptional cut quality

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shadeled	ank dits.
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Packs Includes	Tool No.
8-Pc Spektra Set	AMS-165-K
(item numbers available online)	
5-Pc Spektra Set	AMS-166-K
(item numbers available online)	
2-Pc Snektra Set	AMS-195-K N

(includes 51404-K, 51411-K))

5-Packs	Includes	Tool No. New
51404-K	(5 Pcs. each)	51404-K-5
51405-K	(5 Pcs. each)	51405-K-5
51410-K	(5 Pcs. each)	51410-K-5
51411-K	(5 Pcs. each)	51411-K-5
51414-K	(5 Pcs. each)	51414-K-5
51417-K	(5 Pcs. each)	51417-K-5
51441-K	(5 Pcs. each)	51441-K-5
51446-K	(5 Pcs. each)	51446-K-5
51504-K	(5 Pcs. each)	51504-K-5
51511-K	(5 Pcs. each)	51511-K-5
51515-K	(5 Pcs. each)	51515-K-5



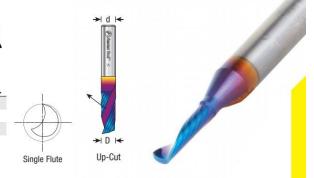


CNC PLASTIC CUTTING SPIRAL '0' FLUTE FOR IMPROVED SURFACE FINISH

Solid Carbide • Single Flute • Up & Down-Cut

The Spektra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality. For complete details on Spektra™ visit www.amanatool.com/spektra

ØD	В	Ød	L	'Up-Cut' Tool No.	'Down-Cut' Tool No.
1/8	1/2	1/4	2	57360-K	_
1/8	3/4	1/4	2-1/2	57361-K	_
1/4	1/2	1/4	2	57362-K	_
1/4	3/4	1/4	2	57363-K	i—



INDUSTRIAL PLASTIC CUTTING ROUTER BITS



Excellent for Cutting:

- · Plastic, Acrylic
- · Acetal and Nylon
- Acrylic Stone
 Acrylonitrile Butadiene Styrene (ABS)
- Aluminum Composite Material (ACM)
- Alupanel®
- CorianCoroplast®
- Correx Boards
- · Corrugated Polypropylene Crosslinked Polyethylene (XPE, PEX, XLPE)
- Delrin
- Dibond®
- · Extruded Acrylic
- · Foam Board
- Fomex[®]
- Gatorfoam®
- Hard Plastic
- · High Density Polyethylene (HDPE)
- · High Density Urethane (HDU Board)
- High Impact Polystyrene (HIPS) HIPS with Digital Printing Hydroxy-Terminated Polyether
- King ColorCore®, The
- Multi-Color Engravable Polymer Sheet
- Laminate
- LubX[®]
- Low Density Polyethylene (LDPE)
- Lucite®
- Mechanical/Engineered Plastics
 Perspex® Cast Acrylic Sheet
- Plexiglas®
- Poly (methyl methacrylate) (PMMA)









Flat Bottom **Ball Nose**

- · Polyethylene Terephthalate Glycol-Modified (PETG / PET-G)

 • Polycarbonate (Lexan™)
- Polystyrene (PS)
- Polyoxymethylene (POM)
 PVC
- · Sign Foam Sintra-PVC
- Solid Surface
- StarBoard® (King StarBoard 'R') High Density Polyethylene Sheet (HDPE)
- Teflon[®]
- . Thermoplastic Polyolefin (TPO)
- Trespa® Meteon® Decorative High-Pressure Compact Laminate
- (HPL) With An Integral Surface Ùrethane
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- Wood

CNC PLASTIC CUTTING SPIRAL DOUBLE '0' FLUTE



Solid Carbide . Double Flute . Up-Cut

Solid carbide spiral double '0' flute plastic cutting router bits use the highest quality sub-micrograin carbide resulting in clean cuts, superior surface finish and a longer tool life. The spiral double '0' flute sharpening process increases feed rates, allowing for more linear feet routed in less time. Produce super clean smooth cuts especially in acrylic materials (Plexiglas® Lucite®) other plastics and wood.

Flat Bottom

ØD	В	Ød	L	'Up-Cut' Tool No.	'Down-Cut' Tool No.
1/8	1/2	1/8	2	51761† New	51781† New
1/8	1/2	1/4	2	51762	51782 New
 1/8	3/4	1/4	2-1/2	51766 New	_
3/16	5/8	1/4	2-1/2	51763	<u> </u>
1/4	3/4	1/4	2	51768 New	51784 New
1/4	7/8	1/4	3	51765	_
1/4	1	1/4	2-1/2	51769 New	<u></u>
1/4	1-1/4	1/4	3	51767	-
3/8	1-1/8	3/8	3	51780 New	_

+ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

Ball Nose . '0' Flute

ØD	Radius	В	Ød	L	'Up-Cut' Tool No.
1/8	1/16	1/2	1/8	2	51814 † New
1/4	1/8	3/4	1/4	2	51818 New

+ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

SPEKTRA

PLASTIC CUTTING O FLUTE SPIRAL BALL NOSE



Leaves an extra high surface finish! The Spektra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality. For complete details and material cut list please visit Spektra™ visit www.amanatool.com/spektra

D	R	В	d	L	Tool No.
1/16	1/32	1/4	1/4	2	51811-K
1/8	1/16	1/2	1/4	2	51815-K
1/8	1/16	3/4	1/4	2-1/2	51816-K
3/16	3/32	5/8	1/4	2	51817-K
1/4	1/8	3/4	1/4	2	51818-K

18-PC. CNC ADVANCED PLASTIC CUTTING









New

1/4" Shank . Solid Carbide Router Bit Collection





Set #AMS-167 Includes:

51441, 51411, 51446, 51417, 51442, 51419, 51404, 51405, 51511, 51504, 46280, 46282, 43608, 46411, 46112, 46426, 46424 & RC-1075

8-PC. CNC **PLASTIC CUTTING** SPIRAL SINGLE '0' FLUTE









" Shank • Single 'O' Flute Solid Carbide Spiral Router Bit Collection





51511, 51517, 51504 & 46308





CNC feed and speed available online





Set #AMS-165 Amana Tool®

PLASTIC CUTTING

B

1/4

1/2

1/2

5/8

3/4

3/4

3/4

ØD

1/8

1/8

1/8

3/16

1/4

1/4

1/4 1/4

1/4

1/2

1/4

Solid Carbide • 2 & 3 Flute • Straight Grind

Used for routing harder and more rigid plastics in the following materials: Acrylic, Acetal, Nylon, PVC, ABS, Phenolic, Corian, Poly (PMMA), Acrylic Stone, Coroplast, etc.

Ød

1/4

1/4

1/4

1/4

1/4

1/4

1/4

1/4

1/4

1/2

1/4

2

2

2

2

2

2

2-1/2

2-1/2

2-1/2

3

2-1/2



Flute

2

2

2

2

2

2

2

2

2

2

3

Tool No.
43507-K 🔀 New
43600
43600-K 🔀 New
43604
43607
43607-K ≥ New
43506-K ⋈ New
43608
43608-K Mew

43616

46483-K 🔀 New





Mathematical The Spektra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality. For complete details on Spektra™ visit www.amanatool.com/spektra

PLASTIC CUTTING '0' FLUTE

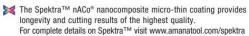
Solid Carbide . Single 'O' Flute

Unique circular '0' flute designed to eject chips more easily. Single flute for fast cutting in soft plastics such as PVC, styrene, ABS, Poly (methyl methacrylate) (PMMA), etc. Visit www.amanatool.com for full material cut list.





ØD	В	Ød	L	Tool No.
1/8	5/16	1/4	2	43501 New
1/8	1/2	1/8	2	43502† New
1/8	5/8	1/8	3	43503† New
1/8	1/2	1/4	2	43500
1/8	1/2	1/4	2	43500-K ⋈ Ne
3/16	5/8	1/4	2	43504
3/16	5/8	1/4	2	43504-K ≥ Ne
3/16	1	1/4	4	43505-K ≥ Ne
1/4	3/4	1/4	2	43508
1/4	1	1/4	2-1/2	43512









PLASTIC EDGE ROUNDING

Solid Carbide . Single & Double 'O' Flute

Designed for rounding the edge of sheets or parts.

Excellent For Cutting:

- Plastic
- Acrylic
- Acrylic Stone
- Acrylonitrile Butadiene
- Styrene (ABS)
- · Coroplast®
- Fomex[®]
- Sign Foam
- Perspex® Cast Acrylic Sheet
 Poly (methyl methacrylate) (PMMA)

					FUI PIASUC						
ØD	R	В	B1	Ød	L	Type	Thickness	Flute	Tool No.		
1/4	1/8	3/8	5/32	1/4	2-1/2	Straight	1/8	1	46441		
1/4	3/16	3/8	7/32	1/4	2-1/2	Straight	3/16	1	46452		
1/4	1/4	3/8	9/32	1/4	2-1/2	Straight	1/4	1	46443		
1/4	1/8	3/8	5/32	1/4	2-1/2	Spiral	1/8	1	46464		
1/4	3/16	3/8	7/32	1/4	2-1/2	Spiral	3/16	1	46465		
1/4	1/4	3/8	9/32	1/4	2-1/2	Spiral	1/4	1	46466		
1/4	1/8	3/8	5/32	1/4	2-1/2	Straight	1/8	2	46481		
1/4	3/16	3/8	7/32	1/4	2-1/2	Straight	3/16	2	46484		
1/4	1/4	3/8	9/32	1/4	2-1/2	Straight	1/4	2	46485		





CNC feed and speed available online

INDUSTRIAL PLASTIC CUTTING ROUTER BITS



Excellent For Cutting:

- Soft & Hard Plastics
- Acetal Styrene (ABS)
 Expanded Polystyrene Foam (EPS)
- Coroplast[®]
- Fomex®
- High Density
- Polyethylene (HDPE)

 Perspex® Cast Acrylic Sheet
- Polycarbonate
- Poly (methyl methacrylate) (PMMA)

- Polyethylene (PE)Polypropylene Extruded AcrylicPolystyrene
- Sign Foam
- StarBoard® (King StarBoard 'R') High Density Polyethylene Sheet (HDPE)
- Ultra High Molecular Weight Polyethylene (UHMW)

PLASTIC CUTTING STRAIGHT '0' FLUTE HIGH SPEED STEEL (HSS) High Speed Steel (HSS) • Single & 2 Flute

Provides smooth finish in plastics. Excellent for hand fed operations. May be used in air routers with guide bushing.

ØD	В	Ød	L	Flute	Tool No.
1/16	3/16	1/4	2	1	HSS1490 New
3/32	3/8	1/4	2	1	HSS1492 New
1/8	1/2	1/4	2	1	HSS1500
1/8	5/8	1/4	3-1/4	1	HSS1501
3/16	5/8	1/4	3-1/4	1	HSS1502
3/16	3/4	1/4	2	1	HSS1509 New
3/16	3/4	1/4	3-1/4	1	HSS1503
1/4	3/4	1/4	2-1/8	1	HSS1504
1/4	3/4	1/4	3-1/4	1	HSS1505
1/4	1	1/4	2-3/8	1	HSS1506
1/4	1-1/4	1/4	2-5/8	1	HSS1508 New
3/8	1	3/8	2-1/2	1	HSS1507
3/16	5/8	1/4	2	2	HSS1600
1/4	3/4	1/4	2-1/8	2	HSS1601
1/4	3/4	1/4	3-1/4	2	HSS1602
1/4	3/4	1/4	3-3/4	22	HSS1603
1/4	1	1/4	2-3/8	2	HSS1604
1/4	2	1/4	3-1/4	2	HSS1605
3/8	1	3/8	2-1/2	2	HSS1606
3/8	1	3/8	3-1/2	2	HSS1607

SPIRAL FINISHER

Solid Carbide • 3 Flute • Low Helix Up-Cut & Down-Cut

Leaves an extra high surface finish! Those seeking to move up to our 3 flute, low helix finisher will have improved surface finishes in either plastics or hardwoods. The unbeatable combination of three keen edges and a gentle 10° helix,

equates to a stiffer tool that minimizes both part movement and edge burring, leaving a smooth finish.

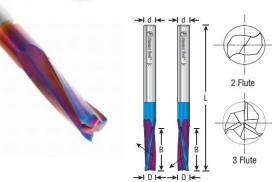
Excellent For Cutting:

- Plastic
- Acrylic Stone
- Acrylonitrile Butadiene
- Styrene (ABS) Composite Plastic
- Corian

3 Flute

- Coroplast®
- Foam
- Fomex[®]
- Hard Wood
- Sign FoamSolid Surface
- Soft Wood
- StarBoard® (King StarBoard 'R')
 High Density Polyethylene Sheet (HDPE)
- Perspex® Cast Acrylic Sheet
- · Poly (methyl methacrylate) (PMMA)
- Precision Board 'Un-Cut'

ØD	В	Ød	L	Tool No.	Tool No.
1/4	3/8	1/4	3	51630	51730
1/4	7/8	1/4	3	51631	51731
3/8	5/8	3/8	3	51632	51732
1/2	1-1/8	1/2	3-1/2	51637	51737



> D I

→ D I







'Down-Cut'



Leaves an extra high surface finish! The Spektra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality. For complete details and material cut list please visit Spektra™ visit www.amanatool.com/spektra

_	ØD	В	Ød	L	Flute	Tool No.	Tool No.
	1/4	1	1/4	3	2	51639-K New	51734-K New
-	1/4	7/8	1/4	3	3	51631-K	51731-K
	3/8	1-1/8	3/8	3	3	51633-K	51733-K
	1/2	1-1/8	1/2	3-1/2	3	51637-K	51737-K
	1/2	1-5/8	1/2	4	3	51635-K	51735-K





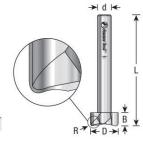
CNC HIGH POLISH SURFACE FINISH FLATTENING

Solid Carbide • 2 Flute • Up-Cut



Leaves an extra high surface finish! The SpektraTM nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality. For complete details and material cut list please visit SpektraTM visit www.amanatool.com/spektra

R	ØD	В	Ød	L	Tool No.
0.04"	1/2	0.236"	1/4	2	43625









Designed to eliminate tool marks that commonly appear when used with plastic and solid surface materials. Due to the highly polished finish and unique tool geometry, the spiral ball nose router bit delivers superior surface finish of at least 28 Ra (roughness average) in various materials. The up-cut router bits also eject chips up, to help prevent chip-out on the bottom of the material.

Constructed of special grade solid carbide, the Amana Tool® spiral ball nose router bits last longer than traditional router bits and deliver superior cutting performance with plastics. The bits are ideal for use in a variety of applications spanning the mechanical, medical and woodworking industries.

Excellent For Cutting:

- Plastic
- Acrylic
- Acrylic Stone
- Acrylonitrile Butadiene
 Fomex® Styrene (ABS)
- Aluminum

ØD

1/8

3/16

3/16

3/16

3/16

1/4

1/4

1/4

1/4

3/8

1/2

R

1/16

3/32

3/32

3/32

3/32

1/8

1/8

1/8

1/8

3/16

1/4

1/4

- Brass
- · Poly (methyl methacrylate) (PMMA) Copper Corian Sign Foam
- Coroplast[®] Solid Sur

Ød

1/4

1/4

1/4

1/4

1/4

1/4

1/4

1/4

1/4

3/8

1/2

1/2

- Wood
- Acrylic Sheet

B

1/2

1/2

3/4

3/4

3/4

3/4

7/8

1-1/8

1-1/8

1-1/8

1-1/2

rface	







•	
Flute	Tool No.
2	46385
2	46424
2	46425
2	46450 New
2	46389
2	46463 New
2	46379
2	46451
	2 2 2 2 2 2 2 2

1/2 Metric Sizes

ØD	R	В	Ød	L	Flute	Tool No.
3mm	1.5mm	12mm	6mm	50mm	2	46453
4mm	2mm	12mm	4mm	50mm	2	46454
6mm	3mm	22mm	6mm	63mm	2	46456
10mm	5mm	29mm	10mm	75mm	2	46457
12mm	6mm	29mm	12mm	75mm	2	46458

3-PC. CNC BALL NOSE ROUTER BIT SET



3





46428

46381

46383

46459



Shank . Plastic Cutting Spiral Nose Router Bit Pack

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Includes	Set No.
46288, 46450, & 46463	AMS-303







CNC PLASTIC CUTTING SPIRAL BALL NOSE

Solid Carbide • 2 Flute • Up-Cut

The Spektra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality.

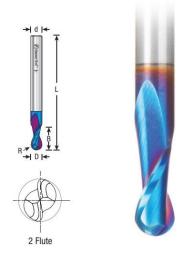
For complete details on Spektra™ visit www.amanatool.com/spektra



Excellent For Cutting:

- Plastic
- AcrylicAcrylic Stone
- Acrylonitrile Butadiene
 Styrene (ABS)
 Poly (method)
 Plexiglas®
 Poly (method)
- Corian
- Fomex®
 Perspex® Cast
 Acrylic Sheet
- Poly (methyl methacrylate)
- Sign Foam
 Solid Surface
 StarBoard* (King StarBoard 'R')
 High Density Polyethylene Sheet (HDPE)

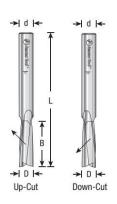
Coroplast		(PMMA				
ØD	R	В	Ød	L	Flute	Tool No.
3/16	3/32	1/2	1/4	2-1/2	2	46424-K
1/4	1/8	1/2	1/4	2-1/2	2	46426-K





INDUSTRIAL PLASTIC CUTTING ROUTER BITS

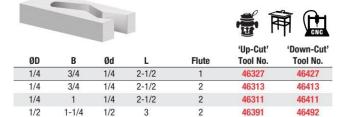




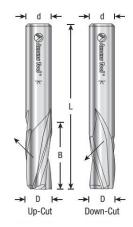
ACRYLIC CUTTING SLOW SPIRAL 'O' FLUTE FINISHER

Solid Carbide • Up-Cut & Down-Cut • Single & 2 Flute

Provides smooth finish in acrylic materials, and both soft and hard plastics.







PLASTIC CUTTING SLOW SPIRAL FINISHER

See page 289

Specially designed to provide an excellent finish in hardwoods, solid surface and hard plastics. Choose 'Up-Cut' if an excellent finish on the bottom of surface is required, or 'Down-Cut' for an excellent finish on the top of surface.

Solid Carbide • 3 Flute • Up-Cut & Down-Cut



"Iln-Cut"

HSS Plastic Drills



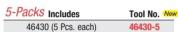
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У	CMC

'Down-Cut'

ØD	В	Ød	L	Tool No.	Tool No.
3/8	1	3/8	2-1/2	_	46430
3/8	1	3/8	3	46330	46431
1/2	1	1/2	3	46332	46432
1/2	1-1/2	1/2	3-1/2	46334	46434

5-Packs Includes Tool No. New

▲Warning: Recommended RPM=20,000-21,000







CNC PLASTIC TRIM SAW BLADE AND ARBOR SYSTEM

Carbide Tipped . Right Hand Rotation Cutting

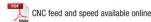
Designed for trimming and grooving hard and soft plastics. 100% flash mounting.



Replacement Parts:

ØD	Teeth	Hook	Kerf	Plate	Grind	Bore	Ød	L	Type	Tool No.	
4	20	0°	3/32	1/16	TCG	5/8	-	-	Saw Blade	LB4201	
1-1/4	20	-	-	-		-	1/2	3-1/4	CNC Arbor	47650	

Replacement screw (4) - #67149 (3/8"x1/2"); Replacement key #5020 (M5x12).



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PLASTIC CUTTING FLUSH TRIM

Solid Carbide • 2 Flute with Double Ball Bearing

Spiral designed for trimming sheets of stack plastics and laminates in hand-fed applications. Double bearing provides smoother action around contour of the template.

Excellent for Cutting

- Plastic
- Acrylic
- · Acrylic Stone Acrylonitrile Butadiene Styrene (ABS)
- Corian Coroplast® Fomex[®]
- · Sign Foam
- StarBoard® (King StarBoard 'R') High Density Polyethylene Sheet (HDPE)

 Poly (methyl methacrylate) (PMMA)



ØD	В	Ød	L	Tool No.
1/4	3/4	1/4	3	51436
1/2	1-1/8	1/2	4	51438

▲ Warning: Maximum RPM=35,000

5-Packs Includes	Tool No.
51436 (5 Pcs. each)	51436-5

Replacement parts #51436 #47779 Locking Ring 47723 Ball Bearing (2)

Replacement parts #51438 #47752 Locking Ring #47701 Ball Bearing (2)

PLASTIC CUTTING

Carbide Tipped . Single & Double '0' Flute

For fast cutting in harder more abrasive plastics such as phenolic resin, acrylic, Corian, Poly (methyl methacrylate) (PMMA), Acrylic Stone, Coroplast, etc.







ØD	В	Ød	L	Flute	Tool No.
1/4	1	1/4	2-1/4	2	43304
3/8	1	3/8	2-1/2	1	43108

3°, 5° AND 7° PATTERNMAKERS

Carbide Tipped • 2 Flute

This slightly tapered bit is specifically designed for wood patternmaking, especially wood vacuum-forming molds where draft (3°, 5° and 7° taper) is required for releasing the styrene or other plastic from the mold. It can be used to bevel the leading edge on a door.



ØD	ØD1	a°	В	Ød	L	Tool No.
1/2	3/8	3°	1-1/4	1/2	3-1/8	42420
19/32	3/8	5°	1-1/4	1/2	3-5/32	42422
13/16	3/8	7°	1-1/4	1/2	3-5/32	42424
3/4	1/2	3°	2-1/8	1/2	4-5/8	47144

▲ Warning: Not for use in CNC machines.

Replacement bearing for #47144 use #47706.

d D



Mirror

CNC PLASTIC CUTTING INSERT CARBIDE SYSTEM



The most innovative time-saving system for cutting and chamfering in plastics.

Thirteen unique insert knife profiles produce smooth, chip-free cuts and last at least twice as long as comparable solid carbide bits.

These industrial quality knives allow the user to both cut & chamfer the top and bottoms of Plexiglas® or styrene sheets in one action. The knives fit the In-Groove™ tool bodies which are expertly balanced to provide superior cutting results.

For more information visit www.amanatool.com/inplastic





→ D1 I←

42420

INDUSTRIAL PLASTIC CUTTING ROUTER BITS

D1 I←







CNC COMPRESSION HONEYCOMB CUTTING

Solid Carbide • 6 Flute

Compression router bits provide a burr-free top and bottom finish, providing that the workpiece is thicker than 0.250". For optimal cutting results use mist lubricant system or air cooling.

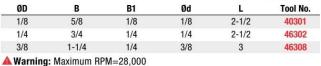
Excellent for cutting:

- BioBoard™
- Falconboard®
- Aluminum Honeycomb Panel (AHP)
- Carbon Fiber
 Honeycomb Cardboard











CNC feed and speed available online



CNC HONEYCOMB CUTTING HOGGER

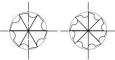
Solid Carbide • 6 & 8 Flute

Designed to cut a large variety of honeycomb materials, hogger geometry is excellent for shredding and chip evacuation while maintaining a smooth surface.

Amana "hogger" style routers for honeycomb composites incorporate a precision-ground "knuckle" profile, allowing a freer-cutting action that reduces power requirements and less sidewall pressure in low output spindles, while giving impressive gains in feed-rates. ZrN coating greatly enhances durability in highly abrasive composites.

Excellent for cutting:

- Honeycomb
- · Composite Materials



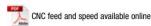
6 Flute

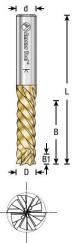




ØD	В	Ød	L	Flute	Tool No.
1/8	13/16	1/8	2-1/2	6	40304
1/4	3/4	1/4	4	6	40305
1/4	1-1/4	1/4	4	6	46306
3/8	2	3/8	4	8	46305
1/2	3	1/2	6	8	46309

▲ Warning: Maximum RPM=25,000

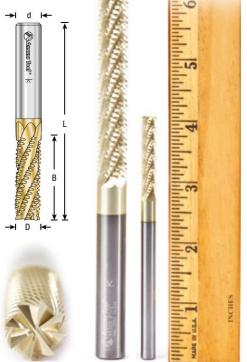






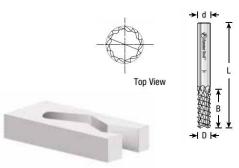


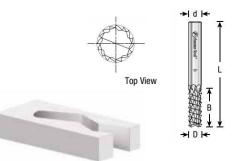




INDUSTRIAL COMPOSITE CUTTING ROUTER BITS









phenolic and other highly abrasive materials. Works well on epoxies made with carbon, glass and composite materials. The up-cut/down-cut diamond pattern cutting edges effectively grinds through the material evenly in all directions.

Excellent for Cutting:

- Composites
- FiberglassFiberglass PCB Board
- Fiber Reinforced Plastic (FRP)
- G10 / FR-4 and G11 / FR-5 Glass Epoxy Composite Laminate Material
- · Glass Reinforced Plastic (GRP)
- Glass Fiber Reinforced Polymer Plastic Materials (GFR)
- Phenolic
- · Phenolic "Garolite" G-7







ØD	В	Ød	L	Type of Cut	Tool No.	
1/8	1	1/8	2	Ultra-Fine	46088	New
1/4	3/4	1/4	2	Ultra-Fine	46099	
1/4	3/4	1/4	2-1/4	Ultra-Fine	46089	New
6mm	19mm	6mm	50mm	Fine	46110-M	
1/4	3/4	1/4	2	Fine	46110	
1/4	3/4	1/4	2	Coarse	46112	
1/2	2-1/8	1/2	4	Coarse	46123	

▲ Warning: Maximum RPM=28,000

END MILL POINT ROUGHING SPIRAL, COMPOSITE MATERIAL

Special grade solid carbide bits feature unique grinding and multi-spiral flute design. Suitable for 'roughing' cuts in hard and abrasive composite materials such as: carbon fiber, fiberglass, fiber reinforced plastic (FRP), glass fiber reinforced polymer (GFR), Trespa; etc. Special grade carbide for maximum durability.

Down-Cut for better clamping when machining small work pieces and improved finish on the top of the board.

For use on routers and CNC machines.







ØD	В	Ød	L	Tool No.
1/4	1	1/4	2-9/16	46133

END MILL POINT DIAMOND PATTERN & COMPOSITE CUTTING



Solid Carbide • 2 Flute

This bit is designed especially for cutting fiberglass, fiberglass PCB Board, composites, phenolic and other highly abrasive materials. Works well on epoxies made with carbon, glass and composite materials.

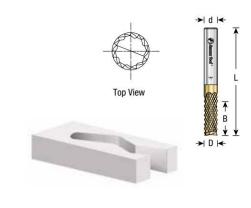
The up-cut/down-cut diamond pattern cutting edges effectively grinds through the material evenly in all directions.

Excellent for Cutting:

Plastic (FRP)

- G10 / FR-4 and G11 / FR-5 Composites Fiberglass
- Glass Epoxy Composite Laminate Material Fiberglass PCB Board Fiber Reinforced
- · Glass Fiber Reinforced Polymer Plastic Materials
- · Glass Reinforced Plastic (GRP) Phenolic
 - · Phenolic "Garolite" G-7

ØD	В	Ød	L	Tool No.
1/8	3/4	1/4	2	46096-Z



Top View



SPIRAL COMPOSITE, FIBERGLASS AND PHENOLIC CUTTING

Solid Carbide • 2 & 3 Flute • Up-Cut and Down-Cut

Amana's Modern Finishing Geometry (MFG) incorporates high shear, multi-flute and a ZrN coating designed for the ultimate combination of finish and tool longetivity in aerospace materials. Modern-day materials present challenges to the fabricator. Using these special multi-flute edge tools featuring ZrN ceramic coating, addresses these challenges with a winning geometry combination.

ØD	В	Ød	L	Flute	'Up-Cut' Tool No.	'Down-Cut' Tool No.
1/8	1/2	1/4	2	2	46040	_
3/16	5/8	1/4	2	2	46042	×—×
1/4	3/4	1/4	2-1/2	2	46043	_
3/8	7/8	3/8	2-1/2	2	46045	s s
1/2	3/4	1/2	3	2	46047	_
1.2mm	5mm	1/8	35mm	3	46093 †	_
1/8	1/2	1/8	2	3	46091 †	_
1/8	1/2	1/4	2	3	46090	<u>-</u>
3/16	5/8	1/4	2	3	46092	_
1/4	3/4	1/4	2-1/2	3	46094	46097 New

[†] Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.



SPIRAL COMPOSITE, FIBERGLASS New AND PHENOLIC CUTTING

Solid Carbide • 3 Flute • Up-Cut

The Spektra™ nACo® nanocomposite micro-thin coating provides longevity and cutting results of the highest quality. For complete details on Spektra™ visit www.amanatool.com/spektra



ØD	В	Ød	L	Flute	Tool No.
6mm	19mm	6mm	63mm	3	48430-K
1/4	3/4	1/4	2-1/2	3	46094-K

GLASS REINFORCED PLASTIC CUTTING SPIRAL

Solid Carbide • 3 & 4 Flute • Up-Cut and Down-Cut

Fiberglass-impregnated materials are well known for their abrasiveness along with a tendency to fray or shred during machining along with heat created by the router bit.

The response from Amana Tool® to these challenges is an extremely free-cutting, multi-edge Glass Reinforced Plastic (GRP) multi-flute tool, that shears the material without shredding or imparting unnecessary heat.

Excellent For Cutting:

· Carbon Fiber Reinforced Polymer (CFRP)

CNC feed and speed available online

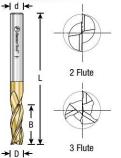
- Composite
- Coroplast® Fiberglass
- Fiberglass PCB Board
 Lexan™
- Poly (methyl methacrylate) (PMMA)



ØD	В	Flute	Ød	L	'Up-Cut' Tool No.	'Down-Cut' Tool No.
1/8	1/2	3	1/4	2-1/2	51521	_
1/4	3/4	4	1/4	2-1/4	51525	51535

Tools are manufactured with high balance, that allows them to run up to 60,000 RPM. Adjust your chip load and feed rate accordingly.

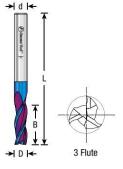




Excellent For Cutting:

- · Acrylic Stone
- Aluminum
- Carbon Fiber Reinforced Polymer (CFRP)

 Composite
- Corian
- Coroplast®
- Fiberglass
- Fiberglass PCB Board
 HDPE
- Lexan™
- Phenolics
- Plastic
- Poly (methyl methacrylate) (PMMA)





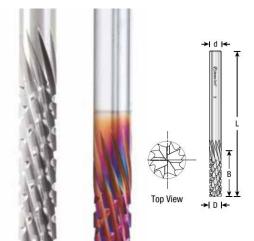


Up-Cut



Down-Cut

INDUSTRIAL COMPOSITE CUTTING ROUTER BITS



Excellent for Cutting:

- Carbon Fiber Panels
- CFRF
- Carbon Graphite
- Fiberglass
- Fiberglass PCB Board
 FRP & GFR
- Micarta®
- Plastic, PVC & Acrylic
- Thermosetting Plastics
- Thermoset Composites

CNC CARBON GRAPHITE & CARBON FIBER PANEL CUTTING SPIRAL

Solid Carbide . Down-Cut

These carbon graphite and carbon fiber cutting solid carbide router bits are designed to produce a minimum failure in composite materials such as layers separating and a significant loss of mechanical toughness.

The rapidly growing use of Carbon Fiber Reinforced Polymers (CFRP) necessitates tooling designed to effectively meet the challenges of such composites. Experts have recognized the need for a tool geometry combining a highly abrasion-resistant carbide substrate generous fluting, and an impact zone that not only "shatters" the hard carbon fibers but also keeps heat down.

These industrial router bits combat abrasion heat and the breakdown of composites for clean, accurate cuts.



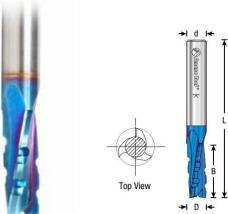


В	Ød	L	Tool No.		
13mm	3mm	50mm	48450		New
13mm	3mm	50mm	48450-K	×	New
1/2	1/8	2	46260 †		
1/2	1/8	2	46260-K †	×	
1/2	1/4	2	46008-K	×	New
5/8	3/16	2	46262		
19mm	6mm	75mm	48452-K	×	New
3/4	1/4	3	46264		
3/4	1/4	3	46264-K	×	
1-1/2	1/4	3	46265		
1-1/8	3/8	3-1/2	46266		
1-1/8	1/2	3-1/2	46267		
2-1/8	1/2	4	46268		

+ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

5-Packs Includes	Tool No. New
46260-K (5 Pcs, each)	46260-K-5

Mark For complete details on Spektra™ visit www.amanatool.com/spektra





SPIRAL PHENOLIC RESIN COMPOSITE New WITH CHIPBREAKER

Solid Carbide • 3 Flute • Slow Helix • Up-Cut

This tool is designed especially to cut phenolics resin composite. Solid carbide tooling with chipbreakers that will effectively "shatter and evacuate" the chips typically produced by phenolic materials. Providing an aggressive bite, combined with a

moderate helix, walking the fine line between cutting efficiency and a minimal burr finish on abrasive phenolics oftentimes impregnated with fiberglass, wood or linen.



ØD	В	Ød	L	Tool No.
1/4	3/4	1/4	2-1/2	46150-K
3/8	1	3/8	3	46151-K
1/2	1-1/4	1/2	3-1/2	46153-K



Solid Carbide (Brazed to Steel Shank) • 5 Flute

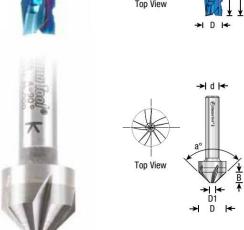
Designed for making 90 degree countersinks and chamfering. These bits make it possible to chamfer edges, holes and contours with a "contour" or "bore" CNC operation and still have the option to use a sufficient lead-in distance.

- · Glass Fiber Reinforced Polymer Plastic Materials (GFR)
- Metal Matrix Composite (MMC)
- Carbon Fiber Reinforced Polymer Plastic Materials (CFRP)
- · Fiber-Reinforced Plastic (FRP)

(D	ØD1	В	a°	Ød	L	Tool No.
1	/2	3mm	5mm	90°	1/4	1-9/16	46468
1	/2	1/32	1/4"	90°	1/4	1-3/4	46467



CNC feed and speed available online



Amana Tool®

FIBERGLASS AND COMPOSITE

Solid Carbide . Medium Burr with End Mill Point

FiberGlass Router (FGR) burrs incorporate reciprocating diamond-fluted geometry, strong negative rake angles and generous fluting to provide the best cutting action in a wide variety of woven resin bond fiberglass and composite materials.

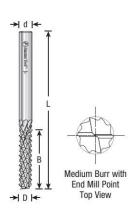
Excellent for Cutting:

- . Edging and Slotting All Carbon Fiber Reinforced Polymer (CFRP)
- Composites
- Fiberglass
- Fiberglass PCB Board
- G10 / FR-4 and G11 / FR-5 Glass Epoxy Composite Laminate Material
- · Fiber Reinforced Plastic (FRP)
- · Glass Reinforced Plastic (GRP)
- Micarta®
- Phenolic
- Thermosetting Plastics
 Thermoset Composites



ØD	В	Ød	L	Tool No.
1/8	1	1/8	2	48010 †
1/4	3/4	1/4	2-1/2	48011
1/4	1-1/8	1/4	3	48012
1/4	1-1/2	1/4	3	48014

[†] Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.





FIBERGLASS AND COMPOSITE

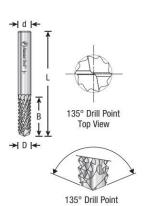
Solid Carbide . Medium Burr with 135° Drill Point

Combining the proven performance of a diamond-cut geometry with the capacity to plunge while leaving a minimum of top-side burr. 135° drillpoint minimizes part deflection on thin or otherwise unsupported work-pieces.

For material cut list, see above table



ØD	В	Ød	L	Tool No.
1/4	3/4	1/4	2	46098
1/4	3/4	1/4	2-1/2	48001





HIGH PERFORMANCE FIBERGLASS AND COMPOSITE

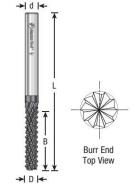
Solid Carbide . Burr End

Offering an array of unique extended life Aluminum Titanium Nitride (AITiN) coated CNC router bits for all your fiberglass application needs. AITiN coating provides double the hardness of cutting edges resulting in quantum increases in productivity, either in terms of speed or longevity, with or without coolant. Coating helps to prevent edge failures due to vibration and shock during CNC and manual feed applications.

Multi-fluted end face for finesse in the grinding process.

Excellent for Cutting:

- . Edging and Slotting All Carbon Fiber Reinforced Polymer (CFRP)
- Composites
- Fiberglass
- Fiberglass PCB Board
 G10 / FR-4 and G11 / FR-5 Glass Epoxy Composite Laminate Material
- · Fiber Reinforced Plastic (FRP)
- Glass Reinforced Plastic (GRP)
- Micarta[®]
- Phenolic
- · Thermosetting Plastics
- Thermoset Composites





ØD	В	Ød	L	Tool No.
1/8	1/2	1/8	1-1/2	48050-B †
1/4	2-1/8	1/4	4	48054-B
3/8	1	3/8	3	48055-B
1/2	1-1/8	1/2	3	48058-B

⁺ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits

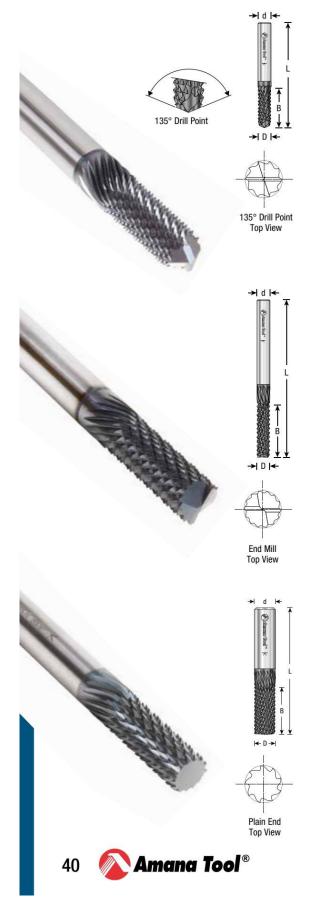


Benefits of AITIN Coating:

- · Extra wear resistance
- · Allows for faster feed & speed rates
- Cutting edge protected from wear
- Better chip evacuation
- · Superior cutting quality & extended tool life
- · Less heat build-up



INDUSTRIAL COMPOSITE CUTTING ROUTER BITS



HIGH PERFORMANCE FIBERGLASS AND COMPOSITE

Solid Carbide • 135° Drill Point

Combination drill/diamond-cut for clean vertical feed for minimum work-piece deflection.

AITIN COATED BITS

Excellent for Cutting:

- Edging and Slotting All Carbon Fiber Reinforced Polymer (CFRP)
- Composites
- Fiberglass
- Fiberglass PCB Board
- G10 / FR-4 and G11 / FR-5

•	Fiber	Reinforced	Plastic	(FRP)
•	Glass	Reinforced	Plastic	(GRP)

THE PH

· Phenolic

Glass Epoxy Composite Laminate Material			T.	CNC	
ØD	В	Ød	L	Tool No.	
1/8	1/2	1/8	1-1/2	48050-D†	
1/4	2-1/8	1/4	4	48054-D	
3/8	1	3/8	3	48055-D	
1/2	1-1/8	1/2	2	48058-D	

⁺ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits

HIGH PERFORMANCE FIBERGLASS AND COMPOSITE

Solid Carbide . End Mill

A combination 2 flute end mill/diamond-cut router bit for improved facing finishes on fiberglass and composites.

AITIN COATED BITS

Excellent for Cutting:

- Edging and Slotting All Carbon Fiber Reinforced Polymer (CFRP)
 Composites
- Fiberglass Fiberglass PCB Board
- G10 / FR-4 and G11 / FR-5 Glass Epoxy Composite Laminate Material
- · Fiber Reinforced Plastic (FRP)
- Glass Reinforced Plastic (GRP)
- Phenolic



ØD	В	Ød	L	Tool No.
1/8	1/2	1/8	1-1/2	48050-E †
1/4	1	1/4	3	48052-E
1/4	2-1/8	1/4	4	48054-E
3/8	1	3/8	3	48055-E
1/2	1-1/8	1/2	3	48058-E

[†] Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

HIGH PERFORMANCE FIBERGLASS AND COMPOSITE

Solid Carbide . Plain End

The end of this tool has a flat surface to preserve finishes on the perpendicular face.

AITIN COATED BITS

Excellent for Cutting:

- Edging and Slotting All Carbon Fiber Reinforced Polymer (CFRP)
- Composites

ØD 1/8 1/2

- Fiberglass
- Fiberglass PCB Board
 G10 / FR-4 and G11 / FR-5 Glass Epoxy Co
- Fiber Reinforced Plastic (FRP)Glass Reinforced Plastic (GRP)
- Phenolic

omposite Laminate Material			GNG
В	Ød	L	Tool No.
1/2	1/8	1-1/2	48050-N+
1-1/8	1/2	3	48058-N

⁺ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

DIAMOND GRIT SPIRAL WITH ELECTRO-PLATED DIAMONDS

3 Flute • Down-Cut • Alloy Steel End Mill

These tools offer outstanding finishes in the most abrasive of glass fiber or Carbon-Fiber-Reinforced Polymer (CFRP) applications. Combining a down-cut spiral with ultra-abrasion resistant embedded diamonds. Excellent for superb top finishes and outstanding performance. For use on routers and machining centers with or without CNC systems. Must secure work-piece.

Grit size D501 micron.

Excellent For Cutting:

- · Carbon Fiber
- . Metal Matrix Composite (MMC)
- Composites
- · Carbon Fiber Reinforced Polymer (CFRP)
- Fiberglass
- Fiberglass PCB Board





ØD	В	Ød	L	Tool No.
1/4	1-1/8	1/4	3	44110
1/4	1-3/8	1/4	3	44112
3/8	1-3/8	3/8	3	44114



DIAMOND COATED FIBERGLASS, CARBON FIBER AND COMPOSITE

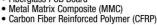
Flush Trim Grit with Ball Bearing • Extended Tool Life

This tool has a special diamond coating which results in longer tool life than the electro-plated brazing method. Diamond grit size is D427 (µm) / 40# (Mesh).

Used in the mobile/motor home, caravan, star wagon, trailer, coach, boat and RV industries to trim laminated fiberglass boards. Cuts fast and clean.

Excellent for Cutting:

- · Carbon Fiber
- · Composite
- Fiberglass
- Fiberglass PCB Board







Replacement Nut #67086.

Note: #44100 features double ball bearings



INDUSTRIAL COMPOSITE CUTTING ROUTER BITS

Panel Pilot Router Bits

- Perfect for the RV & mobile home industry
- Perfect for construction of standard and custom designed wall panels, floor and roof trusses





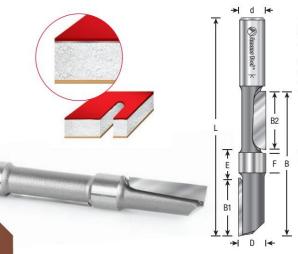
PANEL PILOT

Carbide Tipped • Single Flute • Heat Treated

These panel pilot bits have a pointed tip for plunge cuts, a special grind for speed and an integral solid pilot. It is designed for fast cut-out work and is used extensively in the mobile/motor home, caravan, star wagon, trailer, coache and RV industries.

This single-flute version cuts fast and produces an excellent finish

			. T. CHE	
ØD	В	Ød	L	Tool No.
1/4	3/4	1/4	2-1/2	45506
3/8	1	1/4	2-7/8	45507
3/8	1	3/8	3	45508
1/2	1-3/16	1/2	3-1/2	45510
1/2	2	1/2	4-3/4	45511



STAGGER TOOTH PLUNGE PANEL

Carbide Tipped with Center Pilot • Heat Treated

This version of the panel pilot bit has a stagger-tooth configuration for fast, clean cuts, coupled with a solid pilot between the cutting edges. Designed specifically for the caravan, star wagon, trailer, coach, mobile/motor home and RV-manufacturing industries to cut openings in ceilings and sidewalls. It can be used in any setup that has a template between the materials to be cut.

ØD	В	B1	B2	E	F	Ød	L	Tool No.	
1/2	2-13/16	1-1/8	1-3/16	3/8	1/2	1/2	4-1/4	51314	

PANEL PILOT

High Speed Steel (HSS) . Single Flute

The ultimate boring/pilot bit! These HSS panel pilot bits are long lasting and perfect for mobile/motor homes, modular homes, caravans, star wagons, trailers, coaches, RV industries and shed manufacturers.

Perfect for wood panels, vinyl coated panels and aluminum layered material.





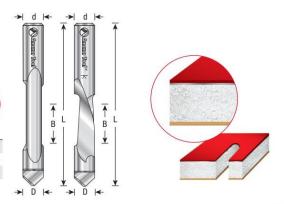
Straight

ØD	В	Ød	L	Tool No.
1/4	5/8	1/4	2-3/4	HSS11004
3/8	7/8	3/8	3-1/8	HSS11002
1/2	1	1/2	3-5/8	HSS11006

Spiral

The 'Down-Cut' design ejects the chips away from the operator. Perfect for drywall, wallboard, vinyl coated panels, aluminum and plywood sandwich panels.

ØD	В	Ød	L	Tool No.
1/4	5/8	1/4	2-3/4	HSS11003
3/8	3/4	3/8	3-1/8	HSS11001
1/2	1	1/2	3-1/2	HSS11005





STAGGER TOOTH PLUNGE CUTTING

Two cutting edges spaced 180 degrees apart, each half the length of its flute. One extends from the tip to the middle of the flute, the other from the middle to end. The configuration combines the cutting speed and chip clearance of a single-flute bit with the finish of a double-flute bit. Excellent bit for cutting dense or abrasive man-made materials and panel goods.

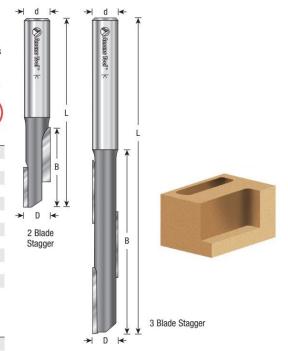
2 Blade Stagger

ØD	В	Ød	L	Tool No.
1/4	1	1/4	2-1/4	51300
3/8	1-3/8	3/8	3	51302
3/8	1-1/2	1/2	3-1/8	51304
1/2	1-1/2	1/2	3-1/8	51306
1/2	2	1/2	4-1/4	51308
1/2	2-1/8	1/2	4-1/4	51309
1/2	2-1/4	1/2	4-1/2	51310*
1/2	2-1/2	1/2	4-1/2	51311
1/2	2-5/8	1/2	4-3/4	51313
1/2	2-5/8	1/2	5-1/2	51323
5/8	2	1/2	4	51315
1210 ie appli	cable for use for CMC	machinge		

⁵¹³¹⁰ is applicable for use for CNC machines

Extra Long 3 Blade Stagger

ØD	В	Ød	L	Tool No.
1/2	3-1/2	1/2	6-1/4	51325



INDUSTRIAL PANEL PILOT ROUTER BITS



Polycrystalline Diamond (PC

- Harder cut edge provides high wear resistance
- Cut thousands of feet more than carbide without changing the tool which saves setup time
- Optimized machine tool efficiency
- Quality of finish is often significantly improved

If you're looking for the ultimate in tooling, you've found it! Our Polycrystalline Diamond (PCD) tipped router bits will cut a wide variety of tough, abrasive materials including composites, particleboard, MDF (raw or with melamine), veneer, hardwoods, plastic and solid surface. The cutting edge lasts much longer than carbide for extremely long life.





CNC PCD COMPRESSION UP/DOWN

Diamond Tipped with Plunge Point • Right Hand Rotation

Diamond is the hardest material on the earth. PCD tooling is manufactured in a high-temperature and high-pressure laboratory that fuses diamond particles onto a carbide substrate, which allows the diamond to be brazed onto a tool body. Compression with carbide plunge point. For grooving, jointing & rabbeting in composite materials (particleboard, MDF raw or with melamine, veneer, hardwood, etc). Up/Down-shear for double sided material.

Excellent for Cutting:

- Aluminum
- Aluminum Composites
- Aluminum Composite Material (ACM)
- Composites
- Composite Panels
- Custom Composite Materials (CCM)
- Fiberglass PCB Board
- · Fiberglass Reinforced Composites
- · Fiber-Reinforced Urethane Fiber-Reinforced Structural
- Foam Floors
- Hard and Soft WoodLightweight Composites
- MDF & Laminate







	ØD	В	Ød	L	L1	Max RPM	Tool No.	
Ī	3/8	1-1/4	3/8	3	1-1/2	24,000	DRB-192	New
	1/2	1	1/2	2-3/4	1-3/8	24,000	DRB-200	
	1/2	1-3/8	1/2	3-3/4	1-3/4	24,000	DRB-208	
	5/8	1	1/2	2-7/8	1-3/8	18,000	DRB-212	
	5/8	1-5/8	5/8	4	1-3/4	18,000	DRB-216	
	3/4	1-3/8	3/4	3-3/4	2	18,000	DRB-224	



CNC feed and speed available online





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PCD CNC ENGRAVING, V-GROOVING AND CHAMFERING

Diamond Tipped . Single & 2 Flute

Excellent for V-Grooving and Chamfering:

- · Aluminum Composite Material (ACM)
- · Carbon Fiber
- Composites
- Hardwood
- . Laminate Chipboard and MDF

Excellent for Engraving:

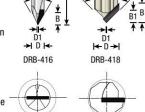
- ACM
- · Aluminum, Brass & Copper
- Aluminum Composites
- Carbon Fiber
- Composites
- Hardwood
- HDPE
- King Starboard®/ Marine Building Material
- Laminate Chipboard and MDF

- . Synthetic and Homogenous Marble
- Plywood Veneer
- . Metal Alloys that don't contain Iron
- PCB Board

Softwood

Solid Surface

- Phenolic
- Plastics
- Plywood VeneerSoftwood
- Solid Surface
- Synthetic and Homogenous Marble
- Titanium



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Top View







DRR-416

V		CNC
L	Flute	Tool No.
2-2/8	2	DDB_//16

Top View

	a°	ØD	D1	В	B1	Ød	L	Flute	Tool No.
Ī	60°	1/4	0.005	1/8	-	1/4	2-3/8	2	DRB-416
	90°	1/2	0.004	3/8	1/4	1/4	2-1/4	1	DRB-418

Warning: Maximum recommended material depth in one pass varies from 0.5mm - 3.0mm depending on the hardness of the material. The harder the material the less the depth.





PCD STRAIGHT PLUNGE

Diamond Tipped • 2 Flute

Excellent for cutting composite panels and fiberglass. The diamond-tipped cutting edges last much longer than carbide-tipped tooling. In the long-run, PCD is the most economical choice.

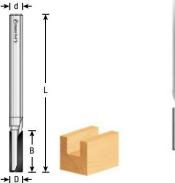
Excellent for Cutting:

- Aluminum
- Aluminum Composites
- Aluminum Composite Material (ACM)
- · Composites
- · Composite Panel
- · Custom Composite Materials
- Fiberglass
- Fiberglass Reinforced Composites
- Fiber-Reinforced Structural Foam Floors
- · Fiber-Reinforced Urethane
- Laminate
- Lightweight Composites
- MDF
- Particleboard
- Plastic Plywood Veneer

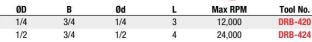




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ØD

1/4

3/8

1/2

PCD STRAIGHT PLUNGE New

Diamond Tipped . Single & 2 Flute Down-Shear

Ød

1/4

3/8

1/2

The diamond-tipped cutting edges last much longer than carbide-tipped tooling. In the long-run, PCD is the most economical choice.

Visit www.amanatool.com for full material cut list. В

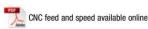
12.32mm (1/2)

15.35mm (5/8)

15.00mm (5/8)



(A) Amount Steel	(S) Amount Fired	- 1
×		- 1
-	1	
-	. 1	- 8
→ D ← ↑		- 8
DR	B-421 n-Shear)	100



INDUSTRIAL DIAMOND TIPPED ROUTER BITS





PCD ACM DOUBLE EDGE FOLDING

V-Groove for Shaping Aluminum Composite Material Panels 2 Flute . Diamond Tipped

Designed for shaping Aluminum Composite (sandwich) Materials with 90° angle V-grooves with flat bottom. Widely used for cladding many diverse exterior and interior applications. The long lasting durablility of the material makes it an excellent choice for buildings, signage, displays, etc. Routing V-shaped grooves, whereby the aluminum cover and a part of the polyethylene core is removed, allows for folding the remaining material. Ideal for wall panel fabrication.

PCD provides excellent cutting surfaces and extremely long life. Also optimal for panels with mineral core which may meet fire regulations.

Excellent for Cutting and Scoring:

- Acetate
- · Aluminum, Clay, Brass, Bronze, Zinc & Wood Composite Panels
- ACM
- Aluminum Composite Panel (ACP)
- ALPOLIC® Copper Composite Material (CCM)
- Alucobond[®]

- Alupanel®
- Bakelite
- Dibond®
- Durabond e-panelTM
- Etalbond®
- Nylon
- Phenolics
 Plastic/Acrylic
 Plexiglas®
- PVC
- Titanium Composite
- Material (TCM)
- Wood









a°	a1°	ØD	ØD1	В	B1	Ød	L	Tool No.
90°	45°	1/2	0.090" (2.3mm)	13/64	3/8	1/4	2	DRB-450



CNC feed and speed available online





CNC PCD BALL NOSE

Diamond Tipped • 2 Flute

If you're looking for the ultimate in tooling you've found it! Our PCD ball nose router bits are designed to eliminate tool marks that commonly appear when used with plastic and solid surface materials. The cutting edge lasts much longer than carbide for extremely long life.

Diamond is the hardest material on the earth. PCD tooling is manufactured in a high-temperature and high-pressure laboratory that fuses diamond particles onto a carbide substrate which allows the diamond to be brazed onto a tool body.

Excellent for Cutting:

- · Carbon Fiber Reinforced Plastic (CFRP)
- Composites
- Wood







R	ØD	В	Ød	L	Tool
1/8	1/4	3/8	1/4	2-1/2	DRB-
A	CEVEN BI				

▲ Warning: Maximum RPM=18,000



CNC feed and speed available online











Milling / Surfacing / Facing

Shouldering / Rabbeting

CNC PCD SPOILBOARD SURFACING & RABBETING

Diamond Tipped • 2 Flute

Diamond is the hardest material on the earth. PCD tooling is manufactured in a high-temperature and high-pressure laboratory that fuses diamond particles onto a carbide substrate which allows the diamond to be brazed onto a tool body.

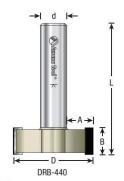
If you're looking for the ultimate in tooling you've found it! Our PCD-tipped compression CNC router bits will groove joint rabbet and surface plane a wide variety of tough abrasive materials including composites, particleboard, MDF (raw or with melamine), veneer and hardwoods. The cutting edge lasts much longer than carbide for extremely long life.

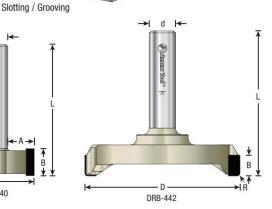
Perfect for surfacing, finishing using timber slab machines and planing large glued up panels.

Excellent for Cutting:

- · Aluminum, Bronze & Copper
- Aluminum Composites
- Composites
- · Particleboard
- Plywood Veneer Wood









ØD	В	R	Α	Ød	L	Tool No.
1-1/2	1/2	-	3/8	1/2	2-1/2	DRB-440
75mm (3")	10mm (13/32)	1/16	-	1/2	2-3/4	DRB-442



CNC feed and speed available online



CNC PCD T-SLOT

Diamond Tipped • 2 Flute

T-Slot diamond tipped router (standard T-Slot). Re-sharpen one to two times. Right hand rotation. The diamond-tipped cutting edges last much longer than carbide-tipped tooling. In the long-run, PCD is the most economical choice.

If you're looking for the ultimate in tooling you've found it! Our PCD-tipped T-slot CNC router bits will groove a wide variety of tough abrasive materials including composites, particleboard, MDF (raw or with melamine), veneer and hardwoods.

Excellent for Cutting:

- Aluminum
- · Aluminum Composites
- · Aluminum Composite Material (ACM)
- Composites

- Hardwood
- MDF
- Melamine Particle Board

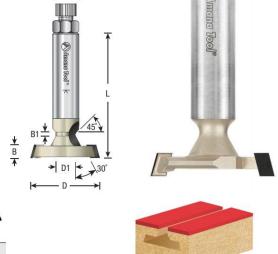
Benefits of PCD Technology

- Harder cutting edge provides higher resistance to wear
 Cut thousands of feet more than carbide without changing tool, saving setup time
- Optimized machine tool efficiency
- · Quality of finish is often significantly improved









INDUSTRIAL DIAMOND TIPPED ROUTER BITS



Benefits of PCD Technology

- · Harder cutting edge provides higher resistance to wear
- Cut thousands of feet more than carbide without changing tool, saving setup time
 Optimized machine tool efficiency
- · Quality of finish is often significantly improved



PCD FLUSH TRIM FOR MDF/LAMINATE, ACM & ALUMINUM

Diamond Tipped • 2 Flute with Ball Bearing Guide

Diamond is the hardest material on the earth. PCD tooling is manufactured in a high-temperature and high-pressure laboratory that fuses diamond particles onto a carbide substrate, which allows the diamond to be brazed onto a tool body.

If you're looking for the ultimate in tooling, you've found it! Amana's PCD-tipped flush trim CNC router bits will trim a wide variety of tough, abrasive materials including composites, particleboard, MDF (raw or with melamine), veneer and hardwoods. The cutting edge lasts much longer than carbide for extremely long life.

The ultimate flush trim bit for ACM and aluminum. The diamond-tipped cutting edges last much longer than carbide-tipped flush trims, saving you time and money.

Excellent for Flush Trimming:

- ACP
- Aluminum, Clay, Zinc & Wood Composite Panels
 Aluminum
- ALPOLIC® CCM
- Alucobond[®]
- Alupanel®
- Composites
- · Composite Materials

- Dibond®
- Durabond**
 e-panelTM

- Etalbond®
 Fiber-Reinforced Urethane
- · Fiber-Reinforced Structural Foam Floors
- · Fiberglass Reinforced Composites
- Lightweight Composites
- MDF Laminates
- TCM

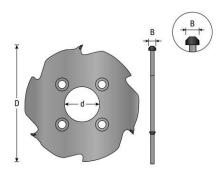






ØD	В	Ød	L	Tool No.
1/2	7/16	1/4	2-19/64	DRB-400
1/2	1	1/4	2-53/64	DRB-404

Replacement parts: Bearing #47706; Screw #67018; Washer #67082.





PCD LAMELLO CUTTER New

Diamond Tipped • 3 Teeth

To be used both in CNC machines and Zeta P2 hand power tool.

Recommended for grooving corner and longitudinal joints on hardwoods, veneered and laminated MDF with the P system anchorage. Suitable for making furniture.







ØD	Teeth	Ød	В	Pinholes	Tool No.
100.4mm	3	22mm	7mm	4/4/36	LAM100T3-PCD

Replacement parts: Bearing #47706; Screw #67096; Washer #67082.











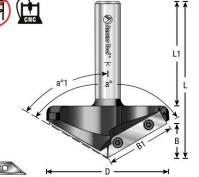
CNC V-GROOVE, MITER FOLD, SIGNMAKING & LETTERING - 1/4" & 1/2" SHANK

Insert Carbide • Single Flute & 2 Flute • 40° to 160°

Designed for V-Grooving, signmaking, lettering, miter folding and chamfering your material to a perfect joint! Excellent solution for etching. General purpose knives included. For material cut list see next page.







a°	a°1	ØD	В	B1	Flute	Cutting Edges		L1	L	Gen. Purpose Repl. Knife	Optional MDF Repl. Knife	Torx Screw	Max RPM	Tool No.
40°	20°	47/64	1	1- 1/16	1	1	1/4	1-3/8	2-9/16	RCK-57	RCK-367	67117	28,000	RC-1041
40°	20°	47/64	1	1- 1/16	1	1	1/2	1-1/2	2-9/16	RCK-57	RCK-367	67117	28,000	RC-1040
45°	22.5°	13/16	63/64	1- 1/16	1	1	1/4	1-3/8	2-5/16	RCK-56	RCK-350	67117	35,000	RC-1145
45°	22.5°	13/16	1	1- 1/16	- 1	1	1/2	1-3/8	2-3/8	RCK-56	RCK-350	67117	24,000	RC-1045
45°	22.5°	13/16	1	1- 1/16	1	1	1/2	2-1/2	3-21/32	RCK-56	RCK-350	67117	18,000	RC-1049
46°	23°	27/32	63/64	1- 1/16	1	1	1/2	1-3/8	2-3/8	RCK-56	RCK-350	67117	24,000	RC-1047
50°	25°	7/8	31/32	1- 1/16	1	1	1/2	1-1/2	2-9/16	RCK-56	RCK-350	67117	22,000	RC-1046
60°	30°	15/32	21/64	25/64	1	2	1/4	1-1/8	1-15/16	RCK-524	_	67117	24,000	RC-1147 New
60°	30°	1-1/16	29/32	1- 1/16	1	1	1/2	1-3/8	2-7/16	RCK-56	RCK-350	67117	24,000	RC-1108
60°	30°	27mm	23mm	27mm	1	1	6mm	29mm	61mm	RCK-56	RCK-350	67117	24,000	RC-1148-M
60°	30°	1-1/16	59/64	1- 1/16	1	1	1/4	1-1/8	2-25/64	RCK-56	RCK-350	67117	24,000	RC-1148
70°	35°	1-7/32	7/8	1- 1/16	1	1	1/2	1-1/2	2-9/16	RCK-56	RCK-350	67117	18,000	RC-1048
72°	36°	1-1/4	7/8	1- 1/16	1	1	1/2	1-1/2	2-19/32	RCK-56	RCK-350	67117	18,000	RC-1072*
90°	45°	1	1/2	47/64	1	2	1/4	1-1/8	2	RCK-520	RCK-522	67117	24,000	RC-1141 New
90°	45°	1-1/2	3/4	1- 1/16	1	2	1/4	1-3/8	2-5/8	RCK-134	RCK-351	67117	35,000	RC-1142
90°	45°	1-1/2	3/4	1- 1/16	1	2	1/2	1-25/32	3	RCK-134	RCK-351	67117	18,000	RC-1102
91°	45.5°	1-1/2	3/4	1-3/64	1	2	1/4	1-3/8	2-19/32	RCK-119	RCK-352	67117	18,000	RC-1140
91°	45.5°	1-1/2	3/4	1- 1/16	1	2	1/2	1-25/32	3	RCK-119	RCK-352	67117	18,000	RC-1100
100°	50°	1-5/8	11/16	1- 1/16	1	2	1/2	1-25/32	3-3/16	RCK-119	RCK-352	67117	18,000	RC-1103
110°	55°	1-3/4	5/8	1- 1/16	1	2	1/2	2	3-3/16	RCK-119	RCK-352	67117	18,000	RC-1105
120°	60°	1-23/64	25/64	25/32	1	2	1/4	1-27/64	2-31/64	RCK-139	RCK-348	67115	14,000	RC-1146
120°	60°	2-1/32	9/16	1-5/32	2	1	1/2	2	3-1/16	RCK-136	RCK-353	67139	18,000	RC-1104†
130°	65°	2-1/8	1/2	1-5/32	2	1	1/2	2	3	RCK-136	RCK-353	67139	22,000	RC-1107
140°	70°	2-13/64	13/32	1-11/64	2	1	1/2	2	3-1/16	RCK-59	RCK-346	67117	18,000	RC-1110
140°	70°	3-5/64	1/2	1-1/2	2	1	1/2	1-31/32	3-3/16	RCK-347	_	67139	16,000	RC-1111
150°	75°	1-33/64	13/64	25/32	1	2	1/4	1-27/64	2-3/8	RCK-139	RCK-348	67115	24,000	RC-1101
150°	75°	2-1/4	19/64	1-5/32	2	1	1/2	2	2-15/16	RCK-137	RCK-354	67115	22,000	RC-1106
160°	80°	2-5/16	13/64	1-5/32	2	1	1/2	2	2-25/32	RCK-137	RCK-354	67115	22,000	RC-1109

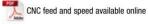
^{*} RC-1072 will make a 5 sided box. † RC-1104 is suitable for cutting Cristal Plexiglas®.

For the best finishing results, blow cold air on the cut area while cutting, with a low feed rate of 500-1,000mm/min at RPM 6,000-10,000.

Item #'s RC-1100, RC-1102, RC-1103, RC-1105 & RC-1142 allows you to get two uses out of each insert. Once insert knife show signs of wear you can rotate the insert for a brand new cutting edge.



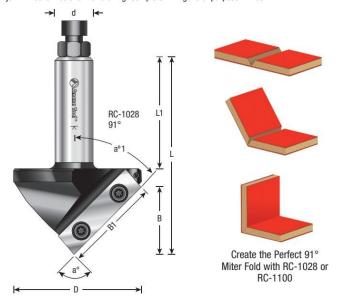




CNC V-GROOVE, MITER FOLD, SIGNMAKING & LETTERING - 3/4" SHANK

Insert Carbide • Single Flute & 2 Flute • 45° to 120°

Innovative CNC tool design uses the highest grade carbide insert knives. Designed for V-Grooving, signmaking, lettering, miter folding and chamfering your material to a perfect joint! Excellent solution for etching. Complete with general purpose knives.



Excellent For Cutting:

- · Composites
- Composite Decking
- Foam
- King ColorCore® The Multi-Color Engravable Polymer Sheet.
- I aminate Melamine
- MDF/HDF Plastic
- PVC
- Sign Board Solid Surface

V-Groove, Engrave and Chamfer Cuts





- Aluminum Brass Bronze
- Copper Gold
- · Carbon Fiber

 Veneered Plywood • Wood

· Xanita® Board*

Urethane

Silver

*When working with Xanita LightBoard panel (X-board®, X-board® plus) we recommend using MDF knives for better results.



	22.5°		° Fold C-1045	Si	ides	7	g 10001			050	70 11 0	
 a°	a°1	ØD	В	B1	Ød	Flute	Cutting Edges	L1	L	Gen. Purpose Repl. Knife	Optional MDF Repl. Knife	
45°	22.5°	1-1/2	1-3/4	1-15/16	3/4	1	1	2-3/16	4-1/4	RCK-58	RCK-349	
90°	45°	2-5/8	1-9/32	1-27/32	3/4	1	2	2-5/32	3-13/16	RCK-133	RCK-355	
90°	45°	3	1-1/2	2-1/8	3/4	1	2	2-1/8	4-23/64	RCK-138	RCK-359	

2

2-5/8

* Warning: These tools have an open flute design (not anti-kickback) and are intended for high feed-rate CNC machine use only. Do not use in portable routers.

3-7/8

3-7/8

3-27/32

2-3/8

2-3/8

2-3/8

2

1

▲ Warning: For maximum RPM visit www.amanatool.com

1-5/16

2-5/8 1-5/16

Item #'s RC-1028, RC-1030 & RC-1034 allows you to get two uses out of each insert. Once knife shows signs of wear you can rotate the insert for a new cutting edge.

▲ Warning: Before using any insert tool, make sure the set screw is tightened firmly.

3/4

3/4

1-13/16

1-13/16

When replacing a dull insert, first clean the tool and remove all dust prior to inserting the new knife.



60°

90°

120°

150°

Max **RPM**

18,000

18,000

18,000

Tool No.

RC-1030 ★

RC-1028 *

18,000 RC-1028-TG* New

18,000 RC-1034 *

15,000 RC-1029 *

Torx

Screw

67117

67110

67115

67110

67110

67115

RC-1148 609

RC-1045

RC-1108

RC-1102

RC-1104

RC-1106



91°

91°

45.5°

CNC feed and speed available online

INDUSTRIAL SIGNMAKING ROUTER BITS

RCK-356

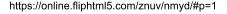
RCK-356

RCK-357

RCK-117

RCK-117

RCK-112



^{120°} 60° 3-13/32 2 1 * For Thermogrip® CNC Heat Shrink Tool Holders.

INDUSTRIAL

In-Groove™

CNC Insert Engraving System

1 Flute • For Signmaking, Lettering & Engraving

Industrial quality insert carbide knives produce crisp, clean cuts and last at least twice as long as comparable solid carbide bits.

This engraving system was engineered to quickly interchange inserts while tool body can remain mounted in CNC machine. This minimizes downtime and helps to maintain consistent cutting accuracy. CNC Tool bodies are expertly balanced for virtually no vibration to provide superior cutting results.

Excellent For Cutting:

- · Laminated Materials
- Veneers
- MDF
- PlasticsSoftwood
- Hardwood
- Phenolic
- Solid Surface
- Carbon Fiber
- PCB Board
- HDPE
- King Starboard®
- Aluminum (V-Tip only)
- Brass (V-Tip only)
 Copper (V-Tip only)







CNC INSERT CARBIDE ENGRAVING SYSTEM SETS

The 8-piece In-Groove sets contain industrial-quality insert carbide knives that can quickly and easily be interchanged while the tool body remains mounted in the CNC machine, minimizing downtime and helping maintain consistent cutting accuracy.



Description	Shank	Overall Length	Tool No.
8-Piece In-Groove Set	1/4	2-1/2	AMS-210
8-Piece In-Groove Set	1/2	2-1/2	AMS-209

Knives Included with Each Set

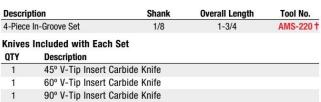
Description	
Corner Round/Bead Groove Insert Carbide Knife	
Straight Insert Carbide Knife	
30° V-Tip Insert Carbide Knives	
60° V-Tip Insert Carbide Knife	
1/16" Radius Core Box Insert Carbide Knife	
	Corner Round/Bead Groove Insert Carbide Knife Straight Insert Carbide Knife 30° V-Tip Insert Carbide Knives 60° V-Tip Insert Carbide Knife





The mini In-Groove set contains industrial-quality insert carbide knives that can quickly and easily be interchanged while the tool body remains mounted in the CNC machine, minimizing downtime and helping maintain consistent cutting accuracy.

	H
(溶り	CVC
	CNC





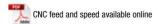
AMS-209

Includes wrench and aluminum mounting block.

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits







CNC IN-GROOVE™ INSERT ENGRAVING TOOL BODY → a K-

Solid carbide insert carbide knives produce crisp, clean cuts and last at least twice as long as comparable solid carbide bits. This industrial engraving tool body was engineered to quickly interchange inserts while the tool body remains mounted in your CNC machine. This minimizes downtime and helps to maintain consistent cutting accuracy. Insert knives sold separately.

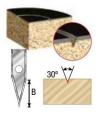
CNC tool bodies are expertly balanced for virtually no vibration for superior cutting results.

Tool Body Shank	Overall Length	Tool No.
1/8	1-3/4	RC-1074*‡ New
6mm	2-1/2	RC-1077* New
1/4	2-1/2	RC-1075*
12mm	2-1/2	RC-1078*
1/2	2-1/2	RC-1076*

^{*} Insert knives sold separately. ‡ Only to be used with Mini In-Groove Insert Knives Replacement parts: Hex key #5004; Screw #67127.

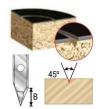


REPLACEMENT IN-GROOVE™ INSERT CARBIDE KNIVES



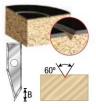
30° V-TIPS

Tip Widt	h B	Tool No.
0.005	16mm(5/8)	RCK-360
0.010	16mm(5/8)	RCK-361
0.020	16mm(5/8)	RCK-362
0.030	16mm(5/8)	RCK-363
0.040	16mm(5/8)	RCK-364
0.060	16mm(5/8)	RCK-366
0.090	16mm(5/8)	RCK-369



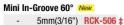
45° V-TIPS

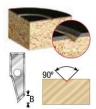
Tip Wi	dth	В		Tool No.	
0.005	10.7	mm(27	/64)	RCK-510)
0.010	10.7	mm(27	/64)	RCK-512	2
0.020	10.2	mm(13	/32)	RCK-514	1
Mini Ir	ı-Gro	ove 45	5° Ne	ew .	
-	5r	nm(3/1	6")	RCK-505	5 ‡



60° V-TIPS

Tip Wid	th B	Tool No.
0.005	7.5mm(9/32)	RCK-380
0.010	7.5mm(9/32)	RCK-381
0.020	7.5mm(9/32)	RCK-382
0.030	7.5mm(9/32)	RCK-383
0.040	7.5mm(9/32)	RCK-384
0.060	7.5mm(9/32)	RCK-385
0.090	7.5mm(9/32)	RCK-386





90° V-TIPS

Tip Widt	th B	Tool No.
0.005	4mm(5/32)	RCK-390
0.010	4mm(5/32)	RCK-391
0.020	4mm(5/32)	RCK-392
0.040	4mm(5/32)	RCK-393

- 5mm(3/16") RCK-507 ‡



STRAIGHT PLUNGE

Tip Wid	th B	Tool No.
1/8	5mm(3/16)	RCK-400
3/16	6mm(15/64	RCK-402
1/4	7mm(9/32)	RCK-404
5/16	8mm(5/16)	RCK-406



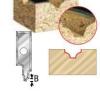
Radius	в В	Tool No.
1/16	5mm(3/16)	RCK-420
3/32	6mm(15/64)	RCK-422
5/32	8mm(5/16)	RCK-426



Radius	В	Tool No.
1/16	5mm(3/16)	RCK-420
3/32	6mm(15/64)	RCK-422
5/32	8mm(5/16)	RCK-426

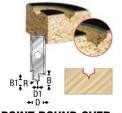


Radius	В	Tool No.
1/16	5mm(3/16)	RCK-420
3/32	6mm(15/64)	RCK-422
5/32	8mm(5/16)	RCK-426



CORNER ROUND

Radius	В	Tool No.
1/16	8mm(5/16)	RCK-410
3/32	8mm(5/16)	RCK-412
1/8	8mm(5/16)	RCK-414



POINT ROUND OVER

R	D	D1	В	B1	Tool No.
1/8	17/64	1/64	15/64	1/8	RCK-416

‡ Only to be used with Mini In-Groove Insert Knives

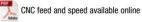
8 PC. 3D SIGNMAKER SET

1/4" Shank • Insert Carbide & Solid Carbide Router Bit Pack

For the most demanding signmaking, lettering and engraving tasks. Designed for creating signs and other CNC projects in a variety of materials. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Includes Set No.

46369-K, RC-45711, RC-1148, 45622-K, 45771-K, 46200-K, 46202-K, 46170-K AMS-228





INDUSTRIAL SIGNMAKING ROUTER BITS

V-GROOVE SIGNMAKING &

Carbide Tipped • Single, 2 & 3 Flute





Excellent For Cutting:

LETTERING

- Acrylic Composites
- Composite Decking

- FoamLaminiateMelamine
- MDF/HDF
- Plastic Plywood
- PVC Plastic

Cut decorative V-Grooves and lettering on signs with these bits. Use with an edge guide to chamfer and bevel edges.

- Sign Board
 Solid Surface
- 20lbs High Density Urethane
 • Veneered Plywood
 • Wood

B1

- Xanita Board







Tool No.

→ı d l≪
⊗ânaza fod*
a°
B A
[™] → D ⊢

	a° \	1
	45705 60°	
	45704 90°	
	45710 90°	
	45752 100°	
	45756 120°	1
1	45770 150°	1
1:1		

a	UU	U	D1	υu	-	Hute	1001 140.	
60°	1/4	1/8	_	1/4	2-3/8	2	DRB-416	
60°	1/4	7/32	31/64	1/4	2	3	45624 *	
60°	12.7mm	10.5mm	16mm	6mm	44mm	2	45705-M† Ne	w
60°	1/2	7/16	17/32	1/2	2-1/4	2	45719 † New	K
60°	1/2	7/16	5/8	1/4	1-3/4	2	45705 †	
60°	1/2	7/16	5/8	1/4	2	2	45709 † New	K
60°	1/2	27/64	5/8	1/2	2-1/4	2	45706 †	
60°	1/2	7/16	5/8	1/2	3	3	45629 * New	K
90°	1/4	1/8	9/16	1/4	1-1/2	2	45625 *	
90°	3/8	3/16	7/16	1/4	1-5/8	2	45700	
90°	3/8	3/16	7/16	1/2	2	2	45702	
90°	12.7mm	6mm	12.7mm	6mm	41mm	2	45704M New	K
90°	1/2	1/4	3/8	1/4	2-1/4	1	DRB-418	
90°	1/2	1/4	1/2	1/4	1-5/8	2	45704	
90°	1/2	1/4	1/2	1/4	2	2	45723 New	ľ
90°	1/2	1/4	1/2	1/2	2-1/8	2	45708	
90°	5/8	5/16	1/2	1/4	1-5/8	2	45710	
90°	5/8	5/16	1/2	1/2	2	2	45712	
90°	3/4	3/8	5/8	1/4	1-3/4	2	45714	
90°	3/4	3/8	5/8	1/2	2-1/8	2	45716	
90°	7/8	7/16	3/4	1/4	1-7/8	2	45718	
90°	7/8	7/16	3/4	1/2	2-1/4	2	45720	
90°	1	1/2	3/4	1/4	1-7/8	2	45722	
90°	1	1/2	3/4	1/2	2-1/4	2	45724	
90°	1-1/4	9/16	1	1/2	2-1/2	2	45726	
90°	1-1/4	5/8	15/16	1/4	2-13/64	2	45751	
90°	1-1/2	3/4	3/4	1/2	2-3/4	2	45728♦ ▲ 10)
90°	2	1	1-3/4	1/2	3-1/4	2	45732♦ ▲ 12	1
100°	1-1/4	17/32	53/64	1/4	2-3/32	2	45752	
110°	1-1/4	7/16	47/64	1/4	2	2	45754	
120°	19.5mm	5mm	3/4	1/2	2-17/32	2	45753 New	
120°	1-1/4	23/64	21/32	1/4	1-59/64	2	45756	
130°	1-1/4	9/32	31/64	1/4	1-3/4	2	45758	
150°	1-1/4	11/64	7/16	1/4	1-11/16	2	45770	
	6 22 6	221	40.000		10.000			

▲ Warning: Maximum RPM ▲ 10 = 10,000; ▲ 12 = 12,000



^{† 2} flute 60° V-Groove bit designed for lettering, signmaking and decorative work. * Solid Carbide

Polycrystalline Diamond (PCD) for extremely long life. Maximum recommended material depth in one pass varies from 0.5mm to 3.0mm depends on the hardness. The harder the material, the less depth.

[♦] Use in a table-mounted router. Not for use in a handheld router!

45771-K-2 New



V-GROOVE SIGNMAKING & LETTERING New

Solid Carbide • 2. 3 & 4 Flute

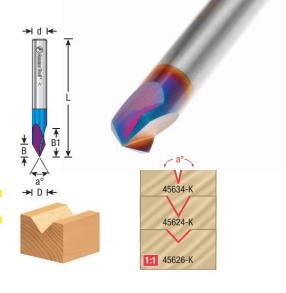
The Spektra™ nACo® nanocomposite coating is a micro thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality. For complete details on Spektra™

visit www.amanatool.com/spektra

2-Pc Pack includes 45624-K

For materia	I cut list	see previous page 54.			1.11	CNC	
a°	ØD	В	B1	Ød	L	Flute	Tool No.
30°	1/4	5/8	27/64	1/4	2	3	45634-K
30°	3/8	3/4	0.700	1/4	2-1/2	3	45642-K New
60°	1/4	7/32	31/64	1/4	2	3	45624-K
60°	3/8	3/4	0.325	1/4	2-1/2	3	45644-K New
90°	1/4	1/8	1/4	1/4	1-1/2	3	45626-K
90°	1/4	.116	25/64	1/4	2	3	45639-K
90°	1/4	1/8	9/16	1/4	1-1/2	2	45625-K
60°	1/4	7/32	31/64	1/4	2-1/2	4	45631-K
90°	1/4	1/8	1/4	1/4	2-1/2	4	45633-K
2-Packs							Tool No.

5-Packs Tool No. 5-Pc Pack includes 45624-K 45624-K-5 45626-K-5 5-Pc Pack includes 45626-K



60° V-GROOVE SIGNMAKING & LETTERING

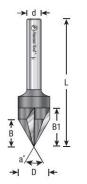
Solid Carbide Cutting Head . Single & 3 Flute

Originally developed in Europe specifically for professional signmakers, this bit features an extra-fine 60° point that produces a clean, precise cut. For those intricate lines, this bit is superior to standard V-Groover.

Makes crisp, clean cuts in solid woods, MDF and acrylics.

a°	ØD	В	B1	Ød	L	Flute	Tool No.
60°	9/16	7/16	1/2	1/4	2-1/2	1	45731*
60°	9/16	7/16	1/2	1/4	2-1/4	3	45730
60°	9/16	7/16	1/2	1/2	2-1/4	3	45733

^{*} Specialty 1-flute bit designed for use with acrylics.







CNC V-GROOVE SIGNMAKING & New **LETTERING PACK**

1/4" Shank • Solid Carbide Router Bit

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.







3-Piece • 30°, 60° & 90°

includes	Set No.
45634-K (30°), 45624-K (60°), 45626-K (90°)	AMS-310-K
4-Piece • 15°, 30°, 60° & 90° Includes	Set No.
includes	oct no.
45611-K (15°), 45634-K (30°), 45631-K (60°), 45633-K (90°)	AMS-312-K



INDUSTRIAL SIGNMAKING ROUTER BITS



8-PC. CNC SIGNMAKING, LETTERING New & ENGRAVING

1/4" Shank • Solid Carbide Router Bit Collection

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.









Excellent For Engraving:

- 20lbs High Density Urethane
- FoamLaminate
- Melamine Plywood MDF/HDF PVC Plastic
- Wood
 - Veneered Plywood
 Xanita® Board

Includes

Set No. AMS-163

45627, 45628, 45620, 45621, 45622, 45623, 45625 & 45624

Amana Tool®

INDUSTRIAL SIGNMAKING ROUTER BITS











7-pc Set 45769

30°, 45° AND 60° ENGRAVING 1/4" Shank • Solid Carbide • Single Flute

For extra-fine carving and lettering details for signmaking in wood, plastic, aluminum and solid surface materials.

30° Single Flute

t = tip width	В	Ød	L	Tool No.
0.005	0.240	1/8	2-1/4	45630 New
0.005	0.440	1/4	2-1/4	45771
0.010	0.440	1/4	2-1/4	45772
0.0108	0.413	1/4	2	45620
0.020	0.420	1/4	2-1/4	45773
0.030	0.400	1/4	2-1/4	45774
0.035	0.349	1/4	2	45621
0.040	0.380	1/4	2-1/4	45775
0.060	0.340	1/4	2-1/4	45776
0.090	0.290	1/4	2-1/4	45777
0.005 to 0.090		30° Set (7 Pcs.)	2-1/4	45779

45° Single Flute

t = tip width	В	Ød	L	Tool No.
0.005	0.296	1/4	2-1/4	45601 New
0.020	0.276	1/4	2-1/4	45602 New
0.025	0.272	1/4	2	45622
0.042	0.242	1/4	2	45623

60° Single Flute

t = tip width	В	Ød	L	Tool No.
0.005	0.212	1/4	2	45760
0.010	0.208	1/4	2	45761
0.020	0.199	1/4	2	45763
0.030	0.191	1/4	2	45765
0.040	0.182	1/4	2	45766
0.060	0.165	1/4	2	45767
0.090	0.139	1/4	2	45768
0.005 to 0.090		60° Set (7 Pcs.)	2	45769



▲Warning: Maximum RPM=28,000

15°, 30°, 45° AND 120° ENGRAVING New 1/4" Shank • Solid Carbide • Single Flute

The Spektra™ nACo® nanocomposite coating is a micro thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality.

15° Single Flute

t = tip width	В	Ød	L	Tool No.
0.005	0.93	1/4	2-1/4	45611-K
0.13mm (0.005) 2	24mm (0.93)	6mm	58mm (2-1/4)	45611-K-M

30° Single Flute

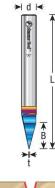
t = tip width	В	Ød	L	Tool No.
0.005	0.240	1/8	2-1/4	45630-K
0.005	11mm	6mm	57mm	45771-MK
0.005	0.440	1/4	2-1/4	45771-K
0.0108	0.413	1/4	2	45620-K
0.020	0.420	1/4	2-1/4	45773-K
0.030	0.400	1/4	2-1/4	45774-K
45° Single Flute				

t = tip width	В	Øα	L	1001 NO.
0.005	0.296	1/4	2	45632-K
0.025	0.272	1/4	2	45622-K
0.042	0.242	1/4	2	45623-K
	0.005 0.025	0.005 0.296 0.025 0.272	0.005 0.296 1/4 0.025 0.272 1/4	0.005 0.296 1/4 2 0.025 0.272 1/4 2

120° Single Flute

	t = tip width	В	Ød	L	Tool No.
	0.015	0.575	1/4	2-1/2	45606-K
5-Packs					Tool No.
5-Pc Pac	k includes 45771-l	K			45771-K-5

















"ZERO-POINT" 45°, 60° & 90° V-GROOVE & ENGRAVING

Solid Carbide • 2 Flute

Designed for beveling or V-Grooving 45°, 60° and 90°.

Excellent For Cutting:

- WoodAluminum
 - GoldSilver
- Brass Bronze Copper
- Lexan™ Composite
- Soft PlasticsHard Plastics
- Solid Surfaces (Corian, Formica, etc)
- · Laminated Chipboard/Plywood

	a°	ØD	В	B1	Ød	L	Flutes	Tool No.
	45°	1/4	3/4	0.310	1/4	2-1/4	2	45613 New
	60°	1/4	3/4	0.214	1/4	2-1/4	2	45615 New
	90°	1/8	5/8	1/16	1/8	2	2	45608
	90°	1/8	5/8	1/16	1/4	2-1/4	2	45609
	90°	3/16	5/8	3/32	1/4	2-1/4	2	45610
	90°	1/4	3/4	1/8	1/4	2-1/4	2	45612
	90°	3/8	3/4	3/16	3/8	2-1/2	2	45614
_	90°	1/4	1/4	1/8	1/4	1-1/2	3	45626-Z New







CNC feed and speed available online

"ZERO-POINT" 60° & 90° V-GROOVE

Carbide Tipped • 2 Flute

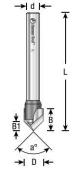
Cut decorative V-Grooves and lettering on signs. Use with an edge guide to chamfer and bevel edges.

For material cut list visit www.amanatool.com.



9/16 1/2	13/32	1/4	2-1/4	45707
1/2	44/04		2 0 0 0	
1/2	11/64	1/4	2-1/4	45701
1/2	15/64	1/4	2-1/4	45703
	1/2	1/2 15/64	1/2 15/64 1/4	me, men mi emi









AMS-129

5-PC. 18°, 30°, 45°, 60° AND 90° V-GROOVE New

1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Pack

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.









Excellent For Engraving:

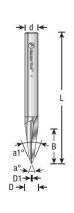
- ACM
- · Aluminum, Brass, Bronze, Copper
- Composite
- Fiberglass
- Foam
- Laminate
- · Plastic/Acrylic
- Wood
- Veneered Plywood

Includes Set No. 45783, 45771, 45623, 45707 & 45701



INDUSTRIAL SIGNMAKING ROUTER BITS





CARVING/ENGRAVING

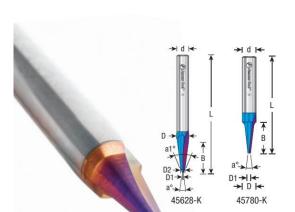
Solid Carbide • 2 Flute

For fine-line "engraving" in wood and composite materials, use either of these compact bits. Two-flute configuration and modest length (which minimizes vibration) combine to produce crisp, clean cuts.





a°	a1°	ØD	D1	В	B1	Ød	L	Tool No.
15°	=	1/4	0.063	21/32	-	1/4	2-1/2	45627
15°	-	3/16	0.070	1/2	(5)	1/4	2	45780
60°	30°	3/8	.030	5/8	3/8	3/8	3	45635 New
60°	30°	1/2	.040	5/8	1/2	1/2	3	45636 New
60°	-	1/4	0.025	3/16	-	1/4	2	45782 New
60°	30°	1/8	0.016 (1/64)	3/8	-	1/8	2	40780
60°	_	1/4	0.017	0.560	-	1/4	1-1/2	59400
90°	45°	3/8	.036	5/8	3/8	3/8	3	45637 New











5-Packs 5-Pc Pack includes 45783 Tool No.

45783-5



CARVING/ENGRAVING New

Solid Carbide • 2 Flute

For fine-line "engraving" in wood and composite materials. Two-flute configuration and modest length (which minimizes vibration) combine to produce crisp, clean cuts. Spektra™ coating provides longevity and produces cutting results of the highest quality.

For complete details on Spektra™ visit www.amanatool.com/spektra







a°	a1°	ØD	D1	D2	В	Ød	L	Tool No.
15°	-	3/16	0.070	-	1/2	1/4	2	45780-K
15°	45°	1/4	0.020	3/32	0.666	1/4	2-1/2	45628-K







Solid Carbide • Single Flute

For extra-fine carving and lettering details.

Excellent For Carving:

- Aluminum
- MDF/Laminate
- PlywoodSilver Wood



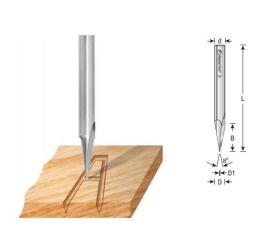




	a°	ØD	ØD1	В	Ød	L	Tool No.
Ì	15°	1/8	0.07	0.400	1/8	2-1/4	40782
	18°	1/4	-	5/8	1/4	2-1/2	45783
	22°	1/4	0.017	0.648	1/4	2-1/2	40784













CARVING LINER New

Solid Carbide • Single Flute

The Spektra™ nACo® nanocomposite coating is a micro thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality. For complete details on Spektra™ visit www.amanatool.com/spektra

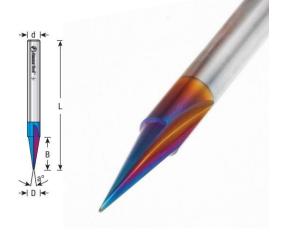


Excellent For Carving:

- MDF/Laminate
- Plywood Wood



a°	ØD	В	Ød	L	Flute	Tool No.
18°	1/4	5/8	1/4	2-1/2	1	45783-K

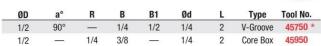


CORE BOX AND V-GROOVE

Carbide Tipped • 2 Flute with Upper Ball Bearing

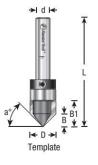
Designed for fluting and V-Grooving cuts guided by a template or pattern. The ball bearing pilot rides along the template edge, and the cutter duplicates the template contour in the work-piece. With a handheld router, the template must be on top of the work-piece. With a table-mounted router, the template must be on bottom of the work-piece.



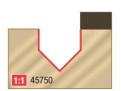


Replacement parts: Bearing #47701; Collar #47724.

^{*} NOTE: 90° V-Groove bit is for decorative purposes and is not intended for 'miter-folding', etc.













INDUSTRIAL SIGNMAKING ROUTER BITS















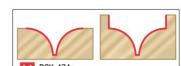














TRU POINT™ ROUNDOVER New INSERT CNC SYSTEM





This Tru Point Insert Roundover CNC system was engineered to quickly interchange inserts while tool body can remain mounted in CNC machine. This minimizes downtime and helps to maintain consistent cutting accuracy. CNC Tool bodies are expertly balanced for virtually no vibration to provide superior cutting results.

For lettering, engraving, signmaking, fluting and decorative trimming.

Excellent For Cutting:

- · Hardwood/Softwood
- MDF
- Plastic
- Plywood



R	ØD	D1	В	Ød	L	Repl. Knife	Tool No.
1/8	7/8	5/16	1/4	1/4	2-7/8	RCK-471	RC-1053
1/8	7/8	5/16	1/4	1/2	3-5/16	RCK-471	RC-1056
3/16	7/8	7/16	3/8	1/4	2-7/8	RCK-472	RC-1054
3/16	7/8	7/16	3/8	1/2	3-5/16	RCK-472	RC-1057
1/4	7/8	9/16	1/2	1/4	2-7/8	RCK-473	RC-1055
1/4	7/8	9/16	1/2	1/2	3-5/16	RCK-473	RC-1058
5/16	7/8	11/16	5/16	1/4	2-7/8	RCK-474	RC-1060
5/16	7/8	11/16	5/16	1/2	3-5/16	RCK-474	RC-1061
3/8	7/8	13/16	3/8	1/4	2-7/8	RCK-475	RC-1062
3/8	7/8	13/16	3/8	1/2	3-5/16	RCK-475	RC-1063

NOTE: Due to very fine plunge point, bit is not guaranteed against breakage. Replacement parts: 1/4" Shank Tool Body #RC-1050; 1/2" Shank Tool Body #RC-1052; Torx key #5005; Screw #67110.

TRU POINT™ V-GROOVE New INSERT CNC SYSTEM







Solid Carbide • Single Flute • V-Groove Style

For lettering, engraving and signmaking.

Excellent For Cutting:

- Hardwood/Softwood
- MDF
- NDFPlastic
- Plywood



a°	ØD	D1	В	Ød	L	Repl. Knife	Tool No.
60°	7/8	9/16	1/2	1/4	2-7/8	RCK-464	RC-1064
60°	7/8	9/16	1/2	1/2	2-7/8	RCK-464	RC-1065
90°	7/8	7/8	3/8	1/4	2-7/8	RCK-465	RC-1066
90°	7/8	7/8	3/8	1/2	2-7/8	RCK-465	RC-1067

Replacement parts: 1/4" Shank Tool Body #RC-1050; 1/2" Shank Tool Body #RC-1052; Torx key #5005; Screw #67110.



CNC feed and speed available online

TRU POINT™ BALL NOSE INSERT CNC SYSTEM New

Solid Carbide • Single Flute • Ball Nose Style

For lettering, engraving, signmaking, and decorative trimming.

Excellent For Cutting:

- Hardwood/Softwood
- MDF
- Plastic Plywood





R	ØD	D1	В	Ød	L	Repl. Knife	Tool No.
1/8	7/8	1/4	3/16	1/4	2-7/8	RCK-476	RC-1092
1/8	7/8	1/4	3/16	1/2	2-7/8	RCK-476	RC-1093
3/16	7/8	3/8	15/64	1/4	2-7/8	RCK-477	RC-1094
3/16	7/8	3/8	15/64	1/2	2-7/8	RCK-477	RC-1095
1/4	7/8	1/2	5/16	1/4	2-7/8	RCK-478	RC-1096
1/4	7/8	1/2	5/16	1/2	2-7/8	RCK-478	RC-1097
5/16	7/8	5/8	25/64	1/4	2-7/8	RCK-479	RC-1098
5/16	7/8	5/8	25/64	1/2	2-7/8	RCK-479	RC-1099

Replacement parts: 1/4" Shank Tool Body #RC-1050; 1/2" Shank Tool Body #RC-1052; Torx key #5005; Screw #67110.

TRU POINT™ ROUNDOVER New **INSERT CNC SETS**



Solid Carbide • Single Flute • Roundover Style

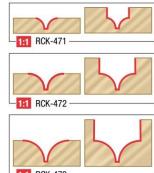
The 4-piece Tru Point Insert Roundover CNC System set contains a tool body (1/4" or 1/2" shank) along with solid carbide insert carbide knives with three different radius: 1/8", 3/16" and 1/4". Knives included are RCK-471, RCK-472 and RCK-473.

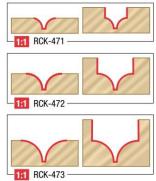
Description	Tool No.
4-Pc. Set includes RC-1050 1/4"shank tool body, solid carbide insert knife	#'s
RCK-471 (1/8" R), RCK-472 (3/16" R) and RCK-473 (1/4" R)	AMS-214
A-Do Sat includes BC-1052 1/2" shank tool body, solid carbide insert knife	#'e

RCK-471 (1/8" R), RCK-472 (3/16" R) and RCK-473 (1/4" R) AMS-216











→| d |<

1

RCK-479

RCK-478

RCK-477

D1 → – D –



TRU POINT™ ROUNDOVER New **INSERT CNC TOOL BODY**







INDUSTRIAL SIGNMAKING ROUTER BITS



CIC COLLECTIONS For Woodworking & Advanced Materials



















2-PC. SIGNMAKING/ **ENGRAVING**









1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Pack

Cut decorative carvings, V-Grooves and lettering on signs.

Includes Set No. 45704 (90°) & 45783 (18°) AMS-193

2-PC. CNC SIGNMAKING/ **ENGRAVING**







Set No.

AMS-196



1/8" & 1/4" Shank . Solid Carbide Router Bit Pack

Cut decorative carvings, V-Grooves and lettering on signs.

Includes 46180-K & 45624 (60°)

2-PC. CNC SPEKTRA™







1/4" Shank . Solid Carbide Router Bit Pack

SIGNMAKING

Designed for creating signs and other CNC projects in a variety of materials.

Includes Set No. 46202-K & 46170-K AMS-197-K

2-PC. CNC SPEKTRA™ **SIGNMAKING**









1/4" Shank . Solid Carbide Router Bit Pack

Cut decorative carvings, V-Grooves and lettering on signs.

Includes Set No. 46202-K & 45771-K (30°) AMS-115-K

2-PC. CARVING/ **ENGRAVING PACK**









1/4" Shank . Solid Carbide Router Bit Pack

Designed for creating signs and other CNC projects in a variety of materials.

Includes 45780-K (15°) & 45783 (18°)

2-PC. CARVING **2D/CORE BOX PACK**







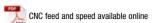




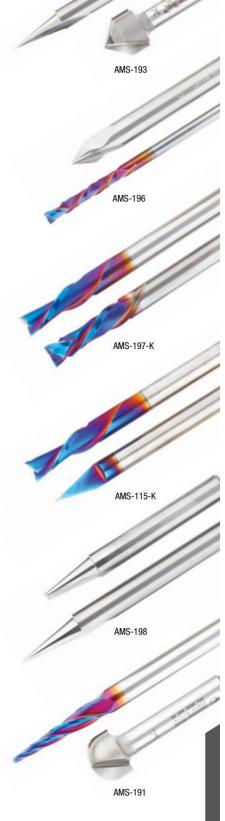
1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Pack

Cut decorative carvings and lettering on signs.

Includes Set No. 45910 & 46282-K AMS-191



















1/4" Shank . Solid Carbide Router Bit Pack

Cut decorative carvings, V-Grooves and lettering on signs.

Includes

Set No.

46170-K, 46202-K & 45771-K 45624-K, 46170-K & 46200-K AMS-114-K AMS-247-K



New 4-PC. CNC SIGNMAKING/ **ENGRAVING**





1/4" Shank . Solid Carbide Router Bit Pack

Cut decorative carvings, V-Grooves and lettering on signs.

Includes

Set No.

46202-K, 46202-K, 45771-K & 46294-K 46415-K, 45624-K, 46282-K & 46294-K

AMS-188-K AMS-314-K



New 5-PC. CNC SIGNMAKING/ **ENGRAVING**

Plastic ToolBox







1/8" Shank • Solid Carbide Router Bit Pack Cut decorative carvings and lettering on signs.

Includes

Set No.

46180-K, 46227-K, 51410-K, 51406-K, 46295-K & RB-102

AMS-112





New 3-PC.CNC STARTER SET









Designed specifically for a wide variety of applications.

1/4" Shank . Solid Carbide & Insert Carbide Router Bit Pack Packed In Stackable

Includes

Set No

46200-K, RC-45711, 46202-K



8-PC. CNC V-GROOVE, POINT ROUNDOVER & MULTI-PURPOSE









Includes

45704, 45705, 46376, 46102, 46282, 56125, 46202 & 46200

SEL NO. AMS-177



New 8-PC. CNC V-GROOVE, POINT ROUNDOVER & **MULTI-PURPOSE**





1/4" Shank • Solid Carbide Router Bit Collection

Also perfect for signmaking.



Designed specifically for a wide variety of applications Also perfect for signmaking. With Spektra™ Bits.

Includes

RC-45711, 45705, 46376-K, 46102-K, 46282-K, 56125, 46202-K & 46200-K AMS-177-K† RC-45711, 45705, 46376-K, 46102-K, 46282-K, 56125, 46202-K & 46200-K AMS-177-K-B* * Packaging: Cardboard box † Packaging: Wooden Box

For material cut list visit www.amanatool.com CNC feed and speed available online









3-PC. MATT'S CNC STARTER









1/4" Shank • Insert Carbide & Solid Carbide Router Bit Pack

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

For material cut list visit www.amanatool.com

Includes	Set No.
46202-K, 46200-K & RC-1148	AMS-119
46202-K, 46200-K & RC-1148	AMS-119-T ❖

Packaging: Stackable Plastic ToolBox













1/8" & 1/4" Shank • Insert Carbide & Solid Carbide Router Bit Pack

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

For material cut list visit www.amanatool.com

Includes

RC-1148, 46202-K, 46200-K & 46237-K

8-PC. ADVANCED







Set No.

AMS-109





For the most demanding signmaking, lettering and engraving tasks. Designed for creating signs and other CNC projects in a variety of materials.

Excellent For Cutting:

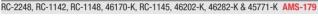
CNC STARTER

- · Aluminum, Brass, Bronze, Copper
- Carbon Fiber Laminate
- MDF
- MelaminePlastic/Acrylic
- Solid Surface
- Wood
- Veneered Plywood



Includes















1/4" Shank • Insert Carbide & Solid Carbide Router Bit Set

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- Carbon Fiber
- · Laminate
- MDF
- Melamine
- Plastic/Acrylic Solid Surface
- Wood
- Veneered Plywood



Includes 46201-K, 45225-K, 46202-K, 46170-K, 45771-K, RC-1145, RC-1148 & 46282-K AMS-230

8-PC. CNC







Set No.





1/4" Shank • Insert Carbide & Solid Carbide Router Bit Set

For material cut list visit www.amanatool.com

45771-K, 46282-K, 46292-K, 46577-K, 57363-K, 57360-K, 57361-K & RC-45711 AMS-265





INDUSTRIAL CNC ROUTER BIT SETS









AMS-230

46233-K, 46170-K, RC-1145 & RC-1148





AMS-155

AMS-155



New 4-PC. COLSON'S CHOICE CNC STARTER









1/4" Shank • Insert Carbide & Solid Carbide Router Bit Set

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Includes Set No.



4-PC. BRIAN'S CHOICE **CNC STARTER**







AMS-235

1/4" Shank • Insert Carbide & Solid Carbide Router Bit Pack

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Includes	Set No.
RC-1148, 46202-K, 46200-K & 45771-K	AMS-155 AMS-177



New 4-PC. JMC **CNC STARTER**









1/8" & 1/4" Shank • Insert Carbide & Solid Carbide Router Bit Pack

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Includes	Set No.
RC-1148, 46237-K, 46052-K & 45771-K	AMS-158



4-PC. X-CARVE® CNC STARTER

1/4" Shank • Insert Carbide &









Solid Carbide Router Bit Pack Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Includes	Set No.
RC-1148, 46202-K, 45771-K & 46282-K	AMS-102



Amana Tool®

3-PC. CNC STARTER







Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

1/4" Shank • Insert Carbide & Solid Carbide Router Bit Pack

Includes

iliciaacs	Jet No.
RC-1148, 46202-K & 45771-K	AMS-113
1/4" Shank • Solid Carbide Router Bit Pack	
Includes	Set No.
46225-K, 46202-K & 46170-K	AMS-234-K

For material cut list visit www.amanatool.com



CNC feed and speed available online

4-PC. CNC SIMULATED MDF SHAKER DOOR ROUTER





Set No.

Set No.

AMS-263

Set is designed to give the appearance of a Shaker door in MDF or solid panels. 1/4" & 1/2" Shank • Solid Carbide & Insert Cabide Router Bit Pack

Includes RC-1108, 46200-K, RC-2254, 45408-3, HMA-12 (1 Knives) AMS-262

1/4" Shank • Solid Carbide & Carbide Tipped Router Bit Pack Includes

46170-K, 45525, 45624-K, 46200-K

New



AMS-257

8-PC CNC GENERAL PURPOSE ROUTER







For the most demanding signmaking, lettering and engraving tasks. Designed for creating signs and other CNC projects in a variety of materials.





RC-45711, RC-1148, 46170-K, 46102-K, 46200-K, 46202-K, 46282-K, 45771-K AMS-257

8-PC. CNC **GENERAL PURPOSE III**









1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Collection

For the most demanding signmaking, lettering and engraving tasks. Designed for creating signs and other CNC projects in a variety of materials. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.



For material cut list visit www.amanatool.com

Includes

45707, 45701, 46201-K, 46202-K, 46200-K, 46282-K, 45771-K, 46376-K AMS-174 † 45707, 45701, 46201-K, 46202-K, 46200-K, 46282-K, 45771-K, 46376-K

† Packaging: Wooden Box * Packaging: Cardboard box

8-PC. CNC GENERAL PURPOSE







Set No.

1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Collection

This 1/4" shank collection was designed for CNC profiling, 2D and 3D profiling and carving in plastics, aluminum and wood. Also perfect for signmaking. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.



For material cut list visit www.amanatooi.com	
Includes	Set No.
45704, 45705, 46426, 46424, 46248, 46341, 46348, 46282	AMS-134 †
45704, 45705, 46426, 46424, 46248, 46341, 46348, 46282	AMS-134-B *

† Packaging: Wooden Box * Packaging: Cardboard box



AMS-174

AMS-134

8-PC. CNC GENERAL PURPOSE







1/2" Shank • Carbide Tipped, Solid Carbide & Insert Carbide Router Bit Collection

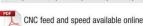
For the most demanding signmaking, lettering and engraving tasks. Designed for creating signs and other CNC projects in a variety of materials. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.



For material cut list visit www.amanatool.com

Includes

Set No. 45411, RC-1102, 46188, 46380, 46206, 46106, RC-2250 & RC-1076 (with RCK-360) AMS-170





INDUSTRIAL CNC ROUTER BIT SETS



8-PC. CNC STARTER SIGNMAKING









1/4" & 1/2" Shank • Carbide Tipped, Solid Carbide & Insert Carbide Router Bit Collection

Designed specifically for 2D/3D, signmaking, lettering and engraving applications.

Expand Your Creativity

The set is specially designed for creating signs and other CNC projects in a variety of materials. For the most demanding signmaking, lettering and engraving tasks.

Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- Carbon Fiber
- Laminate MDF
- MelaminePlastic/Acrylic
- Solid Surface
- Wood
- Veneered Plywood

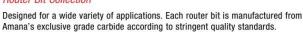


Angle	Dia.	Cut Height	Shank	Length	Туре	Includes
60°	1/2	5/8	1/4	1-3/4	V-Groove	45705
7.5°	3/16	1/2	1/4	1-11/16	V-Groove	45780
_	1/4	5/8	1/4	2	Aluminum '0' Flute	51402
_	1/4	3/4	1/4	2	Aluminum '0' Flute	51404
_	1/4	1/2	1/4	2-1/2	Spiral Ball Nose	46426
45°	13/16	7/8	1/2	2-3/8	Insert V-Groove	RC-1045
90°	1-1/2	3/4	1/2	3	Insert V-Groove	RC-1102
	_	78—27	In-Gr	oove™ with	30° V-Tip Insert Knife	RC-1075
			Compl	ete 8-Pc Set		AMS-130



8-PC. CNC STARTER

1/4" Shank • Carbide Tipped. Solid Carbide & Insert Carbide Router Bit Collection



Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- Carbon Fiber
- Laminate
- MDF
- Melamine
- Plastic/Acrylic Solid Surface
- Veneered Plywood



Includes Set No. 43608, 51402, 51421, 46438, 51454, 46170-K, RC-2245 & 45210 AMS-164

4-PC. CNC STARTER

1/4" Shank . Solid Carbide & Insert Carbide Router Bit Pack









Set No. AMS-237

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Excellent For Engraving:

- Laminate
- MDF
- Melamine
- Plastic/AcrylicSolid Surface
- Wood
- · Veneered Plywood

Includes
46202-K, 45771-K, RC-1148 & RC-2265







5-PC. CNC STARTER ENGRAVING







1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Collection

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Excellent For Engraving:

- ACM
- · Aluminum, Brass, Bronze, Copper
- Composite
- Fiberglass Foam
- Laminate • MDF
- Plastic/Acrylic
- Wood Veneered Plywood





Set No

AMS-127

Includes 46282, 46286, 46102, 45705 & 45700

8-PC. CNC STARTER SIGNMAKING II









1/4" Shank • Carbide Tipped, Solid Carbide & Insert Carbide Router Bit Collection

Designed specifically for 2D/3D, signmaking, lettering and engraving applications.

Expand Your Creativity

The set is specially designed for creating signs and other CNC projects in a variety of materials. For the most demanding signmaking, lettering and engraving tasks.

Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- · Carbon Fiber Laminate
- Melamine
- Plastic/Acrylic Solid Surface
- Wood
- Veneered Plywood

Includes Set No. 51404, 45226, RC-2248, RC-1145, 46374, 46284, 51402 & 46202















Designed specifically for 2D/3D, signmaking, lettering and engraving applications.

Expand Your Creativity

This signmaking collection is specially designed for creating signs and other CNC projects in a variety of materials. For the most demanding signmaking, lettering and engraving tasks.

Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper & Titanium
- Dibond®
- Fiberglass
- Fiberglass PCB Board
 Foam Board
- · Graphite
- HDPE
- Laminate
- MDF/HDF
- Phenolic CompositesSign Foam, Sign Board & HDU
- Wood
 - · 20lbs High Density Polyurethane

Angle	Dia.	Radius	Cut Length	Shank	Length	Type	Tool No.
_	1/2	1/4	3/8	1/2	2-1/8	Core Box	45912
-	1-1/2	_	5/8	1/2	2-3/4	Mortising	45566
7.5°	3/16	-	1/2	1/4	1-11/16	V-Groove	45780
90°	5/8	·	1/2	1/2	2	V-Groove	45712
_	1/8	· —	1/2	1/4	2	Spiral Plunge	46200
_	1/4	79—9	1	1/4	2-1/2	Spiral Plunge	46415
5.4°	1/16	1/32	1	1/4	3	2D/3D Carve	46282
0.10°	1/4	1/8	1-1/2	1/4	3	2D/3D Carve	46294
Complete 8-Pc Set					AMS-133		



AMS-127





AMS-131





AMS-133







AMS-169

New 10-PC. CNC

SIGNMAKING IV









1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Collection

Excellent For Cutting:

- · Aluminum, Brass,
- Bronze, Copper

 Carbon Fiber

 Laminate
- Plastic/Acrylic
 Solid Surface
- Wood

Melamine



Includes 51404-K, 46202-K, 46170-K, 46180-K, 45771-K, RC-1148,

RC-1075, 46282-K & RB-102

Set No. AMS-169





New 5-PC. CNC SIGNMAKING V







1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Collection

Excellent For Cutting:

- · Aluminum, Brass,
- Bronze, Copper

 Carbon Fiber
- Laminate
- Melamine
- Plastic/Acrylic
 Solid Surface
- Wood
- · Veneered Plywood



Includes Set No. 45711-K, RC-1148, 46282-K, 46202-K & 46170-K AMS-175

18-PC. CNC ADVANCED SIGNMAKING







1/4" Shank • Carbide Tipped, Solid Carbide & Insert Carbide Router Bit Collection



Includes

Set No.

RC-45910, 56125, 45783, RC-45711, 45780, 45705, 45751, 45756, 46170, 46102, 46376, RC-2248, 51454, 51411, 46282, 51404, 51402 & RC-1075 (with RCK-360) AMS-132 For material cut list visit www.amanatool.com.

8-PC. CNC ARTIST SIGNMAKING







1/4" Shank • Carbide Tipped & Solid Carbide Router Bit Collection

Excellent For Cutting:

- · Aluminum, Brass. Bronze, Copper
- Carbon Fiber
- Laminate MDF
- Melamine
- Plastic/Acrylic
- Solid Surface
- Wood



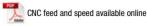
Set No. AMS-178

46369, 45226, 45704, 46282, 45200, 46102, 45783 & RC-1075



AMS-132





4-PC. CNC V-GROOVE 2D/3D SIGNMAKING.









See page 51 for material cut list.

▲ Warning: For maximum RPM visit www.amanatool.com



Includes	Set No
RC-1145 (45°), RC-1148 (60°), RC-1142 (90°) & RC-1146 (120°)	AMS-22



AMS-225

3-PC. CNC V-GROOVE 2D/3D SIGNMAKING,

LETTERING AND ENGRAVING

1/2" Shank • Insert Carbide Router Bit Pack

See page 51 for material cut list.

▲ Warning: For maximum RPM visit www.amanatool.com

Includes	Set No.	
RC-1145 (45°), RC-1148 (60°) & RC-1142 (90°)	AMS-153	



AMS-153

3-PC. CNC V-GROOVE 2D/3D SIGNMAKING, LETTERING AND ENGRAVING

1/2" Shank • Insert Carbide Router Bit Pack

See page 51 for material cut list.

▲ Warning: For maximum RPM visit www.amanatool.com

Includes	Set No.
RC-1045 (45°), RC-1108 (60°) & RC-1102 (90°)	AMS-157



AMS-157

4-PC. CNC V-GROOVE 2D/3D SIGNMAKING, LETTERING AND ENGRAVING

1/2" Shank • Insert Carbide Router Bit Collection

See page 51 for material cut list.

▲ Warning: For maximum RPM visit www.amanatool.com



Includes	Set No.
RC-1045 (45°), RC-1108 (60°), RC-1102 (90°) & RC-1104 (120°)	AMS-150

Visit website for additional sets.





AMS-150

INDUSTRIAL CNC ROUTER BIT SETS



AMS-128







New 8-PC. CNC ADVANCED MASTER COLLECTION







1/4" Shank • Solid Carbide & Insert Carbide Router Bit Collection

Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- Laminate MDF
- Melamine
- Plastic/AcrylicSolid SurfaceWood
- Veneered Plywood



Includes

46448-K, 46200-K, 46202-K, 45771-K, 51404-K, 51402-Z, RC-1148 & RC-2265

AMS-261

8-PC. CNC V-CARVING

1/4" Shank . Carbide Tipped & Solid Carbide Router Bit Collection









Set No.

Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- Carbon Fiber
- Laminate MDF
- Melamine
- Plastic/Acrylic
- Solid Surface Wood
- Veneered Plywood



Includes

Set No.

45783, 45780, 45771, 45700, 45705, 46280, 46282 & RC-1075 (with RCK-360) AMS-128

8-PC. V-GROOVE FOR **ACM PANELS**









1/4" Shank • Insert Carbide, Carbide Tipped & Solid Carbide Router Bit Collection

For Scoring Aluminum Composite Materials Including:

- Aluminum, Clay, Zinc & Wood Composite Panels
- Aluminum Composite Material (ACM)
- Aluminum Composite Panel (ACP)
 ALPOLIC® Copper
- Composite Material (CCM)
- Alucobond®
- Alupanel[®]

- Dibond® Durabond
- e-panel"
- Etalbond®
- Phenolics
- Plastic/Acrylic Plexiglas[®]
- Titanium Composite Material (TCM)
- Wood



Includes

Set No.

45792, 45795, 45798, 45745, 45762, RC-45716, 51402 & 51502 AMS-151

10-PC. CNC 3D, SIGNMAKING, LETTERING AND ENGRAVING

1/2" Shank • Carbide Tipped, Solid Carbide & Insert Carbide Router Bit Collection

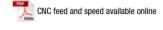
Excellent For Cutting:

- Aluminum, Brass. Bronze, Copper
- Carbon Fiber
- Laminate
- MDF Melamine
- Plastic/Acrylic Solid Surface
- Wood
- Veneered Plywood



Includes

RC-2250, RC-1045, 45733, 45422, 46206, 46380, 46190, 45912, RC-1102 & RC-1076 (with RCK-360)



18-PC. CNC ADVANCED GENERAL PURPOSE

1/2" Shank . Carbide Tipped, Solid Carbide & Insert Carbide Router Bit Collection







Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- Aluminum Composite Material (ACM)
- Aluminum FoamCore
- · Carbon Fiber
- Durabond
- FiberglassFiberglass PCB Board
- Laminate
- Melamine MDF/HDF
- · Plastic/Acrylic · Sign Foam, HDU
- Solid Surface Titanium
- Wood
- Veneered Plywood
- Xanita® Lightboard™ and X-Board™







Set No.

RC-2250, RC-1045, RC-1108, RC-1102, 45733, 45794, 45408, 45418, 45422, 45426, 46106, 46206, 46174, 46188, 46356, 45932, 46380 & RC-1076 (with RCK-360) AMS-139

18-PC. CNC SPECIALTY MULTI-MATERIAL

1/8" Shank . Solid Carbide Router Bit Collection











Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper
- ACM
- Aluminum FoamCore
- · Carbon Fiber
- Composite
- Corrugated Polyproplene
- Durabond
- Fiberglass
- Fiberglass PCB BoardFoamCore
- Gatorfoam® Graphite
- Laminate
- Melamine
- MDF/HDF · Phenolic Composites
- Plastic/Acrylic Sign Foam, HDU
 Solid Surface
- Steel
- Titanium
- Wood
- Veneered Plywood
- Xanita® Lightboard™ and X-Board™





Includes

Set No.

51470, RB-102(2), 51471, 51506, 51461, 46291, 46295, 51415, 51410(2), 51510, 46269, 46373,46260, 46180(2), 46127, 46227 & 46240

18-PC. CNC SPECIALTY MULTI-MATERIAL

1/4" Shank . Solid Carbide & Insert Carbide Router Bit Collection











Includes

Set No.

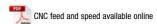
51464, 51454, 51402, 51411, 51404, 46272, 45762, 46280, 46282, 46426, 46094, 46376, 46102, 46100, 46202, 46200, 46170 & RC-2249 For material cut list see above table (AMS-173 group).

AMS-176



INDUSTRIAL CNC ROUTER BIT SETS

AMS-176



Master CNC





Set #AMS-CNC-58

58-PC. CNC MASTER ADVANCED MATERIAL



Carbide Tipped, Solid Carbide & Insert Carbide Router Bit Collection

58 pieces of the most versatile CNC, industrial, high performance solid carbide, carbide-tipped and solid carbide insert router bits.

Stored in a freestanding or wall-mounted wood display with locking clear acrylic door that measures 27-1/2" H x 22-1/2" W x 6" D.

Excellent For Cutting:

- Aluminum, Brass, Bronze, Copper, Gold, Silver & Titanium
- ACM
- Aluminum FoamCore
- · Composite
- Corrugated Polypropylene
- Durabond® Fiberglass
- Fiberglass PCB Board
- FoamCore
- Gator Board

- GraphiteMelamine
- MDF/HDF
- Laminate
- · Phenolic Composites Plastic, Acrylic & Plexiglas®
- Sign Foam, Sign Board & HDU
 Solid Surface
- Steel and Stainless Steel
- Veneered Plywood
- Xanita® X-Board™ & Lightboard™

The Ultimate CNC Cutting Solution for Advanced Material Types!

CNC Cutting Solutions for Challenging Material Types

2D/3D Carving ZrN Coated

	curring and couldn't
46280	3D Carving Ball Nose 1/32" Dia., 6.2°
46282	3D Carving Ball Nose 1/16" Dia., 5.4°
46286	3D Carving Ball Nose 1/8" Dia., 3.6°
46284	3D Carving Ball Nose 1/8" Dia., 1°
46292	3D Carving Flat Bottom 1/8" Dia., 0.10°
46294	3D Carving Ball Nose 1/4" Dia., 0.10°
46490	3D Carving Extra-Long Ball Nose 1/4" Dia., 0.10°

Reduction Bushing 1/2" to 1/4"

Ball Nose

RB-116

46424	Spiral 3/16" Dia., 3/32" Radius
46426	Spiral 1/4" Dia., 1/8" Radius
46376	Spiral 1/4" Dia., 1/8" Radius
46380	Spiral 1/2" Dia., 1/4" Radius
46384	Spiral 1/2" Dia., 1/4" Radius

MDF/Laminate

46180	Compression Spiral 1/8" Dia., 13/16" Cut Length
RB-102	Reduction Bushing 1/4" to 1/8"
46170	Compression Spiral 1/4" Dia., 7/8" Cut Length
46172	Compression Spiral 3/8" Dia., 1-1/4" Cut Length
RB-122	Reduction Bushing 1/2" to 3/8"
46188	Compression Spiral 1/2" Dia., 1-1/4" Cut Length

Set Includes:

- Top selling 58 SKUs
- · Plywood veneer lockable cabinet
- Plastic bushings keep bits straight & rust-free
- · Locking acrylic cabinet door
- · Bits are organized by material-type for easy tool selections

Plastic 'O' Flute

51410	Spiral 1/8" Dia., 1/2" Cut Length
RB-102	Reduction Bushing 1/4" to 1/8"
47640	1/4" Extension Adapter, 1/2" Shank
51411	Spiral 1/8" Dia., 1/2" Cut Length
51417	Spiral 3/16" Dia., 5/8" Cut Length
51404	Spiral 1/4" Dia., 3/4" Cut Length
51405	Spiral 1/4" Dia., 1" Cut Length
51504	Spiral 1/4" Dia., 3/4" Cut Length
43500	Straight 1/8" Dia., 1/2" Cut Length

Aluminum 'O' Flute

rudiiiiii	ann o mato
51406	Spiral 1/8" Dia., 5/16" Cut Lengtl
RB-102	Reduction Bushing 1/4" to 1/8"
51474	Spiral 1/8" Dia., 1/4" Cut Length
51454	Spiral 1/8" Dia., 1/2" Cut Length
51408	Spiral 3/16" Dia., 1/2" Cut Lengtl
51502	Spiral 1/4" Dia., 5/8" Cut Length
51402	Spiral 1/4" Dia., 5/8" Cut Length

Steel Cutting Aluminum Titanium Nitride (AITIN) Coated AITIN COATED BITS

Milliuc	(17111114)	ova	LGU	A	IIN A	JOHILD DI
51460	Spiral	1/8"	Dia.,	3/8"	Cut	Length
51464	Spiral	1/4"	Dia.,	5/8"	Cut	Length
51467	Spiral	3/8"	Dia.,	1/2"	Cut	Length

Aluminum Composite Material (ACM)

45798 135° V-Groove, 23/32" Dia. 45792 90° V-Groove, 1/2" Dia. 45795 108° V-Groove, 1/2" Dia.

Signmaking

45783	18° Carving Liner, 1/4" Dia.
RC-1075	1/4" Shank CNC Tool Body
RCK-360*	30° V-Groove Solid Carbide Insert Knife
RC-1045*	45° Insert CNC V-Groove, 13/16" Dia.
RC-1108*	60° Insert CNC V-Groove, 1-1/32" Dia.
RC-1102*	90° Insert CNC V-Groove, 1-1/2" Dia.

Wood/MDF

RC-2250*	Mini Insert Spoilboard 1-1/2" Dia.			
46102	Spiral Flute Plunge 1/4" Dia., Up-Cut			
46202	Spiral Flute Plunge 1/4" Dia., Down-Cut			
-				

Foam

46270 Spiral 1/8" Dia., 1-1/8" Cut Length Spiral 1/4" Dia., 2-1/4" Cut Length 46272

Composites, ZrN Coated



^{*} Items are from Amana Tool® Industrial Division

INDUSTRIAL CNC ROUTER BIT SETS



Set #AMS-CNC-60 New

57-PC. CNC MASTER ROUTER BIT COLLECTION

LED Illuminated, Mirrored Interior and Solid Wood Display











Stored in a freestanding or wall-mounted wood display with locking clear acrylic door that measures 27-1/2" H x 22-1/2" W x 6" D.

The Ultimate CNC Cutting Solution for Advanced Material Types!

CNC Cutting Solutions for Challenging Material Types

Excellent For Cutting:

- · Aluminum, Brass, Bronze, Copper, Gold, Silver & Titanium
- ACM
- Aluminum FoamCore
- Composite
- · Corrugated Polypropylene
- Durabond®
- Fiberglass Fiberglass PCB Board
- FoamCore
- **Gator Board**
- Graphite
- MelamineMDF/HDF

57 pieces of the most versatile CNC, industrial, high performance solid carbide, carbide-tipped and solid carbide insert router bits. Router bits feature superior cutting edges, Spektra™ coating or mirror-like finish (on some of the tools), balancing, carbide of different grades for different materials/applications and excellent tool design to allow for repeat sharpening, 57 pieces of the most versatile CNC industrial quality high performance solid carbide carbide tipped and solid carbide insert router bits.

- Laminate
- Phenolic Composites
- Plastic, Acrylic & Plexiglas®
- . Sign Foam, Sign Board & HDU
- Solid SurfaceSteel and Stainless Steel
- Veneered Plywood
- Wood
- Xanita® X-Board™ & Lightboard™

2D/3D Carving Spektra™ Coated



46280-K 3D Carving Ball Nose 1/32" Dia., 6.2° 46282-K 3D Carving Ball Nose 1/16" Dia., 5.4° 46286-K 3D Carving Ball Nose 1/8" Dia., 3.6° 46284-K 3D Carving Ball Nose 1/8" Dia., 1° 46294-K 3D Carving Ball Nose 1/4" Dia., 0.10° 46490-K 3D Carving Extra-Long Ball Nose 1/4" Dia., 0.10° **RB-116** Reduction Bushing 1/2" to 1/4"

Ball Nose

46424 Spiral 3/16" Dia., 3/32" Radius 46426 Spiral 1/4" Dia 1/8" Radius 46376-K Spiral 1/4" Dia., 1/8" Radius 46380-K Spiral 1/2" Dia., 1/4" Radius 46460 Spiral 1/2" Dia., 1/16" Radius

MDF/Laminate

46180-K Compression Spiral 1/8" Dia., 13/16" Cut Length RB-102 Reduction Bushing 1/4" to 1/8" 46170-K Compression Spiral 1/4" Dia., 7/8" Cut Length 46172-K Compression Spiral 3/8" Dia., 1-1/4" Cut Length **RB-122** Reduction Bushing 1/2" to 3/8" Compression Spiral 1/2" Dia., 1-1/4" Cut Length

Set Includes:

- Top selling 57 SKUs
- · Plywood veneer lockable cabinet
- · Plastic bushings keep bits straight & rust-free
- · Locking acrylic cabinet door
- · Bits are organized by material-type for easy tool selections

Plastic '0' Flute



51410-K Spiral 1/8" Dia., 1/2" Cut Length Reduction Bushing 1/4" to 1/8" RB-102 47640 1/4" Extension Adapter, 1/2" Shank 51411-K Spiral 1/8" Dia., 1/2" Cut Length Spiral 3/16" Dia., 5/8" Cut Length 51417-K 51404-K Spiral 1/4" Dia., 3/4" Cut Length 51405-K Spiral 1/4" Dia., 1" Cut Length 51504-K Spiral 1/4" Dia., 3/4" Cut Length Straight 1/8" Dia., 1/2" Cut Length 43500

Aluminum '0' Flute ZrN Coated





Steel Cutting Aluminum Titanium Nitride (AITIN) Coated AITIN COATED BITS

51460 Spiral 1/8" Dia., 3/8" Cut Length 51464 Spiral 1/4" Dia., 5/8" Cut Length 51593 Spiral Multi Helix 1/4" Dia., 5/8" Cut

Aluminum Composite Material (ACM)

45792 90° V-Groove, 1/2" Dia. 45795 108° V-Groove, 1/2" Dia

Signmaking

45783 18° Carving Liner, 1/4" Dia RC-1075 1/4" Shank CNC Tool Body RCK-360*

30° V-Groove Solid Carbide Insert Knife RC-1045* 45° Insert CNC V-Groove 13/16" Dia 60° Insert CNC V-Groove, 1-1/32" Dia. RC-1102* 90° Insert CNC V-Groove, 1-1/2" Dia. 45624 60° V-Groove, 1/4" Dia.

RC-2250* Mini Insert Spoilboard 1-1/2" Dia. 46102 Spiral Flute Plunge 1/4" Dia., Up-Cut Spiral Flute Plunge 1/4" Dia., Down-Cut 46202

Foam

46270 Spiral 1/8" Dia., 1-1/8" Cut Length 46272 Spiral 1/4" Dia., 2-1/4" Cut Length

Composites

Wood/MDF

46308 Honeycomb Spiral 3/8" Dia., 1-1/4" Cut **RB-122** Reduction Bushing 1/2" to 3/8" 46306 Honeycomb Hogger Spiral 1/4" Dia. **RB-116** Reduction Bushing 1/2" to 1/4" 46094-K Composites Spiral 1/4" Dia., 1/4" Cut

INDUSTRIAL CNC ROUTER BIT SETS

^{*} Items are from Amana Tool® Industrial Division





CNC HIGH PRECISION TOOL HOLDER EXTENSIONS

With Spring Collet . Heat Treated Alloy Steel

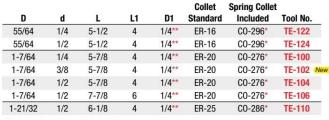
ER collet chucks used for different projects and applications, save money by not purchasing extra-long tools! Choose the correct size spring collet for your bit, set the tool depth and tighten the collet nut using the mini wrench. Have the extra reach you need at economical prices.

- 1/4" inner diameter spring collet included.
- ER mini nut and spring collet included with each ER straight shank tool extension, ideal for hard to reach surfaces.
- Shank to pocket run-out 0.0004" (0.01mm).
- Precision ground for best Total Indicator Run-out (TIR).
- · Spring collets can easily be changed.
- Black oxide finish for corrosion protection.
- Max RPM = 10,000 for safe operation.









^{*} Spring collet and wrench included.

Wrench WR-120 included for TE-100, TE-104, TE-106; Wrench WR-102 included for TE-110.

^{**} For different inner diameter spring collets, please see pages 62-63.









▲ Warning: Maximum RPM=8,000

Total Indicated Run-out (TIR) is 0.00118" (0.03mm)

Replacement screws: 67075 (2). Replacement wrench: 5004.

CNC NARROW REACH TOOL HOLDER EXTENSIONS

Side Lock with Key

- · For use with high precision spring collets
- · Precision ground for best TIR
- · Black oxide finish for corrosion protection
- Max RPM = 10,000 for safe operation . Shank to pocket run-out 0.0004" (0.01mm)



Replacement screws for TE-130 & TE-132: 67214.

Replacement screws for TE-134, TE-136, TE-138 & TE-139: 67215.

INDUSTRIAL CNC ACCESSORIES 79





ISO Tool Holder with Pull Stud for Morbidelli & SCM Machines

ØD	Adapter Standard	В	Collet Standard	Tool No.
50mm(2)	IS030	55mm(2-5/32)	ER32	H0-112

ISO Tool Holder with Tapered Flange for Thermwood Machines

ØD	Adapter Standard	В	Collet Standard	Tool No.
50mm(2)	IS030	58mm(2-9/32)	ER32	H0-117 New

ISO Tool Holder

ØD	Adapter Standard	В	Collet Standard	Tool No.
50mm(2)	IS030	50mm(2)	ER32	HO-116
50mm(2)	IS040	63mm(2-15/32)	ER32	H0-124

HSK Tool Holder

ØD	Adapter Standard	В	Collet Standard	Tool No.
50mm(2)	HSK63F	68mm(2-11/16)	ER32	H0-132
63mm(2-15/32) HSK63F	68mm(2-11/16)	ER40	HO-136

HSK Tool Holder for Homag, Weeke, Anderson, CR Onsrud & IMA Machines

ØD	Adapter Sta	ndard	В	Collet Standard	Rotation	Tool No	
60mm(2-3/8)	HSK63F	78mm	(3-1/16)	E0C25/SY0Z25	RH	H0-137	New
60mm(2-3/8)	HSK63F	78mm	(3-1/16)	E0C25/SY0Z25	LH/RH	HO-138	New
60mm(2-3/8)	HSK63F	115mm	(4-17/32)	E0C25/SY0Z25	LH/RH	H0-139	New

HSK Shrink Fit Chuck Tool Holder

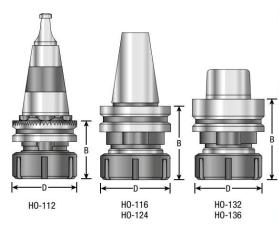
ØD	Adapter Standard	В	Collet Standard	Rotation	Tool No.
63mm(2-15/32	2) HSK63F	76mm(3)	ER32	LH/RH	H0-162 New

HSK Tool Holder for Multicam Machines

ØD	Adapter Standard	В	Collet Standard	Tool No.
22mm(7/8)	HSK25E	40mm(1-9/16)	ER16 Mini	H0-145 New
42mm(1-5/8)	HSK25E	60mm(2-3/8)	ER25	H0-143 New

HSK Tool Holder

ØD	Adapter Standard	В	Collet Standard	Tool No.
50mm(2)	HSK63E	76mm(3)	ER32	H0-147 New
62mm/2 15/20) HCKCOE	76mm/2\	ED40	UO 140 No.





CNC CLEANUP KIT New

For a perfect maintenance and cleaning of your CNC router or machining centers.

Ensures extreme cleanliness of tapered spindles and it maintains the precision and prolongs the life of your expensive machines, cutting tools and toolholders.

Set Includes:

- Cone and spindle wiper for tool holder.
- . Collet wiper to avoid wrong positioning of the collet.
- 4 brushes kit for collet bore.

Fits	1001 No.
HSK63F/ER32	CUP-32
HSK63F/ER40	CUP-40

UNIVERSAL ADJUSTABLE AUTO-LOCKING STAND FOR ISO30 AND HSK63F CHUCKS

Adjustable from 0° to 90°

For ISO30 Tool Holders with 50mm flange.

- . Tool Holder to be locked on the flange diameter
- · Roller-bearing design
- · Fastest tool change
- · Bolts right to workbench



Router bit, wrench and tool holder sold separately.

Fits Amana Tool No.	Description	Tool No.
-	For HSK32 Tool Holders with 32mm Flange	UHO-32 New
	For HSK40 Tool Holders with 40mm Flange	UHO-40 New
HO-112 and HO-116	For ISO30 Tool Holders with 50mm Flange	UHO-50
HO-132 and HO-136	For HSK63F Tool Holders with 63mm Flange	UHO-63





BT 40 HIGH PRECISION ER COLLET CHUCK TOOL HOLDERS

Made from alloy steel hardened to 54 - 56rc

- . Balanced to G2.5 at 25,000 RPMs
- · Coolant thru capability
- . Concentricity is less than .0002 at collet face Adapter

ØD	В	Standard	Standard	L	Thread	Tool No.
28mm	70mm	BT 40	ER16	135.4mm	M16x2.0	H0-164
34mm	80mm	BT 40	ER20	145.4mm	M16x2.0	H0-172
34mm	100mm	BT 40	ER20	165.4mm	M16x2.0	H0-174
42mm	80mm	BT 40	FB25	145 4mm	M16x2 0	HO-178

Callet

• Rear thread for pull stud is M16 x 2.0

• Rear thread for pull stud is 5/8 - 11

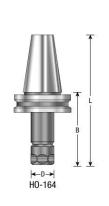
· Spring collet not included

203.4mm

5/8-11

HO-220

· Spring collet not included





CAT 40 HIGH PRECISION ER COLLET CHUCK TOOL HOLDERS

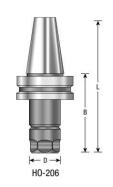
Made from alloy steel hardened to 54 - 56rc

- · Balanced to G2.5 at 25,000 RPMs
- · Coolant thru capability
- . Concentricity is less than .0002 at collet face

4.0

Collet Adapter ØD Standard Standard Thread Tool No. 35mm 2.5 **CAT 40** ER20 165.1mm 5/8-11 HO-206 35mm CAT 40 ER20 H0-208 4.0 203.4mm 5/8-11 42mm 4.0 **CAT 40** ER25 203.4mm 5/8-11 HO-214 50mm **CAT 40**

ER32





INDUSTRIAL CNC ACCESSORIES



ADJUSTABLE TORQUE WRENCHES New FOR STANDARD COLLETS

Tool Body In Light Alloy With Wrench

Adjustable torque wrench is suitable for fastening and tightening nuts and spring collets properly Use them every day in order to reach a longer tool life and better cutting performance. While setting a tool it is extremely important to tighten it appropriately. If not effectively tight indeed, cutting tool could slide away from the tool holder during the working process. On the other side an excessive tightening can cause damages to the tool holder or spring collet or the

The wrench indicates when the torque (Nm) is reached with a strong noise according to the value in the corresponding table.

D	L	Nm (Dr1)	Nm (Dr2)	Ft/lb	ER Collet No.	Tool No.
35mm	13-3/8	40 - 70	60 - 70	30 - 51	ER20	ATW-20
42mm	15-1/2	55 - 90	80 - 90	40 - 66	ER25	ATW-25
50mm	15-1/2	70 - 130	120 - 130	51 - 95	ER32	ATW-32
63mm	17-3/4	120 - 200	190 - 200	88 - 147	ER40	ATW-40



CNC LOCKNUT WRENCHES

For ER Tool Holders

For Collet Locknut No.	Tool No.
ER50	WR-112
ER40	WR-104
ER32	WR-100
ER25	WR-102
ER20	WR-106
ER16	WR-108
ER11	WR-110
ER8	WR-114
ER20M	WR-120
ER16M	WR-122
ER11	WR-111 New
ER25M	WR-103 New
ER8	WR-115 New



CNC MINI LOCKNUT WRENCH

For ER Collet Holder Extensions

For use with ER Collet Holder Extension No.	For Use With	Tool No.
TE-100, TE-102, TE-104 & TE-106	ER-20M	WR-120
TE-122, TE-124	ER-16M	WR-122



DUST AND CHIP EXTRACTION NUT SYSTEM New

Tool Body In Light Alloy With Wrench

Dust and extractor tool will help evacuate both dust and chips during nesting and conventional CNC routing operations. Easy to assemble directly on the collet chuck instead of the standard nut, also provides a big improvement of dust evacuation, removing it from the work piece directly into the centralized extraction system of the CNC machine.

Special surface hardening treatment for longer perfomance and coating against wear and corrosion. Suitable for every type of collet chucks (ISO, BT, HSK...) using standard router bits (no adaptors needed). Balanced at G2,5.

Optimal gap between dust collector and material is 2mm. Works properly up to 10mm.



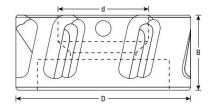
→ Optimal Gap 2mm

D	d	В	Collet	Tool No.
92mm	M 40x1.5	42mm	ER-32	DCE-01
92mm	M 40x1.5	42mm	ER-40	DCE-03
98mm	M 40x1.5	42mm	ER-32	DCE-05

▲ Warning: Maximum tool diameter: ø98 = 77mm and ø92 = 68mm

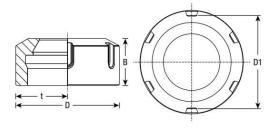
▲ Warning: Maximum speed rotation up to 20,000 RPM





CNC COLLET NUTS FOR STANDARD ER New

ØD	ØD1	В	t (Thread)	Collet No.	Tool No.
13mm	12mm	11.3mm	M10 x 0.75	ER8	CON-ER8
12mm	9mm	10.8mm	M10 x 0.75	ER8M	CON-ER8M
19mm	17mm	11.3mm	M14 x 0.75	ER11	CON-ER11
16mm	12mm	12mm	M13 x 0.75	ER11M	CON-ER11M
28mm	25mm	17.5mm	M22 x 1.5	ER16	CON-ER16
22mm	16.9mm	18.4mm	M19 x 1.0	ER16M	CON-ER16M
35mm	30mm	19mm	M25 x 1.5	ER20	CON-ER20
28mm	22.5mm	19mm	M24 x 1.0	ER20M	CON-ER20M
42mm	36mm	20mm	M32 x 1.5	ER25	CON-ER25
35mm	29mm	20mm	M30 x 1.0	ER25M	CON-ER25M
50mm	44mm	22.5mm	M40 x 1.5	ER32	CON-ER32
63mm	57mm	25.5mm	M50 x 1.5	ER40	CON-ER40
78mm	70.5mm	35.3mm	M64 x 2.0	ER50	CON-ER50













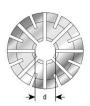
INDUSTRIAL CNC ACCESSORIES

CNC HIGH PRECISION SPRING COLLETS

All spring collets are inspected for quality and 100% accuracy. Standard 0.0004" Total Indicator Runout (TIR)

Amana Tool Corp. offers Metric and Inches high precision CNC Spring Collets in ER and RDO Styles. The high precision spring collets reduce the vibrations on the tools and motors, assure better results and prolong the life of the tools and electrospindles. Our high precision spring collets used on our high precision tool holders give you the very best tool performance.











ER-8 Spring Collet

D = 8 5mm

$\mathbf{D} = 8$.		
d	L	Tool No.
1/8	13.5mm	CO-442
3/16	13.5mm	CO-444



ER-11 Spring Collet

D = 11 5mm

- 11.0mm				
L	Tool No.			
18mm	CO-420			
18mm	CO-422			
18mm	CO-424			
	18mm 18mm			



ER-16 Spring Collet

D = 16.6 mm				
d L		Tool No.		
1/16	26mm	CO-290		
1/8	26mm	CO-292		
3/16	26mm	CO-294		
1/4	26mm	CO-296		
3/8	26mm	CO-298		



RDO-20, SYOZ-20 and EOC12 Spring Collet

D = 19.6mm				
d	L	Tool No.		
3-4mm	34mm	CO-411		
1/4	34mm	CO-410		
5/16	34mm	CO-412		
3/8	34mm	CO-414		
9-10mm	34mm	CO-415		
1/2	34mm	CO-416		



ER-20 Spring Collet

D = 20.7mm				
d	L	Tool No.		
1/16	32mm	CO-270		
3mm	32mm	CO-271		
1/8	32mm	CO-272		
4mm	32mm	CO-273		
3/16	32mm	CO-274		
6mm	32mm	CO-279		
1/4	32mm	CO-276		
8mm	32mm	CO-269		
3/8	32mm	CO-277		
9-10mm	32mm	CO-275		
1/2	32mm	CO-278		



ER-25 Spring Collet

D = 25.6mm d L

d	L	Tool No.
1/16	34mm	CO-280
1/8	34mm	CO-282
3/16	34mm	CO-284
5/16	34mm	CO-285
1/4	34mm	CO-286
9-10mm	34mm	CO-281
3/8	34mm	CO-287
1/2	34mm	CO-288
5/8	34mm	CO-289



ER-32 Spring Collet

D = 32.7 mm

U = 32.7111111						
d	L	Tool No.				
2-3mm	40mm	CO-100				
3-4mm	40mm	CO-104				
5-6mm	40mm	CO-112				
6-7mm	40mm	CO-116				
7-8mm	40mm	CO-120				
9-10mm	40mm	CO-130				
10-11mm	40mm	CO-134				
11-12mm	40mm	CO-138				
12-13mm	40mm	CO-142				
16-17mm	40mm	CO-158				
18-19mm	40mm	CO-166				
19-20mm	40mm	CO-170				
1/8	40mm	CO-194				
3/16	40mm	CO-196				
1/4	40mm	CO-174				
5/16	40mm	CO-175				
3/8	40mm	CO-178				
1/2	40mm	CO-182				
5/8	40mm	CO-186				
3/4	40mm	CO-190				



RDO-35, SYOZ-25 and E0C25 Spring Collet

 $\mathbf{D} = 35 \text{mm}$

8-	d	L	Tool No.
	1/8	52mm	CO-399
	1/4	52mm	CO-400
	3/8	52mm	CO-402
	1/2	52mm	CO-404
	5/8	52mm	CO-405
	3/4	52mm	CO-406



ER-40 Spring Collet

D = 40.8 mm

d	L	Tool No.
3-4mm	46mm	CO-200
6-7mm	46mm	CO-206
9-10mm	46mm	CO-212
10-11mm	46mm	CO-214
11-12mm	46mm	CO-216
12-13mm	46mm	CO-218
13-14mm	46mm	CO-220
15-16mm	46mm	CO-224
16-17mm	46mm	CO-226
17-18mm	46mm	CO-228
20-21mm	46mm	CO-234
25-26mm	46mm	CO-244
1/8	46mm	CO-262
3/16	46mm	CO-264
1/4	46mm	CO-246
3/8	46mm	CO-248
1/2	46mm	CO-250
3/4	46mm	CO-254



ER-50 Spring Collet

D = 52mm

d	L	Tool No.
1/4	60mm	CO-430
1/2	60mm	CO-432
3/4	60mm	CO-436





CNC HIGH PRECISION SPRING COLLET SETS

All spring collets are inspected for quality and 100% accuracy.



Tool No. CO-ER20

Includes 4 collets:

CO-272, CO-276, CO-277, CO-278



Tool No. CO-ER25

Includes 5 collets:

CO-282, CO-284, CO-286, CO-287, CO-288



Tool No. CO-ER32

Includes 4 collets:

CO-174, CO-178, CO-182, CO-190



Tool No. CO-ER40

Includes 4 collets:

C0-246, C0-248, C0-250, C0-254

RETAINING STUDS



For CNC Ma	achines			★	<u> </u>	
ØD	ØD1	L	G	Adapter	Tool No.	
Morbidelli, S	SCM					-
8.5mm(11/32)	6.5mm(1/4)	22mm(7/8)	M10	IS030	CO-300	
Busellato, V	Veeke, Bulle	eri, Maka				-5
13mm(1/2)	9mm(3/8)	24mm(15/16)	M12	IS030	CO-304	
Alberti, Vital 13mm(1/2) Biesse	p, Masterwo 9mm(3/8)	24mm(15/16)	M12	IS030	CO-312	
13mm(1/2)	9mm(3/8)	24mm(15/16)	M12	IS030	CO-328	
Biesse, Mas 12mm(15/32)	sterwood, To 8mm(5/16)	echno CNC 24mm(15/16)	M12	IS030	CO-332	

M12

BT30

CO-336

Visit www.amantool.com for more Retaining Studs.

9mm(3/8) 24mm(15/16)



INDUSTRIAL CNC ACCESSORIES

Komo 13mm(1/2)

CNC SAFETY

Instructions & Guidelines



Before operating your machine, read and understand the warnings on the machine from the manufacturer. Failure to comply could lead to serious personal injury and/or costly damage.



3. Always wear hearing protection, safety glasses or face shield, dust mask and safety clothing even during short periods of operation



5. Do not, under any circumstances, operate your machine while tired or under the influence of medication, alcohol or drugs.



2. Keep floor and area around the machine clean and free from scraps.



Clothing should not be loose, and sleeves should be rolled up past the elbows. Remove any wrist or hand jewelry. Use non-skid floor mats or non-slip footwear.



6. Before connecting your machine to the power supply, be sure that the switch is in the OFF position. All adjustments or maintenance should be done with machine unplugged from your power source.



For up to date Safety Guidelines in English, French and Spanish visit **www.amanatool.com/safety**

CNC SAFETY INSTRUCTIONS & GUIDELINES



Remove all tools and set-up gauges from the table before powering up your machine.



Always keep a safe distance from the work area while the machine is in operation.



Never leave machine running while unattended, always be close to the emergency STOP button and keep clear of any moving parts while machine is in operation.



13. Do not force a tool to do a job for which it was not designed.



For up to date Safety Guidelines in English, French and Spanish visit www.amanatool.com/safety



Keep safety guards in place at all times when machine is in use. 8. Always check for damage to the guards. If damaged, replace immediately.



For smaller size CNC machines we recommend the use of an enclosure, this will not only help contain dust and noise, but will add an extra layer of safety in the event anything flying off of the machine.



12. Use the correct tool at the correct speed and feed rate. The right tool will do a better job, too.



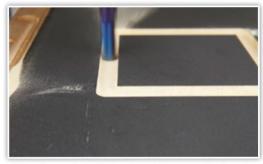
Never touch a cutting tool immediately after use, as it may be hot. Use caution when handling the collet and spindle nut. Keep an oven mitt or heavy glove handy.



CNC SAFETY INSTRUCTIONS & GUIDELINES



15. Keep bits clean and sharp for best results and performance. Do not use dull or damaged tools.



Plan your tool paths to make multiple passes rather than cut a large amount of material at one time. This will reduce heat and stress on the tool.



 Always secure your work piece to the spoilboard using clamps, vacuum or double-sided tape. Never try to hold any work piece on the table by hand.



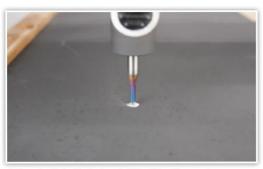
18. Make sure your stock is free of nails, screws, staples, grit or any other foreign objects, and free of any warping or twist.



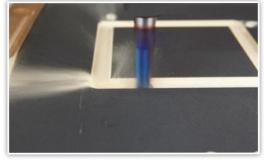
19. Make sure the collet is securely tightened after installing your cutting tool. Any unsecured cutting tool may fly loose from the collet and cause serious injury and damage.



20. Collets are critical and need to be replaced on an average of every 500 hours or when damaged.



Avoid dwelling in the cut. This will lead to premature tool wear and failure.



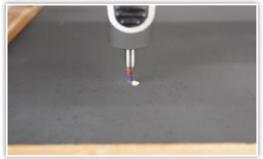
22. Plunge cutting is not always best. Whenever possible, you should ramp into the cut. This will eliminate heat being generated during the process and could also eliminate burn marks at the tip.



A

For up to date Safety Guidelines in English, French and Spanish visit **www.amanatool.com/safety**

CNC SAFETY INSTRUCTIONS & GUIDELINES



23. Drilling holes – Router bits were made for routing. Drills turn at a much lower RPM than routers do; router bits generate too much heat when drilling, use a bit around half the diameter of the hole you're pocketing for best chip evacuation and reduced heat buildup.



24. Over tightening of the collet – Collets are made of spring steel and are subject to distortion when put under undue pressure. It is always recommended that collets be tightened to the manufacturer's specifications with the use of a torque wrench.



25. Dust collection system and vacuum systems will aid in a fires speed travel. A tool left running in the same place for a sufficient amount of time, can and will start a fire. It is essential to never leave a CNC running without an operator.



26. Proper Tool Installation – To ensure proper fit and prevent unnecessary strain on the collet, use the collet designed to fit your shank diameter. The tool's flute should never extend into the collet and should always be inserted up to the straight line on the 'K' mark on all of the Amana Tools bits.



27. Never start the machine with the tool in contact with the work piece.

Straight Plunge



- Extra strong carbide, lasts 200% longer
- New generation of high wear outstanding carbide
- Superior geometric design provides super clean cuts
- Cost effective





Excellent For Cutting:

- Wood MDF
- Plywood







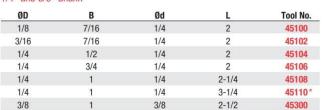
Amana Tool®

HIGH PRODUCTION STRAIGHT PLUNGE

Carbide Tipped . Single Flute

AMAX extended life carbide features a 200% longer tool life, a superior geometric design and super clean cuts in wood, MDF and plywood. Single flute is used when cut speed is more important than cut finish.





Specifically designed for air powered routers as used in the boat manufacturing industry.

1/2" Shank

ØD	В	Ød	L	Tool No.
1/4	3/4	1/2	2-1/2	45304
3/8	1	1/2	2-3/4	45302
5/16	3/4	1/2	2-1/2	45306
1/2	3/4	1/2	2-3/8	45307
1/2	1-1/4	1/2	2-7/8	45308
1/2	1-1/2	1/2	3-1/8	45310
1/2	2	1/2	4-1/4	45312
1/2	2-1/2	1/2	4-3/8	45313
9/16	1-1/4	1/2	2-7/8	45314

CNC HIGH PRODUCTION STRAIGHT PLUNGE OPEN FLUTE

Carbide Tipped • 2 Flute • 3/4" Shank

For high-volume production work. Long, 3/4" shanks extend the bits reach, enhancing its versatility. Open-flute design promotes rapid chip clearance, necessary for high feed rates. Right-hand configuration for standard clockwise rotation.

Left-hand configuration for counter-clockwise rotation "Topmaster" machines.





ØD	В	Ød	L	Configuration	Tool No.	
3/4	2	3/4	4	Right-Hand	45455	
3/4	2-1/2	3/4	4-1/2	Right-Hand	45456	
3/4	2-1/2	3/4	5	Left-Hand	45457	

Note: Chipbreaker option (special order): Designed to cut chipboard and MDF at high automatic feed rates found on CNC machines. Each flute is ground so that the chipbreakers are staggered to each other, giving a straight cut. To order, add 'CB' suffix (ie: #45454-CB).



CNC feed and speed available online

Wood

MDF

Plywood

HARDER CARBIDE FOR EXTENDED LIFE

HIGH PRODUCTION STRAIGHT PLUNGE Carbide Tipped • 2 Flute • 1/8" and 1/4" Shank Use a two-flute bit where fine finish is paramount. ØD В Ød Tool No. ØD Ød Tool No. L В L 1/16 3/16 1/8 1-1/2 3/8 1/4 2 45218S 1/16 3/16 1/4 1-5/8 45190~1 3/8 1/4 2-1/4 45218 5/64 3/16 1/4 1-3/4 45191~† 3/8 2-1/2 45220 1-1/4 1/4 3/32 1/4 1/8 1 - 1/246482++ 13/32 1 1/4 2-1/2 45193 3/32 1/4 1/4 1-3/4 45192~† 7/16 1/4 2-1/8 45222 1/8 7/16 1/8 1-1/245199++ 15/32 3/4 1/4 2 45223 3/4 45194 1/8 7/16 1/4 2 45200~† 31/64 1/4 2-1/4 5/32 7/16 1/4 2 45201~ 1/2 3/4 1/4 1 - 3/445224 2 3/16 7/16 1/4 45202~ 1/2 3/4 1/4 2-1/4 45224-01 3/16 2-3/16 5/8 1/4 45239 1/2 1/4 2-1/8 45226 → d l 13/64 3/4 1/4 2 45217 1/2 1 1/4 2-13/16 45244 7/32 3/4 1/4 2 45206 1/2 1-3/16 1/4 2-5/8 RC-45226 Set #AMS-103 15/64 3/4 1/4 2 45203 1/2 1-1/4 1/4 2-1/2 45245 1/4 1/2 1/4 2 45204 9/16 3/4 1/4 2-1/8 45227 1/4 3/4 1/4 2 45208 19/32 3/4 1/4 2-1/4 15238-01 DRB-420 1/4 3/4 1/4 3 3/4 45228 1/4 1 1/4 2-1/4 45210 5/8 1 1/4 2-1/4 45247 1/4 2-1/2 2-7/8 1/4 45210-01 5/8 1-1/4 1/4 45249 1 **Excellent For Cutting:** 1/4 1/4 3 11/16 3/4 1/4 2 45229 Wood 1/4 1/4 3-3/4 45210-3.75 23/32 3/4 1/4 2 45231 • MDF 1/4 1/4 2-7/8 45211 * 45230 Plywood 3/4 3/4 1/4 2 1/4 3-1/4 3/4 3/4 RC-1024 1/4 45205 * 1/4 2 D 9/32 3/4 1/4 2-1/4 45212 1 1/4 2-1/4 45251 9/32 1/4 3 45212-01 3/4 1/4 2-5/8 45251-01 1 1 5/16 3/4 1/4 2 45242 13/16 3/4 1/4 2 45232 8-Pc Set Includes Tool No. N 2-1/4 5/16 1/4 45214 7/8 3/4 1/4 2 45234 1/16), (1/8), (3/16), (1/4), 5/16 1/4 2-3/4 45214-01 3/4 1/4 2 45236 (3/8), (1/2), (5/8), (3/4) **AMS-103** 3/8 3/4 1/4 2 45216 Not guaranteed due to extremely small diameter. Polycrystalline Diamond (PCD) for extremely long life. 5-Packs Includes With solid carbide cutting edge. Replacement Knife #AMA-30 (tool #RC-45226 - single flute). Tool No. New Replacement Knife #AMA-12 (tool #RC-1024 - 2 flute). Not guaranteed due to extreme length 45210 (5 Pcs. each) 45210-5

HIGH PRODUCTION STRAIGHT PLUNGE

Carbide Tipped • 2 Flute • 3/8" Shank

Solid carbide

Two flute balances the bit, eliminating vibration that degrades the cut finish. Two cuts per revolution yield a smooth surface, but feed rate is slightly reduced.



翻(H)

ØD	В	Ød	L	Tool No.
3/8	1	3/8	2-1/2	45402
3/8	1-1/4	3/8	2-3/4	45400
3/8	1-1/4	3/8	3-3/8	45404
1/2	1	3/8	2-1/2	45406

HIGH PRODUCTION STRAIGHT PLUNGE

Solid Carbide • Single & 2 Flute

For high volume, high speed cutting in dense natural woods and abrasive wood composites, use solid carbide bits. Solid carbide dissipates heat more uniformly, extending tool life.

Single flute bits cut faster, with better chip clearance.

Two-flute bits cut more slowly, leaving a smoother finish

Two-flute bits cut more slowly, leaving a smoother finish.		<u> </u>	CNC		
ØD	В	Ød	L	Flute	Tool No.
1/16	3/16	1/4	1-1/2	1	43509 New
1/8	7/16	1/4	2	1	43700
3/16	7/16	1/4	2	1	43708
1/4	3/4	1/4	2	1	43716
1/4	1	1/4	2	1	43720
1/4	1	1/4	3	1	43724
5/32	7/16	1/4	2	2	43800
3/16	1/2	1/4	2	2	43808
1/4	1/2	1/4	2	2	43812
1/4	3/4	1/4	2-1/2	2	43820
1/4	1	1/4	2-1/2	2	43824
1/4	1	1/4	2-7/8	2	43828

▲ Warning: Maximum RPM=28,000



45200 (5 Pcs. each)

45200-5

HARDER CARBIDE FOR EXTENDED LIFE

2 43828 Single Flute 2 Flute

INDUSTRIAL STRAIGHT PLUNGE ROUTER BITS



5-Packs Includes	Tool No. New
45418 (5 Pcs. each)	45418-5
45422 (5 Pcs. each)	45422-5
45426 (5 Pcs. each)	45426-5

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HIGH PRODUCTION STRAIGHT PLUNGE

Carbide Tipped • 2 Flute • 1/2" Shank

AMAX extended life carbide features a 200% longer tool life, a superior geometric design and super clean cuts in wood, MDF and plywood.



ØD	В	Ød	L	Flute	Tool No.
1/4	3/4	1/2	2-1/2	2	45408 ~
1/4	3/4	1/2	3	3	45408-3~ New
1/4	1	1/2	2-3/4	2	45486
7mm	3/4	1/2	2-3/4	2	45254 New
9/32	3/4	1/2	2-3/4	2	45409
5/16	3/4	1/2	2-1/2	2	45410
5/16	1	1/2	2-3/4	2	45412
3/8	3/4	1/2	2-1/2	2	45413
3/8	1	1/2	2-3/4	2	45414
3/8	1-1/4	1/2	3	2	45415 *
13/32	3/4	1/2	2-1/2	2	45401
7/16	1-1/4	1/2	3	2	45416
15/32	1-1/4	1/2	2-7/8	2	45425
1/2	3/4	1/2	2-1/4	2	45419 †
1/2	3/4	1/2	4	2	DRB-424
1/2	1	1/2	2-5/8	2	45418
1/2	1-1/4	1/2		2	
			2-7/8		45420
1/2	1-1/2	1/2	3-1/8	2	45422
1/2	1-1/2	1/2	4-1/4	2	45424
1/2	2	1/2	3-1/2	2	45426S
1/2	2	1/2	4-1/4	2	45426
1/2	2-1/2	1/2	4-1/2	2	45427 *
1/2	2-1/2	1/2	5-1/2	2	45427-01*
1/2	3	1/2	5-1/4	2	45477 *
17/32	1-1/4	1/2	2-7/8	2	45429
9/16	1-1/4	1/2	2-7/8	2	45428
19/32	1-1/4	1/2	2-7/8	2	45437
5/8	1	1/2	2-5/8	2	45430
5/8	1-1/4	1/2	2-7/8	2	45432
5/8	1-1/2	1/2	3-1/8	2	45434
5/8	2	1/2	3-3/4	2	45433
21/32	1-1/4	1/2	2-7/8	2	45435
11/16	1-1/4	1/2	2-7/8	2	45436
23/32	1-1/4	1/2	2-7/8	2	45445
3/4	5/8	1/2	2-1/4	2	45181
3/4	1	1/2	2-5/8	2	45438
3/4	1-1/4	1/2	2-7/8	2	45440
3/4	1-1/2	1/2	3-1/8	2	45442
3/4	2	1/2	3-5/8	2	45441
25/32	1-1/4	1/2	2-7/8	2	45443
13/16	1-1/4	1/2	2-7/8	2	45444
7/8	1-1/4	1/2	2-7/8	2	45446
15/16	1-1/4	1/2	3	2	45182
1		1/2	2-7/8	2	45448
	1-1/4	1/2		74.75	and the second second
1	1-1/4 1-1/2			2	45403
1	1-1/2	1/2	3-1/8	2	45403 45447
1	1-1/2 2	1/2 1/2	3-1/8 3-5/8	2	45447
1 1-1/16	1-1/2 2 1-1/4	1/2 1/2 1/2	3-1/8 3-5/8 2-7/8	2 2	45447 45459
1 1-1/16 1-1/8	1-1/2 2 1-1/4 1-1/4	1/2 1/2 1/2 1/2	3-1/8 3-5/8 2-7/8 2-7/8	2 2 2	45447 45459 45449
1 1-1/16 1-1/8 1-1/4	1-1/2 2 1-1/4 1-1/4 1-1/4	1/2 1/2 1/2 1/2 1/2	3-1/8 3-5/8 2-7/8 2-7/8 2-7/8	2 2 2 2	45447 45459 45449 45450 ♠ 27.5
1 1-1/16 1-1/8 1-1/4 1-1/2	1-1/2 2 1-1/4 1-1/4 1-1/4	1/2 1/2 1/2 1/2 1/2 1/2	3-1/8 3-5/8 2-7/8 2-7/8 2-7/8 2-7/8	2 2 2 2 2	45447 45459 45449 45450 ♠ 27.5 45452 ♠ 27.5
1 1-1/16 1-1/8 1-1/4	1-1/2 2 1-1/4 1-1/4 1-1/4	1/2 1/2 1/2 1/2 1/2	3-1/8 3-5/8 2-7/8 2-7/8 2-7/8	2 2 2 2	45447 45459 45449 45450 \$\text{\tinite\text{\te}\text{\tetx{\text{\texi}\text{\text{\text{\texicl{\text{\texi}\text{\text{\texi{\texi{\texi{\text{\ti}\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{

45422(1/2), 45432(5/8), 45440(3/4), 45446(7/8), 45448(1)

* Not guaranteed due to extreme length. ~With solid carbide cutting edge.

Polycrystalline Diamond (PCD) for extremely long life.

Warning: Maximum RPM ▲22 = 22,000; 24 = 24,000; ▲27.5 = 27,500

Left Hand Rotation Straight Plunge, see page 95

AMS-104 New

[†] For post form countertop machines.



CNC 3 FLUTE HIGH PRODUCTION STRAIGHT PLUNGE





Solid Carbide (brazed to steel body) • 3 Flute • 1/2" & 12mmShank

1/4" & 6mm cutting diameter CNC Nesting router bit with solid carbide cutting edges brazed into steel 1/2" & 12mm shank. More sizes available.

For cutting 3/4" thick material in one pass!

- · Excellent for nesting & grooving at an extremely fast feed rate which increases cost savings
- 1/4" & 6mm cutting diameter for reduced material waste
- 3 flute for improved surface finish
- The unique design contributes to superb performance and excellent cutting results
- · Designed primarily for high speed CNC production
- · Long lasting, fine micrograin extra hard carbide resulting in long tool life before re-sharpening

ØD	В	Ød	L	Flute	Tool No.
1/4	3/4	1/2	3	3	45408-3
6mm	21mm	12mm	77mm	3	45185-M New

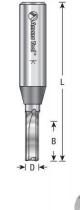
*FEED & SPEED

Up to 800 IPM feed rate at 18,000 RPM cutting laminated particle board. Rate may change depending on material and CNC machine type.

Excellent for cutting:

- Particle Board, MDF & Melamine: Feed rate up to 800 IPM† at 18,000 RPM**
- Plywood: Feed rate up to 500 IPM+ at 18,000 RPM**
- † IPM: Inches Per Minute, **RPM: Revolutions Per Minute







INDUSTRIAL STRAIGHT PLUNGE ROUTER BITS

93

45408-3



d -



PRODUCTION SHEAR

Carbide Tipped • 2 Flute • 3° Down-Shear

Excellent for working composition board and melamine, this bit cuts with a shearing action, slicing very slightly downward to prevent chipping & tearing of the surface veneer or coating. It augers chips away from the router. Designed primarily for production applications where the router is above the work.





ØD	В	Ød	L	Tool No.
3/8	1	1/2	2-3/4	45414-PS
1/2	1-1/4	1/2	2-7/8	45420-PS
1/2	1-1/2	1/2	3-1/8	45422-PS
1/2	2	1/2	4-1/4	45426-PS





3 FLUTE HIGH PRODUCTION SHEAR

Carbide Tipped • 3° Up-Shear

Excellent for working composition board and melamine, this bit cuts with an upward shearing action to prevent chipping & tearing of the bottom of veneer or coated material. Designed primarily for production applications where the router is below the work.



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- (1	н
M	7
X	CNC

ØD	В	Ød	L	Tool No.
3/8	1	1/2	2-3/4	45414-3US
1/2	1-1/2	1/2	3-1/8	45422-3US





OPPOSITE-SHEAR STAGGERED TOOTH

Carbide Tipped • 2 Flute

A stagger-tooth bit has two cutting edges, each only half the flute length, located 180° apart, one high, one low. The result is a tool that combines the speed and chip clearance of a one-flute bit with the strength and balance of a two-flute bit. This "opposite-shear" configuration features a down-shear edge and an up-shear edge.

On a through-cut, it shears down on both surfaces at the same time. It is excellent for working double-sided melamine, plywood, laminates, and veneers, as well as solid-surface materials.







ØD	В	Ød	L	Tool No.
1/2	1-1/2	1/2	3-1/8	51320
1/2	2	1/2	4-1/8	51324



D





LEFT HAND PLUNGE

Carbide Tipped • 2 Flute • 1/2" Shank

These plunging straight bits are for reverse-rotation (counter-clockwise) routers.



ØD	В	Ød	L	Tool No.
3/8	1	1/2	2-3/4	45414-LH
1/2	1-1/4	1/2	2-7/8	45420-LH
1/2	1-1/2	1/2	3-1/8	45422-LH
1/2	2	1/2	4-1/4	45426-LH
3/4	1-1/4	1/2	2-7/8	45440-LH
3/4	2	1/2	3-5/8	45441-LH
7/8	1-1/4	1/2	2-7/8	45446-LH
1-1/4	1-1/4	1/2	2-7/8	45450-LH



SUPER PLUNGE™ WITH CENTER CARBIDE TIP

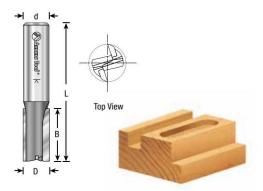
Carbide Tipped • 2 Flute • 1/2" Shank

This bit has a specially designed carbide center tip enhancing the speed of plunge cuts. At the same time, it extends the life of the cutting edges by reducing the stress of plunge cuts on their tips. Ideal for mortising and other plunging operations.



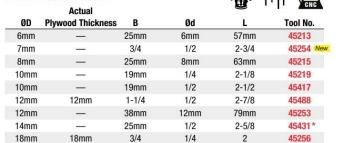


				150 A
ØD	В	Ød	L	Tool No.
1/2	1-1/2	1/2	3-1/8	41422
1/2	2	1/2	4-1/4	41426
3/4	1	1/2	2-5/8	41438
1	1	1/2	2-5/8	41448



METRIC STRAIGHT PLUNGE FOR UNDERSIZED PLYWOOD DADO

Carbide Tipped • 2 Flute



1/2

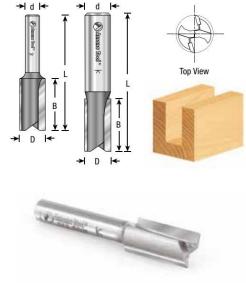
18mm

18mm

Note: Many standard metric plunge bits from 3mm through 51mm are available on special order. Please allow 2 to 3 weeks for delivery. See above for metric sized plywood bits.

Note: For 6mm board, use #45203 (15/64) shown in fractional section on page 96.

1-1/4



2-7/8

45498

INDUSTRIAL STRAIGHT PLUNGE ROUTER BITS

^{* 14}mm bits for cutting plastic pilaster.



UNDERSIZED PLYWOOD DADO

Carbide Tipped • 2 Flute

Straight Plunge Fractional Sizes.

Cut dado and groove dimensions perfectly for plywood, flakeboard and other sheet materials for which standard-size bits are too large.







	Actual				
ØD	Plywood Thickness	В	Ød	L	Tool No.
15/64	1/4 minus 1/64 (6.0mm)	3/4	1/4	2	45203
7/32	1/4 minus 1/32	3/4	1/4	2	45206
15/32	1/2 minus 1/32	3/4	1/4	2	45223
15/32	1/2 minus 1/32	1-1/4	1/2	2-7/8	45425
19/32	5/8 minus 1/32	1-1/4	1/2	2-7/8	45437
23/32	3/4 minus 1/32	3/4	1/4	2	45231
23/32	3/4 minus 1/32	1-1/4	1/2	2-7/8	45445

Note: For 6mm board, use #45203 (15/64) shown in fractional section above.

INSERT CARBIDE STRAIGHT

Single & 2 Flute







					Repl.	Repl.		
ØD	В	Ød	L	Flute	Knives	Screws	Tool No.	
1/2	30mm	1/2	3	1	AMA-30 †	67117	RC-1154	
5/8	30mm	1/2	3-3/8	2	AMA-30 †	67117	RC-1080	
3/4	30mm	1/2	3-3/8	2	RCK-30	67115	RC-1084	
1-1/16	30mm	1/2	3-15/32	2	RCK-30	67115	RC-1089	

† Optional knife with harder carbide for MDF applications: #MDF-30.

#5005 Torx® key included.

Note: All above plunge bits have four cutting edges per knife.

Metric sizes from 12mm to 22mm available on special order — please inquire.



← D →







6 Amana Tool®

INSERT CARBIDE STRAIGHT

Single & 2 Flute

These router bits yield cuts which are cleaner than typical insert bits, offering high speed cuts with super clean finish. They also are channel set, double edge knives. Each blade has a double-sided cutting edge for economy. The insert carbide is much harder than brazed carbide. There is minimum amount of downtime for blade changes.





ØD	В	B Ød L Flute				Screws	Tool No.
3/8	20mm	1/2	2-7/8	1	RCK-32	67015	RC-3100
1/2	30mm	1/2	3-1/8	1	RCK-34-B	67016	RC-3110
1/2	30mm	1/2	3-1/8	2	RCK-34-B	67016	RC-3200

Replacement 1.5mm special hex key #5011.

Replacement spring washer: #RC-3100 use #67104; #RC-3110 and #RC-3200 use #67105.





INDUSTRIAL STRAIGHT PLUNGE ROUTER BITS



CNC INSERT CARBIDE SUPER PLUNGE

This router bit is designed for fast and direct penetration into the material and quick removal of wood, MDF, melamine and man-made material.









 ØD
 B
 Teeth
 Knife
 Knife
 Ød
 L
 Tool No.

 40mm(1-1/2)
 29.5mm(1-5/32)
 2+2
 RCK-30
 AMA-12
 3/4
 100mm(4)
 RC-2180

Replacement screw #67115.

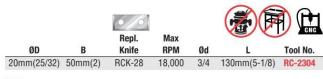






CNC INSERT CARBIDE UP & DOWN SHEAR

Insert straight router bit complete with two up/down-shear flutes and center tip. Shear flutes squeeze the material into the middle to give an extra fine finish on both surfaces of laminated and veneered board. Replaceable inserts ensure a constant cutting diameter and finish quality. Center tip for improved boring. For use on routers with CNC control.



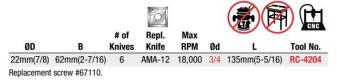




Amana Tool®

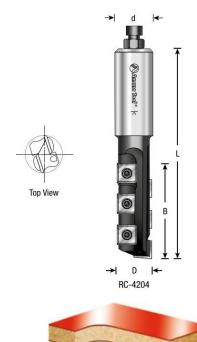


Complete with two flutes and multiple cutting blades. Blades are sheared up and down to ensure a good finish on both top and bottom surfaces of laminated and veneered boards. For use on routers and machining centers with CNC control.



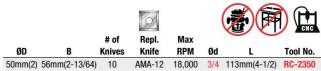






CNC INSERT CARBIDE ROUGH RABBETING & SIZING

Insert straight router bit with multiple cutting flutes. Suitable for rough rabbeting and sizing in softwood, hardwood and man-made boards (with or without coating). Multiple cutting flutes ensure fine chips are produced for improved waste extraction. Replaceable inserts ensure a constant cutting diameter. For use on routers and machining centers with CNC control.



Replacement screw #67115.









INDUSTRIAL STRAIGHT PLUNGE ROUTER BITS



SPIRAL FLUTE PLUNGE

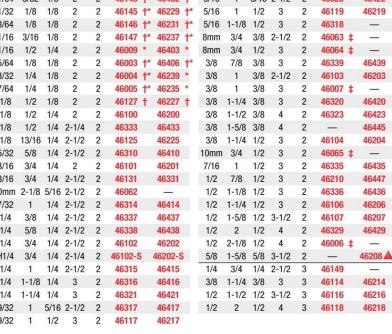
Solid Carbide • 2 & 3 Flute • Up-Cut & Down-Cut

Spiral-flute bits combine a shearing action in cutting with an augering action in chip clearance. The shearing action yields an especially clean accurate cut while the augering action clears chips from the cut. The 'Up-Cut' shears from the bottom up pulling chips from the bottom up thus allowing deeper penetration with less stress on the tool. An excellent choice for mortising.

Special unique carbide grade increased clearance geometry and razor-sharp cutting edges with polished flutes provide a superior finish and longer tool life especially in abrasive materials. Great for production settings and excellent for creating grooves and dado cuts in wood, laminate, MDF and plywood.

Three-flute design for very high quality finish.

							Down-Cut	,								Down-Cut'
ØD	В	Ød	L	Flute	Tool No.	0	Tool No.		ØD	В	Ød	L	Flute	Tool No.		Tool No.
1/64	3/32	1/8	2	2	46143	†*	46402	† *	5/16	1	5/16	2-1/2	2	46325		46422
1/32	1/8	1/8	2	2	46145	†*	46229	† *	5/16	1	1/2	3	2	46119		46219
3/64	1/8	1/8	2	2	46146	†*	46231	† *	5/16	1-1/8	1/2	3	2	46318		1
1/16	3/16	1/8	2	2	46147	†*	46237	† *	8mm	3/4	3/8	2-1/2	2	46063	‡	_
1/16	1/2	1/4	2	2	46009	*	46403	k	8mm	3/4	1/2	3	2	46064	#	<u>11</u>
5/64	1/8	1/8	2	2	46003	†*	46406	† *	3/8	7/8	3/8	3	2	46339		46439
3/32	1/4	1/8	2	2	46004	†*	46239	k	3/8	1	3/8	2-1/2	2	46103		46203
7/64	1/4	1/8	2	2	46005	†*	46235	k	3/8	1	3/8	3	2	46007	#	
1/8	1/2	1/8	2	2	46127	†	46227	t	3/8	1-1/4	3/8	3	2	46320		46420
1/8	1/2	1/4	2	2	46100		46200		3/8	1-1/2	3/8	4	2	46323		46423
1/8	1/2	1/4	2-1/4	2	46333		46433		3/8	1-5/8	3/8	4	2	_		46445
1/8	13/16	1/4	2-1/2	2	46125		46225		3/8	1-1/4	1/2	3	2	46104		46204
5/32	5/8	1/4	2-1/2	2	46310		46410		10mm	3/4	1/2	3	2	46065	#	
3/16	3/4	1/4	2	2	46101		46201		7/16	1	1/2	3	2	46335		46435
3/16	3/4	1/4	2-1/2	2	46131		46331		1/2	7/8	1/2	3	2	46210		46447
10mm	2-1/8	5/16	2-1/2	2	46062		_		1/2	1-1/8	1/2	3	2	46336		46436
7/32	1	1/4	2-1/2	2	46314		46414		1/2	1-1/4	1/2	3	2	46106		46206
1/4	3/8	1/4	2-1/2	2	46337		46437		1/2	1-5/8	1/2	3-1/2	2	46107		46207
1/4	5/8	1/4	2-1/2	2	46338		46438		1/2	2	1/2	4	2	46329		46429
1/4	3/4	1/4	2-1/2	2	46102		46202		1/2	2-1/8	1/2	4	2	46006	‡	_
H1/4	3/4	1/4	2-1/4	2	46102-5		46202-S		5/8	1-5/8	5/8	3-1/2	2	_		46208
1/4	1	1/4	2-1/2	2	46315		46415		1/4	3/4	1/4	2-1/2	3	46149		_
1/4	1-1/8	1/4	3	2	46316		46416		3/8	1-1/4	3/8	3	3	46114		46214
1/4	1-1/4	1/4	3	2	46321		46421		1/2	1-1/2	1/2	3-1/2	3	46116		46216
9/32	1	5/16	2-1/2	2	46317		46417		1/2	2	1/2	4	3	46118		46218
9/32	1	1/2	3	2	46117		46217									

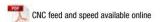


5-Packs Includes	Tool No. No.
46099 (5 Pcs. each)	46009-5
46100 (5 Pcs. each)	46100-5
46403 (5 Pcs. each)	46403-5
46415 (5 Pcs. each)	46415-5
46202 (5 Pcs. each)	46202-5

5-Packs Includes	Tool No. New
46315 (5 Pcs. each)	46315-5
46102 (5 Pcs. each)	46102-5
46125 (5 Pcs. each)	46125-5
46200 (5 Pcs. each)	46200-5



▲ Warning: These tools have an open flute design (not anti-kickback) and are intended for high feed-rate CNC machine use only. **Do not use in portable routers.**

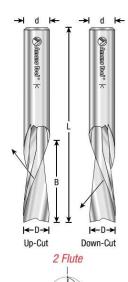


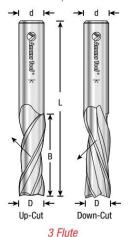


Sets Available

See page 110

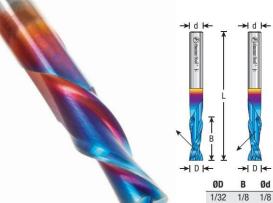






^{*}Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

^{*}Warning: Due to the extremely small diameters involved, bits are not guaranteed against breakage. Please exercise caution to the accurate calculations of all feed and speed rates. Disclaimer: It is important to understand that these values are only recommendations.



3 Flute



SPIRAL FLUTE PLUNGE New

Solid Carbide • 2 & 3 Flute • Up-Cut & Down-Cut

Spektra™ micro-thin coating provides longevity and cutting results of the highest quality. For complete details on Spektra™ visit www.amanatool.com/spektra







Excellent For Cutting:

- MDF/HDF Laminate
- Plywood
 - Softwood/Hardwood
- Melamine Veneered Plywood

_	7	D -			'Up-Cut'	'Down-Cut'						'Up-Cut'	'Down-Cut'
ØD	В	Ød	L	Flute	Tool No.	Tool No.	ØD	В	Ød	L	Flute	Tool No.	Tool No.
1/32	1/8	1/8	2	2	-	46229-K†*	1/4	3/4	1/4	2-1/2	2	46102-K	46202-K
1/32	1/8	1/4	2	2	-	46242-K*	1/4	1	1/4	2-1/2	2	46315-K	46415-K
1.5mm	5mm	3mm	50mm	2	_	48212-K*	1/4	1-1/8	1/4	3	2	46316-K	46416-K
1.5mm	6mm	3mm	50mm	2	-	48214-K	1/4	1-1/4	1/4	3	2	46321-K	46421-K
1/16	3/16	1/8	2	2	_	46237-K†*	1/4	1-3/8	1/4	3-1/8	2	46399-K	46503-K
1/16	3/16	1/4	2	2	-	46233-K*	1/4	1-1/2	1/4	3-1/2	2	_	46502-K
1/16	1/4	1/8	2	2	_	46213-K†*	3/8	1	3/8	2-1/2	2	46103-K	46203-K
1/16	1/4	1/4	2	2	<u> </u>	46448-K*	3/8	1-1/4	3/8	3	2	46320-K	46420-K
1/16	1/2	1/4	2	2	46009-K*	46403-K*	3/8	2	3/8	4	2	46529-K	46449-K
3/32	1/4	1/8	2	2	_	46239-K †*	12mm	32mm	12mn	175mm	2	_	48228-K
3/32	1/4	1/4	2	2	-	46244-K*	1/2	1-1/4	1/2	3	2	46106-K	46206-K
3mm	12mm	6mm	50mm	2	_	48214-K	0.023"	1/8	1/8	2	3	51629-K	*
3mm	20mm	6mm	63mm	2	48116-K	48216-K	1/8	1/2	1/4	2	3	46001-K	46051-K
1/8	1/2	1/8	2	2	46127-K	46227-K†	1/8	13/16	1/4	2-1/2	3	_	46053-K
1/8	1/2	1/4	2	2	46100-K	46200-K	6mm	19mm	6mm	63mm	3	_	48228-K
1/8	13/16	1/4	2-1/2	2	46125-K	46225-K	1/4	3/4	1/4	2-1/2	3	46002-K	46052-K
3/16	3/4	1/4	2	2	46101-K	46201-K	1/4	1	1/4	2-1/2	3	_	46054-K
3/16	1	1/4	3	2	48330-K	48340-K	3/8	1	3/8	2-1/2	3	_	46055-K
5mm	3/4	1/4	2-1/2	2	-	46211-K	1/2	1-1/2	1/2	3-1/2	3	46116-K	46216-K
5mm	1	1/4	2-1/2	2	-	46211-L-K	3/4	1-5/8	3/4	4	3	_	46500-K
6mm	19mm	6mm	63mm	2	48118-K	48218-K	1/4	1-1/4	1/4	3	4	_	59706-K
6mm	25mm	6mm	63mm	2	48120-K	48220-K	3-Pc S	et: 4612	25-K,	46102	-K & 4	6320-K	AMS-236-K

[†] Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits. 3-Pc Set: 46200-K, 46202-K & 46420-K AMS-238-K * Due to small diameter, bit is not guaranteed against breakage.

NOTE: #46449-K designed with extra-long cut length specifically for cutting for guitar bodies.

2	-Packs Includes	Tool No.	5-Packs Includes	Tool No. New	Includes	Tool No. New
	46200-K (2 Pcs.)	46200-K-2	46099-K (5 Pcs.)	46009-K-5	46213-K (5 Pcs.)	46213-K-5
			46102-K (5 Pcs.)	46102-K-5	46225-K (5 Pcs.)	46225-K-5
			46125-K (5 Pcs.)	46125-K-5	46315-K (5 Pcs.)	46315-K-5
			46200-K (5 Pcs.)	46200-K-5	46403-K (5 Pcs.)	46403-K-5
			46202-K (5 Pcs.)	46202-K-5	46415-K (5 Pcs.)	46415-K-5
			46206-K (5 Pcs.)	46206-K-5	46203-K (5 Pcs.)	46203-K-5
→ d ←	→ldl← CI	DIRAI	ELLITE DI LINICI	E EUB C	OI ID WO	OD

SPIRAL FLUTE PLUNGE FOR SOLID WOOD Solid Carbide • 2 Flute

The combination of acute spiral flute shear angles with the face ground helix yield high feed rates, fast plunge action, quick direction changes, deep penetration and mirror finish.







· Proceedings of the control to an				OD-Cut	DOMU-CUL
ØD	В	Ød	L	Tool No.	Tool No.
1/8	1/2	1/8	2	46240 †	46340 †
1/8	1/2	1/4	2	46241	46341
3/16	5/8	1/4	2	46245	46345
7/32	1	1/4	2-1/2	46247	.—.
1/4	3/4	1/4	2-1/2	46249	46349
1/4	1	1/4	2-1/2	46248	46348
1/4	1-1/8	1/4	3	46250	46365
5/16	1-1/8	1/2	3	46253	46353
3/8	1-1/4	3/8	3	46259	46359
3/8	1-1/4	3/8	3-1/4	46259S	_
3/8	1-1/4	1/2	3	46257	46357
1/2	1-1/4	1/2	3	46261	46361
1/2	1-5/8	1/2	3-1/2	46263	46363

▲ Warning: Recommended RPM=20,000-21,000

→ D I←

Down-Cut





→ D I←

Up-Cut

Top View

CNC COMPRESSION SPIRAL FLUTE

Solid Carbide . Single, 2 & 3 Flute

Special carbide for longer lifetime in abrasive material. Designed for CNC applications requiring high feed rates and a clean finish. Particularly suitable for double-sided melamine or laminated material. 3-flute design provides an extra-smooth finish.

Excellent For Cutting:

3/8

3/8

7/8

1-1/8

1 - 1/8

1-1/4

13/16

13/16

7/8

1

7/8

7/8

7/8

1-1/8

1-1/4

1

1-1/8

1-1/8

1-1/4

1-1/4

1-1/2

1-1/2

1-5/8

1-5/8

2-1/8

7/8

1-1/8

7/8

1-1/4

1-5/8

· Veneered Plywood ØD

- MDF/HDF
- Laminate
- Melamine

1/8 1/8

1/4

1/4

3/8

1/2

1/2

1/8

1/8

5/32

3/16

1/4

1/4

1/4

3/8

3/8

3/8

3/8

3/8

1/2

1/2

1/2

1/2

1/2

1/2

1/2

1/2

1/2

3/8

3/8

1/2

1/2

1/2

Particle Board

B1

5/32

5/32

3/8

.560

200

7/16

7/16

7/32

7/32

1/8

7/32

7mm

7mm

.2756

188

9mm

9mm

9mm

9mm

9mm

10mm

11mm

11mm

12mm

7/16

13mm

13mm

.511'

.2001

9mm

.200"

9mm

9mm

 Softwood/Hardwood Oriented Strand Board (OSB)

Ød

1/8

1/4

1/4

1/4

3/8

1/2

1/2

1/8

1/4

1/4

3/16

1/4

1/4

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Flute

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3

3

3

3

3

3-1/2

4-1/16

3-1/2

3-1/2

5

3

3

3

3-1/2



Tool No.

46139

46140

46036 New

46038 New

46158 New

46159

46176

46183

46181

46170

46171

46173

46172

46174

46178

46182

46186

46188 46188-LH *

46189

46191

46190

46190-LH

46011

46013

46035 A

46010 1 28

46012 4 28

46014 1 28

46170-LH *

46037 New

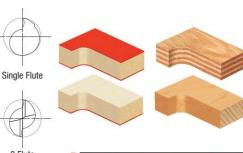
46180 **

46137 †











PCD Tipped Compression Bits See page 44 5-Packs Includes

Tool No. 46170 (5 Pcs. each) 46170-5 46172 (5 Pcs. each) 46172-5 46180 (5 Pcs. each) 46180-5 46188 (5 Pcs. each) 46188-5

> d l ←

4-Pc Set includes 46170, 46172, 46180 & 46188 ▲ Warning: Recommended RPM=20,000-21,000 ▲ 28 Maximum RPM=28,000 *Indicates left hand rotation. **Optional 1/4" dia. sleeve/adapter #47632, see page 211.

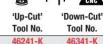




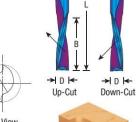
SPIRAL FLUTE PLUNGE FOR SOLID WOOD New

Solid Carbide • 2 Flute

Specially designed for speed and finish when working with solid hardwood. The combination of acute spiral flute shear angles with face ground helix yield high feed rates, fast plunge action, quick direction changes, deep penetration and mirror finish.





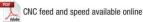


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ØD Ød 1/8 1/2 1/4 2 46241-K 46341-K 1/4 1/4 1 2-1/2 46248-K 46348-K

For complete details on Spektra™ visit www.amanatool.com/spektra



INDUSTRIAL S.C. SPIRAL ROUTER BITS













CNC COMPRESSION SPIRAL FLUTE

Solid Carbide • 2 & 3 Flute

The Spektra™ nACo® nanocomposite coating is a micro thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality. For complete details on Spektra™ visit www.amanatool.com/spektra

- **Excellent For Cutting:**
- MDF/HDF • CFRP Laminate
- Melamine Particleboard
- Oriented Strand Board (OSB) · Softwood/Hardwood
- Veneered Plywood
- Double-Sided Melamine

ØD	В	B1	Ød	L	Flut	e Tool No.		ØD	В	B1	Ød	L	Flute	Tool No.	
3mm	20mm	6mm	6mm	64mm	2	48302-K	New	12mm	35mm	12mm	12mm	76mm	2	46185-K	New
6mm	20mm	7mm	6mm	64mm	2	48304-K	New	12mm	42mm	12mm	12mm	81mm	2	48318-K	New
3mm	21mm	6mm	3mm	64mm	2	46180-K-N	New	1/2	1	9mm	1/2	3	2	46182-K	
1/8	13/16	7/32	1/8	2-1/2	2	46180-K	New	1/2	1-1/4	11mm	1/2	3	2	46188-K	
1/8	13/16	7/32	1/4	2-1/2	2	46176-K		1/2	1-3/8	12mm	1/2	3-1/2	2	46193-K	
3/16	1	7/32	3/16	2-1/2	2	46181-K		1/2	1-5/8	13mm	1/2	3-1/2	2	46190-K	
6mm	25mm	7mm	6mm	64mm	2	46175-K		1/2	1-3/4	.511"	1/2	3-1/2	2	46195-K	
8mm	25mm	11mm	8mm	64mm	2	48306-K	New	1/2	2	13mm	1/2	4	2	46199-K	
8mm	32mm	11mm	8mm	71mm	2	48308-K	New	1/2	2-1/8	.511"	1/2	5	2	46035-K	
1/4	7/8	7mm	1/4	2-1/2	2	46170-K	New	1/8	13/16	7/32	1/8	2-1/2	3	46015-K	New
1/4	1-1/4	.550"	1/4	2-1/2	2	46177-K		6mm	22mm	5mm	6mm	75mm	3	48320-K	
5/16	7/8	7mm	5/16	2-1/2	2	46039-K		6mm	28mm	9mm	6mm	75mm	3	48322-K	New
3/8	7/8	.200"	3/8	3	2	46171-K		1/4	7/8	7mm	1/4	2-1/2	3	46017-K	New
3/8	1	9mm	1/2	3	2	46174-K		8mm	25mm	11mm	8mm	64mm	3	48323-K-M	
3/8	1-1/8	.4060"	3/8	3	2	46173-K		8mm	32mm	11mm	8mm	71mm	3	48325-K-M	New
3/8	1-1/4	9mm	3/8	3	2	46172-K	New	3/8	7/8	.200"	3/8	3	3	46011-K	New
3/8	1-5/8	.550"	3/8	3-1/2	2	46179-K		3/8	1-1/8	9mm	3/8	3	3	46010-K	
10mm	25mm	15mm	10mm	64mm	2	48310-K		3/8	1-1/4	.3543	3/8	3	3	46031-K	New
10mm	32mm	12mm	10mm	76mm	2	48312-K	New	12mm	32mm	9mm	12mm	75mm	3	48324-K	
10mm	35mm	15.4mm	10mm	76mm	2	48314-K	New	12mm	41mm	9mm	12mm	88mm	3	48326-K	New
12mm	32mm	12mm	12mm	71mm	2	48316-K	New	1/2	1-1/4	9mm	1/2	3	3	46012-K	New
12mm	32mm	12mm	12mm	71mm	2	48316-K	New	1/2	1-5/8	9mm	1/2	3-1/2	3	46014-K	

Sets & Packs

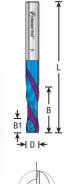
3-Pc Pack includes 46170-K, 46172-K & 46180-K	AMS-187-K
3-Pc Pack includes 46172-K, 46188-K & 46170-K	AMS-183-K
4-Pc Pack includes 46172-K, 46188-K, 46170-K & 46180-K	AMS-181-K
5-Pc Set includes 46172-K 46188-K 46190-K 46010-K & 46170-K	AMS-182-K

2-Packs

Includes	Tool No.	5-Packs	Includes	Tool No
46170-K (2 Pcs.) 4	6170-K-2		46010-K (5 Pcs.)	46010-K-
			46170-K (5 Pcs.)	46170-K-5
			46171-K (5 Pcs.)	46171-K-5

Vo.	Includes	Tool No.
(-5	46172-K (5 Pcs.)	46172-K-5
(-5	46176-K (5 Pcs.)	46176-K-5
(-5	46180-K (5 Pcs.)	46180-K-5

6172-K (5 Pcs.)	46172-K-5
6176-K (5 Pcs.)	46176-K-5
6180-K (5 Pcs.)	46180-K-5
6188-K (5 Pcs.)	46188-K-5



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CNC COMPRESSION SPIRAL FLUTE New FOR BALTIC BIRCH PLYWOOD

Solid Carbide • 2 & 3 Flute

The Spektra™ nACo® nanocomposite coating is a micro thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality.

ØD	В	B1	Ød	L	Flute	Tool No.
1/8	13/16	7/32	1/4	2-1/2	2	46701-K
1/4	7/8	7mm	1/4	2-1/2	2	46700-K
3/8	7/8	.188	3/8	3	2	46702-K
3/8	1-1/4	9mm	3/8	3	2	46704-K
1/2	1-1/4	11mm	1/2	3	2	46706-K
1/4	7/8	0.2756	1/4	2-1/2	3	46708-K
3/8	1-1/8	0.3543	3/8	3	3	46709-K
1/2	1-1/4	0.3543	1/2	3	3	46710-K



18 3

CNC MORTISE COMPRESSION SPIRAL

Solid Carbide • Single, 2, 3 & 4 Flute • For Mortising Work

These tools have a much shorter up-cut section than the standard compression tools. They are ideal for mortising, grooving and dado.

Excellent For Cutting:

Softwood/Hardwood

- Plywood • Particle Board
- MDF/HDF
 - Laminate Melamine



ØD	В	B1	Ød	L	Flute	Tool No.
1/4	1	1/8	1/4	2-1/2	1	46393
1/4	1	1/8	1/4	2-1/2	2	46350
3/8	1-1/4	3/16	3/8	3	2	46021
3/8	7/8	1/8	3/8	3	2	46367 New
3/8	1-1/16	.202mm	3/8	3	2	46395 New
3/8	1-1/4	3/16	1/2	3	2	46352
1/2	1-1/4	1/4	1/2	3	2	46354
1/2	1-5/8	1/4	1/2	3-1/2	2	46356
1/2	2-1/8	1/4	1/2	4	2	46360
3/8	1	3/16	3/8	3	3	46020 🛕 28
1/2	1	1/4	1/2	3	3	46022 1 28
1/2	1-3/8	1/4	1/2	3-1/2	3	46024 1 28
1/2	1-3/8	.200	1/2	3-1/2	4	46028 🛕 28



4 Flute

5-P	acks	Includes			
	16250	1 /5	Doc	02	

6350 (5 Pcs. each) 46367 (5 Pcs. each) Tool No. New 46350-5 46367-5

2 Flute

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2 Flute

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B1 \forall

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CNC feed and speed available online

CNC COMPRESSION SPIRAL FLUTE FOR SOLID WOOD

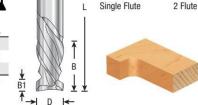
Solid Carbide . Single & 2 Flute

Designed for working in hard solid wood. Slow helix, special grinding angle, improved body shape in order to support the high feed rate, quick direction changes and deep penetration.



ØD	В	B1	Ød	L	Flute	Tool No.
1/4	7/8	9/32	1/4	2-1/2	1	46390
1/4	7/8	13/64	1/4	2-1/2	1	46322
3/8	7/8	13/64	3/8	3	1	46324
1/2	1-3/8	5/16	1/2	3-1/2	2	46344







CNC feed and speed available online

CNC COMPRESSION SPIRAL FOR NESTING

Solid Carbide • 3 Flute

Nesting refers to the process of laying out cutting patterns to minimize the raw material waste.

Excellent for Cutting:

- MDF
- · Particle Board
- Melamine
- · Oriented Strand Board (OSB), which is an engineered wood particleboard
- Laminate
- Composites

New generation of spiral tools for nesting operation on CNC machines:

- · High clearance geometric shape for maximum feed rate
- · Superior cut quality
- · Free chip flow



ØD B1 B 1/4 5/8 9/32 3/8 9/32 1/2 1-1/4 23/64 1/2 3 46372

INDUSTRIAL S.C. SPIRAL ROUTER BITS

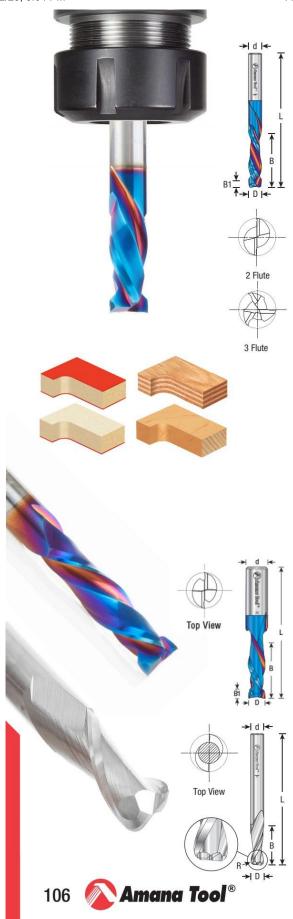
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Top View





CNC feed and speed available online







CNC MORTISE COMPRESSION SPIRAL New

Solid Carbide • 2 & 3 Flute • For Mortising Work

These tools have a much shorter up-cut section than the standard compression tools. They are ideal for mortising, grooving and dado. The Spektra $^{\text{TM}}$ nACo $^{\text{o}}$ nanocomposite coating is a micro thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality.

Excellent For Cutting:

 MDF/HDF Double-Sided Melamine 			PlywoodSoftwood/Hardwood		 Laminate 		
ØD	B	B1	Ød	L	Flute	Tool No.	
5mm	25mm	4.763mm	5mm	64mm	2	48351-k	New
6mm	22mm	3/16	6mm	64mm	2	46025-K	
1/4	5/8	3/16	1/4	2-1/2	2	46029-K	
1/4	7/8	3/16	1/4	3	2	46033-K	
1/4	1	1/8	1/4	2-1/2	2	46350-K	
8mm	25mm	5mm	8mm	64mm	2	48352-K	
3/8	7/8	1/8	3/8	3	2	46367-K	
3/8	1-1/16	.202"	3/8	3	2	46395-K	
3/8	1-1/4	3/16	3/8	3	2	46021-K	
3/8	1-1/4	3/16	1/2	3	2	46352-K	
10mm	22mm	5mm	10mm	76mm	2	48354-K	
12mm	25mm	1/4	12mm	76mm	2	46027-K	
1/2	1	3/16	1/2	3	2	46034-K	
1/2	1	1/4	1/2	3	2	46019-K	
1/2	1-1/4	1/4	1/2	3	2	46354-K	
1/2	1-3/8	.200"	1/2	3-1/2	2	46023-K	
1/8	13/16	.188"	1/8	2-1/2	3	46398-K	
6mm	25mm	4.7mm	6mm	75mm	3	48358-K	

1/4 3/16 1/4 3 3 46016-K 3/16 3/8 3/8 3 46020-K 5-Packs Includes Tool No. Includes Tool No. New 46021-K (5 Pcs. each) 46021-K-5 46350-K (5 Pcs. each) 46350-K-5 46367-K (5 Pcs. each) 46367-K-5

1/4

2-1/2



CNC feed and speed available online

1/8





46018-K

CNC MORTISE COMPRESSION SPIRAL New FOR BALTIC BIRCH PLYWOOD

Solid Carbide • 2 Flute • For Mortising Work

These tools have a much shorter up-cut section than the standard compression tools.

ØD	В	B1	Ød	L	Flute	Tool No.
1/4	1	1/8	1/4	2-1/2	2	46712-K
3/8	1-1/4	3/16	3/8	3	2	46711-K
1/2	1-1/4	1/4	1/2	3	2	46714-K

SPIRAL FLUTE PLUNGE WITH CORNER RADIUS





Solid Carbide • 2 Flute • Up-Cut

For carving, lettering, decorative doors and sign manufacturing. Leaves an excellent finish and expels chips quickly.

Excellent For Cutting:

Aluminum

1/4

· Soft/Hard Plastic · Softwood/Hardwood

ØD	R	В	Ød	L	Tool No.
1/4	1/16	3/4	1/4	2-1/2	46460
1/2	1/8	1-1/4	1/2	3	46462 New
DDC					

CNC feed and speed available online

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CNC COMPRESSION SPIRAL '0' FLUTE

Solid Carbide . Single Flute

Special carbide for longer lifetime in abrasive material. Designed for CNC applications requiring high feed rates and a clean finish. Particularly suitable for plywood veneered and MDF material.

Excellent For Cutting:

- MDF/HDF
- Veneered Plywood

ØD	В	B1	Ød	L	Flute	Tool No.
1/8	7/8	3/16	1/8	2	1	46154-K†
1/8	3/8	3/16	1/4	2	1	46155-K

† Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.



SPIRAL FLUTE PLUNGE WITH CORNER RADIUS

Solid Carbide • 2 Flute • Up-Cut

For carving, lettering, decorative doors and sign manufacturing. Leaves an excellent finish and expels chips quickly.

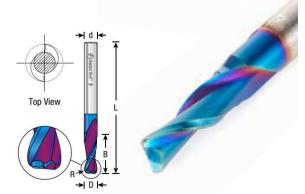
Excellent For Cutting:

- AluminumMDF
- Soft/Hard Plastic
- Softwood/Hardwood

ØD	В	R	Ød	L	
1/4	3/4	1/16	1/4	2-1/2	
5/16	7/8	0.060"	3/8	2-1/2	







_ONGER





18-PC. SPIRAL MASTER

1/8", 1/4", 3/8" & 1/2" Shank Solid Carbide Compression Spiral, Plastic Cutting Spiral 'O' Flute & Spiral Plunge Router Bit Collection

For complete details on Spektra™ visit www.amanatool.com/spektra



Includes Set No.

46170-K, 46171-K, 46174-K, 46010-K, 46172-K, 46188-K, 46012-K, 46190-K, 51441-K, 51410-K, RB-102, 51411-K, 51446-K, 51417-K, 51404-K, 51405-K, 46100-K, 46102-K, 46315-K

CNC SPIRAL FLUTE ROUGHING

Solid Carbide • 3 Flute with Chipbreaker

Specially designed for high RPM/feed rate CNC routers. Unique chipbreaker design is available with 'Up-Cut' or 'Down-Cut'. Will leave a wavy, striated finish.

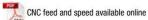
Excellent For Cutting: • Laminate

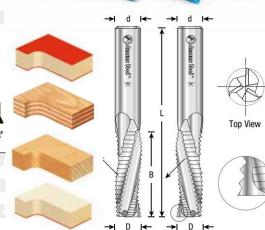
- Veneered Plywood
- Softwood/Hardwood

- Sultwood/	iaiuwoou			'Up-Cut'	'Down-Cut'	
ØD	В	Ød L		Tool No.	Tool No.	
1/4	7/8	1/4	2-1/4	46141 Nes	<u> </u>	
3/8	1	3/8	2-1/2	59420 * Nei	<u> </u>	
3/8	1-1/4	3/8	3	46129	46223	
1/2	1-5/8	1/2	4	46124	46224	
1/2	2	1/2	4-1/2	46126	46226	



* Can also be used on Castle and Porter Cable Machines.



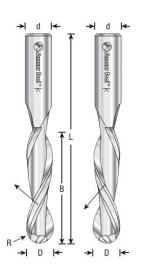


Up-Cut

Down-Cut

INDUSTRIAL S.C. SPIRAL ROUTER BITS







SPIRAL BALL NOSE

Solid Carbide • 2 Flute

For carving, decorative doors and sign manufacturing. Leaves an excellent finish and expels chips quickly.

Excellent For Cutting:

- Softwood/Hardwood
- · Aluminum/Non-Ferrous
- Soft/Hard Plastic
- Sign Foam









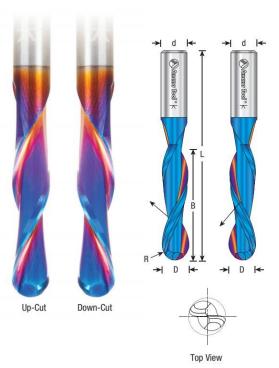
	Tool No.	Tool No.	L	Ød	В	R	ØD
	_	46373	2	1/8	1/4	1/32	1/16
	_	46510 New	2-1/2	1/4	1/4	1/32	1/16
	_	46375	2	1/8	1/2	1/16	1/8
		46369	2	1/4	1/2	1/16	1/8
	_	46512 New	2-1/2	1/4	1	1/16	1/8
New	46475	46374	2-1/2	1/4	3/8	1/8	1/4
	46476	46376	2-1/2	1/4	1	1/8	1/4
New	46478	46378	3	3/8	1-1/4	3/16	3/8
	46477	46380	3	1/2	1-1/4	1/4	1/2
	_	46384	4	1/2	2-1/8	1/4	1/2
	_	46386★ ▲ 18	4	5/8	2-1/8	5/16	5/8
		46387★ ▲ 18	5	3/4	2-1/2	3/8	3/4
	AMS-149	39 (3/16 Dia.)	Dia.) & 4638	46288 (1/8	76 (1/4 Dia.),	ncludes 463	3-Pc Set i

▲ Warning: Maximum RPM ▲18=18,000

*Warning: These tools have an open flute design (not anti-kickback) and are intended for high feed-rate CNC machine use only. Do not use in portable routers.



CNC feed and speed available online





SPIRAL BALL NOSE New

Solid Carbide • 2 Flute

The Spektra™ nACo® nanocomposite coating is a micro thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality.



For complete details on Spektra™ visit www.amanatool.com/spektra

Excellent For Cutting:

- · Softwood/Hardwood
- Soft/Hard Plastic
- Sign Foam





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ØD	R	В	Ød	L	'Up-Cut' Tool No.	'Down-Cut' Tool No.
1/16	1/32	1/4	1/8	2	46373-K	_
1/16	1/32	1/4	1/4	2-1/2	46510-RS*	<u> 111-11</u> 1
1/8	1/16	1/2	1/4	2	46369-K	11-1 2
1/8	1/16	1/2	1/4	3	46385-K	_
1/8	1/16	5/8	1/8	2	46377-K	New
1/8	1/16	1	1/8	3	46509-K	New —
3/16	3/32	1	3/16	4	46508-K	New —
6mm	3mm	25mm	6mm	63mm	48403-K	_
1/4	1/8	1	1/4	2-1/2	46376-K	46476-K
1/4	1/8	1-1/2	1/4	6	46511-K	New —
3/8	3/16	1-1/4	3/8	3	46378-K	_
1/2	1/4	1-1/4	1/2	3	46380-K	_
1/2	1/4	2-1/8	1/2	4	46384-K	

NOTE: #46449-RS Reduced shank 1/4 to an 1/8 Inch



CNC feed and speed available online

CNC SPIRAL FLUTE FINISHING

Solid Carbide • 3 Flute with Chipbreaker

This series of bits contains small chip breakers that break up the chips and allow the bit to run cooler and faster. For cutting wood and wood composites.



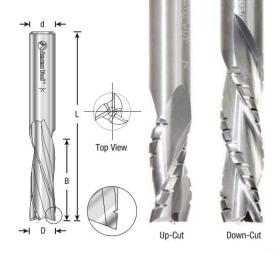




				'Up-Cut'	'Down-Cut' Tool No.	
ØD	В	Ød	L	Tool No.		
1/2	1-1/8	1/2	3	_	46232	
1/2	1-5/8	1/2	3-1/2	46134	46234	
3/4	2-1/4	3/4	4	46138	46238	



CNC feed and speed available online



SPIRAL PATTERN/PLUNGE COMPRESSION

Solid Carbide (Brazed to Steel Shank) • 2 Flute with Upper Ball Bearing

Plunge-cutting straight with a shank-mounted ball-bearing pilot. Useful for template/ pattern routing or parts, joints, internal cuts and can be used in handheld and table-mounted routers. The template is attached to the work-piece and the pilot bearing rides along its edge as the cutting edges rout the work-piece, forming an exact duplicate of the template. For cutting wood, plywood and laminates.







ØD	В	Ød	L	Replacement Bearing	Tool No.	
7/8	1-9/64	1/2	3-15/16	47793	57176	

Replacement parts: Lock Ring #47739, Lock Ring Screw #67091, Lock Ring Key #5002, Washer #67101.

SPIRAL FLUSH TRIM COMPRESSION

Solid Carbide (Brazed to Steel Shank) • 2 Flute with Ball Bearing Guide

Used for trimming laminate work or for template and pattern work. For template application, the bearing follows the template, while the cutting edge trims the work-piece. With the router handheld, the template is on the bottom of the work. With table-mounted router, the template is on top. For cutting wood, plywood and laminates.





ØD	В	Ød	L	Replacement Bearing	Tool No.
22mm	1-9/64	1/2	3-15/16	47798	57174

Replacement parts: Screw #67109; Washer #67101.

SPIRAL FLUSH TRIM COMBINATION New

Solid Carbide (Brazed to Steel Shank) 2 Flute with Upper and Lower Ball Bearing Guide

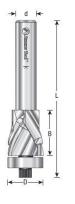
Plunge-cutting straight with a shank-mounted ball-bearing pilot. Useful for template/ pattern routing or parts, joints, internal cuts and can be used in handheld and table-mounted routers. The template is attached to the workpiece and the pilot bearing rides along its edge as the cutting edges rout the work-piece, forming an exact duplicate of the template. For cutting wood, plywood and laminates.



Replacement parts: Screw #67109, Screw Key #5003, Washer #67101, Lock Ring #47739, Lock Ring Screw #67091, Lock Ring Key #5002.











INDUSTRIAL S.C. SPIRAL ROUTER BITS



5-PC. INLAY SPIRAL New PLUNGE DOWN-CUT









1/8" Shank Solid Carbide Spiral Router Bit Set

Spiral-flute bits combine a shearing action in cutting with an augering action in chip clearance. The shearing action yields an especially clean accurate cut while the augering action clears chips from the cut.

The 'Down-Cut' cuts from the surface down leaving a smooth edge at the surface. Special unique carbide grade increased clearance geometry and razor-sharp cutting edges with polished flutes provide a superior finish and longer tool life especially in abrasive materials. Great for production settings and excellent for creating grooves and dado cuts in particleboard, plywood, laminate and wood. Primarily used on CNC machines and other automatic routers. Can be used with handheld and table-mounted portable routers.

Excellent For Cutting:

MDF/HDF

 Veneered Plywood Includes

Wood

Laminate

Set No.

46229, 46231, 46237, 46239 & 46227

AMS-126

8-PC. CNC SPIRAL New DOWN-CUT









1/8" Shank Solid Carbide Spiral Router Bit Set

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Excellent For Cutting:

MDF/HDF

Veneered Plywood

Laminate

· Composite

Includes

Set No.

46402, 46229, 46231, 46237, 46406, 46239, 46235 & 46227

AMS-212

6-PC. CNC ELECTRIC New **GUITAR MAKING SET**









1/4" Shank Solid Carbide & Carbide Tipped Router Bit Set

Designed for creating electric guitars.

Excellent For Cutting:

 MDF/HDF · Veneered Plywood Wood

Laminate

Includes

Set No. AMS-320

46202-K, 45924, 56126, 46403-K, 46315-K, A 49500 ▲ Warning: 49500 is not designed for CNC machine

3-PC CNC SPIRAL BALL NOSE









1/4" Shank Solid Carbide Router Bit Pack

Designed for a wide variety of applications. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

For material cut list visit www.amanatool.com.

Includes

Set No.

46288 (1/8 Dia.), 46389 (3/16 Dia.) & 46376 (1/4 Dia.)

8-PC. SPIRAL BALL NOSE

1/8", 1/4", 3/8" & 1/2" Shank Solid Carbide Router Bit Collection







Excellent For Cutting:

- · Aluminum/Non-Ferrous
- MDF/HDF
- Sign Foam
- Soft/Hard Plastic
- Softwood/Hardwood



Includes

Set No.

46373, 46369, 46376, 46378, 46380, 46424, 46426 & 46446

AMS-180

5-PC. SPIRAL UP-CUT

1/4", 3/8" & 1/2" Shank Solid Carbide Router Bit Collection



Excellent For Cutting:

- MDF/HDF · Veneered Plywood
- Laminate · Composite



Includes

46100, 46101, 46102, 46320, 46106 & RB-122

Set No. AMS-120

8-PC. SPIRAL UP-CUT

1/4", 3/8" & 1/2" Shank Solid Carbide Router Bit Collection



- MDF/HDF · Veneered Plywood
- Laminate Composite



Includes

46100, 46101, 46102, 46315, 46316, 46320, 46104, 46106 & RB-122

Set No. AMS-121

5-PC. SPIRAL DOWN-CUT

1/4", 3/8" & 1/2" Shank Solid Carbide Router Bit Collection

Excellent For Cutting:

- MDF/HDF
- Laminate
- Veneered Plywood
- Composite



Includes

46200, 46201, 46202, 46420, 46206 & RB-122

Set No. AMS-122

8-PC. SPIRAL DOWN-CUT

1/4", 3/8" & 1/2" Shank Solid Carbide Router Bit Collection



- MDF/HDF
- Laminate Composite
- Veneered Plywood



Includes Set No.

46200, 46201, 46202, 46415, 46416, 46420, 46203, 46206 & RB-122 AMS-123

8-PC. SPIRAL UP & DOWN-CUT ,







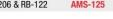
1/4", 3/8" & 1/2" Shank Solid Carbide Router Bit Collection

Excellent For Cutting:

- MDF/HDF
- Laminate · Veneered Plywood Composite

Includes	Set No.
46100, 46101, 46102, 46106, 46200, 46202, 46420, 46206 & RB-123	2 AMS-125









INDUSTRIAL S.C. SPIRAL ROUTER BITS





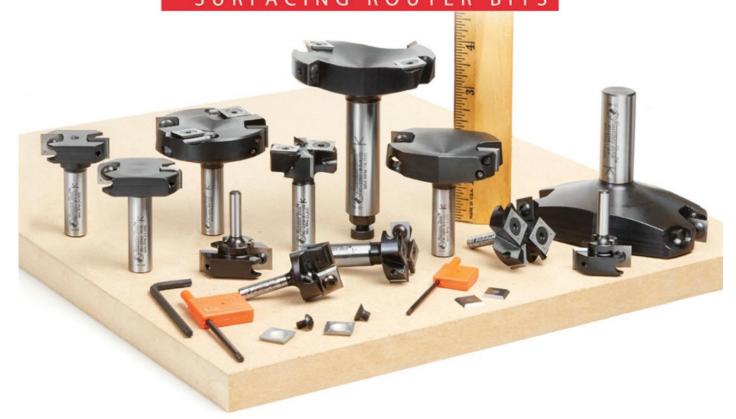












SPOILBOARD SURFACING, RABBETING, FLYCUTTER, SLAB LEVELER & PLANER

Solid Carbide with Scorer and 2+2 Insert Knife Design

Insert router bit complete with two cutting flutes and two up-shear scorers for fast removal of materials over large surface area. The scorer leaves an improved finish at the bottom of the cut. Utilizes 4-sided carbide inserts. Max cutting depth is 1/4".

Perfect for:

- · Resurfacing spoilboards using CNC
- 2+2 spoilboards contain two bottom scorers for better performance, finer surface finish and better clearance for 90° corners.
- · Planing large glued-up panels using CNC
- · Surfacing and finishing wood using timber slab machines
- · Rabbeting and slotting

Designed for planing & rabbeting the following materials:

- MDF
 Fiberboard
- Plywood/Chipboard*Balsa Core*
- HDF/LDF
 Epoxy (Epoxy Resins)*
 - Hardwood/Softwood*
- Plastic/Acrylic*
- . High Density Urethane (HDU Board)*
- Ultra-High-Molecular-Weight Polyethylene (UHMWPE)*

Recommendations: For surfacing solid woods it is recommended to remove both bottom scorers.



ØD	В	Ød	L	Repl. MDF Knives	Max RPM	Tool No.
2-1/2	15/32	1/2	2-1/2	HMA-12, HCK-70	19,000	RC-2251
2-1/2	15/32	1/2	2-1/2	HMA-12, HCK-70	19,000	RC-2351 * New
80mm(3-5/32)	15/32	3/4	90mm(3-1/2)	HMA-12 HCK-70	18 000	RC-2252 ♦

HMA-12

HCK-70

* For Thermogrip® CNC Heat Shrink Tool Holders.

Optional General Purpose knives: #AMA-12 & #RCK-70.

Optional Solid Wood DLC[†] coated knives: #AMA-12-DLC & #RCK-70-DLC.

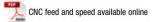
Replacement screws: bottom: (2) #67155; sides: (2) #67110.

Torx® key: bottom: #5015; sides: (2) #5005.

† Diamond-Like Carbon (DLC) is a nanocomposite coating that has unique properties of natural diamond low friction, high hardness and high corrosion resistance.

▲ Warning: Proper torques rating to tighten down screws is 2-3Nm Torques.

▲ Warning: Make sure that your router sled rails are fully stable and squared.





2+2 Insert Knife Technology Provides Highest Quality of Cut

This insert spoilboard router bit with scorers features a unique 2+2 knife design that contains two cutting flutes and two up-shear scorers, which provide a smoother finish at the bottom of the cut than traditional two-knife style router bits.

Engineered with an Amana-exclusive carbide grade for the highest quality of cut, maximum cutting efficiency and faster material removal process. These industrial router bits feature insert knives with four cutting edges that allow users to rotate the knife when one side becomes dull. Great for surface planing.





INDUSTRIAL SPOILBOARD ROUTER BITS

^{*} For optimal results and maximum insert life, replace inserts with optional general purpose knives (sold separately).

[•] CNC use only and not for use in router sled.



Tool holder sold separately

MINI SPOILBOARD SURFACING, RABBETING, FLYCUTTER, SLAB LEVELER & PLANER

Insert Carbide with Scorer and 2+2 Knife Design

Mini design for tight corners. Exclusive carbide grade for highest quality of cut. Mini insert spoilboard surfacing & rabbeting with scorer utilizes 4-sided carbide inserts, great for cutting tight corners. Features unique 2+2 insert knife design that contains two cutting flutes and two up-shear scorers, which provide a smoother finish at the bottom of the cut than traditional two-knife style router bits. Max cutting depth is 1/4".

Perfect for:

- · Resurfacing spoilboards using CNC
- 2+2 spoilboards contain two bottom scorers for better performance, finer surface finish and better clearance for 90° corners
- · Planing large glued-up panels using CNC
- · Surfacing and finishing wood using timber slab machines
- · Rabbeting and slotting

Designed for planing & rabbeting the following materials:

- MDFFiberboardHDF/LDF
- Plywood/Chipboard*
- Plastic/Acrylic*
- Balsa Core*
- HDU Board*
 UHMWPE*
- Epoxy (Epoxy Resins)*Hardwood/Softwood*
- * For optimal results and maximum insert life, replace inserts with optional general purpose knives (sold separately).





ØD	В	Ød	L	Repl. MDF Knives	Max RPM	Tool No.
1-1/4	27/64	1/2	2-17/64	RCK-450, RCK-452	24,000	RC-2247
1-1/2	1/2	6mm	1-13/16	HMA-12, HCK-70*	24,000	RC-2239 New
1-1/2	1/2	1/4	1-13/16	HMA-12, HCK-70*	24,000	RC-2249 ★
1-1/2	1/2	12mm	2-5/16	HMA-12, HCK-70*	24,000	RC-2253 ★
1-1/2	1/2	1/2	2-5/16	HMA-12, HCK-70*	24,000	RC-2250

- * Optional General Purpose knives #AMA-12 & #RCK-70.
- * Optional Solid Wood DLC[†] coated knives: #AMA-12-DLC & #RCK-70-DLC.
- † Diamond-Like Carbon (DLC) is a nanocomposite coating that has unique properties of natural diamond low friction, high hardness and high corrosion resistance.

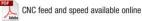
#RC-2247 replacement screws: bottom: (2) #67123, key #5090; sides: (2) #67115, key #5005. #RC-2249, #RC-2250 & #RC-2253 repl. screws: bottom: (2) #67155, key #5015; sides: (2) #67115, key #5005.

Note: This tool is not designed to plunge! You must ramp down to a depth of 1/4" deep over a 20" run. Use the max RPM allowed (24,000) and start the feed rate at about 320 inches per minute, and go up until you get waves, then back down to a smooth cut/finish.

* Warning: For CNC use only.

▲ Warning: Proper torques rating to tighten down screws is 2-3Nm Torques.

▲ Warning: Make sure that your router sled rails are fully stable and squared.



THERMOGRIP® CNC HEAT SHRINK TOOL HOLDERS

New

Heavy Duty Spoilboard Plunging, Surfacing, Planing, Flycutter & Slab Leveler • Insert Carbide

ØD	В	Ød	L	Repl. MDF Knives	B1	D1	D2	Flute	Max RPN	Tool No.
2-1/2	" 15/32"	1/2"	2-1/2"	HMA-12, HCK 70	-	_	-	2+2	19,000	RC-2351
2-1/2	" 53/64"	1/2"	2-19/32	RCK-459	1/2"	2"	5/64"	3	18,000	RC-2255-TG
3/27/3	2" 1-7/32"	3/4"	3-25/64	' RCK-459	1/4"	3-11/32"	5/64"	5	12,000	RC-2259-TG**
** DC	2250 TC	Not f	or uco in	router cled						

V-Groove, Miter Fold, Signmaking & Lettering • Insert Carbide

	a°1		В	1	Repl. MDF Knives				L	Max RPM	Tool No.
91°	45.5°	2-5/8	1-5/16	1-13/1	6 RCK-356	3/4	1	2-3/8	3-7/8	18,000	RC-1028-TG*

Replacement Parts for Item#	Optional General Purpose Knives	Optional Solid Wood (DLC Coating) Knives	Scew	Key
RC-2351	AMA12, RCK-70	AMA-12-DLC,RCK-70-DLC	bottom: (2) #67155 sides: (2) #67110	
RC-2255-TG	RCK-457	RCK-457-DLC	67110 (3)	5005
RC-2259-TG	RCK-457	RCK-457-DLC	67110 (5)	5005
RC-1028-TG	RCK-117	1	67110	5005



- Two cutting flutes and two up-shear scorers, which provide a smoother finish at the bottom of the cut than traditional two-knife style router bits.
- · Mini design for tighter corners
- Utilizes 4-sided carbide inserts
- Exclusive carbide grade for highest quality of cut
- Maximum cutting efficiency
- Faster material removal process



Torx® key included



RC-2259-TG





CNC HEAVY DUTY SPOILBOARD PLUNGING, SURFACING, PLANING, FLYCUTTER & SLAB LEVELER

Insert Carbide • 3 Wing and 5 Wing

Insert carbide spoilboard surfacing & chamfering router bit utilizes 4-sided carbide inserts, great for planing large surface areas. Higher number of teeth allows for a higher feed rate. Featuring solid carbide insert knives with four cutting edges that allow users to rotate the knife when one side becomes dull providing the highest-quality finish available.

- Capable of removing thin layers of material, less than 0.001" per pass
- . Tool can plunge up to a maximum depth of 6mm (1/4"), then start resurfacing
- The unique chamfer corner insert design creates a flawless surface
- . The 3 wing and 5 wing design results in a more balanced tool while running

Designed for planing & chamfering the following materials:

- MDF
- Fiberboard
- HDF/LDF
- Plywood/Chipboard*
- Balsa Core*
- Hardwood/Softwood*
- Plastic/Acrylic*
- HDU Board*
- · Epoxy (Epoxy Resins)* UHMWPE*

Perfect for:

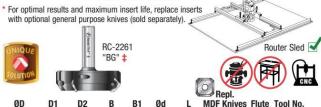
- · Resurfacing spoilboards using CNC
- · Surfacing and finishing wood using timber slab machines

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- · Planing large glued-up panels using CNC
- · Rabbeting and slotting

Featuring:

- · Exclusive carbide grade for highest quality of cut
- · Utilizes 4-sided carbide inserts
- · Maximum cutting efficiency
- · Faster material removal process

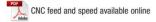


ØD	D1	D2	В	B1	Ød	L	MDF Knives	Flut	e Tool No.	
1-1/2	1-5/64	5/64	3/4	3/16	1/4	2	RCK-453 †	3	RC-2265	New
1-1/2	1-5/64	5/64	3/4	3/16	6mm	2	RCK-453 †	3	RC-2265-M	New
1-3/4	1-21/64	5/64	3/4	3/16	1/2	2-15/64	RCK-453 †	3	RC-2267	New
2-1/2	2	5/64	53/64	1/4	1/2	2-19/32	RCK-459 **	3	RC-2261 ‡	New
2-1/2	2	5/64	53/64	1/4	1/2	2-19/32	RCK-459 **	3	RC-2255	
2-1/2	2	5/64	53/64	1/4	12mm	2-19/32	RCK-459 ***	3	RC-2255-M	New
2-1/2	2	5/64	53/64	1/4	1/2	2-19/32	RCK-459 ***	3	RC-2255-TG*	New
2-3/4	2-1/4	5/64	53/64	1/4	1/2	2-19/32	RCK-459 **	3	RC-2263	New
3-27/32	3-11/32	5/64	1-7/32	1/4	3/4	3-25/64	RCK-459 **	5	RC-2259 ★	
3-27/32	3-11/32	5/64	1-7/32	1/4	3/4	3-25/64	RCK-459 ***	5	RC-2259-TG*★	Nev

- * For Thermogrip® CNC Heat Shrink Tool Holders.
- † Optional Solid Wood DLC coated knives: #RCK-453-DLC.
- ** Optional General Purpose knives #RCK-457
- ** Optional Solid Wood DLC coated knives: #RCK-457-DLC.

Repl. screws: (5) #67110, key #5005

- * Not for use in router sled.
- ‡ Anti-kick back design (BG Compliance). For use on hand-held router, router table and CNC.
- ▲ Warning: Proper torques rating to tighten down screws is 2-3Nm Torques.
- A Warning: Make sure that your router sled rails are fully stable and squared.









SPOILBOARD SURFACING, RABBETING, FLYCUTTER, SLAB LEVELER & SURFACE PLANER

Insert Carbide • 2-Wing

These industrial router bits feature solid carbide insert knives with four cutting edges that allow users to rotate the knife when one side becomes dull, providing the highest-quality finish available on woodworking tools. Used in resurfacing of particleboard, MDF and balsa core material. Optional general purpose knives for chipboard, balsa core, hardwood/softwood and plastic.

Perfect for:

- · Resurfacing spoilboards using CNC
- · Planing large glued-up panels using CNC
- · Surfacing and finishing wood using timber slab machines
- · Rabbeting and slotting



- . Utilizes 4-sided carbide inserts
- Exclusive carbide grade for highest quality of cut
- · Maximum cutting efficiency
- · Faster material removal process

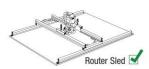
Designed for planing & rabbeting the following materials:

- MDF
- Fiberboard
- HDF/LDF
- Plywood/Chipboard* Balsa Core*
- · Hardwood/Softwood*
- Epoxy (Epoxy Resins)*
- Plastic/Acrylic* HDU Board*
- UHMWPE*
- * For optimal results and maximum insert life, replace inserts with optional general purpose knives (sold separately).



RC-2258

HMA-12 †









RC-2258 ♦*

								FING CNC
ØD	В	Ød	L	Max Cut Depth (A)	Repl. MDF Knives	Repl. Screws	Max RPM	Tool No.
1	12mm	1/4	2-1/64	1/4	HMA-12 †	67115	24,000	RC-2243+
1-1/4	12mm	1/4	1-11/16	1/4	HMA-12 †	67117	18,000	RC-2245 +
1-1/4	12mm	1/2	2-1/8	1/4	HMA-12 †	67117	24,000	RC-2254 + New
1-1/2	12mm	6mm	1-11/16	1/4	HMA-12 †	67117	24,000	RC-2256+
1-1/2	12mm	1/4	1-11/16	1/4	HMA-12 †	67117	24,000	RC-2248+
1-1/2	12mm	1/2	2-3/16	1/4	HMA-12 †	67117	24,000	RC-2241
1-1/2	1/2	1/2	2-1/2	3/8	_	_	14,500	DRB-440 ♦* 💝
1-3/4	12mm	1/2	1-49/64	_	RCK-344	67115	28,000	RC-2242 **
2-1/2	1/2	1/2	2-1/2	1/4	HMA-12 †	67110	19,000	RC-2257 ♦
75mm (3)	10mm (13/32)	1/2	2-3/4	-	_		18,000	DRB-442 ♦*

4 + Mini Design.

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RC-2248

В

† Optional general purpose knives #AMA-12, Optional Solid Wood DLC1 coated knives: #AMA-12-DLC

3-11/64

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RC-2242

RC-2242: Rotate inserts for straight

edge cut.

- Diamond-Like Carbon (DLC) is a nanocomposite coating that has unique properties of natural diamond low friction, high hardness and high corrosion resistance.
- *** Best recommended for planing/flattening in surfaces of large solid wood slabs with a handheld router in router sleds. Features a 1/8 radius 5° bevel, making this tool unique compared to other spoilboard bits. Not to be used for slot cutting.
- Polycrystalline Diamond (PCD) for extremely long life.

1/2

A Warning: Proper torques rating to tighten down screws is 2-3Nm Torques.

3/4

- **A Warning:** Make sure that your router sled rails are fully stable and squared.
- CNC use only. * Not for use in router sled.







13,000

SPOILBOARD SURFACING, RABBETING, New FLYCUTTER, SLAB LEVELER, SURFACE PLANER & FLATTENING

Carbide Tipped • 3 & 4 Flute

Carbide tipped spoilboard surfacing & rabbeting router bit great for cutting tight corners and surface planing. Also suitable for router sled machines, Make sure that your router sled is fully stable and squared.

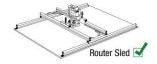
Perfect for:

- · Resurfacing spoilboards using CNC
- · Planing large glued-up panels using CNC
- · Surfacing and finishing wood using timber slab machines
- · Rabbeting and slotting

Designed for planing & rabbeting the following materials:

- MDF
- Balsa Core
- Fiberboard
- Hardwood/SoftwoodPlastic
- HDF/LDFChipboard
 - PI







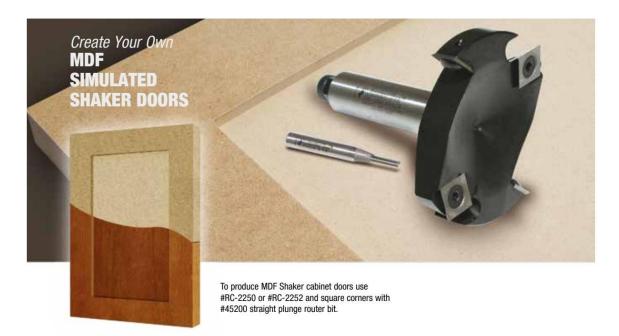




ØD	В	Ød	L	Flute	Max RPM	Tool No.
1-1/4	9/16	1/4	2	2	28,000	45528
1-1/4	9/16	1/2	2-1/4	2	28,000	45529
1	1/4	1/4	1-3/4	3	28,000	45522
28.5mm	12.5mm	6mm	46mm	3	28,000	45523
1-1/8	1/2	1/4	1-13/16	3	28,000	45525
1-1/2	1/2	1/2	2-1/4	4	28,000	45526
2	1/2	1/2	2-1/2	4	28,000	45527





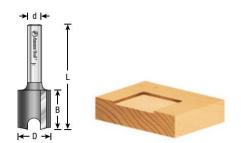


INDUSTRIAL SPOILBOARD ROUTER BITS



Mortising is one of the most common woodworking operations. Mortise-and-tenon joints, hinges and locks, grooves and dadoes, all require the precise removal of material.

Whether you need a deep mortise for a strong, interlocking joint on a chair or a shallow mortise for hardware installation, Amana Tool® has a bit for the task. Some bits even have an upper guide bearing for use with a template. All of our mortising bits have Amana's renowned quality; your assurance of efficient, precise cuts and long tool life.



MORTISING

Carbide Tipped • 2 Flute

Cutting mortises for hinges and locks can be challenging; the mortise depth must be accurate for smooth operation and the edges must be sharp for a clean, professional installation. These mortise bits make hardware installation a snap. The large gullet between the two flutes clears chips away quickly and the cutter geometry creates a crisp outline for a perfect fit.

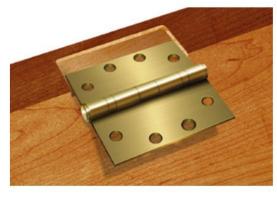






ØD	В	Ød	L	Tool No.
1/2	1/2	1/2	2-3/8	45184 New
1/2	3/4	1/4	2	45500
5/8	3/4	1/4	2	45502
3/4	3/4	1/4	2	45504
3/4	5/8	1/2	2-1/4	45181*
1-1/4	1/2	1/4	2-1/4	45183 New
1-1/4	3/4	1/2	2-1/4	45505









NOTE:

A proper mortising bit, as shown, should have a large gullet between the two flutes, as indicated with an arrow. This allows greater chip clearance and removal.



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Template

MORTISING WITH UPPER BALL BEARING

Carbide Tipped • 2 Flute • Down-Shear Design

There is no faster method for producing multiple mortises than with a template. The accuracy achieved with a template is unparallel. These mortise bits are specially designed for use with templates, both linear and curved.

If you've ever used a bushing with template work then you'll appreciate these bearingguided bits; there's no need to calculate offset - ever. Instead, the mortise is sized exactly to the template. And, unlike a bushing on the router sub-base, the guide bearing is always concentric to the cutting circle of the bit. This ensures precise cuts each and every time.







			Replacement					
ØD	В	Ød	L	Bearing	Collar	Tool No.		
1/2	3/4	1/4	2-3/8	47701	47724	45582		
5/8	3/4	1/4	2-3/8	47712	47724	45584		
3/4	3/4	1/4	2-7/16	47714	47724	45586		
1-1/4	1/2	1/2	2-5/8	47756	47740	45590		



MORTISING

Carbide Tipped • 2 Flute • Down-Shear Design

Intended for hinge mortising, this bit is an excellent choice for cutting laps and tenons as well. The sides and bottom of the cut are exceptionally smooth. The down-shear design reduces chipping along the top edge of the cut, especially in laminates, veneered plywood and MDF. The large gullet between the cutting edges provides excellent chip clearance.







ØD	В	Ød	L	Tool No.
1/2	5/16	1/4	1-7/16	45570
3/4	3/4	1/2	2-1/4	45576
1-1/4	1/2	1/2	2	45580



MORTISING FOR BOTTOM CLEANING WITH UPPER BALL BEARING

Carbide Tipped • 2 Flute • Up-Shear Design

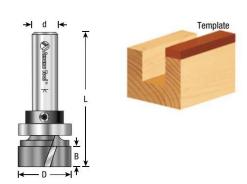
Shank-mounted ball-bearing for pattern and template routing.













INDUSTRIAL MORTISING ROUTER BITS



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B1



MORTISING FOR BOTTOM CLEANING

Carbide Tipped • 2 Flute • Up-Shear Design

This bit is intended for broad, very shallow cuts, where an exceptional finish is desired. Use it to clean up previously cut dadoes and grooves, or for surfacing cuts. The up-shear configuration improves chip removal, while the cutting-edge orientation produces a smooth surface.

	M	(F
H.	H	у.
	200	1

ØD	В	Ød	L	Tool No.
3/4	7/16	1/4	2-1/4	45560 New
3/4	7/16	1/2	2-1/2	45562
1	7/16	1/4	2-1/2	45568 New
1	7/16	1/2	2-1/2	45564
1-1/4	1/2	1/4	2-1/8	45571 New
1-1/2	5/8	1/4	2-3/4	45569
1-1/2	5/8	1/2	2-3/4	45566



UP-SHEAR BIT SLOT MORTISER

Carbide Tipped • 2 Flute

These bits are designed to do deep slot and holes for tenon, especially in doors, chairs, tables, etc. Special carbide with a 1" long up-shear and chipbreaker for fast cuts and chip clearance. For use in lock mortising and door machines.

For Slot Mortiser Only



ØD	В	B1	Ød	L	Tool No.
1/2	1	2-3/4	1/2	6	45540 ▲
5/8	1	4-3/4	1/2	6-5/8	45542 ▲
3/4	1	4-3/4	1/2	6-5/8	45544 A

▲ Warning: DO NOT USE THESE BITS ON A DRILL PRESS MACHINE UNDER ANY CIRCUMSTANCES!









HINGE AND LOCK FACE MORTISING/DADO **SCREW TYPE CUTTER**

Replaces Her-Saf® Style • Carbide Tipped • Single & 2 Flute

Mortise doors to fit hinges, locks, lock face plates and for general stock removal. All cutters fit threaded arbors (see threaded arbor table below).

Down Shear

Down onou					- I - GMG	•
ØD	В	Thread	L	Flute	Tool No.	
1/2	0.605"	1/4" - 28	_	2	55251	
1/2 + 0.015	9/16	1/4" - 28	_	2	55277	
9/16	9/16	1/4" - 28	_	2	55279	
19/32	9/16	1/4" - 28	_	2	55281	
5/8	9/16	1/4" - 28	_	2	55259	
5/8 + 0.015	9/16	1/4" - 28	_	2	56250	
11/16	9/16	1/4" - 28	_	2	56251	
23/32	9/16	1/4" - 28		2	56252	
3/4 - 0.015	12mm	1/4" - 28	37mm	1	RC-55248	
3/4 - 0.015	9/16	1/4" - 28	_	2	55285	
3/4	9/16	1/4" - 28	_	2	55250	Ne
3/4 + 0.015	9/16	1/4" - 28	_	2	55248	
25/32	9/16	1/4" - 28	_	2	56253	
13/16	9/16	1/4" - 28	_	2	55249	
7/8	9/16	1/4" - 28	_	2	55252	
15/16	9/16	1/4" - 28	_	2	55149	
1	9/16	1/4" - 28	_	2	55254	
1-1/8	9/16	1/4" - 28	_	2	55256	
1-1/4	9/16	1/4" - 28	_	2	55257	
1-1/4	11/16	1/4" - 28	-	2	56254	
1-1/4	5/8	1/4" - 28	_	2	55258	
1-1/4	5/8	5/16" - 24	79	2	55255 *	

Arbors: 1/4" Shank use #47611. 1/2" Shank use #47614.

* Use arbor #47616.

Straight Style - No Shear

ØD	В	Thread	L	Tool No.
1/8 + 0.015	3/8	1/4" - 28	1-7/16	56268
1/4	1/2	1/4" - 28	1.360	56270
1/4 + .015	1/2	1/4" - 28	1.360	56272
9/32	1/2	1/4" - 28	1.360	56273
5/16 + .015	1/2	1/4" - 28	1.360	56275
3/8	9/16	1/4" - 28	1.360	56274
3/8 + .015	9/16	1/4" - 28	1.360	56276

DOVETAIL SCREW TYPE CUTTERS

Used with half-blind dovetail jigs, as well as with Omnijig®, Incra® and Leigh® jigs. All cutters fit threaded arbors.





				_		•
ØD	a°	В	Thread	L	Tool No.	
3/8	9°	3/8	1/4" - 28	1-1/8	56281	
7/16	100	2/9	1//" - 28	1_1/9	EC202	

THREADED ARBOR

For Screw Type Mortising Cutters (above tables)

For Use With Cutter(s):	ØD	Ød	L1	В	L	Tool No.
#55250 through #55258	1/4-28NF	1/4	1-7/16	1/4	1-13/16	47611
#55251	1/4-28NF	1/4	1-1/4	15/32	1-13/16	47615
#55255	5/16-24NF	1/4	1-7/16	1/4	1-13/16	47616
#55250 through #55258	1/4-28NF	1/2	1-1/2	1/4	1-1/2	47614

Due to application, these arbors are not furnished with hex nut or washers.





Dovetail Style



INDUSTRIAL MORTISING ROUTER BITS

11 100-121 copy 2019 Routing_Spiral Compression-Straight_Spiral - Spoilboard matt.indd 125













Fits Porter-Cable® & other

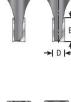
















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FLUSH TRIM PLUNGE TEMPLATE

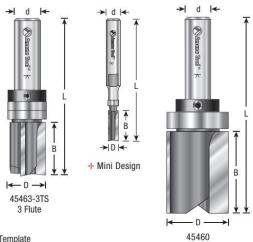
Carbide Tipped • 2 & 3 Flute with Upper Ball Bearing

This bit is essentially a plunge-cutting straight with a shank-mounted ball-bearing pilot. Versatile, useful for template/pattern routing of parts, joints, internal cuts and can be used in handheld and table-mounted routers.













5-Packs Includes Tool No. New 45460 (5 Pcs. each) 45460-5





an	ь	۵4		Flute	Dani Dani	Dani Call-	Tool No.
ØD	B	Ød	L	Flute	Repl. Bearing	Repl. Collar	
3/16	1/4	1/4	1-3/4	2	47775	-	47222-S+
3/16	1/2	1/8	2	2	47775		47220 +
3/16	1/2	1/4	2	2	47775	-	47222 +
1/4	1/8	1/4	2	2	47723(2)	7-	47221-S**+
1/4	1/4	1/8	1-15/16	2	47723	_	47223-S+
1/4	1/4	1/4	2-1/2	2	47723	_	47224-S+
1/4	3/4	1/4	2-7/16	2	47723	_	47224 +
3/8	1/2	1/4	2	2	47751(2)	47764	45475 **
3/8	1	1/2	3-1/4	2	47751	_	47226
1/2	3/8	1/4	2-1/4	2	47701	47724	45481
1/2	1/2	1/4	2	2	47701	47724	45487
1/2	1/2	1/2	2-3/4	2	47701	-	47228-S New
1/2	3/4	1/4	2-1/4	2	47701	47724	45491
1/2	3/4	8mm	2-3/4	2	47701	_	45493-M New
1/2	1	1/4	2-1/2	2	47701	47724	45460
1/2	1-1/4	1/4	2-3/4	2	47701	47724	45461
1/2	1-1/4	1/2	3-1/2	2	47701	_	47228
9/16	3/4	1/4	2-5/16	2	47753	47724	45361
5/8	1/2	1/4	2-1/4	2	47712	47724	45482
5/8	3/4	1/4	2-1/2	2	47712	47724	45483
5/8	3/4	1/4	2-5/8	2	47712	47724	45470
5/8	1	1/4	2-3/4	2	47712	47724	45462
5/8	1-1/4	1/2	3-1/2	2	47713	_	47229 New
3/4	3/4	1/4	2-3/8	2	47714	47724	45485
3/4	3/4	1/2	2-3/4	2	47721(2)	47739	45463-S
3/4	1	1/4	2-1/2	2	47714	47724	45464
3/4	1	1/2	3	2	47721	47739	45463
3/4	1-3/4	1/2	3-3/4	2	47721	47739	45465
3/4	2	1/2	4	2	47721(2)	47739	45366
7/8	1-9/64	1/2	3-15/16	2	47793	-	57176
1	1	3/8	2-7/8	2	47722	47730	45466
1	1	1/2	2-3/4	2	47745	47740	45365
1	1-3/4	1/2	3-3/4	2	47754	47739	45467
1-1/8	1	1/2	3	2	47738	47740	45550
1-1/8	1-1/2	1/2	3-1/2	2	47738	47740	45468
1-1/8	2	1/2	4	2	47738	47740	45551
1-1/4	1-1/2	1/2	3-3/8	2	47747	47740	45367
1-1/2	1-3/4	1/2	3-3/4	2	47749	47740	45368
3/8	1/2	1/4	2	3	47751	47764	45475-3TS
1/2	1/2	1/4	2-1/2	3	47701	47724	45487-3TS
1/2	1	1/4	2-1/2	3	47701	47724	45460-3TS
	1	1/2	3	3	47721(2)	47739	45463-3TS**
3/4							

- + Attention: Reduce RPM & Feed Rates (IPM) by 30-50% to prevent tool breakage due to extremely small diameter (D). Bits are not guaranteed due to extremely small diameter. Designed for use in intricate and delicate projects with or without tight spaces. Do not flush trim material more than half the diameter of the bearing and slow down feed to reduce load.
- ** Double bearing.

FLUSH TRIM PLUNGE TEMPLATE UP-SHEAR AND DOWN-SHEAR

Carbide Tipped • 2 & 3 Flute with Upper Ball Bearing

This bit is essentially a plunge-cutting straight with a shank-mounted ball-bearing pilot. Versatile, useful for template/pattern routing of parts, joints, internal cuts and can be used in handheld and table-mounted routers.

Down-Shear Angle - The shear angle cuts faster, cleaner and lasts longer than straight angle because of the chip removal speed. We recommend using shear angle in most instances especially where large diameters are used.









Down-Shear ØD Ød Flute Repl. Bearing Repl. Collar Tool No. 3/4 1-1/4 1/2 3-1/4 47721(2) 47739

3/4	1-1/2	1/2	3-1/2	2	47721(2)	47739	45362 **
3/4	2	1/2	4	2	47721(2)	47739	45364 **
3/8	1/2	1/4	2	3	47751	47764	45475-3DS*
1/2	1	1/4	2-1/2	3	47701	47724	45460-3DS*
3/4	1	1/2	3	3	47721(2)	47739	45463-3DS**

* Single bearing. ** Double bearing.

Up-Shear New

ØD	В	Ød	L	Flute	Repl. Bearing	Repl. Colla	ar Tool No.
3/8	1/2	1/4	2	3	47751	47764	45475-3US*
1/2	1	1/4	2-1/2	3	47701	47724	45460-3US*
3/4	3/8	1/2	3-1/4	3	47721(2)	47739	45366-3US**
3/4	1	1/2	3	3	47721(2)	47739	45463-3US **

† One of the carbide flutes goes over the center for better plunging.

RDER CARBIDE

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→ D I← Up-Shear 3 Flute









Down-Shear 3 Flute





MINI FLUSH TRIM PLUNGE TEMPLATE

Carbide Tipped with Mini Upper Ball Bearing Guide

These exclusive miniature bits feature either a 3/16" or 1/4" diameter ball bearing guide that is much smaller than other ball bearing router bits, making them ideal for delicate projects such as sign-making, building musical instruments, routing letter edges, flush trimming and plunging tight corners and confined areas and high production.

The bits can fit into tight spaces and sharp corners where a larger diameter bearing cannot, making it easier for users to work on finely detailed work pieces that have intricate contours, tight confines and narrow openings.

The series' innovative design also delivers a consistent edge that eliminates hand sanding or filing, thus saving users time and labor.

Can be used on wood and plastics.

ØD	В	d	L	Repl. Bearing	Tool No.	
3/16	1/4	1/4	1-3/4	47775 (3/16)	47222-S	
3/16	1/2	1/8	2	47775 (3/16)	47220	
3/16	1/2	1/4	2	47775 (3/16)	47222	
1/4	1/8	1/4	2	47723 (2) (1/4)	47221-S	New
1/4	1/4	1/8	1-15/16	47723 (1/4)	47223-S	
1/4	3/4	1/4	2-7/16	47723 (1/4)	47224	
1/4	1/4	1/4	2-1/2	47723 (1/4)	47224-S	

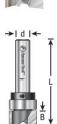
Attention: Reduce RPM & Feed Rates (IPM) by 30-50% to prevent tool breakage due to extremely small diameter (D). Bits are not guaranteed due to extremely small diameter. Designed for use in intricate and delicate projects with or without tight spaces. Do not flush trim material more than half the diameter of the bearing and slow down feed to reduce load.



INDUSTRIAL TRIM ROUTER BITS

^{*} Single bearing. ** Double bearing.







5-Packs Includes	Tool No.
45475-S (5 Pcs. each)	45475-S-5
45460-S (5 Pcs. each)	45460-S-5













DADO CLEAN-OUT

Carbide Tipped • 2 Flute • 1/4" Shank • With Ball Bearing Guide

Bits are designed with a 1/4" cutting edge for dado clean-out. Also used in hardwood and flooring medallions.

For template application, the bearing follows the template, while the cutting edges trim the workpiece. With the router handheld, the template is on the bottom of the work. With a table-mounted router, the template is on top.

ØD	В	Ød	L	Repl. Bearing	Repl. Collar	Tool No.
3/8	1/4	1/4	1-3/4	47751(2)	47764	45475-S†
1/2	1/8	1/4	1-3/4	47701	47724	45489-S
1/2	1/4	1/4	1-5/8	47701	47724	45460-S
9/16	3/8	1/4	1-27/32	47753	47724	45474-S *
5/8	1/4	1/4	1-3/4	47712	47724	45462-S
3/4	1/4	1/4	1-3/4	47714	47724	45464-S

[†] Double bearing.

FLUSH TRIM TEMPLATE

Insert Carbide • 2 Flute with Upper Ball Bearing

Insert carbide is the economical way to go. Each knife has two edges; saves down time. We have three different grades of carbide for various

applications, such as: hardwood/softwood, MDF, solid surface, chipboard and plywood.



高角似



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Ι.	K		
1	Tool	No.	

ØD	В	Ød	L	Replacement Knives	Tool No.
3/4	30mm	1/2	3-1/4	RCK-30	RC-1230
3/4	50mm	1/2	3-15/16	RCK-151	RC-2400**

^{**} This tool is meant for difficult work. The knives are held with 3 screws. Replacement parts: Bearing #47721; Collar #47739; Knife screws #67115.

FLUSH TRIM PLUNGE TEMPLATE

Carbide Tipped • 2 Flute with Oversized Upper Ball Bearing

For template use with specified jigs.





Jigs	ØD	D1	В	Ød	L	C	Bearing	Tool No.
Porter-Cable® Morten;™ Morten & Tenon, Omnijig®	5/16	1/2	3/4	1/4	2-3/4	3/32	47701	45495
Porter-Cable® Morten;™ Morten & Tenon, Omnijig®	5/16	1/2	1	1/4	2-23-32	3/32	47701	45371
Hinge-Mate™ II Template	1/2	3/4	1/4	1/4	1-7/8	1/8	47714	45496
Replacement for "Porter-Cable®" bit #4367 butts with Porter-Cable® k								45484
	9/16	1/2	9/16	1/4	2-5/16	1/32	47712	45372

Replacement collar #47724.

8-PC. FLUSH TRIM PLUNGE TEMPLATE

1/8", 1/4" & 1/2" Shank • Carbide Tipped Router Bit Collection

Extremely small cut diameter trim bits for tight turns. The exclusive miniature bit features either a 3/16" or a 1/4" diameter ball bearing guide that is much smaller than other ball bearing router bits on the market.





^{*} Tambour groove/slot bit.

FLUSH TRIM

Carbide Tipped • 2 Flute • With Ball Bearing Guide

Flush trimming bits are for laminate, template and pattern. Good general-purpose choice, providing fast cuts and good finishes. Excellent for template work.



ØD	В	Ød	L	Tool No.
3/16	7/16	1/8	1-23/32	MR0105 ***
3/16	7/16	1/4	2	MR0102 ***
3/16	3/4	1/4	2-7/16	MR0103 ***
1/4	1/2	1/4	2-1/4	47090 *
1/4	1	1/4	2-1/2	47092 *
3/8	1/2	1/4	2-1/8	47102
3/8	1	1/4	2-5/8	47100
3/8	1	3/8	2-7/8	47103 [†]
3/8	1	1/2	3-1/8	47101
3/8	1-1/4	1/4	2-3/8	47093
1/2	8mm(5/16)	1/4	2-1/4	RC-2000 📉
1/2	7/16	1/4	2-19/64	DRB-400
1/2	1/2	1/4	2-1/4	47106
1/2	1/2	1/2	2-3/4	47110
1/2	13/16	1/4	2-5/16	RC-47104
1/2	1	1/4	2-5/8	47104
1/2	1	1/4	2-53/64	DRB-404
1/2	1	3/8	2-7/8	47112
1/2	1	1/2	3-1/4	47108
1/2	1-1/4	1/4	2-3/4	47117
1/2	1-1/2	1/2	3-7/8	47124
1/2	2	1/2	4-1/4	47126
3/4	1	1/2	3-1/4	47140
3/4	1-1/4	1/2	3-1/2	47141
7/8	1-9/64	1/2	3-15/16	57174 **
4-Pc Set in	cludes 47092(1/4), 4	7100(3/8), 4710	06(1/2) & 47150(.059R)	AMS-105 Nev

Replacement Bearings: 1/4" dia. use #47723, 3/8" dia. use #47702, 1/2" dia. use #47706, 3/4" dia. use #47714. Undersized bearing (.492" dia.), use #47715 - for use after re-sharpening (1/2" dia. only). * 1/4" diameter for closer inside corner cutting only; bearings not guaranteed due to size.

- Replacement knife #RCK-262 (2 required). Replacement knife #RCK-8 (2 required).
- Polycrystalline Diamond (PCD) for extremely long life. Also good to cut composites and trim ACM materials and Aluminum. † Single Flute, for the RV industry.
- *** Replacement bearing #47798. *** Miniature with 3/16" ball bearing guide #47775.

For an extremely smooth finish, choose the three-flute configuration. It is especially good to use on laminates that tend to chip easily.

ØD	В	Ød	L	Tool No.
1/2	1/2	1/4	2	47116
1/2	1/2	1/2	2-5/8	47120
1/2	1	1/4	2-5/8	47114
1/2	1	1/4	2-29/32	57180 ** New
1/2	1	1/2	3-1/4	47118
1/2	1	1/2	3-5/8	47118-2 ••

Standard replacement bearing (.500" dia.), use #47706.

Undersized bearing (.492" dia.), use #47715 - for use after re-sharpening.

- .. Double ball bearing for added stability.
- ** Replacement bearings #47706 (bottom), #47701 (top). Retaining collar #47724.

Super-smooth cut finish. Feed rate is reduced, chipping is virtually eliminated.

ØD	В	Ød	L	Tool No.
3/4	1	1/2	3	57184
3/4	1	1/2	3-25/32	57181 ** New
3/4	1-1/2	1/2	4	57185
3/4	2	1/2	4-1/2	57186
3/4	2	1/2	4-3/4	57187 ***

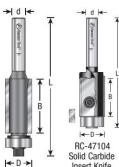
Standard replacement bearing (steel) use #47714.

Optional Delrin® replacement bearing use #47709, for solid surface application.

- ** Replacement bearings #47714 (bottom), #47721 (2 top). Retaining collar #47739.
- *** Replacement bearings #47714 (bottom), #47721 (2 top). Retaining collar #47740.



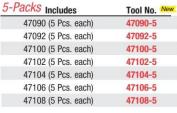
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2 Flute













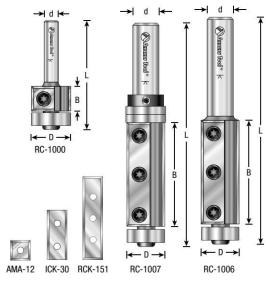
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4 Flute

Double Ball Bearing



INDUSTRIAL TRIM ROUTER BITS



FLUSH TRIM

ØD

3/4

3/4

3/4

3/4

Insert Carbide • 2 Flute with Ball Bearing Guide

In a production environment, insert tooling reduces downtime to a minimum. Each throw-away insert knife in this flush trimming bit has multiple edges. Rotate the knife to expose a fresh cutting edge. Tips can be replaced at any time, even mid-job, without changing the router setup.



AMA

RCK-151

RCK-151



Repl.	
Knives	Tool No.
AMA-12	RC-1000
ICK-30	RC-1004

RC-1006* RC-1007**

This tool is meant for difficult work. The knives are held with 3 screws.

Ød

1/4

1/2

1/2

1/2

** Replacement parts: Bearings #47711 (bottom), #47721 (2 top); Retaining collar #47739; Dust shield #67116.

2-1/16

3-1/4

4-5/16

4-1/4

NOTE: #RC-1000, #RC-1006 & #RC-1007 have four cutting edges per knife. #RC-1004 has two cutting edges per knife.

For replacement parts visit www.amanatool.com

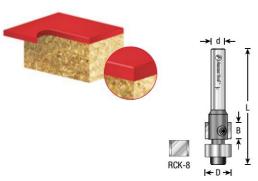
В

12mm

30mm

50mm

50mm



ECONOMY FLUSH TRIM

Insert Carbide • 2 Flute with Ball Bearing Guide

Get the practicality and productivity of an insert bit for the cost of a standard brazed-tip bit. The small two-sided carbide insert knives usually can be changed without altering the bit setup in the router. Because the knives aren't heated for brazing, it can be made of a harder grade of carbide and it will hold its edge longer. Ideal for both standard routers and laminate trimmers.







ØD	В	Ød	L	Knives	Tool No.
1/2	8mm(5/16)	1/4	2-1/4	RCK-8	RC-2000

Replacement parts: Bearing #47706; Knife hex key #5011; Knife screws #67016; Bearing screw #67018; Allen key for bearing #5007. Optional knife for solid wood: #RCK-8-DLC.





4-PC. FLUSH TRIM New

1/4" Shank • Carbide Tipped Router Bit Collection • With Ball Bearing

Use this flush trimming bit for laminate work or for template and pattern work. For template application, the bearing follows the template, while the cutting edges trim the workpiece. With the router handheld, the template is on the bottom of the work. With a table-mounted router, the template is on top. A two-flute bit is a good general-purpose choice, providing fast cuts and good finishes. Excellent for template work.

Set #AMS-105

Includes the following Amana Tool® router bits: #47092, #47100, #47106 & #47150









NO-FILE™ FLUSH TRIM

Carbide Tipped • 2 Flute with Ball Bearing Guide

Eliminate the time-consuming hand-filing that normally follows each trimming cut on a laminate job. The No-File™ bit "breaks" the sharp edge as it trims the laminate flush. When used properly, the resulting edge is smooth and has a slight radius.





ØD	В	R	Ød	L	Tool No.
1/2	3/8	.015 (0.4mm)	1/4	1-7/8	47154
1/2	3/8	.059 (1.5mm)	1/4	1-7/8	47150
1/2	3/8	.059 (1.5mm)	1/2	2-1/8	47152

Note: #47154 is for laminates .025"-.038" thick (.4mm radius), #'s 47150-47152 are for laminates .042"-.052" thick (1.5mm radius). Replacement bearing #47704 (3/8" dia.).



FLUSH TRIM (EXTRA LONG) Carbide Tipped • With Ball Bearing Guide

Use this bit for template or pattern work where the workpiece is unusually thick. The two-flute configuration cuts fast and produces a smooth finish.

For a superior finish, use the three-flute version. Twin bearings on selected tools provide better contact with reference edge and more stability in the cut.







2 Flute

ØD	В	Ød	L	Tool No.
1/2	1-1/2	1/2	3-7/8	47124
1/2	1-1/2	1/2	4-1/16	47124-2 • •
1/2	2	1/2	4-1/4	47126
1/2	2	1/2	4-3/8	47126-2 • •
3 Flute				

1/2	1-1/2	1/2	3-7/8	47128
1/2	1-1/2	1/2	4-1/16	47128-2 • •
1/2	2	1/2	4-5/8	47131

^{..} Double ball bearing for added stability.

Standard replacement bearing (.500" dia.), use #47706. Undersized bearing (.492" dia.), use #47715 - for use after re-sharpening.

DYNABIT™ LAMINATE TRIM





The Dynabit™ line features a modest down-shear for an excellent finish. The helix bits have a spiral-like twist to the cutting edges, making them especially good on difficult materials such as melamine.

An adhesive-trapping gap between cutting edges and pilot bearing is featured on tools #47111 & #47113.

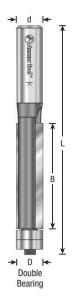




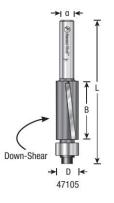


					Repl.	
ØD	В	Ød	L	Type	Bearing	Tool No.
3/8	1/2	1/4	2-1/8	Down-shear	47702	47115
1/2	1	1/4	2-5/8	Down-shear	47706	47105
1/2	1	1/2	3	Down-shear	47706	47109
1/2	1	1/4	2-7/8	Down-shear	47706	47111
1/2	2	1/2	4	Down-shear	47706	47129
5/8	5/8	1/4	2	Flush Helix	47712	47180
3/4	5/8	1/4	2-1/4	Flush Helix	47714	47182
3/4	3/8	1/4	2	15° Bevel	47714	47184





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INDUSTRIAL TRIM ROUTER BITS



MULTI-TRIMMER New

Carbide Tipped • With Ball Bearing Guide • 3 & 4 Flute

Use any of the flush trimming bits below for laminate work or for template and pattern work. For template application, the bearing follows the template, while the cutting edges trim the workpiece. With the router handheld, the template is on the bottom of the work. With a table-mounted router, the template is on top.

For an extremely smooth finish, choose the three-flute configuration. It is especially good to use on laminates that tend to chip easily.

For a super-smooth cut finish, use a four-flute bit. Feed rate is reduced, and chipping is virtually eliminated.







ØD	В	Ød	L	Flute	Tool No.
1/2	1	1/4	2-29/32	3	57180 *
3/4	1	1/2	3-25/32	4	57181 **
3/4	2	1/2	4-3/4	4	57187 ***

- * Replacement bearings #47706 (bottom), #47701 (top). Retaining collar #47724.
- ** Replacement bearings #47714 (bottom), #47721 (2 top). Retaining collar #47739.
- *** Replacement bearings #47714 (bottom), #47721 (2 top). Retaining collar #47740.

SUPERTRIM™ 3° & 5° SHEAR

Carbide Tipped • 2 Flute with Ball Bearing Guide

For exceptional cutting speed, coupled with a super-fine finish, use these large-diameter flush trim bits on a standard router. Available in either up-shear or down-shear. Especially suitable for solid surface

material when used with optional #47709 Delrin® bearing. Furnished with steel bearing #47714.





ØD	a°	В	Ød	L	Type	Tool No.	
3/4	5°	1-1/2	1/2	3-7/8	Up-shear	47130	
3/4	3°	2	1/2	4-1/4	Up-shear	47134	
3/4	5°	1	1/2	3	Down-shear	47135	
3/4	5°	1-1/2	1/2	3-7/8	Down-shear	47136	
3/4	5°	2	1/2	4-1/4	Down-shear	47138	

Note: Down-shear bits are not intended for router table use. Steel replacement bearing #47714; Optional Delrin® bearing #47709.



Carbide Tipped • 2 Flute

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This adaptable double bearing guided cutter has down-shear design, which ensures a clean cut even in difficult materials. The two-bearing design allows the cutter to be used with the template mounted on either side of the work and, consequently, it is possible to cut from either direction using only one template and without moving the template to the other side of the work piece.

This is especially useful when cutting curves which run both with and against the grain.







				Replaceme		
ØD	В	Ød	L	Upper	Lower	Tool No.
1/2	5/8	1/4	2-19/32	47701	47706	47094
1/2	1	1/4	2-15/16	47701	47706	47095 New
3/4	1-1/4	1/2	3-3/4	47721(2)	47714	47096
3/4	2	1/2	4-5/16	47721(2)	47714	47097







INDUSTRIAL

Scratch-Free

Laminate Trim Bits with Euro™ Square Bearing

- Non-stick Teflon® square bearing will not mark your edge
- Will not scratch or mark any laminates with matte or high gloss finish
- Carbide tipped

LAMINATE TRIMMER WITH EURO™ SQUARE BEARING

Carbide Tipped • 2 Flute

The bits are designed according to specifications with a slight taper allowing for adjustment up or down on the work edge to finish off the edge with a smooth and burr-free cut. The square bearing is manufactured with a strong non-stick Teflon® which won't mark your edge so it can be wiped clean easily.

- · Leaves no marks on high-gloss, finished edges
- · Glue won't stick to bearing
- · Beveled cutter means little or no hand filing
- Will not scratch or mark any laminates with matte or high gloss finish
- · Beveled cutter can be resharpened
- Use 1/2" diameter bit with laminate trimmers











ØD	В	Ød	L	Replacement Bearing	Tool No.	
1/2	19/64	1/4	1-3/4	SQB100	47147	
1/2	1/2	1/4	2-1/8	SQB100	47146	
3/4	5/8	1/4	2-3/8	SQB102	47148	
3/4	5/8	1/2	2-5/8	SQB102	47149	

EURO™ SQUARE BEARING

Will Not Scratch or Mark Laminates with Matte or High Gloss Finish

Manufactured with non-stick Teflon® which won't mark your edge.

- SQB100 Can be mounted to any 1/2" diameter Amana Tool flush trimmer.
- SQB102 Can be mounted to any 3/4" diameter Amana Tool flush trimmer.

Ø I.D. x Ø O.D.	'B' Bearing Thickness	R	For Tool	Tool No.	
3/16 x 1/2	.223	3/32	47147	SQB100	
3/16 x 3/4	.273	3/32	47148 & 47149	SQB102	

Note: Solvents should not be used to clean ball bearings, as this will deteriorate the special grease. 'Frozen' bearings (ones that do not rotate freely), should be replaced immediately.



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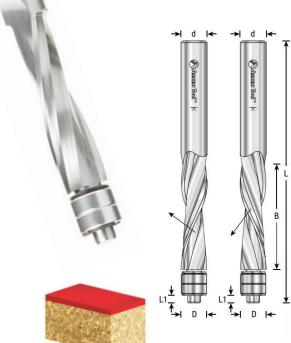


SQB102



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INDUSTRIAL TRIM ROUTER BITS



ULTRATRIM™ SPIRAL TRIM

Solid Carbide • 2 Flute with Double Ball Bearing Guides

For the ultimate, chip-free finish in laminate, melamine, solid surface, fragile veneers and for template work of all kinds. The twin ball-bearing pilot enhances the stability of the tool. Available in 'Up-Cut' and 'Down-Cut' spirals.



	В	Ød	L	L1	'Up-Cut' Tool No.	'Down-Cut' Tool No.
ØD						
1/2	1-1/4	1/2	4	5/32	46300	46400
1/2	2	1/2	5	5/32	46304	46404

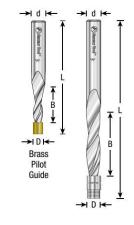
Replacement bearing: use #47701 (2).

Lock ring: use #47752.

Washer: use #67053.

* Old style bit with nut use bearing #47706 (2), Nut #67086





ULTRATRIM™ SPIRAL TRIM

Solid Carbide • 2 Flute • Up-Cut Or Down-Cut Spiral

Spiral flush trim bit, #46196 is used for acrylic, wood and MDF up to a 1/4" thick, for getting into tight corners with a small radius and great for cleaning out your edges. #46197 is mainly used for acrylic and wood up to a 1/2" thickness.



	ØD	В	Ød	L	Tool No.	Tool No.
Ī	1/8	3/8	1/4	2	46196*+	46296 * +
	1/4	1	1/4	3	46197 •	46297 ◆

- * Note: Due to extremely small cutting diameter this bit is not guaranteed.
- + Brass pilot guide
- Double ball bearing pressed

Replacement bearings for #46197 and #46297: Two #47723. Philips retaining screws for #46197 and #46297: #67134.





COMPRESSION SPIRAL

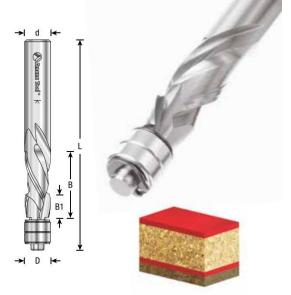
Solid Carbide • 2 Flute with Double Ball Bearing Guides

Spiral bits produce razor-sharp cutting edges in flush trimming. The twin ball-bearing pilot enhances the stability of the tool. This bit offers an 'Up-Cut' and 'Down-Cut' combination.



ØD	В	B1	Ød	L	Tool No.
1/2	1-1/4	7/16	1/2	4	46192

Replacement bearing #47701 (2). Replacement washer #67053. Replacement locking ring #47752.



'OVERHANG' TRIM

Carbide Tipped • 2 Flute with Ball Bearing Guide

Stage flush trimming cuts, whether in laminate work or template work, with this bit. Trimming the material in two passes reduces chipping in laminates and tearout in solid wood. A preliminary cut with the overhang bit leaves a small overhang in laminate or template work, leaves an edge slightly protruding the template.

Complete the operation with a final pass using a standard trim bit.

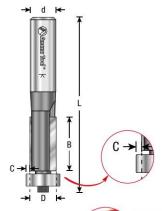






ØD	В	C	Ød	L	Repl. Bearing	Tool No.
1/4	1/2	1/16	1/4	2-1/4	47704	47185
1/4	1	1/16	1/4	2-1/2	47704	47188
1/4	1	1/8	1/4	2-1/2	47700	47189
3/8	1/2	1/64	1/4	2-5/32	47794	47193
3/8	1/2	1/8	1/4	2	47718	47190
3/8	1	1/8	1/4	2-5/8	47718	47195
1/2	1/2	1/16	1/4	2	47718	47192
1/2	1/2	1/16	1/2	2-3/4	47718	47194
1/2	1	1/8	1/4	2-5/8	47720	47197
1/2	1	3/16	1/4	2-5/8	47719	47198 * Ne

^{*} Down-shear Design.







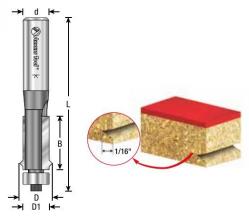
FLUSH TRIM V-GROOVE

Carbide Tipped • 2 Flute with Ball Bearing Guide

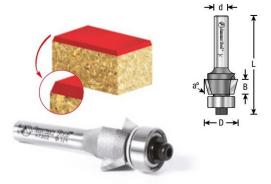
Trim the edges of face frames flush with cabinet sides with this bit. At the same time, cut a decorative V-groove to conceal the seam between the frame and the case.

				.	CNC
ØD	ØD1	В	Ød	L	Tool No.
5/8	1/2	1	1/4	2-5/8	47160
5/8	1/2	1	1/2	3-1/4	47162

Replacement bearing #47706.

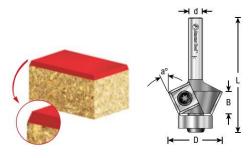


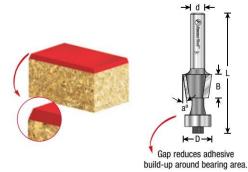
INDUSTRIAL TRIM ROUTER BITS











Amana Tool®

BEVEL TRIM

Carbide Tipped • 2 Flute with Ball Bearing Guide

This is a steel-bodied, carbide-tipped bit for bevel trimming laminate with a standard router. The solid construction reduces vibration for the smoothest cut possible with a two-flute bit.



					nepi.	
ØD	a°	В	Ød	L	Bearing	Tool No.
1/4	7°	3/8	1/4	1-7/8	47775	MR0106 *
1/2	22.5°	1/2	1/4	1-7/8	47775	MR0107 *
9/16	45°	1/4	1/4	1-7/8	47775	MR0108 *
5/8	15°	1/4	1/4	2-3/32	47706	47200
1/2	22°	5/16	1/4	1-3/4	47723	47201
3/4	25°	1/4	1/4	2-3/32	47706	47202
3/4	25°	27/64	1/4	2-3/64	47702	47206
1-1/16	45°	9/32	1/4	2	47706	47204

Note: Tool #47206 has a 3/8" diameter bearing for closer inside corner cutting. * Miniature 3/16" ball bearing guide #47775.

BEVEL TRIM

Carbide Tipped • 2 Flute with Ball Bearing Guide



						Repl.		
ØD	ØD1	a°	В	Ød	L	Bearing	Tool No.	
5/8	1/2	15°	1/4	1/4	1-7/8	47712	47212	Ī
3/4	1/2	25°	1/4	1/4	1-7/8	47714	47214	

BEVEL TRIM

Carbide Tipped • 3 Flute with Ball Bearing Guide

The solid construction of this carbide-tipped bit reduces vibration, and its three and four-flute configuration produces a very smooth cut. Intended for use in a standard router.







ØD	ØD1	a°	В	Ød	L	Tool No.
3/4	16mm	7°	7/16	1/4	2	47302
51/64	16mm	15°	7/16	1/4	2	47301
15/16	16mm	22°	7/16	1/4	1-7/8	47300
1-3/32	16mm	30°	7/16	1/4	2	47304

Replacement bearing #47716.

BEVEL TRIM

Solid Carbide Insert • 2 Flute with Ball Bearing Guide

These knives are canted for bevel-trimming.





					Repl.	
ØD	a°	В	Ød	L	Knives	Tool No.
13/16	15°	7/16	1/4	2-1/4	AMA-12	RC-1008
1-1/16	45°	7/16	1/4	2-1/4	AMA-12	RC-1014

Note: All bevel trim bits have four cutting edges per knife.

Torx® key included.

Replacement bearing for RC-1014 use #47701. All others use #47712 bearing. Replacement knife screws #67115.



AMA-12

SPECIAL BEVEL TRIM

Carbide Tipped • 2 Flute with Ball Bearing Guide

A very shallow bevel angle and the gap between the cutting edges and the ball-bearing pilot are the key features of this carbide-tipped bit. The gap collects adhesive residue that usually fouls the pilot and thus degrades the cut.







VD a		Øū	-	1001 140
5/8 8°	15/32	1/4	2-1/4	47210

Note: Tool #47210 is a special 8° bevel tool with a gap (.287") to reduce glue build-up.

Standard replacement bearing (.500" dia.) #47706 or new #47715 (.492" dia.) for use after resharpening.

45° MITER JOINT UNDER-CUT ASSEMBLY

Carbide Tipped • 4-Wing with 'Ultra-Glide™' Ball Bearing Assembly

Eliminate that dark line at the edge of a counter or other laminate-covered surface. With this bit assembly, the laminate cemented to the substrate can be trimmed and mitered in one pass. Then a pre-mitered edging strip can be applied. The resulting seam is clean and crisp. Not intended for use in a laminate trimmer.

- a. Laminated top is 'under-cut', as shown.
- b. Apron laminate is pre-cut at 45°.
- Adhere pre-cut laminate for a perfect fit. A fine file may be used to remove the sharp edge after joining.



ØD	a°	В	Ød	L	Tool No.
1-3/8	45°	1/4	1/4	2-3/8	55312
1-3/8	45°	1/4	1/2	2-3/8	55314

Replacement parts: 1/4" Shank arbor #47600; 1/2" Shank arbor #47604. 45° cutter only #55310.

'Ultra-Glide™' bearing #47727.

Nut #67088.

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BEVEL TRIM CUTTER ASSEMBLY

Carbide Tipped • 4-Wing

Includes cutter, arbor & ball bearing guide

An assembly offers the option of switching cutters – from flush trim to either of two bevel trims – without removing the bit from the router or even changing the depth-of-cut setup. Four flutes yield a smooth, crisp cut finish.

All parts can be replaced individually.





ØD	a°	a° B Ød		L	Tool No.	
7/8	Flush	1/4	1/4	2-3/8	47400	
1	15°	1/4	1/4	2-3/8	47404	

Replacement Parts: Arbors: 1/4" - #47600, 3/8" - #47602, 1/2" - #47604.

Cutters: Flush - #47500, 15° - #47502.

Bearing #47708.

Nut #67088.

4-WING CUTTERS ONLY

Carbide Tipped

Cutters for the above assembly are available separately.



ØD	a°	В	Ød1	Usage	Tool No.
7/8	Flush	1/4	5/16	T or B	47500
1	15°	1/4	5/16	T*	47502
1	15°	1/4	5/16	B**	47502-L
1-1/16	25°	1/4	5/16	T*	47504
1-1/16	25°	1/4	5/16	B**	47504-L

- * Top cutter.
- ** Bottom cutter.

COMBINATION BEVEL AND FLUSH TRIM

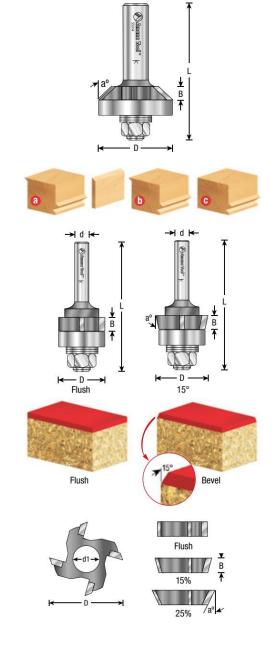
Carbide Tipped . Single & 2 Flute

Cut, trim, and bevel laminates with this one bit. Change depth-of-cut setting to shift from flush to bevel-trimming. Must be used with an edge or bearing guide or fence. Designed specifically for use in laminate trimmers.

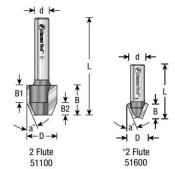


ØD	a°	В	B1	B2	Flute	Ød	L	Tool No.
1/2	23°	1/2	19/64	13/64	2	1/4	1-3/4	51100
11/32	22.5°	1/2	19/64	13/64	2	1/4	1-5/8	51400
13/32	22°	9/32	-	_	2	1/4	15/16	51600 *

^{*} Bevel trim only.



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- · No resharpening
- Interlocking hex design
- · Economical alternative to brazed bits



Cut laminate, MDF, plywood, wood & acrylic straight and flush with each and every cut, without ever re-sharpening your bits.

E-Z Change™ router bits are an economical alternative to standard router bits. They feature replaceable head carbide tipped cutters, saving you money by replacing only the cutters when the knives become dull, instead of the entire tool. You won't need a second bit while yours is in the sharpening shop; instead, just change the cutters. You won't even lose your set-up because the E-Z Change™ cutters can be replaced with the bit in the router collet. The interlocking hex design guarantees that the cutting surfaces will not slip during use.



FLUSH TRIM REPLACEABLE CUTTER

Replaces Ocemco #TA-150 Carbide Tipped • 2 Flute

41120	~	1
	M	
H	141	CNC
	1.5	

ØD	В	d	L	Tool No.
1/2	1/2	1/4	1-31/32	47170
3-Pack of Carb	ide Tipped Cutters f	or #47170 (Replac	es Ocemco #TA-156)	55170

Replacement Parts

1/4" Shank (screw #67096 & washer #67082 included): #47624. Bearing (3/16" Ød x 1/2" ØD): #47706.



DADO CLEAN OUT REPLACEABLE CUTTER

В

1/4 3-Pack of Carbide Tipped Cutters for #47173







L	Tool No.
1-11/16	47173

Replacement Parts

1/4" Shank: #47628.

1/2

Bearing (3/16" Ød x 1/2" ØD): #47706.

Carbide Tipped • 2 Flute



TEMPLATE REPLACEABLE CUTTER

Replaces Ocemco #TA-170 Carbide Tipped • 2 Flute







ØD	В	d	L	Tool No.
1/2	1/2	1/4	1-15/16	47174
3-Pack of Carb	ide Tipped Cutters fo	or #47174 (Replac	es Ocemco #TA-176)	55174

Replacement Parts

1/4" Shank: #47626.

Bearing (3/16" Ød x 1/2" ØD): #47706.

Amana Tool®

BEVEL/TAPERED TRIM REPLACEABLE CUTTER

Replaces Ocemco #TA-151 Carbide Tipped • 2 Flute



ØD	ØD1	a°	В	d	L	Tool No.
5/8	1/2	10°	1/2	1/4	2	47178
3-Pack o	f Carbide Tipped	Cutters for	#47178 (Replaces	Ocemco	#TA-157)	55178
5/8	1/2	15°	1/4	1/4	1-3/4	47179
3-Pack o	f Carbide Tipped	Cutters for	#47179			55179

Replacement Parts

1/4" Shank (screw #67096 & washer #67124 included): #47624 for #47178. 1/4" Shank (screw #67096 & washer #67124 included): #47629 for #47179. Bearing (3/16" Ød x 1/2" ØD): #47706.



PANEL PILOT

Solid Carbide . Single Flute

The ideal laminate trimming bit for high-volume production. Solid carbide and integral pilot (no bearing to maintain) extend life of bit, slim configuration reduces vibration. Suitable for routers and trimmers.

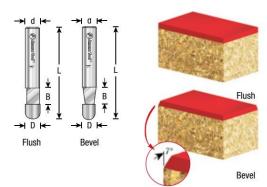






ØD	В	Ød	L	Type of Cut	Tool No.
1/4	1/4	1/4	1-1/2	Flush	51200
1/4	1/4	1/4	1-1/2	7°	51202
1/4	1/4	1/4	1-1/2	Flush	51204 *
1/4	3/8	1/4	1-1/2	Flush	51206

^{* #51204} has a short/flat pilot for dado clean out/ dado cleaning.



AITIN COATED BITS

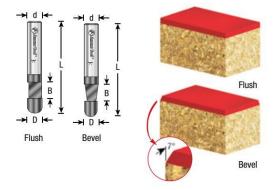
AITIN COATED HIGH PERFORMANCE PANEL PILOT

Solid Carbide • Single Flute • Longer Tool Life





		51202XL	51200XL		
ØD	В	Ød	L	Type of Cut	Tool No.
1/4	1/4	1/4	1-1/2	Flush	51200XL
1/4	1/4	1/4	1-1/2	7° Bevel	51202XL

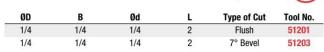


DOUBLE END PANEL PILOT

Solid Carbide . Single Flute

The ideal laminate trimming bit for high-volume production. Solid carbide and integral pilot (no bearing to maintain) extend life of bit, slim configuration reduces vibration. Suitable for routers and trimmers.

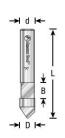
Unique double ended panel pilot bits provide 2 cutting sides in one tool. When the bit dulls, just flip it over!





INDUSTRIAL TRIM ROUTER BITS





HOLE AND FLUSH CUT TRIMMER

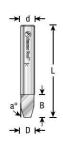
Solid Carbide • Single Flute

This bit is used where laminate is applied over pre-cut openings in the substrate. In a continuous operation, bore through the laminate and cut the laminate out of the opening. The plunge point bores through the laminate to begin, and the integral pilot rides along the opening's

 ØD
 B
 Ød
 L
 Tool No.

 1/4
 1/4
 1/4
 1-1/2
 51712

777	



COMBINATION FLUSH AND 7° BEVEL TRIMMER

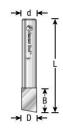
Solid Carbide . Single Flute

A bit designed specifically for use in a laminate trimmer, that will both flush and bevel trim. A change in cut depth is all it takes to switch

from one to the other. Must be used with a separate ball-bearing or edge guide.

ØD	a°	В	Ød	L	Tool No.
1/4	7°	3/8	1/4	1-1/2	51706





RIP AND SLOTTING

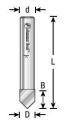
Solid Carbide . Single Flute

Use this bit for cutting sheets of laminate, paneling, and other thin material, as well as plowing narrow slots, dadoes, and grooves.

ØD	В	Ød	L	Tool No.
1/4	5/16	1/4	1-1/2	51708

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V-GROOVING

Solid Carbide • Single Flute

Rout fine-line V-Grooves in laminate covered and wooden surfaces with this solid-carbide bit, designed specifically for use in a laminate trimmer.

ØD	В	Ød	L	Tool No.
1/4	3/8	1/4	1-1/2	51710





WEATHERSEAL STRAIGHT

Solid Carbide . Single Flute

Used to re-groove door and window frames to allow for insulating inserts to block wind and drafts.

ØD	В	Ød	L	Туре	Tool No.
1/8	1/2	1/4	2-1/4	Straight	43813







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→ D1 I

- D -

d **|**←

→ D1 |<

D -

Radius

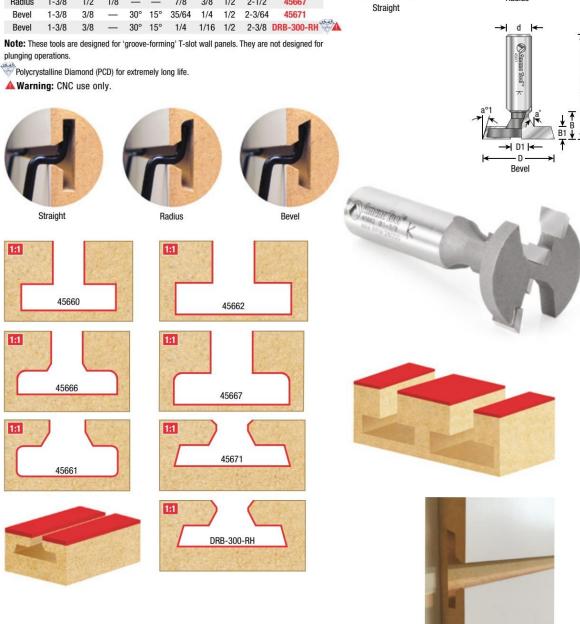
T-SLOT

Carbide Tipped • 2 Flute

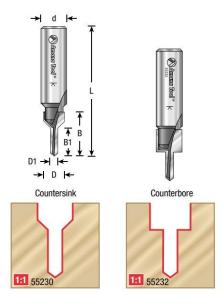
Designed for creating T-slot wall panels (used to cut their characteristic slots for many purposes) and radiused edges on the T-slots (allow easier adjustment of fixtures on the completed wall panels).

Bits are not designed for plunging operations.

Edge Typ	e ØD	ØD1	R	a°	a°1	В	B1	Ød	L	Tool No.
Straight	1-1/8	3/8	_	_	-	13/16	5/16	1/2	2-1/2	45660
Radius	1-3/16	3/8	1/8	29°	_	3/4	9/32	1/2	2-3/8	45666
Radius	1-13/64	13/32	1/16	_	_	43/64	23/64	1/2	2-13/32	45661
Straight	1-3/8	1/2	_		-	7/8	3/8	1/2	2-1/2	45662
Radius	1-3/8	1/2	1/8	3 		7/8	3/8	1/2	2-1/2	45667
Bevel	1-3/8	3/8	_	30°	15°	35/64	1/4	1/2	2-3/64	45671
Bevel	1-3/8	3/8	_	30°	15°	1/4	1/16	1/2	2-3/8	DRB-300-RH



INDUSTRIAL GROOVING ROUTER BITS



SCREW SLOT

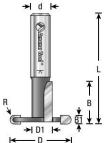
Carbide Tipped • 2 Flute

For securing large panels or tabletops in a way that allows them to expand or contract, due to changes in temperature or humidity. The screw slots prevent the wood from splitting and the screw from failing. Great for drilling and creating slots in one operation.





	ØD	ØD1	В	B1	Ød	L	Type	Tool No.
Ī	7/16	11/64	13/16	1/2	1/2	2-1/2	Countersink	55230
	1/2	11/64	15/16	1/2	1/2	2-1/2	Counterbore	55232





SPECIAL AMEROCK® HINGE

Carbide Tipped • 2 Flute

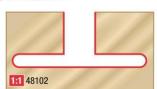
This bit is designed to produce a T-slot for Amerock $^\circ$ hinges. For best results use in a table-mounted router.



ØD	ØD1	R	В	B1	Ød	L	Tool No.
1-1/8	3/8	5/64	21/32	5/32	3/8	2	48100 *
1-1/8	3/8	5/64	21/32	5/32	1/2	2-1/8	48101 *
1-19/32	3/8	5/64	21/32	5/32	3/8	2	48102 *

* Note: These bits are not guaranteed due to fragility and application.





KEYHOLE

Carbide Tipped • Single Flute

Form keyhole slots in plaques, picture frames, and other wall-hanging items with this plunge-cutting bit. Plunge to form the entry, then advance the router to cut a short T-slot.



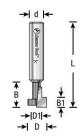








ØD	ØD1	В	B1	Ød	L	Tool No.
3/8	13/64	3/8	3/16	1/4	1-1/2	45650
1/2	5/16	3/8	3/16	1/4	1-1/2	45652









3-PC. CNC SIGNMAKING & LETTERING









1/4" Shank • Carbide Tipped Router Bit Pack

Designed for creating signs and other CNC projects in a variety of materials. Each router bit is manufactured from Amana's exclusive grade carbide according to stringent quality standards.

Excellent For Cutting:

- Wood
- Veneered PlywoodMDF, HDF/MDF
- LaminatePlastic, PVCSign Foam, Sign Board, HDU

Includes	Set No.
45901(3/16R), 45981(1/8R) & 45780(15°)	AMS-186

BOWL & TRAY

Carbide Tipped • 2 Flute

For routing solid wood serving trays, flat dishes, shallow bowls, and similar objects, use this 3-in-1 specialty plunging bit. It cuts flat, smooth bottom surfaces, vertical walls, and a transition radius between them, all in one pass. It can be used in handheld, table-mounted





ØD	R	В	Ød	L	Tool No.
1/2	1/8	1/2	1/4	2-1/8	45981
3/4	1/4	5/8	1/4	2-5/8	45982
3/4	1/4	5/8	1/2	2-5/8	45984
1-1/8	1/4	5/8	1/2	2-5/8	45986





BOWL & TRAY

Carbide Tipped • 2 Flute with Upper Ball Bearing Guide

Same bit as above, but with a shank-mounted bearing so the bit can be used with a template or pattern.







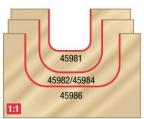
				Replacement				
ØD	R	В	Ød	L	Bearing	Collar	Tool No.	
1/2	1/8	1/2	1/4	2-1/8	47701	47724	45983	
3/4	1/4	5/8	1/2	2-5/8	47721	47739	45990	
1-1/8	1/4	5/8	1/2	2-5/8	47738	47740	45992	



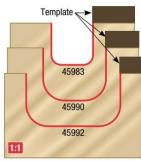




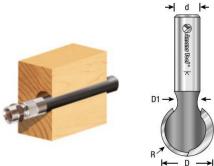








INDUSTRIAL GROOVING ROUTER BITS





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→ D1 I←

BALL END

Carbide Tipped • 2 Flute

Cut channels for pipes or cables using the ball end bit. The profile requires the cut to be made in a single pass. To reduce stress on the bit, cut an initial groove using a straight bit matching the D1 dimension of the ball end bit.

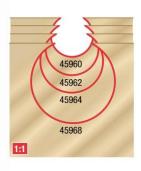






ØD	ØD1	R	В	Ød	L	Tool No.
1/2	1/4	1/4	7/16	1/2	2-1/4	45960
5/8	9/32	5/16	9/16	1/2	2-3/8	45962
3/4	5/16	3/8	11/16	1/2	2-1/2	45964
1	11/32	1/2	15/16	1/2	2-3/4	45968
	4-Pc 1/2 Shan	k Set Include	es 45960 459	62 45964 8	2 45968	AMS-557

Note: Profile is useful as a 'conduit' for cables, pipes, etc.



CNC BALL END

Insert Carbide • 2 Flute

Cut channels for pipes or cables using the ball end bit. The profile requires the cut to be made in a single pass. To reduce stress on the bit, cut an initial groove using a straight bit matching the D1 dimension of the ball end bit.







ØD	ØD1	В	R	Ød	L	Screw	Knife	Tool No.
1	43/64	15/16	1/2	1/2	2-7/8	67115	RCK-54	RC-1126★

Note: Profile is useful as a 'conduit' for cables, pipes, etc.

▲ Warning: Maximum RPM=18,000

★ Warning: These tools have an open flute design (not anti-kickback) and are intended for high feed-rate CNC machine use only. Do not use in portable routers.

CNC feed and speed available online









d 1

CORE BOX

Carbide Tipped • 2 Flute

Cut half-round grooves for fluted moldings columns millwork and signs using these core box bits. Used with an edge guide they can cut coves. Can be used with handheld table-mounted and CNC routers. Perfect for making flutes on CNC machines.

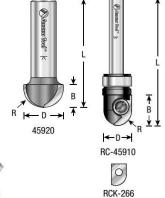
Excellent For Cutting:

- Softwood/Hardwood
- MDF Veneered Plywood · High Density Urethane
- Laminate (HDU Board)











ØD	R	В	Ød	L	Tool No.
1/8	1/16	3/8	1/4	1-3/4	45900 *
3/16	3/32	1/2	1/4	1-3/4	45902 *
3/16	3/8	1/2	3/8	3	DRB-433
1/4	1/8	1/4	1/4	1-5/8	45904
1/4	1/8	3/8	1/2	2-1/4	45911 New
1/4	1/8	3/8	1/4	2-1/2	DRB-432
5/16	5/32	3/4	1/4	2	45903
5/16	5/32	3/4	1/2	2-5/8	45905
3/8	3/16	1/4	1/4	1-1/2	45906
3/8	3/16	1/4	1/2	2	45908
3/8	3/16	1/2	1/4	2	45901
1/2	1/4	3/8	1/4	1-1/2	45910
1/2	1/4	1/2	1/4	2-1/8	RC-45910 A
1/2	1/4	3/8	1/2	2-1/8	45912
1/2	1/4	5/8	1/4	2-1/4	45907
5/8	5/16	3/8	1/4	2	45909
5/8	5/16	7/16	1/4	1-5/8	45914
5/8	5/16	7/16	1/2	2	45916
3/4	3/8	7/16	1/4	1-3/4	45918
3/4	3/8	7/16	1/2	2	45920
7/8	7/16	1/2	1/2	2-1/4	45922
1	1/2	5/8	1/4	1-3/4	45924
1	1/2	11/16	1/2	2-1/8	45926
1-1/4	5/8	3/4	1/2	2-5/16	45928 ♦ ▲



- ▲ 20 Maximum RPM = 20,000
- * Solid carbide (brazed to steel shank).
- Replacement knife for #RC-45910: #RCK-266 (RC-45910 single flute). Replacement bearing for #RC-45910: #47701.
- Polycrystalline Diamond (PCD) for extremely long life. Maximum recommended material depth in one pass varies from 0.5mm to 3.0mm depends on the hardness. The harder the material, the less depth.
- Use in a table-mounted router. Not for use in a handheld router!

45900 45902 45918 45922

45928

8-PC. CORE BOX

1/4" Shank • Carbide Tipped Router Bit Collection

Cut half-round grooves for fluted moldings columns millwork and signs using these core box bits. Used with an edge guide they can cut coves. Can be used with handheld table-mounted and CNC routers. Perfect for making flutes on CNC machines.

Excellent For Cutting:

- Softwood/Hardwood
- Veneered Plywood
- MDF
- HDU Board



Sets



8-Pc. Set includes the following radii: 1/16 3/32 1/8 3/16 1/4 5/16 3/8 and 1/2 AMS-420









Set #AMS-420 Includes:

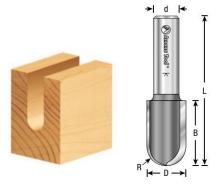
1:1

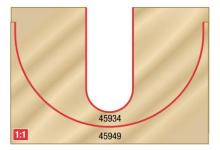
45900*, 45902*, 45904, 45906, 45910, 45914, 45918 & 45924 * Solid carbide (brazed to steel shank).





INDUSTRIAL GROOVING ROUTER BITS





ELONGATED CORE BOX

Carbide Tipped • 2 Flute • Extra Deep

Cut much deeper flutes than possible with a regular core box bit. Perfect for making flutes on CNC machines.



ØD	R	В	Ød	L	Tool No.
3/8	3/16	1	1/2	2-3/4	45930
1/2	1/4	1-1/4	1/2	2-7/8	45932
9/16	9/32	1-1/4	1/2	2-7/8	45934
5/8	5/16	1-1/4	1/2	2-3/4	45936
3/4	3/8	1-1/4	1/2	2-3/4	45938
1	1/2	1-1/4	1/2	2-3/4	45942
1-1/4	5/8	1-1/4	1/2	2-3/4	45944 ♦ ▲ 20
1-1/2	3/4	1-1/4	1/2	2-3/4	45946 ♦ ▲ 18
2	1	1-1/4	1/2	2-3/4	45948 ♦ ▲ 14
2-1/4	1-1/8	1-1/4	1/2	2-3/4	45949 ♦ ♠ 14

▲ Warning: Maximum RPM ▲ 14 = 14,000; ▲ 18 = 18,000; ▲ 20 = 20,000

Note: All core box wood sample illustrations shown actual size.

♦ Use in a table-mounted router. Not for use in a handheld router!



CLASSICAL GROOVE

in conjunction with a template guide bushing.

Carbide Tipped • 2 Flute

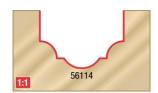
Use this bit to form a bead-sided groove with a rounded bottom to embellish solid wood surfaces. It can be used in handheld, table-mounted and CNC routers, guided with an edge guide, fence, or

						- One
ØD	R	R1	В	Ød	L	Tool No.
3/4	9/64	5/32	1/2	1/4	2-1/16	56110
3/4	9/64	5/32	1/2	1/2	2-3/4	56112

11/16

1/2

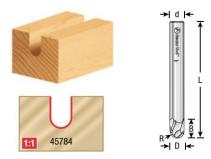
1/4



13/64



56114



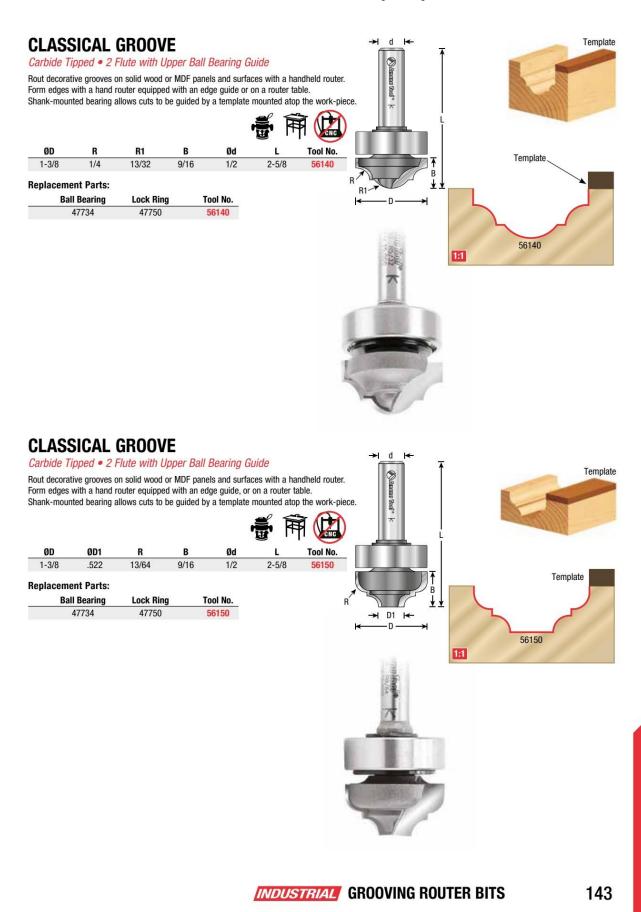


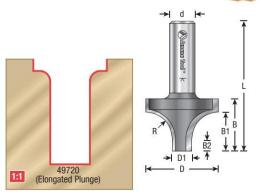
BOTTOM ROUND

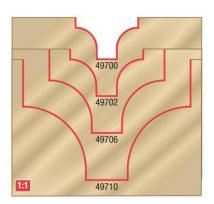
Solid Carbide • 3 Flute

Developed for producing round bottomed grooves in hardwood and softwood, plywood and composition material. Used for engraving and carving.

naterial. Used for engraving and carving.	THE PERSON NAMED IN	CNC
ØD R B Ød	L	Tool No.
1/4 1/8 3/8 1/4	2-1/2	45784











POINT CUTTING ROUND OVER

Carbide Tipped • Single & 2 Flute

For trimming, lettering & fluting. Bits are not guaranteed due to a very fine plunge point.





ØD	R	В	B1	Ød	L	Flutes	Tool No.	
5/64	1/32	3/16	1/32	1/4	2-1/4	1	56141*	
9/64	1/16	7/32	1/16	1/4	2-1/4	1	56142*	
13/64	3/32	1/4	3/32	1/4	2-1/4	1	56143*	
6mm	3mm	8mm	3mm	6mm	50mm	1	56125-M * N	lew
1/4	1/8	5/16	1/8	1/4	2	1	56125*	
3/8	3/16	19/64	3/16	1/4	1-7/8	2	56126	
3/8	3/16	5/16	3/16	1/2	2-1/8	2	56121	
12mm	6mm	13mm	6mm	6mm	51mm	2	56123-M	lew
1/2	1/4	1/2	1/4	1/4	2	2	56123	
19/32	19/64	1/2	19/64	1/4	2-9/64	2	56128	
3/4	3/8	5/8	3/8	1/4	2	2	56127	
3/4	3/8	5/8	3/8	1/2	2	2	56129	
1	1/2	3/4	1/2	1/4	2	2	56144 New	

* Solid carbide.

5-Packs Includes Tool No. New 56125 (5 Pcs. each) 46009-K-5

Use Tool #56125 with Tongue & Groove Assembly #55400 on page 205.

56125

55400

55400



CNC feed and speed available online

ROUND OVER GROOVE

Carbide Tipped • 2 Flute

This bit creates a flat-bottom groove between two quarter-round shapes. Short vertical walls extending below the radius lend extra depth to the appearance. Depending upon the cut depth adjustment, the radii can be flush with the work surface or recessed. The profile can be formed on an edge using an edge guide or, on the router table using a fence.

ØD	ØD1	R	В	B1	B2	Ød	L	Tool No.
3/8	1/8	1/8	1/2	1/4	1/8	1/4	1-3/4	49694 New
5/8	1/4	3/16	5/16	1/8		1/4	1-3/4	49696 New
5/8	1/4	3/16	1/2	3/16	1/64	1/2	2-1/32	49701
3/4	1/4	1/4	31/64	23/64	7/64	1/4	1-39/64	49703 New
3/4	1/4	1/4	1/2	3/8	1/8	1/4	1-7/8	49698 New
3/4	1/4	1/4	1/2	3/8	7/64	1/2	2	49700
7/8	1/4	5/16	9/16	7/16	1/8	1/2	2-1/16	49702
7/8	15/32	1/8	1-7/32	1-3/32	63/64	1/2	2-23/32	49720 *
1	1/4	3/8	5/8	15/32	7/64	1/2	2-1/8	49704
1	1/2	3/16	1-3/32	13/16	5/8	1/2	2-5/8	49705 New
1-3/8	3/8	1/2	3/4	5/8	1/8	1/2	2-1/4	49721 New
1-3/8	3/8	1/2	1	3/4	1/4	1/2	2-1/2	49706
1-3/4	1/2	5/8	1-1/4	1	3/8	1/2	2-3/4	49708 ♦ ▲
2	1/2	3/4	1-13/32	1-1/8	3/8	1/2	2-29/32	49710 ♦ ▲

▲ Warning: Maximum RPM ▲ 14 = 14,000

- Use in a table-mounted router. Not for use in a handheld router!
- * Elongated plunge.

ROUND OVER GROOVE

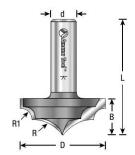
Carbide Tipped • 2 Flute • Plunge Ovolo Router Bits

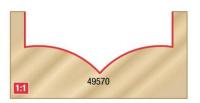
Rout decorative grooves on solid wood or MDF panels and surfaces with a handheld or CNC router. Form edges using an edge guide.

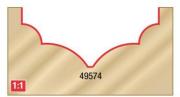


ØD	R	R1	В	Ød	L	Tool No.
1-3/4	23/32	-	23/32	1/2	2-3/16	49570
1-5/8	19/32	1/4	23/32	1/2	2-3/16	49574











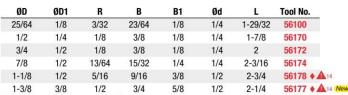
BEADING GROOVE

Carbide Tipped • 2 Flute

Quarter-round profiles are formed by this bit as it grooves, one on each side of a flat. The scale and depth of the beading profile distinguishes it from

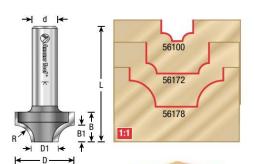
the round over at left. Used with a fence or edge guide, this beading bit can be used as an edge former.







Use in a table-mounted router. Not for use in a handheld router!





OGEE GROOVE

Carbide Tipped • 2 Flute

Rout a flat-bottom groove with ogee shoulders. Decorate any solid wood surface using a handheld or CNC router.





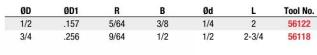




→ D1 H←

d l∢

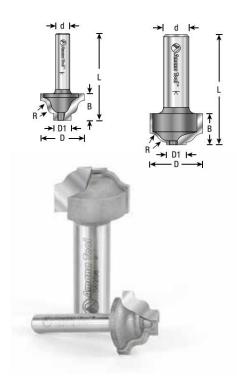








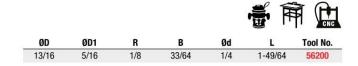




OGEE GROOVE

Carbide Tipped • 2 Flute

This bit is similar to the ogee groove bits on the previous page, but these form a flat-bottom groove with a reverse ogee and step profile for the shoulders.



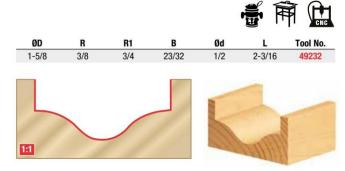




ROUND & OGEE GROOVE

Carbide Tipped • 2 Flute

Rout decorative grooves on solid wood or MDF panels and surfaces with a handheld or CNC router. Form edges using an edge guide.





RAISED PANEL GROOVE

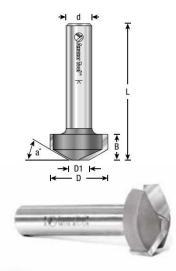
Carbide Tipped • 2 Flute

Rout decorative grooves on solid wood or MDF panels and surfaces with a handheld or CNC router. Form edges using an edge guide.

						T CNC
ØD	ØD1	a°	В	Ød	L	Tool No.
1-1/8	.454	30°	1/2	1/2	2-3/4	56116







Amana Tool®

CHAMFER

Carbide Tipped • 2, 3 & 4 Flute with Ball Bearing Guide

Chamfer or bevel edges for decorative effect or to form edge miter joints. Produce crisp, uniform edges at accurate angles to make 4-, 6-, 8-, 12-, or 16-sided boxes. For best results use in a router table.

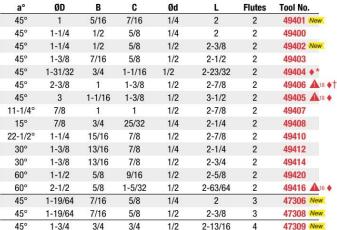
Excellent For Cutting:

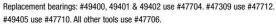
- Acrylic Laminate MDF/HDF
- Melamine Wood Plywood











- * 49404 will completely chamfer 3/4" material.
- † 49406 will completely chamfer 1" material.

▲ Warning: Maximum RPM ▲ 16=16,000; ▲ 18=18,000

Use in a table-mounted router. Not for use in a handheld router!





49400





47309

49412 8 sides (22.5°) 12 sides (15°) 16 sides (11.25°) 6 sides (30°







3° Door Edge Chamfers See page 33

5-PC. CHAMFER

11-1/4°, 15°, 22-1/2°, 30° and 45° Carbide Tipped Router Bit Collection

Chamfer or bevel edges for decorative effect or to form edge miter joints. Produce crisp, uniform edges at accurate angles to make 4-, 6-, 8-, 12-, or 16-sided boxes. For best results use in a router table.

Excellent For Cutting:

- Acrylic
- Melamine
- LaminateMDF/HDF
- Wood Plywood









AMS-184



5-Pc Set includes the following Chamfer: 11-1/4°, 15°, 22-1/2°, 30° & 45°



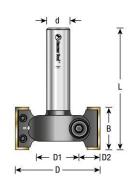
Set #AMS-184 Includes:

49402, 49407, 49408, 49410, 49414 & RB-116* * Router Collet Reducer 1/2 to 1/4 Dia

INDUSTRIAL PROFILING ROUTER BITS











ADJUSTABLE INSERT CHAMFER SYSTEM FOR CNC, HANDHELD & ROUTER TABLES

In-Bevel insert router bit complete with two cutting flutes. Suitable for producing chamfer, rabbet, bevel and spoilboard cuts at various angles in softwood, hardwood and man-made boards. Cutting angle can be adjusted in 15° steps by using a notched scale. Good for use in CNC machine, handheld router and router table machines.

Insert knives are coated for longer cutting life with two cutting edges that allow users to rotate the knife when one side becomes dull.

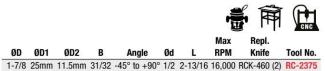
Excellent For Cutting:

- Man-Made BoardsPlastic/Acrylic
- Softwood/Hardwood
- LaminateMDF/HDFH
- Melamine

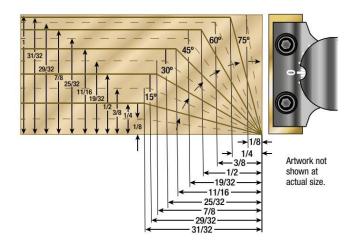
Plywood
 Ultra-High-Molecular-Weight Polyethylene (UHMWPE)

Most popular uses of InBevel™ adjustable insert router bit:

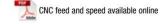




Optional carbide grade knife, optimal for MDF #RCK-462 (2). Replacement screws #67133.







CNC INSERT CARBIDE ADJUSTABLE CHAMFER

Insert router bit complete with two cutting flutes. Suitable for producing chamfer cuts at various angles in softwood, hardwood and man-made boards. Cutting angle can be adjusted in 7.5° steps by using a notched scale.

Fine adjustment of 1° is also possible. For use on routers and machining centers with CNC control.

Excellent For Cutting:

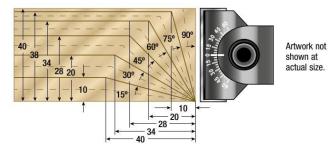
- Acrylic Laminate
- MDF/HDF Melamine
- Wood Plywood







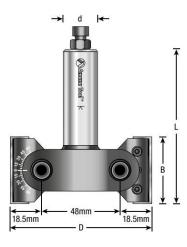






Ød







▲ Warning: Maximum RPM ▲ 12=12,000 Replacement screws use #67183.

VARIABLE DOUBLE CHAMFER ASSEMBLY

Angle

85mm(3-3/8) 40mm(1-1/2) -45° to +90° 3/4 100mm(4) RCK-40 (2)

Carbide Tipped . 3-Wing with Ball Bearing Guide

Chamfer both corners of an edge in one pass with this assembly. Switch from 30° or 45° chamfers by switching cutter positions on the arbor. Interchangeable spacers adjust assembly to accommodate different stock thicknesses. The assembly includes the arbor, a pair of multi-angle cutters, pilot bearing, spacers and shims.

Excellent For Cutting:

Acrylic
 Lamina
 MDF/H

a°1

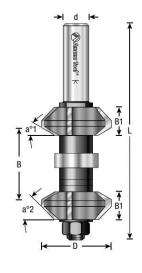
30°

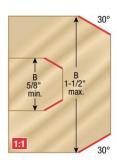
ØD

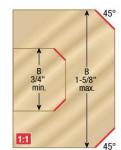
1-3/8

YIIC	 Welamine 	1
ninate	 Wood 	l
F/HDF	 Plywood 	ì
		l

vood		V		T Venc	
В	B1	Ød	L	Tool No.	
5/8 to 1-5/8	9/16	1/2	4-1/4	49730	
	В	B B1	B B1 Ød	B B1 Ød L	







Replacement Parts:

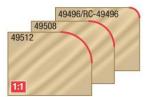
Description	Tool No.	
Top Replacement Cutter (R/H)	49732	
Ball Bearing Guide, 5/16 x .865	47708	
1/2" Shank Arbor With Nut	47618	
6mm Spacer (2 required)	55368	
0.5mm Shims (1 required)	55404	
0.1mm Shims (4 required)	55357	
1.0mm Black Washer (4 required)	55402	

INDUSTRIAL PROFILING ROUTER BITS

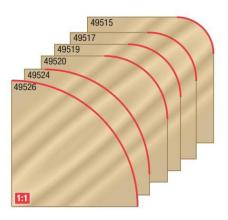












5-Packs Includes	Tool No.	
49496 (5 Pcs. each)	49496-5	•



CORNER ROUNDING

Carbide Tipped • 2 Flute with Ball Bearing Guide

The basic edge-forming bit, the corner-rounding bit rounds an edge to a given radius. The tool is shouldered to cut a fillet. The cut can be used to ease edges, as a simple profile, or as a part of a complex one. If a smaller pilot bearing is used, a second shoulder can be produced, in effect making the bit a beading bit.

For sets see page 151.

Excellent For Cutting:

Acrylic	 MDF/HDF
Laminate	 Melamine

•	Wood
•	Dlywood

•	WUUU
•	Plywood

 Laminate 	9	 Mela 	mine	• [Plywood	
ØD	ØD1	R	В	Ød	L	Tool No.
5/16	3/16	1/16	5/16	1/4	1-13/16	MRR108 **
3/8	3/16	3/32	3/8	1/4	1-13/16	MR0110 **
7/16	3/16	1/8	3/8	1/4	1-13/16	MR0112 **
1/2	3/16	5/32	3/8	1/4	1-13/16	MR0114 **
9/16	3/16	3/16	3/8	1/4	1-13/16	MRR110 **
5/8	1/2	1/16	5/16	1/4	1-3/4	49492
5/8	1/2	1/16	5/16	1/2	2-1/4	49494
11/16	3/16	1/4	13/32	1/4	1-7/8	MRR112 **
3/4	1/2	1/8	3/8	1/4	2	49496
3/4	1/4	1/4	1/2	1/4	1-7/8	49505
3/4	1/2	1/8	3/8	1/2	2-5/16	49498
13/16	1/2	5/32	3/8	1/4	2	49499
13/16	1/2	5/32	3/8	1/2	2-1/4	49501
7/8	3/8	1/4	1/2	1/4	1-5/16	49527
7/8	1/2	3/16	1/2	1/4	2	49500
7/8	1/2	3/16	1/2	1/2	2-7/16	49502
1	1/4	3/8	5/8	1/4	2	49511
1	1/2	1/8	3/8	1/4	2-3/16	RC-49496
1	1/2	1/4	1/2	1/4	2	49504
1	1/2	1/4	1/2	1/4	2-1/16	RC-49504
1	1/2	1/4	1/2	1/2	2-7/16	49506
1-5/64	1/2	1/16	3/8	1/4	2-3/8	RC-49492
1-5/64	1/2	2mm	43/64	1/4	2-13/32	RC-49495
1-5/64	1/2	3mm	3/8	1/4	2-3/8	RC-49497
1-1/8	3/8	3/8	5/8	1/4	2-1/8	49531
1-1/8	1/2	5/16	1/2	1/4	2-1/16	49508
1-1/8	1/2	5/16	1/2	1/2	2-7/16	49510
1-1/4	1/2	3/8	5/8	1/4	2-3/16	49512
1-1/4	1/2	3/8	5/8	1/2	2-9/16	49514
1-3/8	1/2	7/16	5/8	1/2	2-9/16	49515
1-1/2	1/2	1/2	3/4	1/4	2-1/4	49516
1-1/2	1/2	1/2	3/4	1/2	2-5/8	49518
1-5/8	1/2	9/16	3/4	1/2	2-5/8	49517
1-3/4	1/2	5/8	7/8	1/2	2-3/4	49519 📤 28
2	1/2	3/4	1	1/2	2-7/8	49520 📤 22
2-1/4	1/2	7/8	1-1/4	1/2	3-1/16	49521 🛕 22
2-1/2	1/2	1	1-1/4	1/2	3-3/16	49522 ▲ 18 ♦ *
2-3/4	1/2	1-1/8	1-3/8	1/2	3-3/4	49523 ▲ 16 ♦*
3	1/2	1-1/4	1-1/2	1/2	3-7/8	49524 ▲ 16♦*
3-1/2	1/2	1-1/2	1-3/4	1/2	4-1/8	49526 A 15 **

^{*} Not guaranteed due to extreme diameter and radius. For best results it is recommended to use a smaller radius bit or chamfer the material prior to using these large radius tools. Tool life will be prolonged and a smoother finish will result.

Replacement solid carbide insert knife for RC-49492 #RCK-265 (2 required).

Replacement solid carbide insert knife for RC-49496 #RCK-268 (2 required).

Replacement solid carbide insert knife for RC-49497 #RCK-269 (2 required).

Replacement solid carbide insert knife for RC-49504 #RCK-272 (2 required). Replacement bearing #47706. Replacement bearing for 49505 & 49511 #47723.

Replacement bearing for 49527 & 49531 #47704.

▲ Warning: Maximum RPM ▲ 15=15,000; ▲ 16=16,000; ▲ 18=18,000; **▲** 22 = 22,000; **▲** 28 = 28,000

• Use in a table-mounted router. Not for use in a handheld router!

^{**} Miniature with 3/16" ball bearing #47775.

4 FLUTE CORNER ROUNDING/BEADING

Carbide Tipped with Ball Bearing Guide

4 flute design for super-smooth finish. The basic edge-forming bit, the corner-rounding bit rounds an edge to a given radius.

MDF/HDF



Wood



Excellent For Cutting: Acrylic

 Laminate 		 Melami 	ne	Plywc	000		
ØD	ØD1	R	В	Ød	L	Tool No	
7/8	5/8	1/8	7/16	1/4	1-15/16	49544	New
1	5/8	3/16	1/2	1/4	2	49546	New
1-1/8	5/8	1/4	7/16	1/4	2-9/16	49547	New
1-1/8	5/8	1/4	7/16	1/2	2-9/16	49541	
1-3/8	5/8	3/8	5/8	1/4	2-11/16	49548	New
1-3/8	5/8	3/8	5/8	1/2	2-11/16	49543	
1-5/8	5/8	1/2	11/16	1/4	2-3/4	49549	New
1-5/8	5/8	1/2	11/16	1/2	2-3/4	49545	



BEADING

Carbide Tipped • 2 Flute with 3/8" Diameter Ball Bearing Guide

Cut a quarter-round shape bounded by fillets, known as a bead, in one pass by this bit. The width of one fillet is set by the pilot bearing size, while the other is controlled by the depth of cut. A beading bit can be

transformed into a corner rounding bit by changing the bearing (and vice versa).





ØD	ØD1	R	В	Ød	L	Tool No.
5/8	3/8	1/16	5/16	1/4	1-3/4	49592
3/4	3/8	1/8	3/8	1/4	2	49596
3/4	3/8	1/8	3/8	1/2	2-5/16	49598
7/8	3/8	3/16	1/2	1/4	2	49600
1	3/8	1/4	1/2	1/4	2	49604
1	3/8	1/4	1/2	1/2	2-7/16	49606
1-1/8	3/8	5/16	1/2	1/4	2-1/16	49608
1-1/8	3/8	5/16	1/2	1/2	2-7/16	49610
1-1/4	3/8	3/8	5/8	1/4	2-3/16	49612
1-1/4	3/8	3/8	5/8	1/2	2-9/16	49614
1-1/2	3/8	1/2	3/4	1/4	2-1/4	49616
1-1/2	3/8	1/2	3/4	1/2	2-5/8	49618
1-3/4	3/8	5/8	7/8	1/2	2-3/4	49619 🛕 28
2-1/2	3/8	1	1-1/4	1/2	3-3/16	49622 186

Replacement bearing #47702.

▲ Warning: Maximum RPM ▲ 18=18,000; ▲ 22=22,000; ▲ 28=28,000

Use in a table-mounted router. Not for use in a handheld router!















1/4 5/16 3/8 and 1/2 4-Pc 1/2" Shank Set includes the following radii: 1/4 3/8 1/2 and 3/4 8-Pc 1/4" Shank Set includes the following radii:

1/16 1/8 5/32 3/16 1/4 5/16 3/8 and 1/2 8-Pc 1/2" Shank Set includes the following radii: 1/8 3/16 1/4 5/16 3/8 1/2 5/8 and 3/4

* Includes 4 Steel Ball Bearing Guide 3/8 Dia #47702 and Allen Key #5000



AMS-555



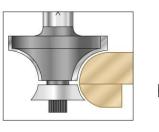






INDUSTRIAL PROFILING ROUTER BITS

^{*} Not guaranteed due to extreme diameter and radius. For best results it is recommended to use a smaller radius bit or chamfer the material prior to using these large radius tools. Tool life will be prolonged and a smoother finish will result.





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CORNER ROUNDING

Carbide Tipped • 2 Flute with Ultra-Glide™ Radius Bearing

A unique pilot bearing allows you to produce a true 180° bullnose with this corner rounding bit. Unlike a regular square-edge bearing, it follows the radiused surface produced on the first pass. Will neither leave a flat spot nor gouge the edge. Use the (optional) regular 1/4" x 5/8" steel bearing for the first pass.

Excellent For Cutting:

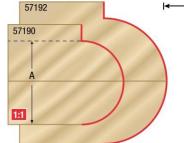
-	AUGITUITE I OI	outting.	
•	Acrylic	 MDF/HDF 	Wood
•	Laminate	 Melamine 	 Plywood

4110		6
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A.	1,11	V



						nepi.			
ØD	ØD1	Α	R	В	Ød	L	Bearing	Tool No.	
1-5/8	5/8	1	1/2	3/4	1/2	2-3/4	47767	57190	
2-1/8	5/8	1-1/2	3/4	1	1/2	3	47768	57192	

Standard steel 1/4" x 5/8" bearing - use #47712 (order separately).







MATCHING CORNER ROUND/COVE

Carbide Tipped • 2 Flute with Double Ball Bearing Guide

Cut rule joints with a single bit carrying perfectly matched profiles. Switch from the cove to the quarter-round profile simply by changing the extension of the bit. Use in handheld or table-mounted routers.

Excellent For Cutting: Acrylic Laminate







ØD	R	В	Ød	L	Tool No.
1-1/8	1/4	17/32	1/4	2-1/2	49150
1-1/4	5/16	21/32	1/4	2-11/16	49152

Replacement bearings #47712 (2 required).

Replacement snap ring to retain upper bearing #47748.







CORNER ROUNDING 3D

Carbide Tipped • 2 Flute

This is no ordinary corner rounding bit! A guide ring on the bit perimeter coupled with a guide bearing above the profile allows you to round the edges of stock that curves in two planes. Just what's needed for shaping chairs or any furniture that has compound curves. This unique tool is available in a 1/8" or 1/4" radius.

Excellent For Cutting:

- Acrylic Laminate
- MDF/HDF Melamine
- Wood
 - Plywood







ØD	R	В	Ød	L	Repl. Alum. Ring	Tool No.
1-1/4	15/64	1/4	1/2	3-29/32	47792	49529

Replacement parts:

Bearings #47706 and #47721.

Allen screw #67011

Lock ring #47739. Allen key #67165.







BULLNOSE

Carbide Tipped • 2 Flute & 3 Flute (51566 Only)

Shape the full edge of a work-piece with a bullnose radius bit. Ideal for shaping stair treads, window sills, table and counter edges, shelves, and making moldings. The "nose diameter" (M) is the thickness of stock that can be nosed, i.e., given a full 180-degree round over. Flats at top and bottom of the cutting edges create fillets on stock thicker than the nose diameter. Must be used

with an edge guide on handheld routers or the fence on a router table.



'M'	R	В	ØD	Ød	L	Tool No.
5/32	5/64	1/2	17/32	1/4	1-3/4	51540
3/16	3/32	1/2	21/32	1/4	1-5/8	51541
1/4	1/8	9/16	23/32	1/4	1-11/16	51543
9/32	9/64	3/4	21/32	1/4	1-7/8	51544
3/8	3/16	7/8	7/8	1/4	2	51545
1/2	1/4	1	1	1/4	2-1/8	51547
5/32	2 5/64	1/2	17/32	1/2	2	51550
3/16	3/32	1/2	21/31	1/2	2	51551
7/32	7/64	1/2	19/32	1/2	2	51552
1/4	1/8	9/16	23/32	1/2	2-1/16	51553
9/32	9/64	3/4	21/32	1/2	2-1/4	51554
3/8	3/16	7/8	7/8	1/2	2-3/8	51555
27/6	4 13/64	3/4	7/8	1/2	2-1/4	51556
1/2	1/4	1	1	1/2	2-1/2	51557
35/6	4 17/64	1	1-1/32	1/2	2-1/2	51558
5/8	5/16	1	1-1/8	1/2	2-1/2	51559
3/4	3/8	1-5/16	1-1/4	1/2	2-3/4	51560
7/8	7/16	1-1/2	1-1/2	1/2	3	51549
1	1/2	1-9/16	1-11/16	1/2	3-1/16	51562
1-1/8	9/16	1-1/2	1-13/16	1/2	3	51563
1-1/4	4 5/8	2	2	1/2	3-1/2	51564
1-1/2	2 3/4	2	2-3/8	1/2	3-1/2	51566 A 194

Sets

8-Pc Carbide Tipped Straight and Bullnose Router Bit Combo Set includes: 51556, 51557, 51559, 51560, 45413, 45418, 45430 & 45438

AMS-407

* 'M' denotes thickness of material on which a full 180° round over can be accomplished.

† #51566 is 3 flute (all others are 2 flute).

▲ Warning: Maximum RPM ▲ 19 = 19,000

• Use in a table-mounted router. Not for use in a handheld router!

3D ADAPTERS FOR ROUTER BITS

These 3D adapters are versatile devices used for making compound curves by inserting the adapter over any 1/4" shank router bit. By making it as an adapter and not a solid tool, the system becomes much more flexible as well as cost effective.

Adapter will fit all tools with up to a 3/4" cutting diameter. The cutting length is adjustable and is limitless to shapes and tools this adapter may be used for.

This 3D system may be useful especially for small objects, artistic works and other delicate projects. May also be used for small jobs with a drill machine (when one does not have a router). In this case, the outer ring, which revolves against the tool, serves as a small "router table". For this application, we recommend a minimum of 3,000 RPM.

#55110 can be used with Miniature Router Bits found on pages 210-211 as well as tool #49492 and #49496.



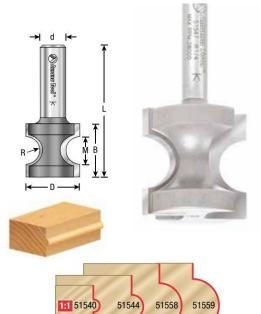
	ØD	ØD1	В	Ød	L	Tool No.
1	-1/16	25/32	1	1/2	3-13/32	55110 ▲18◆

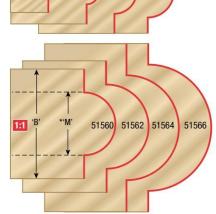
▲ Warning: Maximum RPM =18,000

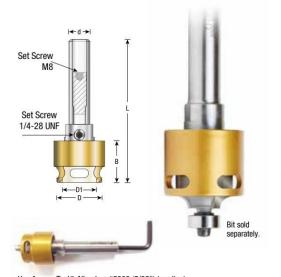
Each adapter comes with two Allen Keys: #5009 - 1/8" Allen Key for the screw on the side

#5003 - 5/32" Allen Key

Use to set screw M8 inside the shank of the tool. This screw makes it easier to adjust the length accurately and safely.

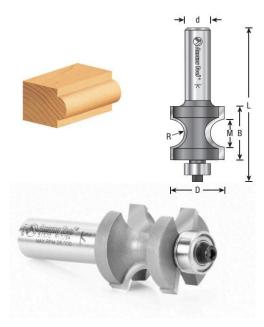


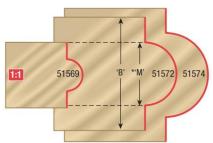




Use Amana Tool® Allen key #5003 (5/32") to adjust the required length of the shank. Only then, you can tighten the set screw that holds the tool from the side.

INDUSTRIAL PROFILING ROUTER BITS











BULLNOSE

Carbide Tipped • 2 Flute with Ball Bearing Guide

Shape the full edge of a work-piece with a bullnose radius bit. Ideal for shaping stair treads, window sills, table and counter edges, shelves, and making moldings. The "nose diameter"(M) is the thickness of stock that can be nosed, i.e., given a full 180-degree round over. Flats at top and bottom of the cutting edges create fillets on stock thicker than the nose diameter. Must be used with an edge guide on handheld routers or the fence on a router table.

					•	
'M'*	R	В	ØD	Ød	L	Tool No.
1/8	1/16	1/2	5/8	1/4	2-1/8	51565
3/16	3/32	1/2	11/16	1/4	2-1/8	51567
1/4	1/8	3/4	3/4	1/4	2-3/8	51568
3/8	13/64	3/4	7/8	1/2	2-3/4	51569
3/4	3/8	1-5/16	1-3/8	1/2	3-1/4	51572 1 20
1	1/2	1-19/32	1-13/16	1/2	3-1/2	51574 A18

^{* &#}x27;M' denotes thickness of material on which a full 180° round over can be accomplished. Replacement bearings:

Tool #'s 51565, 51567, 51568, 51569, use #47706.

Tool #51572 use #47716.

Tool #51574 use #47714.

▲ Warning: Maximum RPM ▲ 18 = 18,000; ▲ 20 = 20,000

♦ Use in a table-mounted router. Not for use in a handheld router!



CORNER BEADING

Carbide Tipped • 2 Flute with Ball Bearing Guide

Produce three slightly different profiles using this bit — an edge bead with or without a fillet and a full corner bead — by altering the bit extension or rolling the work-piece between passes. This group of hard-to-find tools is particularly suitable for antique reproductions and restoration projects. Use in a handheld or table-mounted router.

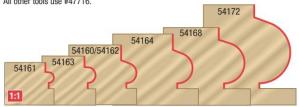






ØD	ØD1	R	В	B1	Ød	L	Tool No.
45/64	5/8	1/16	5/16	1/8	1/4	1-11/16	54161
49/64	11/16	3/32	25/64	3/16	1/4	1-3/4	54163
7/8	3/4	1/8	9/16	9/32	1/4	2-1/8	54160
7/8	3/4	1/8	9/16	9/32	1/2	2-1/2	54162
1-1/8	1	3/16	11/16	13/32	1/4	2-1/4	54164
1-1/8	1	3/16	11/16	13/32	1/2	2-5/8	54166
1-1/4	1-1/8	1/4	23/32	17/32	1/4	2-5/16	54168
1-1/4	1-1/8	1/4	23/32	17/32	1/2	2-11/16	54170
1-1/2	1-3/8	3/8	1	25/32	1/2	2-7/8	54172

Replacement bearing for #54160 - #54163 use #47706. All other tools use #47716.



COVE & BEAD

Carbide Tipped • 2 Flute with Ball Bearing Guide

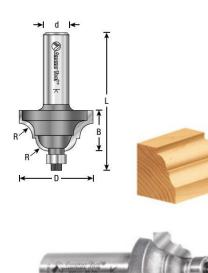
The reverse cove-and-bead bit, which has the cove coming off the bearing, produces the reverse of the classical cove and bead. Radii of both cove and bead are identical. Use in a handheld or table-mounted router.

				_		
ØD	R	В	Ød	L	Tool No.	
1	5/32	5/8	1/4	2-1/8	49208	
1	5/32	5/8	1/2	2-1/2	49210	
1-3/8	1/4	7/8	1/4	2-1/4	49212	
1-3/8	1/4	7/8	1/2	2-5/8	49214	

Replacement bearing #47704.







CLASSICAL BEAD & COVE

Carbide Tipped • 2 Flute with Ball Bearing Guide

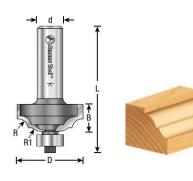
This bead and cove combines the two basic forms, separating them with a fillet. The cove comes off the pilot bearing. Produce a complex profile in a single pass. Use in a handheld or table-mounted router.



ØD	R	R1	В	Ød	L	Tool No.
1-1/4	13/64	5/16	1/2	1/4	2	54102
1-1/4	13/64	5/16	1/2	1/2	2-3/8	54104
1-1/2	7/32	15/64	5/8	1/4	2-1/8	54106
1-1/2	7/32	15/64	5/8	1/2	2-1/2	54108

Replacement bearing #47706.







INDUSTRIAL PROFILING ROUTER BITS



10-PC. WOODWORKERS MUST HAVE New

Carbide Tipped and Solid Carbide • Router Bit Set • 1/2" Shank

Excellent For Cutting:

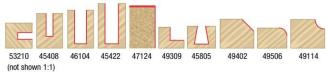
- Softwood/Hardwood
 Veneered Plywood





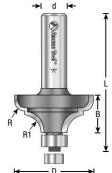


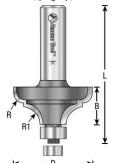




10-Pc set includes 53210, 45408, 46104, 45422, 47124, 49309, 45805, 49402, 49506 & 49114

AMS-410





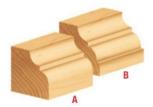




CLASSICAL COVE & BEAD

Carbide Tipped • 2 Flute with Ball Bearing Guide

The positions of the bead and the cove are reversed on this series of bits, with the bead coming off the bearing. With the optional 3/8" pilot bearing, the bit produces a fillet at the base of the bead. Largest diameter bits should be run at reduced speed. Use in a handheld or table-mounted router.







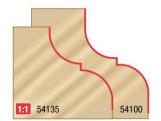


ØD	R	R1	В	Ød	L	Tool No.			
1-1/8	5/32	5/32	1/2	1/4	2	54128			
1-3/8	1/4	3/16	11/16	1/4	2-3/16	54130			
1-1/8	5/32	5/32	1/2	1/2	2-3/8	54132			
1-3/8	1/4	3/16	11/16	1/2	2-9/16	54134			
1-1/2	3/16	5/16	5/8	1/2	2-1/2	54292			
2	11/32	11/32	1-1/4	1/2	3-1/8	54100 🗥 18			
2	3/8	3/8	1	1/2	2-3/4	54135 🗥 8			

- A Standard 1/2" bearing #47706 (included).
- B Optional 3/8" bearing #47702 (order separately).
- ▲ Warning: Maximum RPM ▲ 18 = 18,000







COVE

Carbide Tipped • 2 Flute with Ball Bearing Guide

The covetto form - produced by the cove bit - is one of the classic building blocks for many molding profiles. Use it alone or in combination with beads and fillets. Use the cove to detail the edges of casework, doors and drawers, posts and columns. The cove also makes up one-half of the rule joint used on drop-leaf tables, the other half is the corner-round.

For best results with a large radius cutter, make a preliminary cut with a smaller radius bit or chamfer the work-piece to reduce the amount of stock to be removed in the finish pass. This will produce a smoother finish and prolong tool life. The largest diameter bits must be run at reduced speed.

В

1/2

1/2

9/16

9/16

1/2

9/16

9/16

9/16

9/16

3/4

3/4

11/16

1-1/4

1-1/4

Ød

1/4

1/4

1/4

1/4

1/4

1/4

1/2

1/4

1/2

1/4

1/2

1/2

1/2

1/2

1/2

Use in a handheld or table-mounted router.

1/16

1/8

3/16

1/4

1/4

5/16

5/16

3/8

3/8

1/2

1/2

5/8

3/4

7/8



ØD

1/2

5/8

3/4

7/8

1

1-1/8

1-1/8

1-3/8

1-5/8

2

2-1/4

2-1/2

1-3/8



2

2

2-1/16

2-1/8

2-3/8

2

2-3/8

2-1/4

2-1/2

2-1/2

2-7/8

3-1/8

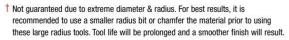
3





49121 **▲** 12†♦

49122 ▲ 12†♦

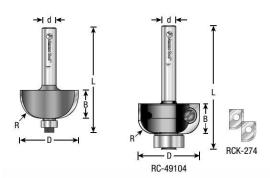


Replacement bearings: Tool #49120, #49121 & #49122 use #47706. All other tools use #47704 bearing.

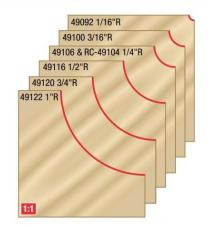
Replacement knife #RCK-274 (2 required).

Warning: Maximum RPM ▲ 12=12,000; ▲ 18=18,000

Use in a table-mounted router. Not for use in a handheld router!









Super-smooth cut finish. Feed rate is reduced, chipping is virtually eliminated.

ØD	R	В	C	Ød	L	Tool No.
1-1/2	3/8	9/16	3/8, 7/16, 1/2 & 9/16	1/2	2-5/8	49130 New
1-3/4	1/2	5/8	1/2 9/16 5/8 & 11/16	1/2	2-13/16	49132 Now

Replacement bearings: 47714(3/4), 47712(5/8), 47701(1/2), 47751(3/8)

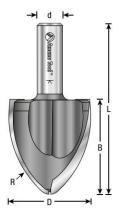




4 Flute



INDUSTRIAL PROFILING ROUTER BITS



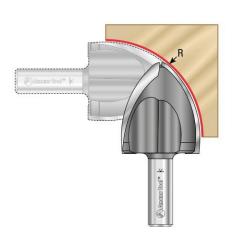
LARGE RADIUS OVOLO

Carbide Tipped • 2 Flute

Now you can make extra-large coves with your router. This bit is perfect for creating beautiful coves for furniture or architectural crown moldings. With this bit you can make large coves in any wood species that you want. You'll never need to purchase cove molding again.

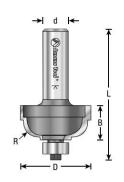












CLASSICAL COVE

Carbide Tipped • 2 Flute with Ball Bearing Guide

A cove flanked by step fillets, a classical project used in period moldings, is produced by this tool. Use in a handheld or table-mounted router.

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ØD	R	В	Ød	L	Tool No.
1-1/8	3/16	1/2	1/4	2	54144
1-3/8	5/16	5/8	1/2	2-1/2	54150

Replacement bearing #47706.





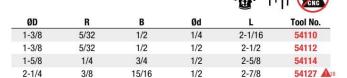


OGEE FILLET

Carbide Tipped • 2 Flute with Ball Bearing Guide

This ogee pattern has a step at the end of the concave portion of the curve. Using the optional 3/8" bearing produces a profile with a fillet at the convex

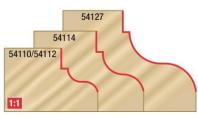
end of the curve. Use in a handheld or table-mounted router.

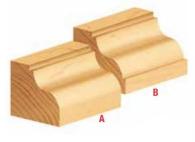


A Standard 1/2" bearing #47706 (included).

B Optional 3/8" bearing #47702 (order separately).







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ROMAN OGEE

Carbide Tipped • 2 Flute with Ball Bearing Guide

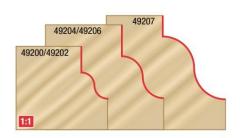
The Roman ogee bit, which has a convex curve coming off the bearing, produces the reverse of the ogee (it isn't an upside-down ogee). The curve starts at the top as a concave, and fairs down into a convex curve. Use in a bendheld of table, reputed south.

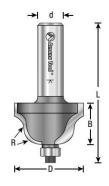
handheld or table-mounted router.

ØD	R	В	Ød	L	Tool No.
9/16	3/32	5/16	1/4	1-7/8	MR0104 *
1	5/32	5/8	1/4	2-1/8	49200
1	5/32	5/8	1/2	2-1/2	49202
1-3/8	1/4	13/16	1/4	2-1/4	49204
1-3/8	1/4	11/16	1/2	2-5/8	49206
2	3/8	1	1/2	3	49207

^{*} Miniature with 3/16" ball bearing guide #47775.

Replacement bearing for #49207 use #47706. All others use #47704 bearing.





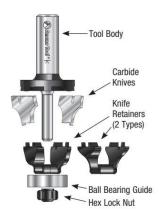


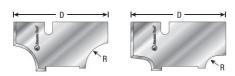
INDUSTRIAL PROFILING ROUTER BITS



Concave Knife Retainer

Body type 'A' includes both concave and convex knife retainers and ball bearing guide.





Knives are marked to indicate which retainer is needed.



NOVA SYSTEM™

For Edge Form Routing

Multi-Profile Router Cutter System

The Nova System™ provides a wide range of profiling options in a single router bit with replaceable insert solid carbide knives. The innovation is in the bit. The easily replaceable hard carbide blades give a whole range of profile options in a single bit, as well as other vital advantages such as durability, versatility, safety, service-free and cost effectiveness.

TOOL BODY TYPE A (EDGE FORM)







Description	L	Tool No.	
Body A (1/4 Shank)	3	NS-104	

EDGE FORM KNIVES FOR BODY A (SOLD AS PAIR)

Corner Round

R	R1	a°	ØD	В	Tool No.
1/8		· —	1-3/8	11/16	NRC-A03
1/4	·—	-	1-3/8	11/16	NRC-A05

Beading

3					
3/16	_	_	1-3/8	11/16	NRC-A08

Chamfer

_	_	30°	1-1/2	11/16	NRC-A01

Cove

Cove						
1/4	-	()	1-3/8	11/16	NRC-A11	

0gee

5/32	11/64	1-	1-3/8	11/16	NRC-A15
5/32	11/64	_	1-1/2	11/16	NRC-A16

Ordering Instructions: Choose the edge form type body 'A' #NS-104 (1/4 shank), then select the desired profile knives listed above.

Replacement parts: Knife retaining screws #67084 (2 required); Hex key #5007; Ball bearing #47714; Hex lock nut #67089.

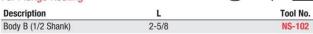
TOOL BODY TYPE B (PLUNGE)

For Plunge Routing









PLUNGE KNIVES FOR BODY B (SOLD AS PAIR)

'V' Groove

R	a°	ØD	В	Tool No.
_	45°	3/8	1/4	NRC-B51

Core Box

COIC DOX								
1/4	_	1/2	3/8	NRC-B53				

Ordering Instructions: Choose the plunge type body 'B' #NS-100 (1/4 shank) or #NS-102 (1/2 shank), then select the desired profile knives listed above.

Replacement parts: Knife retaining screws #67084 (2 required); Hex key #5007.



Body Type A (Edge Form Routing) Profiles















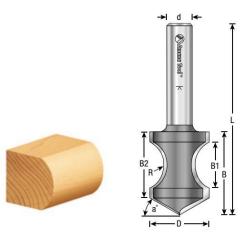


Body Type B (Plunge Routing) Profiles





INDUSTRIAL PROFILING ROUTER BITS



HAND GRIP PLUNGE

Carbide Tipped • 2 Flute

Intended for forming and edging internal hand-helds and cutouts in a single pass, this bit will also cut a soft bullnose on any exposed edge. Use in a CNC or other automatic router. Plunge cuts on router table are not recommended.

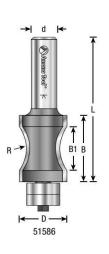
						Į.		CING
ØD	a°	R	В	B1	B2	Ød	L	Tool No.
1-1/8	45°	1/2	1-9/16	7/8	1-1/4	1/2	3-5/8	51590











CONVEX EDGING

Carbide Tipped • 2 Flute with or without Ball Bearing Guide

Cuts a shallow arc – the fingernail shape – rather than a full 180-degree round over. Like the bullnose radius bit, it has short flats above and below the cutter arc, which produce fillets on stock thicker than 7/8". Must be used with an edge guide on handheld routers, or the fence on a router table.

ØD	R	В	B1	Ød	L	Tool No.
13/16	23/32	1-1/4	27/32	1/4	2-1/2	51580
13/16	23/32	1-1/4	27/32	1/2	2-3/4	51582
29/32	23/32	1-1/4	27/32	1/2	2-3/4	51586 *†

Cuts a shallow radius ('thumbnail' shape) on board edges.

[†] Not for use in CNC machines.







^{*} Replacement bearing for #51586 use (2) #47712. Replacement screw #67096. Replacement key #5000.

CLASSICAL MOLDING

Carbide Tipped • 2 Flute with Ball Bearing Guide

A double quarter-round profile is produced by this tool. The depth-of-cut setting determines whether or not a fillet is formed at the top. Switching from the standard pilot bearing to the optional 3/8" bearing introduces a fillet at the bottom of the profile. Use in a handheld or table-mounted router.

ØD	R	В	Ød	L	Tool No.
1-1/8	5/32	1/2	1/4	2	54136
1-3/8	7/32	11/16	1/4	2-3/16	54138
1-1/8	5/32	1/2	1/2	2-3/8	54140
1-3/8	7/32	11/16	1/2	2-9/16	54142
1-1/2	1/4	3/4	1/2	2-3/4	54141



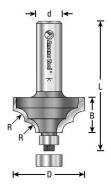
B Optional 3/8" bearing #47702 (order separately).













WAVY EDGE

Carbide Tipped • 2 Flute with Ball Bearing Guide

This bit produces an undulating curve with two convex forms flanking a concave form. All the radii are equal. A shoulder on the cutter can form a fillet, depending upon the depth-of-cut setting. Use in a handheld or table-mounted router.



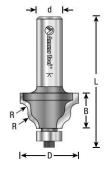




ØD	R	В	Ød	L	Tool No.
1-1/4	5/32	11/16	1/4	2-1/4	54180
1-1/4	5/32	11/16	1/2	2-5/8	54182

Replacement bearing #47706.



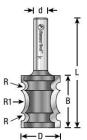


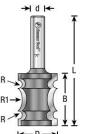




INDUSTRIAL PROFILING ROUTER BITS





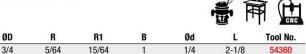




REED EDGE

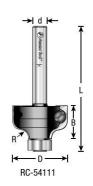
Carbide Tipped • 2 Flute

Produces a thumbnail flanked by full beads, an elegant edge profile. Must be used with an edge guide or router-table fence to control the cut. For stock between 3/4" and 1" thick.









OGEE

Carbide Tipped • 2 Flute with Ball Bearing Guide

The ogee is one of the basic shapes used in moldings and decorative profiles. An S-shaped curve, it is convex at the top fairing down into a concave (shown inverted). The ogee bit is characterized by the concave shape coming off the pilot bearing. Using the optional 3/8" bearing produces a profile with a fillet at the convex end of the curve. Use in a handheld or table-mounted router.

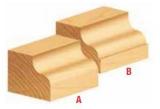






ØD	R	R1	В	Ød	L	Tool No.
1-1/32	1/4	_	1/2	1/4	2-1/16	RC-54111
1-1/8	5/32	5/32	1/2	1/4	2	54120
1-1/8	5/32	5/32	1/2	1/2	2-3/8	54124
1-3/8	1/4	3/16	11/16	1/4	2-3/16	54122
1-3/8	1/4	3/16	11/16	1/2	2-5/8	54126

- A Standard 1/2" bearing #47706 (included).
- B Optional 3/8" bearing #47702 (order separately).









'LEAF-EDGE' BEADING

Carbide Tipped • 2 Flute with Ball Bearing Guide

In one pass, this bit forms a round-edged groove near the corner of the workpiece. A second pass on the adjoining face yields a delicate leaf-shaped corner bead. Use in a handheld or table-mounted router.

 ØD
 R
 B
 Ød
 L
 Tool No.

 1
 3/16
 1/2
 1/4
 2-1/2
 54190

Replacement bearings #47712 (2 required).

Replacement collar #47724.





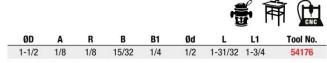




FLUTE & BEAD SET

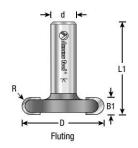
Carbide Tipped • 2 Flute

Cut joints for staved assemblies, such as circular planters, canoes, kayaks and hot tubs, with this pair of bits. One bit flutes an edge, and the other forms the mating bead. Use in CNC or table-mounted routers. It will cut plywood, hardwood, softwood and composition materials. For the best and accurate match, we recommend using a table-mounted router.



Set of 2 bits. Not sold separately.



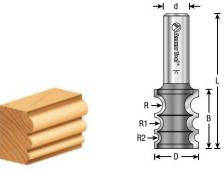








INDUSTRIAL PROFILING ROUTER BITS





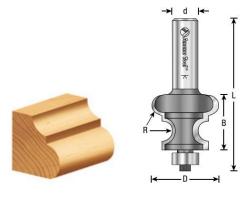
Carbide Tipped • 2 Flute

Three different radii of beads are stacked on this one bit. Rout all three on an edge, or use it to nose thin stock. Router-table use recommended for best control, but use in a handheld router is possible. Must be used with an edge guide.









MATCHED BEAD

Carbide Tipped • 2 Flute with Ball Bearing Guide

This dual purpose bit produces both moldings and joints. Use in place of matched flute-and-bead bit sets to mill the edges of strips used in various stave constructions like planters, canoes and hot tubs. Switch from fluting to beading by raising or lowering the bit. Pilot bearing allows use for template-guided cuts. Recommended for router table use; smaller sizes can be used with an edge-guide equipped portable router.

					P
ØD	R	В	Ød	L	Tool No.
1-1/4	3/16	1	1/2	2-7/8	54186
2	1/4	1-1/4	1/2	3	54188 18

Replacement bearing for #54186 use #47706. Replacement bearing for #54188 use #47716.

▲ Warning: Maximum RPM ▲ 18 = 18,000









EDGE MOLDING

Carbide Tipped • 2 Flute with Ball Bearing Guide

The torus-and-cove profile produced by this bit make an excellent edge detail or molding. The pilot bearing allows you to make template-guided cuts with the bit.

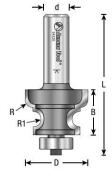
Use in a handheld or table-mounted router.

ØD	R	R1	В	Ød	L	Tool No.
1-1/4	5/32	5/32	7/8	1/2	2-3/4	54322
1-9/16	7/32	15/64	1-3/16	1/2	3	54324

Replacement bearing for #54322 use #47706. Replacement bearing for #54324 use #47712.



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Carbide Tipped • 2 Flute with Double Ball Bearing Guide

Produce beading detail on edges or moldings. Use in a handheld or table-mounted router.

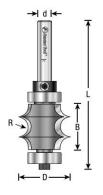


ØD	R	В	Ød	L	Tool No.
1	3/16	7/8	1/4	2-7/8	54296

Replacement parts: Bearings #47712 (2 required); Collar #47724.









EDGE BEADING

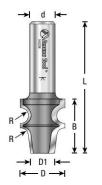
Carbide Tipped • 2 Flute

Similar to the corner bead, but with a radiused, rather than a hard-edged quirk. Since this bit lacks a pilot, it must be used with a fence or edge guide. Use in a handheld or table-mounted router.

					T	CNC
ØD	ØD1	R	В	Ød	L	Tool No.
7/8	1/2	5/32	1-1/32	1/2	2-3/4	54208



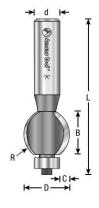












EDGE FLUTING

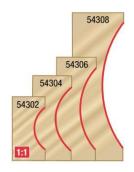
Carbide Tipped • 2 Flute with Ball Bearing Guide

This bit produces a fingernail flute, rather than a full 180° radius flute. Creates an interesting edge detail, and can be used to make small-scale cornice-type moldings. Use in a handheld or a table-mounted router.

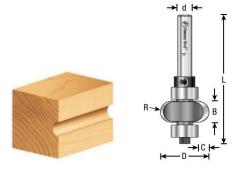
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ØD	R	В	C	Ød	L	Tool No.
3/4	5/16	1/2	1/8	1/2	2-3/4	54302
7/8	15/32	3/4	3/16	1/2	3	54304
7/8	3/4	1	3/16	1/2	3-1/4	54306
1	1-1/4	1-1/2	1/4	1/2	3-3/4	54308

Replacement bearing #47706.







EDGE-FLUTING ASSEMBLY

Carbide Tipped • 2 Flute with Upper & Lower Ball Bearing Guides

Cut individual flutes – shallow, small-radius grooves – in narrow edges without having to balance a router on that edge. The bit cuts at right angles to the bit axis. Flute depth is controlled by the pilot bearing, the flute's position by the router's bit-height setting. Use in a handheld or table-mounted router.

				(4)	I CWC	
ØD	R	В	C	Ød	L	Tool No.
3/4	1/8	1/4	1/8	1/4	2-1/4	54330
7/8	13/64	3/8	1/4	1/4	2-3/8	54332

Replacement parts: Bearings #47701 (upper) and #47706 (lower); Collar #47724.









DOUBLE BEADING

Carbide Tipped • 2 Flute with Ball Bearing Guide

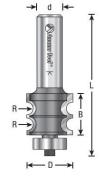
Produce pairs of beads on the edges of shelving or narrow molding strips.

Use in a handheld or table-mounted router.



ØD	R	В	Ød	L	Tool No.
7/8	1/8	3/4	1/2	2-5/8	54294

Replacement bearing #47716.









TRIPLE BEADING/FLUTING

Carbide Tipped • 2 Flute with Ball Bearing Guide

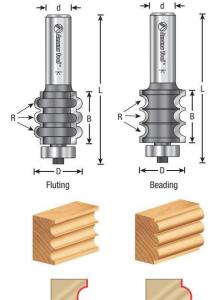
Three uniform beads or flutes are formed in one pass with these bits. Produce reeded or fluted pilasters or table legs referencing opposite faces of the work-piece. Use in a handheld or table-mounted router.

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ØD	Type	R	В	Ød	L	Tool No.
7/8	Bead	1/8	1	1/4	2-5/8	54211
7/8	Bead	1/8	1	1/2	2-59/64	54213
7/8	Flute	1/8	1	1/2	3	54217

Replacement bearing #47716.





TRIPLE BEADING

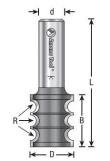
Carbide Tipped • 2 Flute

Three uniform beads are formed in one pass with this bit. Use it to produce reeded pilasters or table legs. Must be used with an edge guide or fence. Use in a handheld or table-mounted router.

					_	Next to the second	
ØD	Type	R	В	Ød	L	Tool No.	
7/8	Bead	1/8	1	1/4	2-1/4	54210	
7/8	Bead	1/8	1	1/2	2-3/4	54212	







54217



54211/54213

INDUSTRIAL PROFILING ROUTER BITS



IN-TECH™

Insert Carbide • 2 Flute • Industrial Quality

Amana Tool® introduces the in-Tech™ Series insert router bits to provide all woodworkers access to the industrial-grade technology at an affordable price. In-Tech™ router bits are priced comparable to standard router bits but last up to four times longer, saving users money during the life of the tool as knives are replaced rather than the entire tool. Ideal for routing softwood/hardwood and harder materials such as MDF and Chipboard.



Benefits of the in-Tech™ Series include:

- . Cutting accuracy remains constant during the life of the insert carbide knife
- · Priced comparably to brazed router bits with at least 4 times longer tool life
- · Superior cutting quality
- No re-sharpening costs
- Nine popular profile sizes in 1/4" shank
- · Harder grade tungsten carbide





IN-TFCH™

Insert Carbide Knives • 2 Flute • Industrial Quality



Popular insert router bit profiles provide all woodworkers access to the industrial-grade technology, at an affordable price. By replacing worn knives instead of sharpening standard carbide tipped bits, router bit dimensions, cutting quality and accuracy remain constant during the life of the tool. Ideal for routing softwood/hardwood as well as harder materials such as MDF and Chipboard. V-Groove bits excellent for engraying Aluminum.

ØD	C	R	В	a°	a1°	Ød	L	Description	Flute	Repl. Knives	Repl. BB	Tool No.	
1	_	1/4	1/2	_	_	1/4	2-1/16	Corner Round	2	RCK-272*	47706	RC-49504	
1	-	1/4	1/2	-	-	1/4	2-1/16	Cove	2	RCK-274*	47706	RC-49104	
1-1/32		3/16	5/8	_	_	1/4	2-3/8	Ogee Fillet	2	<u></u>	47706	RC-54111	
1-1/8	3/8	_	1/2	_	_	1/4	1-7/8	Rabbet	2	RCK-264*	47702	RC-49300	
1/2	_	_	20mm	_	_	1/4	2-5/16	Flush Trim	2	RCK-262*	47706	RC-47104	
1	_	1/8	3/8	45°	-	1/4	2-3/16	(2 in 1) Bevel / Round	2	RCK-268*	47706	RC-49496	
1-5/64	_	1/16	3/8	45°	_	1/4	2-3/8	(2 in 1) Bevel / Round	2	RCK-265*	47706	RC-49492	
1-5/64	_	2mm	43/64	45°	_	1/4	2-13/32	(2 in 1) Bevel / Round	2	RCK-267*	47706	RC-49495	
1-5/64	_	3mm	3/8	45°	_	1/4	2-3/8	(2 in 1) Bevel / Round	2	RCK-269*	47706	RC-49497	
17.6mm	_	_	8.5mm	90°	45°	6mm	52mm	V-Groove	1	AMA-12**	_	RC-45711-N	
11/16		-	21/64	90°	45°	1/4	1-61/64	V-Groove	1	AMA-12**		RC-45711	
11/16		_	21/64	90°	45°	1/2	2-3/16	V-Groove	2	AMA-12**	_	RC-45711	
	100-000			90	45								
1/2		1/4	1/2		_	1/4	2-1/8	Core Box	1	RCK-266	47701	RC-45910	
1/2	_	_	30mm	_	_	1/4	2-5/8	Straight Plunge	1	AMA-30	_	RC-45226	T
	RCK-272		ou as a pail, → I d I				K-274	ood for use in CNC Machine →I d I←	5		d	d ⊬	T
1:1		R ²	Manumer Glood * ' ≺	T B Y		H		<u> </u>	1:1		R	man god, k	L
	1	→ <	RC-49504	→				RC-49104			l < RC	D > C-54111	_
1:1	RCK-264		D Samon Sad* K	T B B J	L [AMA-1 cutting edges in be rotated		A P	1:1	RCK-266 Templat		d Manus Balink	
		 	RC-4930	→	¥			₩ D → I RC-45711 RC-45711-M				5/	<u>.</u>
a _		AMA-3	→ d d ⊗daman fluid"	L L B L		RC	K-262	d Comment to be 1. F.	RC 1:1		2 in 1	2//	

INDUSTRIAL INSERT ROUTER BITS



BASE MOLDING OGEE EDGE DETAIL

Carbide Tipped • 2 Flute

One of the easiest ways to dress up a room is to replace the skimpy base molding with a wide, bold profile. Amana Tool® offers classic ogee profiles in two sizes so that you can choose a size that best fits with the architectural details in the room. For quick easy installation we recommend that you attach the molding to the top of the base. This method greatly simplifies installation by allowing for a butt joint





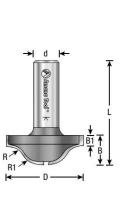


ØD	R	R1	В	B1	Ød	L	Tool No.
1-7/16	5/16	3/8	19/32	1/4	1/2	2	54297
1-53/64	19/64	13/32	3/8	7/32	1/2	2-1/2	54299 *

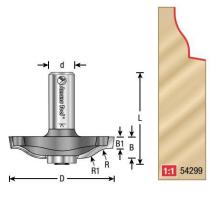
^{*} Not for use in CNC machines.

Replacement parts: Bearing #47706; Screw #67014.









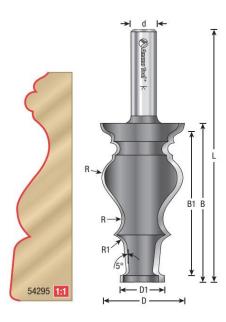








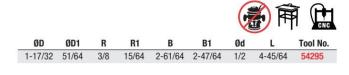
INDUSTRIAL ARCHITECTURAL ROUTER BITS



COLONIAL DOOR CASING

Carbide Tipped • 2 Flute

Make your own door and window casing in cherry, oak or any wood specie that you prefer. This bit makes beautiful classic colonial window and door trim. You can even make curved window casing – perfect for trimming that Palladian window.







WAINSCOT SETS

Carbide Tipped • 2 Flute • 3/4" Material

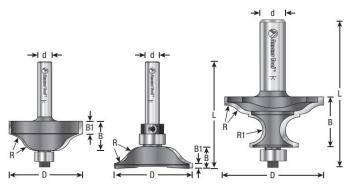
No other architectural feature adds quality and value to your home like wainscot paneling. Now you can make your own wainscot with these wainscot router bit sets. Each three-piece set comes with a beautiful profile bit for the stile and rail edges, a cope bit for flawless joints at each intersection, and a chair rail bit for a beautiful finishing touch.

Bead, Bevel, Classic & Ogee Styles

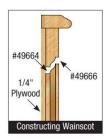
Deau, L	bever, on	assit (x oyee	Styles			·画·	CNC
ØD	R	R1	В	B1	Ød	L		Tool No.
1-1/8	1/4	-	3/8	1/4	1/4	2	Bead Stile	49640
1-1/4	1/4		5/16	7/64	1/4	2	Bead Rail	49642
1-1/2	11/32	_	9/16	1/4	1/4	2	Ogee Stile	49664
1-9/32	11/32	-	3/8	1/8	1/4	2	Ogee Rail	49666
	3 Pi	ece Set	Includin	g 49664,	49666 & !	54266		49680
1-5/16	3/16	1	5/8	7/32	1/4	2	Classical Stile	49674
1-7/16	3/16	-	9/16	1/8	1/4	2	Classical Rail	49676
	3 Pie	ece Set	Including	49674 &	49676			49682



Replacement bearing for stile cutters #47702 (3/8" diameter). Replacement bearing for rail cutters #47701 (1/2" diameter). Replacement collar for rail cutters #47724.





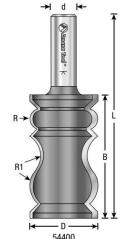


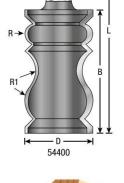




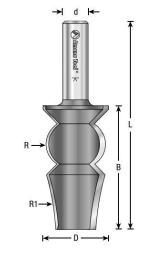


INDUSTRIAL ARCHITECTURAL ROUTER BITS











Amana Tool®

CROWN MOLDING

Carbide Tipped • 2 Flute

Produce mid-sized crown, cove and bead molding profiles for architectural and furniture applications. The bits cut the profile and bevel, as necessary, which is the show face of the work-piece.





2-1/4 1-1/4 3/16 7/16 3-3/4 1/2

▲ Warning: Maximum RPM=22,000

Bevel the top and bottom edges on the table saw to complete the molding. Use a 2+ horsepower router, mounted in a table, with a fence to guide the work. To prolong cutter life, reduce strain on the router. To get the best cut finish, make several passes to achieve full cut depth. Bevel back edges, cutting off 45° excess, with one of our chamfer bits.



REVERSIBLE CROWN MOLDING EXTENDER

Carbide Tipped • 2 Flute

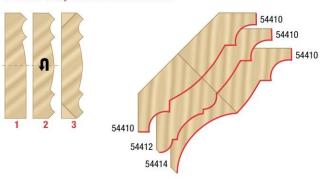
Create crown molding up to 4-1/2" wide!

Now you can make extra-large architectural crown moldings with your table-mounted router. Our new extender bit enables you to make unique crown moldings in every type of wood. You're no longer limited to the small selection of crown moldings at the lumber dealer. This specially designed bit works in conjunction with either our vertical or horizontal crown molding bits allowing you to make crown moldings up to 4-1/2" wide. Bevel back edges, cutting off 45° excess, with one of our chamfer bits.



1-1/4 7/16 3-15/16 2-3/8 1/2

Can be used with other Crown Molding Bits to create many different combinations!



REVERSIBLE CROWN MOLDING

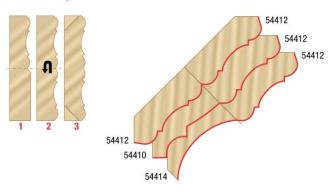
Carbide Tipped • 2 Flute

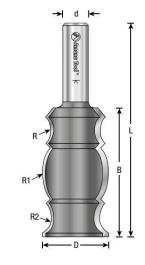
Give your ceilings that finished look!

With this bit you can easily make classic crown moldings with your table-mounted router. The beautiful profile is a large cove flanked by round overs. Use your fence to control the cutting depth and a featherboard to keep the stock firmly positioned against the fence. Bevel back edges, cutting off 45° excess with one of our chamfer bits.

					Q		CNC
ØD	R	R1	R2	В	Ød	L	Tool No.
1-1/4	3/8	7/8	7/16	2-7/16	1/2	4-1/16	54412

Can be used with other Crown Molding Bits to create many different combinations!



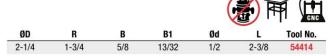




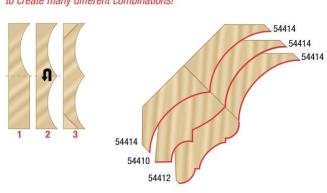
HORIZONTAL CROWN MOLDING

Carbide Tipped • 2 Flute

Now you can make large cove moldings for furniture and trim with your table-mounted router. This unique bit cuts a large, smooth arc; just what is needed to create a cove shaped crown molding for your next piece of furniture casework. Bevel back edges, cutting off 45° excess, with one of our chamfer bits. For even greater versatility, combine this bit with our crown molding profiles on pages 142-143.



Can be used with other Crown Molding Bits to create many different combinations!





INDUSTRIAL ARCHITECTURAL ROUTER BITS

3 & 4 FLUTE ROUTER BITS

A Comprehensive Selection of Unique Tools

More cutters / flutes results in better surface finish & longer tool life! Eliminates the time-consuming hand-filing and sanding that normally follows routing with 2 fluted tools in hard materials.















57181 See page 125

See page 194

49545 See page 151

49130 See page 157

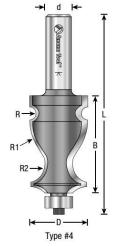
45463-3DS See page 123

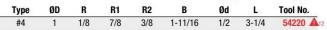
ARCHITECTURAL MOLDING

Carbide Tipped • 2 Flute with Ball Bearing Guide

These bits are designed for routing architectural and furniture moldings and trim. Almost all have the profile laid out vertically, reducing the diameter of the bit. These bits should be used in a 2+ horsepower, table-mounted router, and many should be run at reduced speed. Although most have ball-bearing guides, guiding the cuts with the fence is recommended.





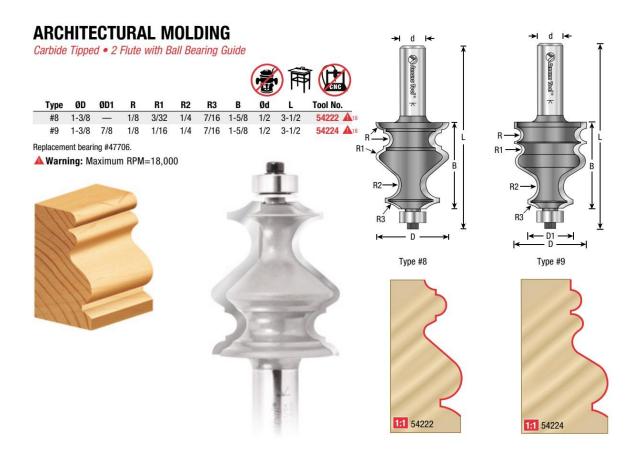


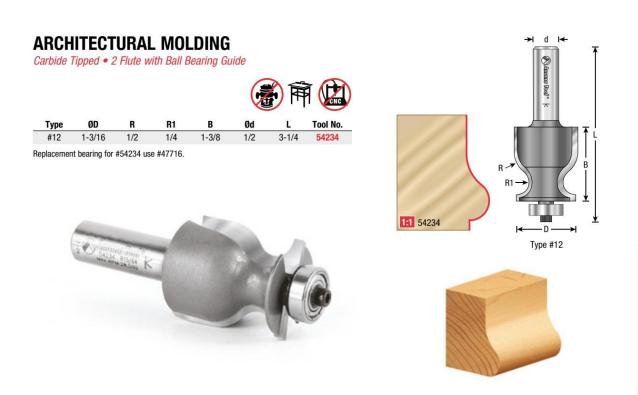
Replacement bearing #47706.

▲ Warning: Maximum RPM ▲12=12,000



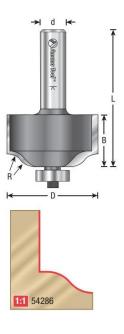






INDUSTRIAL ARCHITECTURAL ROUTER BITS

https://online.fliphtml5.com/znuv/nmyd/#p=1









Designed for routing architectural and furniture moldings and trim, these bits should be used in a 2+ horsepower, table-mounted router, and many should be run at reduced speed. Although most have ball-bearing guides, guiding the cuts with a fence is recommended.

						Repl.	
ØD	R	R1	В	Ød	L	Bearing	Tool No.
1-3/4	23/64	1 	1	1/2	3	47712	54286 18
Warnir	ոց։ Maximu	ım RPM=	18,000				



d |←

MULTI-FORM

Carbide Tipped • 2 Flute with Ball Bearing Guide

This one bit is designed to cut more than 40 different molding patterns. By making simple adjustments to the cutter height and fence position, and making two or more passes, you can produce a wide variety of profiles and architectural details.

Use the bit only in a table-mounted router. Available with 1/2" shank only.

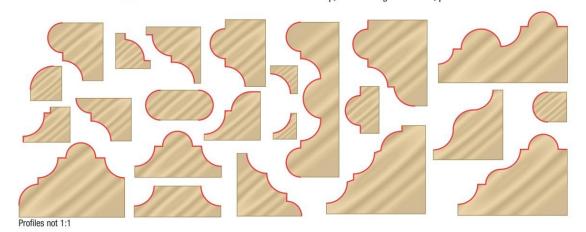
Tool #54198 is a miniature version of the multi-form bit.



	ØD	R	R1	R2	В	Ød	L	Bearing	Tool No.
Ī	1-1/4	3/16	9/64	1/8	1	1/2	2-7/8	47702	54198
	2-1/4	23/64	21/64	1/4	1-7/8	1/2	4	47706	54200 🛕 12

▲ Warning: Maximum RPM ▲ 2=12,000

Create over 40 different molding profiles with this one bit!

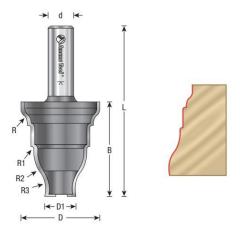


CASING & BRICK MOLDING

Carbide Tipped • 2 Flute

Make your own door and window casing in cherry, oak or any wood specie that you prefer. This bit makes beautiful classic colonial window and door trim. You can even make curved window casing – perfect for trimming that Palladian window.

					(F	
ØD	ØD1	R	R1	В	Ød	L	Tool No.
1-1/2	19/32	3/16	1/32	1-27/32	1/2	3-11/32	54258



INDUSTRIAL ARCHITECTURAL ROUTER BITS





HAND/TABLE EDGE

Carbide Tipped • 2 Flute with Ball Bearing Guide

These special router bits are used for cutting table top edges or used with handrail side profile bits. Originally designed for easing and profiling the edges of tabletops, these bits also are widely used for the same purpose on handrails.

Eliminate hard edges, reduce the visual thickness of a tabletop, and add an elegant detail simultaneously with these bits.



	ØD	R	R1	В	B1	B2	Ød	L	Tool No.
ĺ	2-3/4	1-3/4	_	5/8	_	_	1/2	2-7/8	49550 16
	2-1/2	3/8	_	3/4	_	_	1/2	2-3/4	49554 16
	2-1/2	13/32	13/64	25/32	43/64	7/64	1/2	2-3/4	49556 16

AStandard 1/2" bearing #47706 (included).

BOptional 3/8" bearing #47702 (order separately).

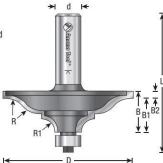
▲ Warning: Maximum RPM ▲16=16,000



49550 Table Edge

Cuts a wide profile with an arc based on the ellipse rather than the circle. With the optional 3/8" bearing, it will produce a fillet at the cut's edge. Good choice for handrails.





49556 Ogee and Bead

Cuts a shallow ogee into the tabletop surface coupled with a bead at the edge. Bit will produce a fillet if set to cut deep enough. With the optional 3/8" bearing, it will produce a fillet at the cut's edge. Good choice for handrails.

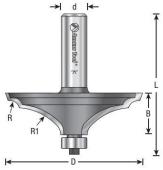




49554 Ogee

Cuts a shallow, elongated ogee. With the optional 3/8" bearing, it will produce a fillet at the cut's edge. Good choice for handrails.





49560 Thumbnail And Bead

Cuts the thumbnail arc coupled with a bead around the tabletop surface. With the optional 3/8" bearing, it will produce a fillet at the cut's edge.







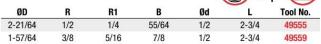
TABLE EDGES

Carbide Tipped • 2 Flute with Ball Bearing Guide

Profiles are designed for 3/4" thick tops.

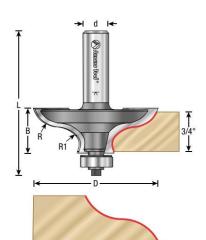
This selection of table edge profiles offers a wide variety of designs from which to choose. All will shape away the hard edge, add detail, and reduce the visual thickness of the top.





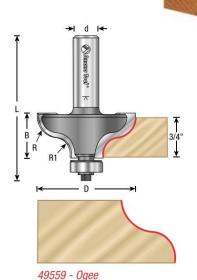
Replacement bearing #47718.





49555 - Reverse Curve

The broad curves of this ogee create a wide, elegant table edge. Notice that the curve continues under the top slightly to make a large tabletop appear thin.

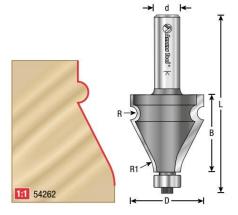


This bit cuts the classic reverse curve so popular on period furniture designs.

INDUSTRIAL ARCHITECTURAL ROUTER BITS











HANDRAIL

Carbide Tipped • 2 Flute with Ball Bearing Guide

Shape the sides of a handrail to make it both attractive and easy to grip. Then ease the top edges with the table edge bits shown on pages 182-183. Use in a handheld or table-mounted router.



ØD	R	R1	В	Ød	L	Tool No.
1-3/8	1/8	19/32	1-1/2	1/2	3-3/8	54262
1-1/4	3/8	1/2	1-1/2	1/2	3-3/8	54269

Replacement bearings #54262 use #47706. Replacement bearings #54269 use #47716.



HANDRAIL PATTERNS

12 Different Patterns!



(Wood profiles not shown at actual size.)

MAKE CLEAN & BEAUTIFUL DOVETAIL JOINTS!

The dovetail joint is the strongest construction method for drawers, boxes, chests and fine casework. Amana Tool® designs the bits needed by many router dovetail jigs that require cutting half-blind and through dovetails. We carry the bits for name brand dovetail jigs, including Leigh®, Keller, Omnijig® and Incra®









Sliding Dovetail

Variable Spaced Dovetail

Half-Blind Dovetail

Through Dovetail

DOVETAIL

Carbide Tipped • 7° Angle

For the Keller™ Dovetail Templates and certain Incra® applications, 7° dovetail bits are required. (Bits for the Keller" system are supplied with shank-mounted bearings.) This angle is also used in cutting stair stringers.



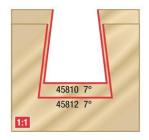
ØD	В	Ød	L	Application	Tool No.
9/32	1/2	1/4	2-13/32	Porter-Cable® Jig 4212	45837 *
1/2	25/32	1/2	3-1/8	Omnijig® Joinery System	45831
17/32	13/16	1/2	2-3/8	Porter-Cable® Jig 4210 & 4212	45838
5/8	7/8	1/2	2-5/8	Incra®	45808
3/4	7/8	1/2	2-5/8	Incra®	45810
7/8	7/8	1/2	2-1/2	Stair Tread	45812

^{* 6.24°} Angle











Carbide Tipped • 7-1/2° Angle

The 7-1/2° dovetail bit is used with both Omnijig® & the Incra® dovetail system.

	ØD	В	Ød	L	Application	Tool No.
1	1/4	5/16	1/4	2-1/2	Incra®/Omnijig® #43639	45820





INDUSTRIAL JOINTING ROUTER BITS











Set #AMS-405 Includes: 45408, 45414, 45802, 45806, 45808 & 45810



DOVETAIL

Carbide Tipped • 8° Angle

These 8° dovetail bits are designed especially for use with the Leigh® Dovetail Jig.







ØD	В	Ød	L	Application	Tool No.
0.260	0.270	1/4	2-11/64	Leigh® #50	45824
5/16	0.400	1/4	2-9/32	Leigh® #60	45825
3/8	0.532	1/4	2-3/8	Leigh® #70	45826
7/16	0.650	1/4	2-9/16	Leigh® #75	45827
1/2	0.825	1/4	2-3/4	Leigh® #80	45828
11/16	1.025	1/2	3	Leigh® #90	45829
0.80	1.275	1/2	3.222	Leigh® #100	45830



Carbide Tipped • 9° Angle

The 9° dovetail bit is used for certain operations with the Incra® dovetail system.

ØD	В	Ød	L	Tool No.
5/16	3/8	1/4	2-1/2	45822 *
3/8	3/8	1/4	2	45800
3/8	3/8	1/2	2	45802

^{*} Solid carbide.

Carbide Tipped • 10° Angle

The 10° dovetail bit is used with the Incra® and Leigh® dovetail system.

ØD	В	Ød	L	Application	Tool No.
15/32	1/2	1/2	2-9/32	Incra®	45821
1/2	5/8	1/2	2-5/8	Incra®	45805
3/4	13/16	1/2	2-1/4	-	45819





6-PC. INCRA® DOVETAIL New

1/2" Shank • Carbide Tipped Router Bit Set

Includes a variety of Straight and Dovetail router bits for cutting wood.



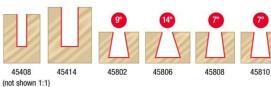








6-Pc 1/2" Shank Set for Incra® dovetail system



DOVETAIL New

Carbide Tipped • 14° Angle



ØD	ØD1	В	B1	Ød	L	Tool No.
1/2	9/16	1/2	3/64	1/4	1-15/16	45815

DOVETAIL

Carbide Tipped • 14° Angle

The 14° dovetail bit is used with common half-blind dovetail jigs, as well as with Omnijig, Incra and Leigh jigs.



ØD	В	Ød L		Application	Tool No.	
1/2	1/2	1/4	1-3/4	_	45804	
1/2	1/2	1/4	2	Incra®/0mnijig® 43705	45832	
1/2	1/2	1/4	2-3/8	Leigh® #120	45833	
1/2	.532	1/2	2-1/2	Incra®/Omnijig® 43750	45806	
3/4	3/4	1/2	3	Omnijig® 43774	45816	
7/8	7/8	1/2	2-5/8	_	45818	
1	1	1/2	2-3/4	(i)	45814	





The 18° dovetail bit is used with the Leigh® jig.

ØD	В	Ød	L	Application	Tool No.
1/2	.415	1/4	2-1/4	Leigh® #128	45835

14° BUTTERFLY SPLINE

Carbide Tipped • 2 Flute

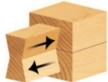
Cut butterfly keys, splines and inlays with this bit, which complements the Amana Tool® 14° dovetail bits.



ØD	В	Ød	L	Tool No.
1-1/8	1-3/4	1/2	3-1/4	45860

Use with Amana Tool® 14° dovetail bits #'s 45804, 45806, 45814, 45816 or 45818.

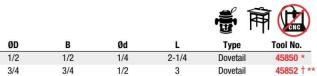




14° DOVETAIL

Carbide Tipped • 2 Flute with Upper Ball Bearings

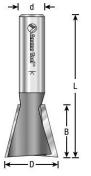
This dovetail bit has a shank-mounted ball bearing guide for routing dovetail slots following a template and pattern routing. The template must be mounted between the work-piece and the router. With a handheld router, the template must be on top of the work-piece. With a table-mounted router, the template must be underneath the workpiece.

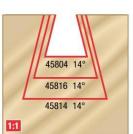


- † For pattern cutting or jigs.
- * Repl. Bearing #47701; Collar #47724.
- ** Repl. Bearing #47721; Collar #47739.

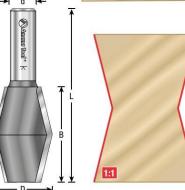




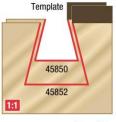








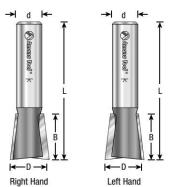


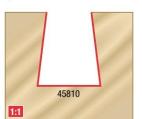




INDUSTRIAL JOINTING ROUTER BITS

→ D





7° STAIRTREAD

Carbide Tipped • 2 Flute

Cut stair stringers for the treads using this bit. Available in right hand and left hand rotation versions.

ØD	Rotation	В	Ød	L	Tool No.
3/4	Right Hand	7/8	1/2	2-5/8	45810
7/8	Right Hand	7/8	1/2	2-1/2	45812
7/8	Left Hand	7/8	1/2	2-1/2	45812-LH
1	Right Hand	7/8	1/2	2-1/2	45813
1	Left Hand	7/8	1/2	2-1/2	45813-LH







DOVETAIL FOR BROOKMAN MACHINES

Carbide Tipped • 2 Flute

The following bit is specifically designed for use in Brookman machines:

ØD	a°	В	Ød	L	Tool No.
9/16	10°	1/2	3/8 BSF*	1-1/2	45839

^{*} BSF = British Standard Fine







LEIGH® JIG STRAIGHT BITS

Carbide Tipped • 2 Flute

Leigh® dovetail jigs use 8° dovetail bits for through dovetail tails. These are three straight bits used in the jig to cut depths relative to the pin board or draw front for that look of a hand-cut sophistication.









KELLER™ DOVETAIL SYSTEM

Carbide Tipped • 2 Flute

The popular Keller" Templates require the use of straight and dovetail bits with shank-mounted pilot bearings.

The following bits are specifically designed for use in the Keller™ system:

Straight Cutter with Upper Ball Bearing



ØD	В	Ød	L	Keller™ No.	Tool No.
.615	1/2	1/4	2-1/4	1641	45469 A 18
.615	3/4	1/4	2-5/8	1643/2443	45470 16
.615	1/2	1/4	2-1/4	1641	45476
.615	3/4	1/4	2-1/2	1643/2443	45478
9/16	3/4	1/4	2-1/4	3032	45479

7° Dovetail Bit System with Upper Ball Bearing

ØD	В	Ød	L	Keller™ No.	Tool No.
11/32	3/8	1/4	2-1/4	1631/1531	45880
7/16	3/4	1/4	2-5/8	1633/1533	45882
5/8	1	3/8	2-5/8	2435	45884

7° Keller™ Set 1601 Pro Series & 1500 Journeyman Standard Bit Set with Upper Ball Bearing

ØD	В	Ød	L	Bearing	Type	Keller™ No.	Tool No.	
7/16	3/4	1/4	2-5/8	47712	Dovetail	1633	45882	
5/8	3/4	1/4	2-5/8	47712	Straight	1643/1543	45470	16

7° Dovetail - Small Bit Set with Upper Ball Bearing

ØD	В	Ød	L	Bearing	Type	Keller™ No.	Tool No.
11/32	3/8	1/4	2-1/4	47712	Dovetail	1631	45880
.615	1/2	1/4	2-1/4	47712	Straight	1641/1541	45469

7° Dovetail – Model 2401 Pro Series & 2200 Journeyman with Upper Ball Bearing

55	ØD	В	Ød	L	Bearing	Type	Keller™ No.	Tool No.	-
8	5/8	1	3/8	2-5/8	47741	Dovetail	2435	45884	

14° Dovetail – Model 3600 – Standard Bit Set with Upper Ball Bearing

ØD	В	Ød	L	Bearing	Type	Keller™ No.	Tool No.
1	1	1/2	2-3/4	47738	Dovetail	3637	45890
5/8	3/4	1/4	2-5/8	47712	Straight	1643/2443/3643	45470

Replacement bearing for #'s 45469, 45470, 45474, 45880 and 45882 is #47712. Replacement bearing for #45884 is #47741.

▲ Warning: Maximum RPM ▲16 = 16,000; ▲18 = 18,000







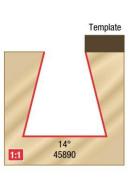












INDUSTRIAL JOINTING ROUTER BITS



RABBET

Carbide Tipped • 2 Flute with Ball Bearing Guide

This is the basic rabbeting bit. It cuts 3/8" wide and up to 1/2" deep. Switch to one of four optional ball-bearing guides to alter the width of cut. Use in a handheld or table-mounted router.







ØD	C	В	Ød	L	Flutes	Tool No.
5/16	1/16	1/2	1/4	2	2	MR0101 *
7/16	1/8	1/2	1/4	1-7/8	2	MR0100 *
7/8	1/4	1/2	1/4	2	2	49305 New
7/8	1/4	5/8	1/2	2-1/2	2	49307 New
1-1/8	3/8	1/2	1/4	1-7/8	2	RC-49300
1-1/4	3/8	1/2	1/4	2	2	49300
1-1/4	3/8	1/2	1/2	2-3/8	2	49302
1-3/8	1/2	1/2	1/4	2	2	49306 New
1-3/8	1/2	1/2	1/2	2-3/8	2	49309 New
1-7/8	3/4	1	1/2	2-7/8	3	49314 New

Replacement knife #RCK-264 (2).

OR

Replacement bearing for #RC-49300 use #47702.

* Miniature with 3/16" ball bearing guide #47775.

(3	Replacement Bearings:
Standard	3/8	Rabbet — 47706
OR	7/16	Rabbet — 47702
OR	5/16	Rabbet — 47718
OR	1/4	Rabbet — 47720



C for 40	206 8 40200	Replacement Bearings
OR	7/16	Rabbet — 47706
Standard	1/2	Rahhet — 47702

Rabbet - 47718

Rabbet - 47720

3/8

5/16







CNC STRAIGHT RABBETING

Insert Carbide with Scorer 2+2 Design

Insert rabbeting router bit complete with two cutting flutes and scorer. Suitable for trimming and rabbeting in softwood, hardwood and man-made boards. Scorer will give an improved finish at the bottom of the cut. For use on routers and machining centers with CNC control.





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В

49310

SPECIAL RABBET

Carbide Tipped • 2 Flute with Ball Bearing Guide

Designed for the "smart clip" backsplash system.

Depth of rabbet 9/32"

				_	
ØD	C	В	Ød	L	Tool No.
1-1/16	9/32	7/8	1/2	2-5/8	49310

Replacement bearing #47706.



MULTI-RABBET SET

Carbide Tipped • 2 Flute with Ball Bearing Guide

The Multi-Rabbet bit steps in 1/16" increments from a 1/8" cut width to 1/2", simply by switching ball-bearing guides. Five different bearings are provided. Depth of cut capacity of 1/2". Use in a handheld or table-mounted router.



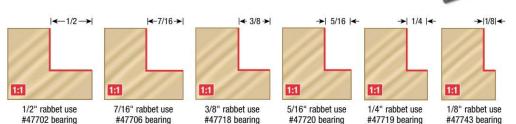
ØD	C	В	Ød	L	Tool No.
1-3/8	1/8, 1/4, 5/16, 3/8, 7/16, 1/2	1/2	1/4	2	49340
1-3/8	1/8 1/4 5/16 3/8 7/16 1/2	1/2	1/2	2-3/8	49350

ØD	Replacement Bearings:		
3/8	47702		
1/2	47706		
5/8	47718		
3/4	47720		
7/8	47719		
1-1/8	47743		



Set #6000

Set #6000: Complete replacement kit includes 6 bearings, hex key, washer & screw. Screw #67094. Washer #67202.



SUPERABBET™

Carbide Tipped • 2 Flute with Ball Bearing Guide

This ingenious tool features both interchangeable cutting edges and an interchangeable guide collar, enabling you to cut a wide range of rabbets. Changing the collars on the twin ball-bearing guide steps the cut width in 1/16" increments from flush through 3/4" with five extra "plywood" sizes.

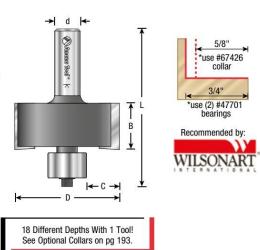
Between the standard and optional collars, there are 18 different rabbet sizes available. The deep guide collar design adds stability to the tool for hand-held router operations. The basic 2"-diameter bit includes a hex key, instructions, and all necessary parts for 5/8" and 3/4" deep rabbets.

	ØD	C	В	Ød	L	Tool No.
ĺ	2	5/8 & 3/4	7/8	1/2	3	49360 ♦

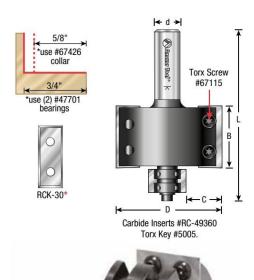
▲ Warning: Maximum RPM=22,000

Replacement screw for bearing #67094. Replacement washer for bearing #67202. Replacement spacer bearing #67206.

Use in a table-mounted router. Not for use in a handheld router!



INDUSTRIAL RABBET ROUTER BITS

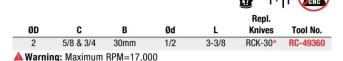


INSERT SUPERABBET™

Insert Carbide • 2 Flute with Ball Bearing Guide

This ingenious tool features both interchangeable cutting edges and an interchangeable guide collar, enabling you to cut a wide range of rabbets. Changing the collars on the twin ball-bearing guide steps the cut width in 1/16" increments from flush through 3/4" with five extra "plywood" sizes.

Between the standard and optional collars, there are 18 different rabbet sizes available. The deep guide collar design adds stability to the tool for hand-held router operations. The basic 2"-diameter bit includes a hex key, instructions, and all necessary parts for 5/8" and 3/4" deep rabbets. Featuring double-edged solid carbide insert knives which enables the bit to cut 30mm high. Inserts can be rotated or replaced without removing the bit from the router.



* Standard general purpose replacement knives = #RCK-30; Knives also available for MDF and solid surface materials - see replacement carbide section on pages 268-273.

#6002: Complete replacement kit for #49360 and #RC-49360. Includes the following: hex key, spacers, screw, washer, #67426 (5/8" rabbet) collar and 2 ball bearings.

Recommended by:



18 Different Depths With 1 Tool! See Optional Collars on Next Page.



INSERT SUPERABBET, JR™

Insert Carbide • 2 Flute with Ball Bearing Guide

A scaled-down version of the Superabbet,™ this tool features four-sided replaceable carbide knives and a reduced cut depth capacity. It uses the same twin ball-bearing guide collar assortment to produce the same extensive range of precise rabbet widths. The standard tool is supplied with a collar for 1/2" rabbet width. Optional collars are available individually and in five-piece and 17-piece kits.







ØD	C	В	Ød	L	Tool No.
1-1/2	Flush to 1/2"	12mm(.472)	1/2	2-19/32	RC-49355

▲ Warning: Maximum RPM=22,000

† Using optional collars on next page. Standard depth=1/2"

Torx® key #5005. Torx® screw #67115.

* Standard general purpose replacement knives = #AMA-12; Knives also available for MDF & solid surface materials - see replacement carbide section on pages 268-273.



Amana Tool®

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13 Different Depths With 1 Tool! See Optional Collars on Next Page.

ACCESSORIES FOR INSERT SUPERABBET™ & INSERT SUPERABBET, JR™

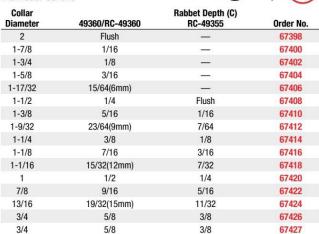
11/16

23/32(18mm)

Individual Collars

5/8

9/16





67428

67430









1:1 1/8" rabbet







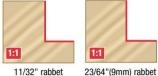






7/16

15/32













COLLAR KITS

Insert Superabbet"

#67500: 6-piece collar kit includes: #67398, #67400, #67402, #67408, #67414, #67420.

#67600: 5-piece collar kit includes: #67404, #67410, #67416, #67422, #67428.

#67800: 21-piece collar kit includes: two #47701 bearings, #67206 spacer, #5000 allen key, #67094 allen screw and 16 individual collars: #67398, #67400, #67402, #67404, #67406, #67408, #67410, #67412, #67414, #67416, #67418, #67420, #67422, #67424, #67428, #67430,

NOTE: 5/8" and 3/4" depth is standard with #49360 & #RC-49360.

Insert Superabbet, Jr™

#67350: 5-piece collar kit includes: #67408, #67410, #67414, #67420, #67426.

#67355: 17-piece collar kit includes: two #47701 bearings, #67206 spacer, #5000 allen key, #67094 allen screw and 12 individual collars: #67408, #67410, #67412. #67414. #67416, #67418, #67420, #67422, #67424, #67426, #67428, #67430.











11/16" rabbet

23/32"(18mm) rabbet

INDUSTRIAL RABBET ROUTER BITS



MULTI-RABBET SET New

Carbide Tipped • Up-Shear • 4 Flute with Ball Bearing Guide

The Multi-Rabbet bit steps in 1/16" increments from a 1/4" cut width to 1/2", simply by switching ball-bearing guides. Five different bearings are provided. Depth of cut capacity of 1/2". Use in a handheld or table-mounted router.



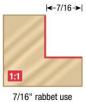




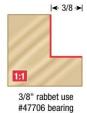
Four Different Rabbet Depths!

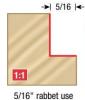
ØD	C	В	Ød	L	Tool No.
1-1/4	1/4, 5/16, 3/8, 7/16	1/2	1/2	2-9/32	49303

ØD	Replacement Bearings:
3/8	47702
1/2	47706
5/8	47718
3/4	47720



#47702 bearing







5/16" rabbet use #47718 bearing

1/4" rabbet use #47720 bearing





MULTI-RABBET SET New

Carbide Tipped • Up-Shear • 4 Flute with Ball Bearing Guide

The Multi-Rabbet bit steps in 1/16" increments from a 1/4" cut width to 1/2", simply by switching ball-bearing guides. Five different bearings are provided. Depth of cut capacity of 1/2". Use in a handheld or table-mounted router.







Five Different Rabbet Depths!

ØD	C	В	Ød	L	Tool No.
1-3/8	1/4, 5/16, 3/8, 7/16, 1/2	1	1/2	2-15/16	49352

ØD	Replacement Bearings:
3/8	47751
1/2	47701
5/8	47712
3/4	47714
7/8	47708







#47701 bearing







#47714 bearing

1/4" rabbet use #47708 bearing





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MULTI-RABBET SET New

of 1/4". Use in a handheld or table-mounted router.

Carbide Tipped • 3 Flute with Ball Bearing Guide

The Multi-Rabbet bit steps in 1/16" increments from a 1/4", simply by switching ball-bearing guides.
Four different bearings are provided. Depth of cut capacity





Four Different Rabbet Depths!

ØD	C	В	Ød	L	Tool No.
7/8	1/16, 1/8, 3/16, 1/4	1/2	1/4	1-29/32	49347

ØD	Replacement E	Bearings:	
3/8	47702		
1/2	47706		
5/8	47718		
3/4	47720		
1/4 →	3/16 ★ -	1/8 → -	1/16 ← → ←
1/1			
1:1	1:1	1:1	1:1
1/4" rabbet use #47702 bearing	3/16" rabbet use #47706 bearing	1/8" rabbet use #47718 bearing	1/16" rabbet use #47720 bearing



BINDING/RABBETING SET New

Carbide Tipped • Down-Shear • 3 Flute with Ball Bearing Guide

Special sets designed for Luthier. Each set includes five different ball bearings that will give five rabbet sizes (Ledge cut).

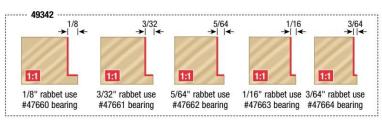
Five Different Rabbet Depths!

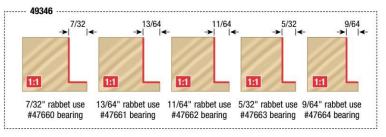


15mm (19/32) 3/64, 1/16, 5/64, 3/32, 1/8 11.5mm (7/16) 1/4 2-1/8 49342 20mm (51/64) 9/64, 5/32, 11/64, 13/64, 7/32 13.5mm (17/32) 1/4 2-1/8 49346

ØD	Replacement Bearings:	
9mm	47660	
10mm	47661	
11mm	47662	
12mm	47663	
13mm	47664	







INDUSTRIAL RABBET ROUTER BITS

















E-Z DIAL™ SLOT CUTTERS

Carbide Tipped

Finally, a slot cutter without shims, spacers and the need to disassemble the bit. Just turn the dial and lock the setting, it's that easy. The E-Z Dial™ adjusts in just seconds and is accurate to .004". Cutting precise grooves has never been easier.

- Quick & Easy Setup Nothing to take apart, just dial it, lock it, cut it.
- Simply adjust the dial in 0.004" increments.
- Easily makes perfect grooves for today's undersized plywood.
- Perfect for edge ("T") molding installation.

Available in two sizes:

- #55500 for 1/8" to 1/4" wide slots, 1/2" deep
- #55510 for 1/4" to 1/2" wide slots, 1/2" deep

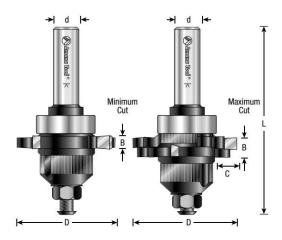


ØD	В	C	Ød	L	Tool No.
2-1/8	1/8 to 1/4	1/2	1/2	3-3/4	55500
2-1/8	1/4 to 1/2	1/2	1/2	3-3/4	55510

Replacement parts: Bearing #47738; Screw #67110.

Each E-Z Dial™ Slot Cutter includes Full Color Instruction Manual







SLOTTING CUTTER ASSEMBLIES

Carbide Tipped

Groove edges for T-moldings, splines or biscuits, and other purposes. Rout tongue-andgroove joinery. Slotting cutters are available with either 2-wing or 3-wing cutters. Each assembly includes a cutter, bearing for a 1/2" deep cut, and either a 1/4"-, 3/8"-, or 1/2"-shank arbor. Use in a handheld or table-mounted router.

General S	pecs:			
ØD	В	C	Ød	L
1-7/8	Kerf (from 1/6 to 1/4)	**1/2	1/4 or 1/2	2-3/8
В	1/4" Shank 2-Wing Tool No.	1/4" Shank 3-Wing Tool No.	1/2" Shank 2-Wing Tool No.	1/2" Shank 3-Wing Tool No.
1/16	53300	53400	_	53400-1
5/64	_	53402	_	53402-1
3/32	_	53404	_	53404-1
1/8	53306	53406	53306-1	53406-1
5/32*	_	53407	53307-1	53407-1
3/16	_	53408	53308-1	53408-1
7/32	53309	53409	53309-1	53409-1
1/4	53310	53410	53310-1	53410-1



Also available with 3/8" shank by adding '-2' to part #. (example: #53400-2).

^{**} See page 192 for 'Vari-Depth'™ bearings (1/4" and 3/8" depth).

Replacement Arbor	Tool No.
1/4" Shank	47600
3/8" Shank	47602
1/2" Shank	47604

Replacement Arbor with Ball Bearing	Tool No.
1/4" Shank	47601 New
1/2" Shank	47605 New

Repl. Arbor with Hex Nuts and Washer	Tool No.
6mm Shank x 5/16-24 NF Dia	47600M New





2 & 3 WING SLOTTING CUTTERS

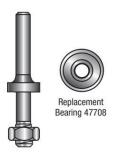
Carbide Tipped

Two- and three-wing slotting cutters are available individually. Use a two-wing cutter for faster feed rates, three-wing cutters for better cut finish.

	В	Ød1	2 Wing	3 Wing	
ØD	Kerf	Bore	Tool No.	Tool No.	
1-7/8	1/16	5/16	53100	53200	
1-7/8	5/64	5/16	53102	53202	
1-7/8	3/32	5/16		53204	
1-7/8	1/8	5/16	53106	53206	
1-7/8	5/32	5/16	53107	53207 *	
1-7/8	3/16	5/16	53108	53208	
1-7/8	1/4	5/16	53110	53210	

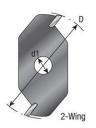
^{* 5/32&}quot; size also used for 'biscuit-joint' cutting. See above for complete assemblies including arbor and ball bearing guide. Arbor sold separately.

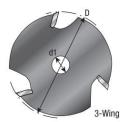










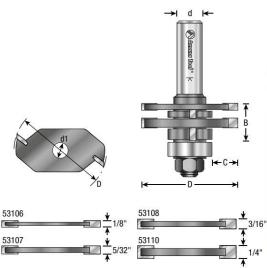


INDUSTRIAL JOINTING ROUTER BITS

^{* 5/32&}quot; size also used for 'biscuit-joint' cutting.

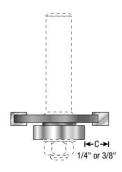








Create grooves 1/8" to 23/32" by using up to four cutters (included).





QUADRASET™ ADJUSTABLE SLOTTING ASSEMBLY

Carbide Tipped • 2-Wing with Ball Bearing Guide

The Quadraset™ is an adjustable slotting assembly that includes 1/8", 5/32", 3/16", and 1/4" two-wing cutters, a 1/2" shank arbor with a pilot bearing, and a handful of spacers, washers and shims.

Conceptually it is like a table-saw dado stack set. You can use the cutters individually on the arbor, or you can combine two, three or all of the cutters on the arbor. Thus you can cut slots that range in widths from 1/8" up to 23/32" in 1/32" increments.

For different depth of cut, see the Vari-Depth™ bearings on bottom of this page.



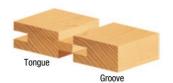


ØD	C	B-Kerf	Ød1	Ød	L	Tool No.
1-7/8	1/2	1/8 to 23/32*	5/16	1/2	3	53600 ♦
Extra 5/3	2 two-win	a cutter only				53107

Replacement parts: Bearing #47708; Arbor #47612.

- * A full 3/4" cut can be achieved using one additional #53107 cutter (available separately).
- Use in a table-mounted router. Not for use in a handheld router!







Combined Cutters 7/32" to 23/32" (Increments of 1/32")



Construct a Wainscot Door with Amana's Industrial Tooling

Wainscot doors can be a beautiful addition to an informal, country style kitchen; their beaded panels are reminiscent of times long past. Constructing wainscot doors is easy with Amana Tool® router bits. You'll need just two bits: the Quadraset™ #53600 and the corner bead bit #54163. For information on how to Construct a Wainscot door, please see page 204.

SLOT CUTTER 'VARI-DEPTH'™ BEARINGS

Carbide Tipped

All standard Amana Tool® slotting assemblies (including the Quadraset;™ Duo-Set;™ and box joint) make a 1/2" deep cut. Reduce the cut depth to either 1/4" or 3/8" with Vari-Depth™ precision ball bearings fitted with non-marring Delrin® sleeves.

'C' Depth of Cut	I.D.	0.D.	Tool No.
1/4	5/16	1-3/8	47727
3/8	5/16	1-1/8	47728
Two piece set (#47727 &	#47728)		47729

'BOX JOINT' SET

Carbide Tipped • 3-Wing with Ball Bearing Guide

Cut strong, attractive box joints for small boxes, shallow drawers and trays. By taking three passes, it can be used with stock up to 1/2" thick and 4" wide. The bit has five uniformly spaced 3-wing slotting cutters and a ball-bearing guide on a 1/2" shank arbor. Use in a table-mounted router for best results.



Replacement Parts:

Order #
53207
47620
47708
55369
55402
55404



Carbide Tipped • 2-Wing with Ball Bearing Guide

For joining wood end-to-end as well as edge-to-edge. Rout one work-piece face up, the other face down. When the bit height is correct, the two pieces should slide together with their faces perfectly flush. The assembly includes five 2-wing finger cutters, one 2-wing straight cutter, a ball bearing guide, a 1/2" shank arbor, shims, spacers, and washers. The number of finger cutters used varies with the stock thickness; it can handle stock between 7/16" and 1-3/8" thick. For best results run at full speed in a 1-1/2 horsepower table-mounted router.

Includes full-color instructions.



Replacement Parts:

Description	Order #		
Straight Cutter (1 required)	55396		
Ball Bearing (5/16" x 28mm)	47736		
1/2" Shank Arbor with Nut	47620		
3.4mm Spacer (7 required)	55367		
6.0mm Spacer (1 required)	55368		
0.1mm Shim (10 required)	55357		
0.5mm Shim (1 required)	55404		
1.0mm Washer (2 required)	55402		



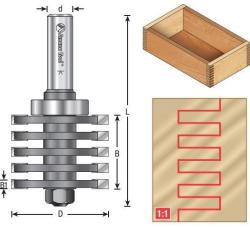
FINGER JOINT

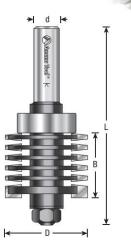
Carbide Tipped

Cut interlocking fingers for strong end-to-end or edge-to-edge glueups with this simple bit. Setup is fast. Center the cut profile on the stock, then cut, alternating the orientation of the show face — up when cutting one work-piece, down when cutting its mate. Use in all CNC and table-mounted routers.

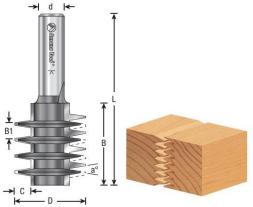
For best results use in a router table

						F	
ØD	В	B1	a°	C	Ød	L	Tool No.
1-3/8	1-9/16	21/64	14°	5/16	1/2	3	45796









INDUSTRIAL JOINTING ROUTER BITS



CNC ADJUSTABLE GROOVING

Insert Carbide

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing various thickness grooves and slots in softwood, hardwood and man-made boards (with or without coating). Cutting width can be adjusted in 0.1mm steps by using supplied spacer rings. Replaceable inserts ensure a constant cutting diameter and finish quality. For use on routers and machining centers with CNC control.

 ØD
 B
 C
 Ød
 L
 Tool No.

 4-3/4(120mm)
 5/32 - 5/8(4-15.5mm)
 1-5/16
 3/4
 5-1/2(139mm)
 RC-2340 ♠₁²

 ▲ Warning: Maximum RPM
 ♠₁² = 12,000









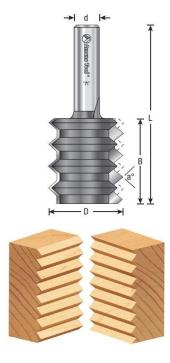
RAISED PANEL 'V' JOINT

Carbide Tipped

The principal benefit of this glue-joint bit is that the glue seam is far less evident on the bevels of raised panels. Equally important, setup is fast. Cut one half of each joint with the bit at any height. Simply raise or lower the bit 3/32" before cutting the mates. As with all glue-joint bits, the cutter profile expands the edge-to-edge glue surface, but more importantly, produces the precise surface alignment that's essential for fast glueups. For best results use in a router table.

ØD В Ød Tool No. 1-3/8 1-37/64 1/2





DRAWER LOCK

Carbide Tipped • 2 Flute

With this one bit, cut a lock joint that's ideal for quick construction of strong drawer boxes. Use in a table-mounted router only. The same bit setting is used for both halves of the joint; adjust the fence position slightly to switch between sides and fronts/backs. The drawer front (or back) is laid flat on the tabletop and fed across the cutter. The side is braced vertically against the fence and fed across the cutter. You can use stock of any thickness and any composition and produce flush or lipped drawers. For best results use in a table-mounted router.



1-7/8



5/32

1/2

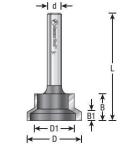


23/32

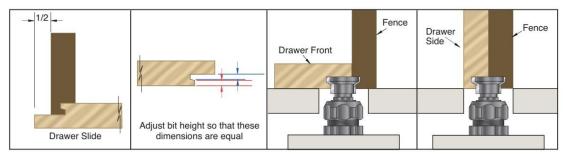
1/2



55387

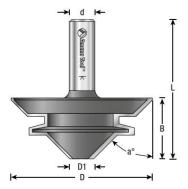






Bit height is identical for both cuts. Fence position must be adjusted.

INDUSTRIAL JOINTING ROUTER BITS



45° LOCK MITER

Carbide Tipped • 2 Flute

The lock miter is an interlocking edge-to-edge joint, typically used at the corners of casework. Used in a table-mounted router, run at reduced speed, this bit cuts both halves of the joint. The same setup of bit and fence cuts both parts. One part is laid flat on the tabletop and fed across the cutter. The second is braced vertically against the fence and fed across the cutter. For best results use in a table-mounted router.





ØD		В		Material				
	D1		a°	Ød	L	Size	Tool No.	
1-1/2	12.1mm	1/2	45°	1/4	1-5/8	5/16-7/16	55393	
1-5/8	13.2mm	5/8	45°	1/4	1-3/4	3/8-1/2	55391	
1-3/4	6.4mm	7/8	45°	1/2	2-1/8	3/8-3/4	55389	
2-11/16	9.2mm	1-3/16	45°	1/2	2-5/8	1/2-1	55390 1 8	



▲ Warning: Maximum RPM ▲18 = 18,000



Each 45° Lock Miter Cutter includes
Full Color Instruction Manual









2 PIECE EDGE BANDING SETS

Carbide Tipped • 2 Flute

This two-piece bit set provides an economical way to create your own edge banding from the wood of your choice. This is a great way to create a finished edge on plywood or MDF panels and shelves which blends perfectly with the rest of your project.

Using this bit set is simple. Just position each bit so that it is centered on the stock thickness and make the cut. For the best results we recommend that you cut the edge band stock slightly oversize and then flush trim it after assembly.

This unique set is available in two styles: 90° or 60°.

The 90° bits can also be used to create V-grooves or double-sided chamfers while the 60° set creates a larger surface area for glue.

Carbide tipped for long life. For stock 3/4" to 1" in thickness.

For use only in a table-mounted router.

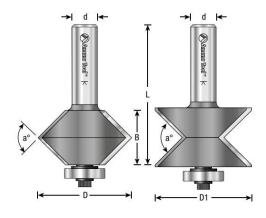


ØD	ØD1	В	B1	a°	a1°	Ød	L	Tool No.
1-25/32	1-13/16	1-1/32	-	90°	-	1/2	2-21/32	55466
1-19/32	1-45/64	1	5/32	30°	60°	1/2	2-5/8	55468

Replacement bearing for #55466 use (2) #47720.

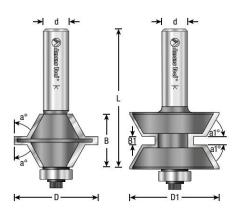
Replacement bearing for #55468 use (1) #47720 and (1) #47718.









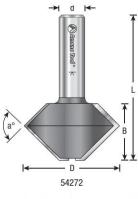




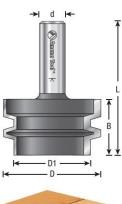


INDUSTRIAL JOINTING ROUTER BITS

d land declaration of the second declaration











MULTI-SIDED GLUE JOINT/BIRD'S-MOUTH

Carbide Tipped • 2 Flute

7/8

1-1/4

7/8

1-3/64

7/8

1-1/4

6 or 12

ØD

1-5/8

1-1/2

1 - 3/4

1-7/8

1-1/2

1-5/8

If you're looking for a better way to construct multi-sided boxes, planters, and columns, then look no further. With these bits, there's no need for complex miters and time-consuming set-ups. Instead, simply choose the bit based upon the number of sides on the box, rout the joint, and assemble. Unlike a miter joint, the joint created by these bits aligns itself. And the joint stays in alignment while gluing; no more slipping and sliding out of position.

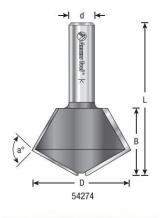
60°/30°

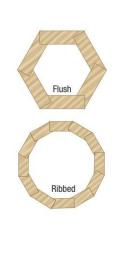


1/2

2-7/8

54274







GLUE JOINT

Carbide Tipped • 2 Flute

The glue joint cut by this bit is strong and self-aligning. One setup produces both halves of the joint. Adjust the bit so the center of its profile aligns with the stock center. Cut one part face down, the mate face up.

For stock between 5/8" and 1" in thickness. Must be used in a table-mounted router. Since there is no guide bearing, use the router-table fence to control the cut.







ØD	ØD1	В	Ød	L	Tool No.
1-7/8	1-7/16	1-3/32	1/2	2-5/8	55388



TONGUE & GROOVE ASSEMBLY

Carbide Tipped • 2-Wing with Ball Bearing Guide

Cut perfectly fitted tongue-and-groove joints on stock between 3/8" and 1-1/8" thick with a table-mounted router and this assembly. The tool consists of an arbor with an integral shank, two identical, removable slotting cutters, and a pair of bearings. To cut tongues, sandwich one bearing between the two cutters (as in assembly 'A').

To cut slots, mount one cutter between the two

bearings (as in assembly 'B').

1-Piece Assembly

В	B1	C	Ød	t	L	Tool No.
3/4	1/4	3/8	1/2	1/4	3	55400 +
1-1/8	3/8	3/8	1/2	3/8	3-3/8	55401 •
		3/4 1/4	3/4 1/4 3/8	3/4 1/4 3/8 1/2	3/4 1/4 3/8 1/2 1/4	3/4 1/4 3/8 1/2 1/4 3

- + Can be used on 1/2" through 3/4" thick material.
- Can be used on 3/4" through 1-1/8" thick material.

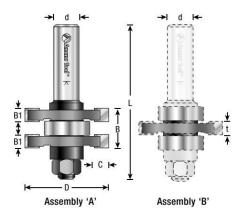












Tongue is cut as shown in assembly 'A'. For groove cut, reassemble the tool as shown in assembly 'B'.

TONGUE & GROOVE 2-PC. SET

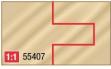
Carbide Tipped . 2-Wing with Ball Bearing Guide

Each set contains two complete tongue & groove assemblies, one to cut tongues, one to cut slots.

ØD	В	B1	C	Ød	t	L	Tool No.
1-5/8	17/32	13/64	3/8	1/2	1/8	3	55408 *
1-7/8	3/4	1/4	1/2	1/2	1/4	3	55407 +
1-5/8	1-1/8	7/16	3/8	1/2	1/4	3-5/16	55416 †

- * Can be used on 3/8" through 1/2" thick material.
- + Can be used on 1/2" through 3/4" thick material.
- † Can be used on 1/2" through 1-1/8" thick material.





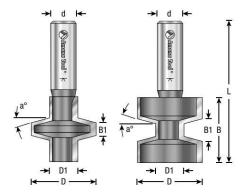
Replacement Parts for Tongue & Groove:

Description	Order #
1/4" Kerf Cutters (2 required) for Tool #55400	55354
3/8" Kerf Cutters (2 required) for Tool #55401	55353
1/2" Shank Arbor With Nut For Tool #55400	47612
1/2" Shank Arbor With Nut For Tool #55401	47613
Ball Bearing Guide (2 required)	47708
.05mm Shims (3 required)	55356
.10mm Shims (3 required)	55357
1mm Black Washer	55402
6mm Steel Spacer	55368





INDUSTRIAL JOINTING ROUTER BITS

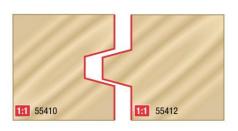




Carbide Tipped • 2 Flute

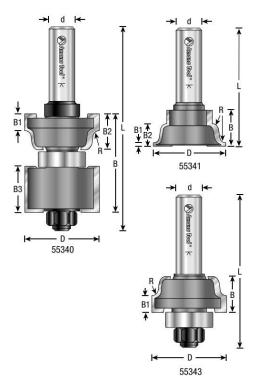
The tongue-and-groove joint cut by this two-bit set can be used for applications as diverse as assembling broad tabletops and other panels and making strip flooring.
Use it on stock from 5/8" through 1-1/4" thick. The bits are available individually or as a two-piece set. Use in a table-mounted router.

ØD	ØD1	a°	В	B1	Ød	L	Description	Tool No.	
1-1/4	9/16	15°	1-1/4	1/4	1/2	2-3/4	Wedge Groove	55410	
1-1/4	9/16	15°	1-1/4	7/16	1/2	2-3/4	Wedge Tongue	55412	
Com	nlota Wa	dae Ton	nue & Gro	ove 2 Pier	co Sot (ncludes F	55/10 8, 55/12)	55/1/	









OGEE WINDOW SASH & RAIL

Carbide Tipped • 2 Flute with Ball Bearing Guide

This reversible assembly is designed to cut window sash and glass door parts, including rails, stiles, mullions, and muntins, on stock between 1-1/8" and 1-3/4" thick. Assembly includes an ogee profile cutter, a rabbet cutter, one bearing, a 1/2" shank arbor, spacers, shims, and washers. Configure as shown in the drawing to cut profile and rabbet on all parts. Switch bearing and profile cutter and replace rabbet cutter with spacers to rout the copes. Use in a table-mounted router.







ØD	R	'A' Reveal	В	B1	B2	B3	Ød	L	Tool No
1-3/8	1/8	1/4	1-55/64	5/16	43/64	7/8	1/2	3-3/4	55340
1-3/8	1/8	22 <u>—</u> 2	21/32	1/16	27/64	-	1/2	2-1/8	55341
1-9/64	1/8	_	43/64	5/16		-	1/2	2-1/8	55343



Each Ogee Window Sash & Rail Cutter includes **Full Color Instruction Manual**







'V' PANELING ASSEMBLY

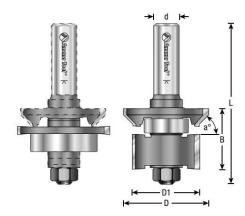
Carbide Tipped • 2-Wing with Ball Bearing Guide

This assembly is designed to cut tongue & groove joinery for solid wood paneling. A 45° 'V' (#55320), is available individually or as a set. The assembly comprises of a profile cutter, a rabbet cutter and a groove cutter, two different-size bearings, a 1/2" shank arbor, and a selection of washers, shims and spacers. Assemble the profile cutter, small bearing, and rabbet cutter as shown in the solid drawing to cut the tongue. To rout the groove, mount the groover and large bearing with the profiler, as shown in the ghosted drawing. The tool will work with stock from 1/2" through 1" thick.





ØD	ØD1	a°	В	Ød	L	Tool No.
1-13/16	1-5/16	45°	1/2 to 1-3/16	1/2	3-1/8	55320







ADJUSTABLE 'V' PANEL SET

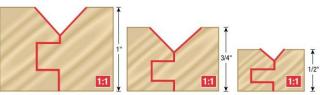
Carbide Tipped • 2-Wing

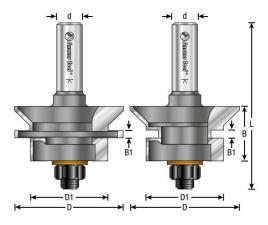
This assembly is designed to create attractive V-groove paneling. Included in this set are spacers to produce 'V' paneling from 1/2", 3/4" or 1" thick stock.





ØD	ØD1	В	B1	Ød	L	Tool No.
2-11/64	1-37/64	1-1/8	5/32 to 5/16	1/2	3-3/8	55346
2-11/64	1-37/64	1-1/8	5/32 to 5/16	1/2	3-3/8	5534







INDUSTRIAL JOINTING ROUTER BITS



TONGUE & GROOVE FLOORING SETS

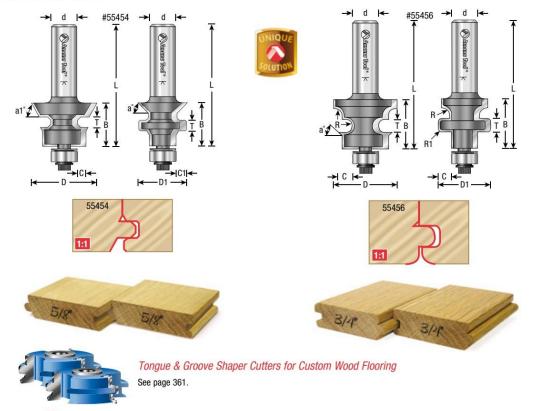
Carbide Tipped • 2 Flute with Nail Slot

Build your own wood floor with the **wood of your choice!** Amana Tool® now has the solution for this task. Set #55456 was designed for 5/8" to 3/4" stock thickness, while set #55454 is for 1/2" to 5/8" stock thickness.



Material Size	ØD	ØD1	a°	a1°	R	R1	T	C	C1	В	d	L	Tool No.
1/2 to 5/8	1-1/4	15/16	45°	60°	_	_	13/64	.163	.197	3/4	1/2	2-3/4	55454
5/8 to 3/4	1-13/64	1	45°	_	1/8	1/16	1/4	1/4	_	15/16	1/2	2-7/8	55456

Replacement bearing #47706.



Amana Tool®



FLOORING - STRAIGHT & ROUNDED CUTTERS

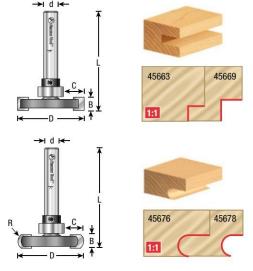
Carbide Tipped • 2 Flute • For "Undercutting"

Dedicated cutters with changeable bearings. These bits are designed for slotting wood flooring, inlays and medallions.

			闸	CNC
	Replace	ement		
L	Bearing	Collar	Type	Tool No
0 1/4	47701	47704	Charlet	AFCCO

						nepiac	CHICHL		
ØD	R	C	В	Ød	L	Bearing	Collar	Type	Tool No.
0.894	-	5mm	4.5mm	1/4	2-1/4	47701	47724	Straight	45663
1-1/8	-	1/4	1/8	1/4	1-7/8	47712	47724	Straight	45672
1-1/4	_	3/8	1/4	1/4	1-7/8	47701	47724	Straight	45668
1-1/4	1/8	3/8	1/4	1/4	1-7/8	47701	47724	Rounded	45676
1-1/4	_	3/16	5/32	1/4	1-7/8	47708	47724	Straight	45674
1-1/4	-	1/4	1/4	1/4	1-7/8	47714	47724	Straight	45669
1-1/4	1/8	5/16	1/4	1/4	1-7/8	47712	47724	Rounded	45678
1-39/64	_	9/64	7/64	1/4	1-41/64	47778	47724	Straight	45680

Note: See pages 122-124 for upper bearing bits used in flooring industry. For medallion inserts (#45481, #45460-S, #45462-S, #45464-S).



FLUSH TRIM PLUNGE TEMPLATE

Carbide Tipped • 2 Flute with Upper Ball Bearing

1/4

1/8

1/4

1/4

1/8

1/4

1/4

1/4

1/4

1/4

1/4

1/4

1-3/4

2

2

1-15/16

2-1/2

2-7/16

2-1/4

1-5/8

1-15/16

2

2-1/4

A versatile bit, useful for template/pattern routing of parts, joints, and internal cuts. It can be used in handheld and table-mounted routers.

1/4

1/2

1/2

1/8

1/4

1/4

3/4

3/8

1/4

1/2

1/2

3/4

ØD

3/16

3/16

3/16

1/4

1/4

1/4

1/4

1/2

1/2

1/2

1/2

1/2



Collar

47724

47724

47724

47724

Bearing

47775

47775

47775

47723 (2)

47723

47723

47723

47701

47701

47706

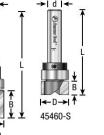
47701

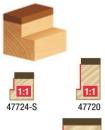
47701



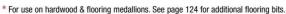












† Replaces Ocemco TA-170. See page 134 for more info.

Undercut Floor King™ Saw Blades For Crain® & Roberts® Saws

visit www.timberline-amana.com







INDUSTRIAL FLOORING ROUTER BITS

with 3/16" Ball Bearing Guide

- · Bearing stays cool unlike brass pilots
- Rout intricate contours for delicate projects
- · Perfect for crafters & hobbyists
- Lettering/signmaking
- · Fine musical instruments









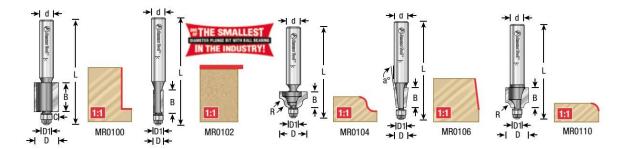




We've created the smallest bearing guides in the industry! If you've often wanted to trim and shape small details in tight corners, but were disappointed by the scoring and burning left behind by solid pilot bits, we've got what you've been looking for: the most commonly used profiles in miniature sizes - complete with tiny miniature ball bearing guides. These bits are perfect for small fine work such as signs, lettering, small boxes, guitarmaking/luthier and toymaking!

ØD	ØD1	R	R1	a°	В	B1	Α	Ød	L	Description	Tool No.
5/16	3/16	-	_	_	1/2	_	1/16	1/4	2	Rabbet	MR0101
7/16	3/16	-		-	1/2	_	1/8	1/4	1-7/8	Rabbet	MR0100
3/16	3/16	_	_	_	7/16	_	_	1/8	1-23/32	Flush Trim	MR0105
3/16	3/16	-	7. 1	5 	7/16		_	1/4	2	Flush Trim	MR0102
3/16	3/16	-	_	_	3/4	_	_	1/4	2-7/16	Flush Trim	MR0103
9/16	3/16	3/32	_		5/16	-	<u>00</u>	1/4	1-7/8	Roman Ogee	MR0104
1/4	3/16	-	_	7°	3/8	_	_	1/4	1-7/8	Bevel Trim	MR0106
1/2	3/16	100 mm	-	22.5°	1/2	(-	1/4	1-7/8	Bevel Trim	MR0107
9/16	3/16	_	_	45°	1/4		_	1/4	1-7/8	Bevel Trim	MR0108
5/16	3/16	1/16	-		5/16	: 	_	1/4	1-13/16	Corner Rounding	MRR108
3/8	3/16	3/32	_	_	3/8		_	1/4	1-13/16	Corner Rounding	MR0110
7/16	3/16	1/8	_	_	3/8	-	_	1/4	1-13/16	Corner Rounding	MR0112
1/2	3/16	5/32	_		3/8	_	_	1/4	1-13/16	Corner Rounding	MR0114
9/16	3/16	3/16	_	-	3/8	-	<u> </u>	1/4	1-13/16	Corner Rounding	MRR110
11/16	3/16	1/4	_	: :	13/32	-	-	1/4	1-7/8	Corner Rounding	MRR112

Replacement bearing #47775; Hex nut #67135; Lock washer #67129.



Router Bit Pack





3-PC. MINIATURE PACK 1/4" Shank . Carbide Tipped

MR0108, MR0110 & MR0102









Set No. AMS-MRSET

A Recommendation: The miniature router bits with 3/16" and 1/4" diameter ball bearing guides were designed for use in intricate and delicate projects with or without tight spaces. Do not cut material more than half the diameter of the bearing and slow down feed to reduce load. Not guaranteed due to their extremely small size.

FLUSH TRIM PLUNGE TEMPLATE

Carbide Tipped with Mini Upper Ball Bearing Guide

Each Amana Tool® exclusive miniature bit features either a 3/16" or 1/4" diameter ball bearing guide that is much smaller than other ball bearing router bits on the market, making the bits ideal for delicate projects such as signmaking, building musical instruments, routing letter edges, flush trimming and plunging tight corners and confined areas and high production.

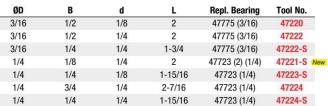
The cutting edge of each router bit is engineered from our exclusive carbide grade designed to deliver the highest quality of cut, maximum cutting efficiency prolonged tool life. The bits can fit into tight spaces and sharp corners where a larger diameter bearing cannot, making it easier for users to work on finely detailed work pieces that have intricate contours, tight confines and narrow openings.

The series' innovative design also delivers a consistent edge that eliminates hand sanding or filing, thus saving users time and labor. Can be used on wood and plastics.









Attention: Due to extremely small diameter (D), reduce RPM and Feed Rates (IPM) by 30-50% to prevent tool breakage. Bits are not guaranteed due to extremely small diameter.

▲ Warning: Maximum RPM=35,000

MINI COMPRESSION SPIRAL & ADAPTER

Solid Carbide

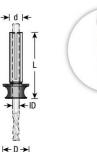
Unique extra small diameter solid carbide compression spiral bit for intricate work, signmaking, cutting out lettering and shapes. Features special adapter to fit handheld trim routers, routers and CNC machines.





Description	ØD	ID	В	B1	Ød	L	Tool No.
Set Includes Two #4	6180 Bi	its and 0	ne #47632	Router I	Adapter	_	46184
S.C. Compression Bit	1/8	9 	13/16	7/32	1/8	2-1/2	46180
Router Adapter	1/2	1/8	_		1/4	1-1/4	47632





OF THE SMALLEST DIAMETER PLUNGE BITS WITH BALL BEAR IN THE INDUSTRY!





INDUSTRIAL ROUTER BITS











CUT PRECISE GROOVES TO PROVIDE UNDERSIZEDPLYWOOD VENEERED PANELS WITH A SNUG, RATTLE-FREE FIT.

- Adjust the panel groove width (3/16" to 9/32" for 1/4" plywood), (7/16" to 17/32" for 1/2" plywood).
- Cuts frame stock from 5/8" through 1-1/4" thickness.
- Designed to cut precise grooves to provide undersized plywood veneered panels with a snug rattle-free fit.
- Each set includes 2 pcs. (1 for stile cuts and 1 for rail cuts and shims).

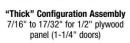














"Thin" Configuration Assembly 3/16" to 9/32" for 1/4" plywood panel (3/4" doors)

Each Instile & Rail System™ includes **Full Color Instruction Manual**



Watch Video Online www.amanatool.com/videos





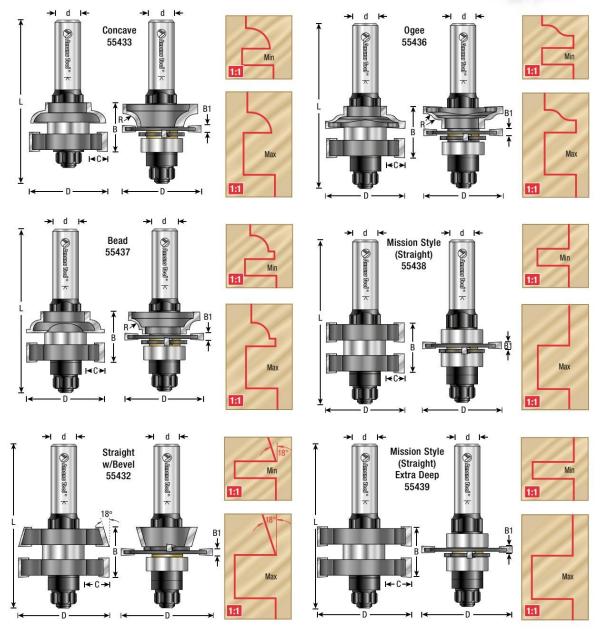
FLAT PANEL STILE & RAIL SETS

Carbide Tipped with Ball Bearing Guide • 5/8" to 1-1/4" Material

Bits in these sets have profile and groove or rabbet cutters and ball-bearing guide mounted on a 1/2" shank. Respacing of the components should only be necessary — using the provided shims — after the cutters have been resharpened. Guide straight cuts with the fence; use the pilot bearing only for cuts on curved rails or stiles.

			B1 for	B1 for					
ØD	R	В	1/4" Plywood	1/2" Plywood	C	Ød	L	Type	Tool No.
1-5/8	1/4	5/8 to 1-1/4	3/16 to 9/32	7/16 to 17/32	3/8	1/2	3-11/32	Concave	55433
1-5/8	5/32	5/8 to 1-1/4	3/16 to 9/32	7/16 to 17/32	3/8	1/2	3-11/32	Ogee	55436
1-5/8	3/16	5/8 to 1-1/4	3/16 to 9/32	7/16 to 17/32	3/8	1/2	3-11/32	Bead	55437
1-5/8	_	5/8 to 1-1/4	3/16 to 9/32	7/16 to 17/32	3/8	1/2	3-11/32	Mission (Straight)	55438
1-7/8	_	5/8 to 1-1/4	3/16 to 9/32	7/16 to 17/32	1/2	1/2	3-11/32	Mission (Straight)	55439
1-7/8	_	5/8 to 1-1/4	3/16 to 9/32	7/16 to 17/32	1/2	1/2	3-11/32	Straight with Beve	55432





INDUSTRIAL DOORMAKING ROUTER BITS







ADJUSTABLE MISSION STYLE TONGUE & GROOVE SET

Insert Carbide • For 5/8" to 1-3/16" Material

Adjust the panel groove width from 5.4mm to 6.6mm using the easy to use adjustment knob - no shims necessary.

The perfect fix for undersized plywood flat panel "Mission Style, Arts & Crafts and Shaker" cabinet doors!

Set includes unique adjustment system

- · Designed to cut precise grooves to provide undersized plywood veneered panels with a snug rattle-free fit.
- Each set includes 2 pcs. (1 for stile cuts and 1 for rail cuts).

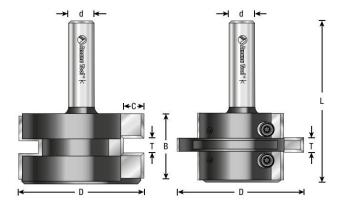


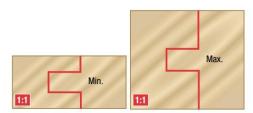


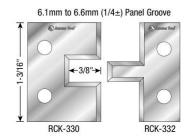
ØD	В	Ød	C	T	L	Max. RPM	Tool No.	
2-3/8	1-3/16	1/2	3/8	6.1mm to 6.6mm(1/4±)	2-15/16	18,000	RC-4022	Ī

Replacement knives sold individually (2 replacement knives required per bit). Replacement screw #67117 & key #5005.















Optional Knives:

- For 5.5mm undersized 1/4" plywood.
- For 5.9mm oversized 1/4" veneered plywood.

5.4mm to 6.0mm Panel Groove **←**3/8"→ RCK-334 RCK-336

2-PIECE STILE & RAIL SETS

Carbide Tipped • 2-Wing with Ball Bearing Guide

Our stile & rail sets give you two complete bits, one for doing the rail cuts, one for the stiles. Make cabinet doors and all varieties of frame-and-panel assemblies for furniture and architectural applications. These sets are offered in two configurations, one for working material up to 1" thick, the other for material between 5/8" and 7/8" in thickness. The same three profiles are available in either configuration.

3/4" Material

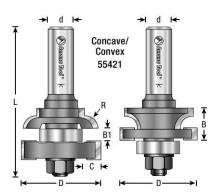
Bits in this set have profile and groove or rabbet cutters and ball-bearing guide mounted on a 1/2" shank. Respacing of the components should only be necessary — using the provided shims — after the cutters have been resharpened. Use in a table-mounted router. Guide straight cuts with the fence; use the pilot bearing only for cuts on curved rails or stiles.



			B1					
ØD	R	В		C	Ød	L	Type	Tool No.
1-5/8	1/4	11/16	1/4	3/8	1/2	3-1/8	Concave	55421
1-5/8	1/4	11/16	1/4	3/8	1/2	3-1/8	Ogee	55431

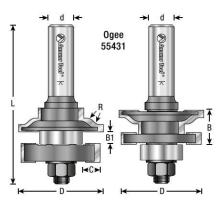
Complete listing of replacement parts can be found online.







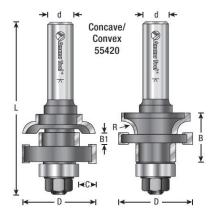








INDUSTRIAL DOORMAKING ROUTER BITS







2-PIECE STILE & RAIL SETS

Carbide Tipped • 2-Wing with Ball Bearing Guide

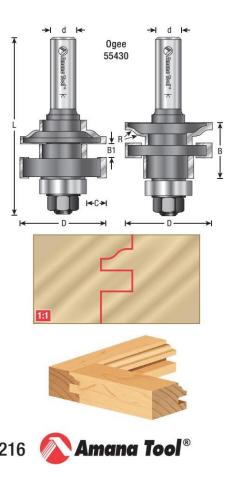
3/4" to 1" Material

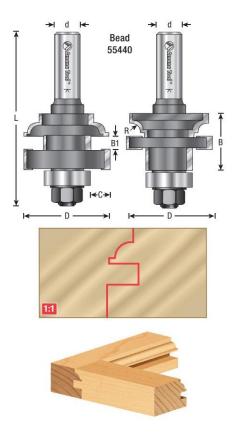
In addition to the components provided with sets of the first type, these sets include two trim cutters for stock 7/8" through 1" in thickness. (These trim cutters can be removed for making bearing-guided cuts on stock under 7/8" thick.)

Use in a table-mounted router. Guide straight cuts with the fence, setting it tangent to the trim cutters. Use the pilot bearing only for cuts on curved rails or stiles; for cuts on curved parts 7/8" to 1" thick, a template must to used.

ØD	R	В	B1	C	Ød	L	Type	Tool No.	
1-5/8	1/4	1-1/16	1/4	3/8	1/2	3-5/16	Concave	55420	
1-5/8	1/4	1-1/16	1/4	3/8	1/2	3-5/16	Ogee	55430	
1-5/8	3/16	1-1/16	1/4	3/8	1/2	3-5/16	Bead	55440	

Individual Components:	Qty. R	Tool No.		
Description	55420	55430	55440	Order #
Ogee Profile Cutter	-	1	_	55352
Ogee Cope Cutter	_	1	1	55434
Bead Profile Cutter		_	1	55442
Bead Cope Cutter	<u> </u>	_	1	55444
.250" Groove Cutter	1	1	1	55354
.865" Ball Bearing	2	2	2	47708
1/2" Shank Arbor With Nut	2	2	2	47622
.002" Shims	4	4	4	55356
.040" Shims	4	4	4	55402
.004" Shims	4	4	4	55357
3.4mm Spacers	4	4	4	55367





REVERSIBLE STILE & RAIL ASSEMBLIES

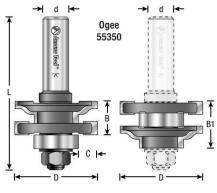
Carbide Tipped • 2-Wing with Ball Bearing Guide

3/4" Material

Cut both the stiles & rails with a single economical assembly. Switch from the stile cut to the rail cut simply by rearranging the cutters and bearing on the arbor. Because the profile and the cope are cut with the same cutter, you get a perfect fit. The assembly order for each setup is shown in the drawing. Use in a table-mounted router. Guide straight cuts with the fence; use the pilot bearing only for cuts on curved rails or stiles.

	Pattern										
ØD	Type	C	В	B1	Ød	L	Tool No.				
1-5/8	Ogee	3/8	11/16	7/8	1/2	3	55350				
1-5/8	Traditional	3/8	11/16	7/8	1/2	3	55370				
1-5/8	Classical	3/8	11/16	7/8	1/2	3	55380				

Note: Stile & Rail assemblies can be used on 5/8" through 7/8" material.



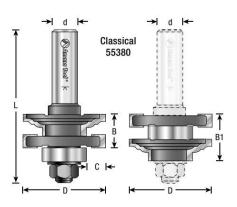
















INDUSTRIAL DOORMAKING ROUTER BITS



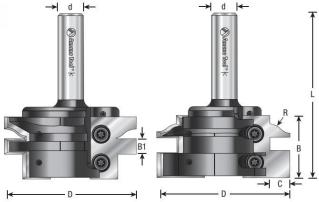
STILE & RAIL SET

Insert Carbide • For 3/4" To 1-3/16" Material

Our stile & rail sets give you two complete bits, one for doing the rail cuts and one for the stiles. Make cabinet doors and all varieties of frame-and-panel assemblies for furniture and architectural applications.

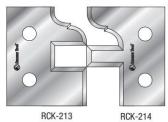
ØD	В	B1	R	Ød	C	L	Max. RPM	Tool No.
2-5/8	1-11/64	1/4	1/4	1/2	3/8	3-1/8	18,000	RC-1130*

^{*} Set comes with Ogee knives installed (#RCK-215 & #RCK-216). Replacement parts: Screw #67117; Key #5005.

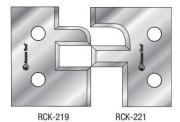


Additional Knives Sold Separately

Classical



Concave Convex





ONE PIECE STILE & RAIL

Carbide Tipped • 2 Flute

These one piece stile & rail bits are an easy and effective technique for creating cabinet door frames. You simply adjust the height of the bit accordingly in the router table to cut the profile cut (with bit lowered in the table) and the cope cut (with bit raised in the table).

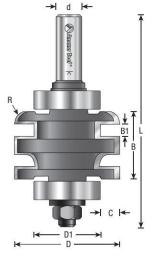
For 3/4" thick frames.

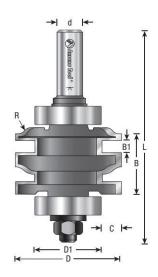


ØD	ØD1	R	В	B1	C	Ød	L	Tool No.	
2	1-1/4	7/32	1-9/32	15/64	3/8	1/2	4-3/32	55460	
2	1-1/4	7/32	1-9/32	15/64	3/8	1/2	4-3/32	55462	

Replacement parts: Bearing #47744 (2 required); Nut #67131; Washer #67125.















INDUSTRIAL DOORMAKING ROUTER BITS



CABINET DOOR & DRAW EDGE FRONT FACE EDGE

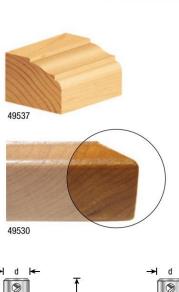
Carbide Tipped • 2 Flute

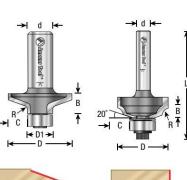
Cuts a decorative edge on cabinet fronts. Shallow design will also work well with European hinges.



ØD	ØD1	R	R1	R2	В	C	Ød	L	Tool No.
1-1/4	1/2	5/64	_	_	3/8	3/8	1/2	1-7/8	49530
15/16	_	9/64	_	_	1/4	7/32	1/4	1-5/8	49532
1-1/4	_	7/32	9/64		7/16	3/8	1/2	2-25/64	49534
1-9/16	1/2	9/64	11/32	-	7/16	17/32	1/2	2-19/64	49535
1-3/4	1/2	7/64	17/32	3/32	7/16	5/8	1/2	2-1/2	49536
1-3/4	1/2	1/8	31/64	_	7/16	5/8	1/2	2-1/4	49537
1-3/4	1/2	1/4	17/64	_	7/16	5/8	1/2	2-1/2	49538

Replacement bearing #47706.



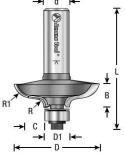




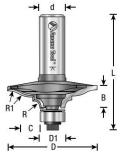






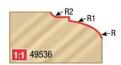


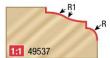


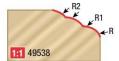














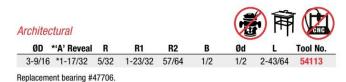


爾圖

RAISED PANEL

Carbide Tipped • 2 Flute with Ball Bearing Guide

Create raised panels for cabinet doors, frame-and-panel furniture, and architectural paneling with a raised-panel bit. The cutter forms a fillet to delineate the raised field, a shaped band around the field, and an integral tongue to fit the panel groove in the frame members. The profile contour and the reveal width varies. All tools have 1/2" shanks. Must be used in a table-mounted 3+ horsepower router and run at reduced speed. Use these bits for panels with curved edges. Multiple passes recommended.



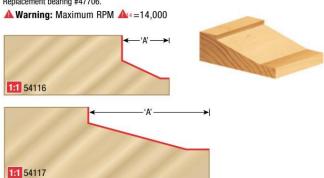




Traditional

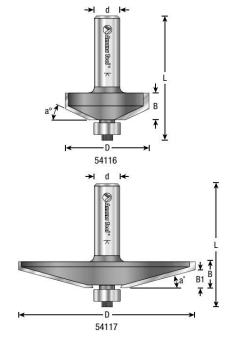
ØD	*'A' Reveal	a°	В	B1	Ød	L	Tool No.	
1-5/8	*9/16	25°	1/2	_	1/2	2-3/8	54116	
3-3/8	*1-7/16	15°	1/2	5/16	1/2	2-3/8	54117	

Replacement bearing #47706.

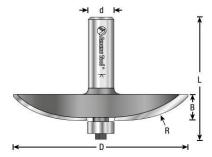


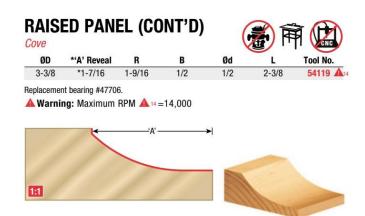
^{*} Note: Reveal ('A') on all tools shown above, reflects the total length of cut. Therefore, you must deduct 3/8" (usually) for allowing the panel to recess into the frame.

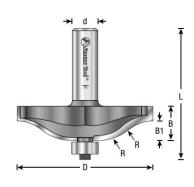


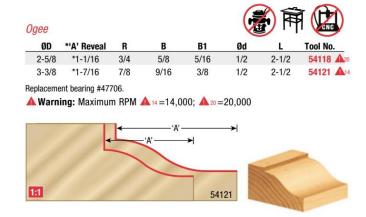


INDUSTRIAL DOORMAKING ROUTER BITS















RAISED PANEL BACK CUTTER

Carbide Tipped • 2 Flute

Designed to cut back side of raised panels for a flush alignment with door frames. This cutter can be used with any of our raised panel router bits found on pages 186 and 187.

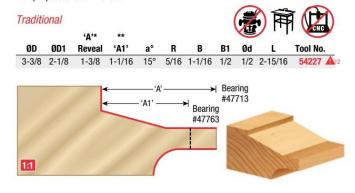
			0000 000 0 1 1 1000 000 000 000 000 000 000 000 00	(F	
ØD	*'A' Reveal	R	В	Ød	L	Tool No.
1-3/4	5/8	1/4	7/16	1/2	2-1/16	54278
Replaceme	nt bearing #47706	i.				
					and have	
					→	'A' →

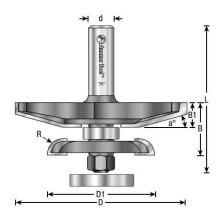
* Note: Reveal ('A') on all tools shown above, reflects the total length of cut. Therefore, you must deduct 3/8" (usually) for allowing the panel to recess into the frame.

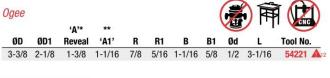
RAISED PANEL WITH BACK CUTTER

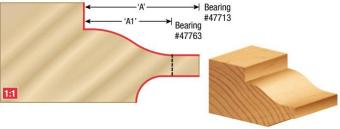
Carbide Tipped • 2 Flute with Ball Bearing Guide

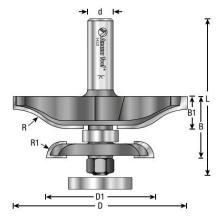
Raised panels fit standard panel grooves, even when the panel thickness exceeds 5/8." As the main cutter raises the front of the panel, the back cutter mills the back to produce a standard-thickness tongue around the panel. Each tool is supplied with two different guide bearings, enabling you to stage cuts on curved edges effectively and safely. All tools have 1/2" shanks. Must be used in a table-mounted 3+ horsepower router and run at reduced speed. Multiple passes recommended.

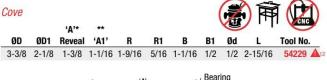


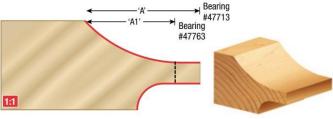


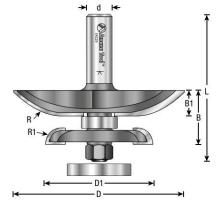












Replacement bearing #47713 (8mm x 16mm) and #47763 (8mm x 1-1/4").

Back Cutter #55435 = 1/4" Kerf; 5/16" Radius Cutter.

▲ Warning: Maximum RPM ▲ 12=12,000

INDUSTRIAL DOORMAKING ROUTER BITS

^{*} Note: Reveal ('A') on all tools shown above, reflects the total length of cut. Therefore, you must deduct 3/8" (usually) for allowing the panel to recess into the frame.

^{**} Note: To receive ('A1') use bearing #47713. Bearing included with tool.



224 🔊 Amana Tool®



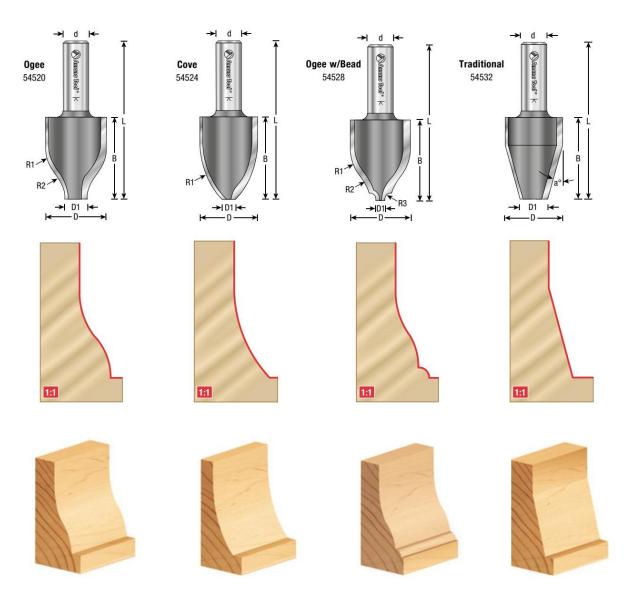
VERTICAL RAISED PANEL

Carbide Tipped • 2 Flute

Raised panels with a low-horsepower, fixed speed router using these VERTICAL raised panel bits. You must do the work on a router table, with the work on edge, braced against the fence. Arched or curved shapes (i.e.: "cathedral" door panels) cannot be routed. To prolong tool life and get the best cut finish, several passes are recommended.



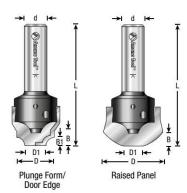
ØD	ØD1	В	a°	R1	R2	R3	Ød	L	Type	Tool No.
1-3/16	7/16	1-5/8	_	7/8	23/32	_	1/2	3-1/8	Ogee	54520
1-1/8	9/32	1-5/8	_	1-9/16	_	_	1/2	3-1/8	Cove	54524
1-3/16	3/16	1-5/8		7/8	23/32	1/8	1/2	3-1/8	Ogee w/Bead	54528
1-1/8	19/32	1-5/8	15°	_	_	_	1/2	3-1/8	Traditional	54532



INDUSTRIAL DOORMAKING ROUTER BITS

MDF Cabinet Door CNC Insert Router Bits





- Long lasting insert knives provide superior smooth quality cuts every time
- · Quick and precise replacements of dull knives
- · Due to insert accuracy tool life is extended
- . Insert tooling allows for harder grades of carbide
- Knives can be re-sharpened multiple times without affecting the original profile
- · Cost effective solution compared to replacing brazed router bits

THE ULTIMATE SOLUTION FOR MDF DOOR MAKING!

Excellent for cutting MDF & Wood

Series of profiles utilizing our Nova™ Tool body system of interchangeable solid carbide knives (see pages 154-155) are designed to give the appearance of a Raised Panel door in MDF or solid panels

- . Insert solid carbide lasting interchangeable knives
- Nova™ Tool body system





ØD	D1	В	B1	Style	Ød	L	Repl. Knife	Tool No.
3/4	7/16	7/16	1/8	Cove & Bead	1/2	2-5/8	RCK-490	RC-2490
25/32	7/16	23/64	3/16	Bead	1/2	2-5/8	RCK-480	RC-2480
25/32	7/16	15/32	_	Ogee	1/2	2-5/8	RCK-481	RC-2481
25/32	7/16	7/16	1/4	Ogee	1/2	2-5/8	RCK-482	RC-2482
27/32	7/16	19/64	7/64	Bead	1/2	2-5/8	RCK-494	RC-2494
1-17/64	7/16	27/64	_	Ogee	1/2	2-5/8	RCK-496	RC-2496
1-11/32	7/16	19/64	_	Corner Rounding	1/2	2-5/8	RCK-498	RC-2498
1-11/32	7/16	23/64	_	Classical Cove	1/2	2-5/8	RCK-499	RC-2499
1-3/8	15/32	25/64	_	Traditional	1/2	2-5/8	RCK-483	RC-2483
1-7/64	7/16	1/4	7/64	Ogee	1/2	2-5/8	RCK-484	RC-2484
1-11/32	23/64	17/64	_	Cove	1/2	2-5/8	RCK-485	RC-2485
1-11/32	25/64	21/64	_	Traditional	1/2	2-5/8	RCK-486	RC-2486

Each tool includes 2 knives. Tool body #NS-102.

Replacement knives are interchangeable and may be purchased separately.





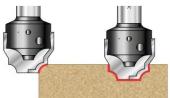




CREATE SIMULATED MDF CABINET DOORS

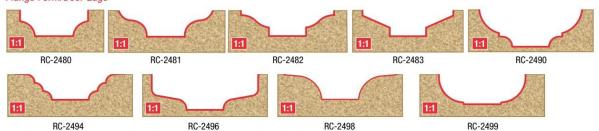
Insert Carbide for Cabinet Simulated Raised Panel & Door Edge

Give the appearance of a Raised Panel door in MDF or solid panels. One pass is all that is needed for a simple raised panel look using one of the "Plunge Form" profiles. Replacement knives are MDF Grade Carbide and will last much longer than standard brazed carbide tipped bits.

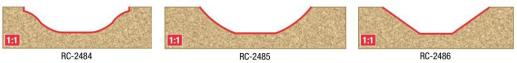


Create the door edge and plunge with the same tool.

Plunge Form/Door Edge

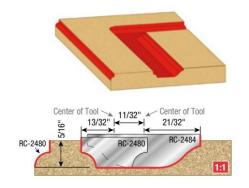


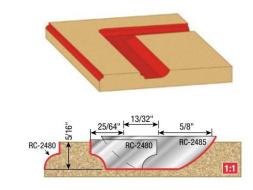
Raised Panel



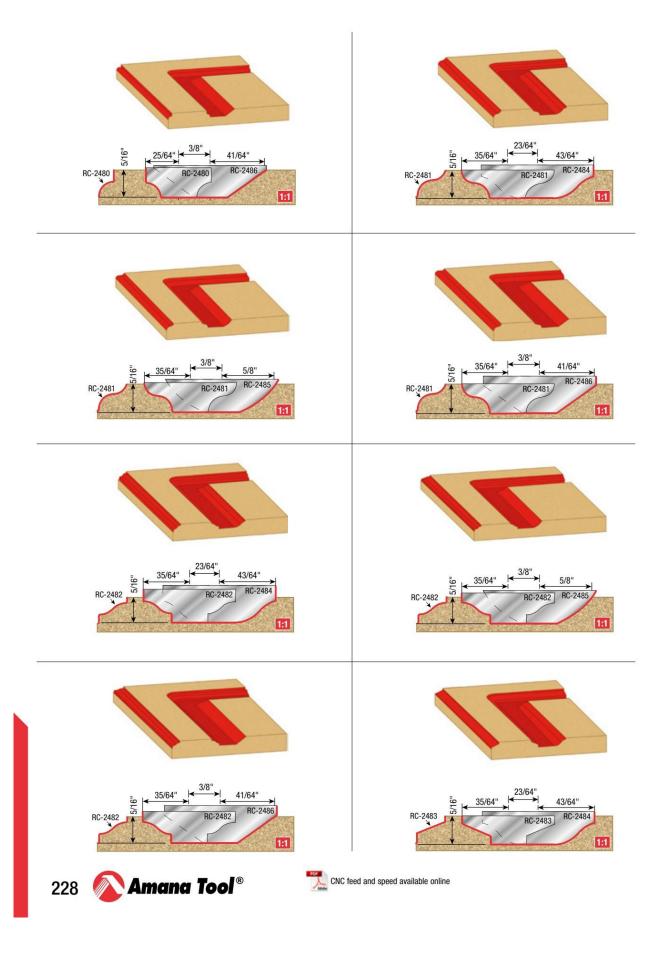
CREATE A MORE AUTHENTIC RAISED PANEL WITH A DEEPER REVEAL

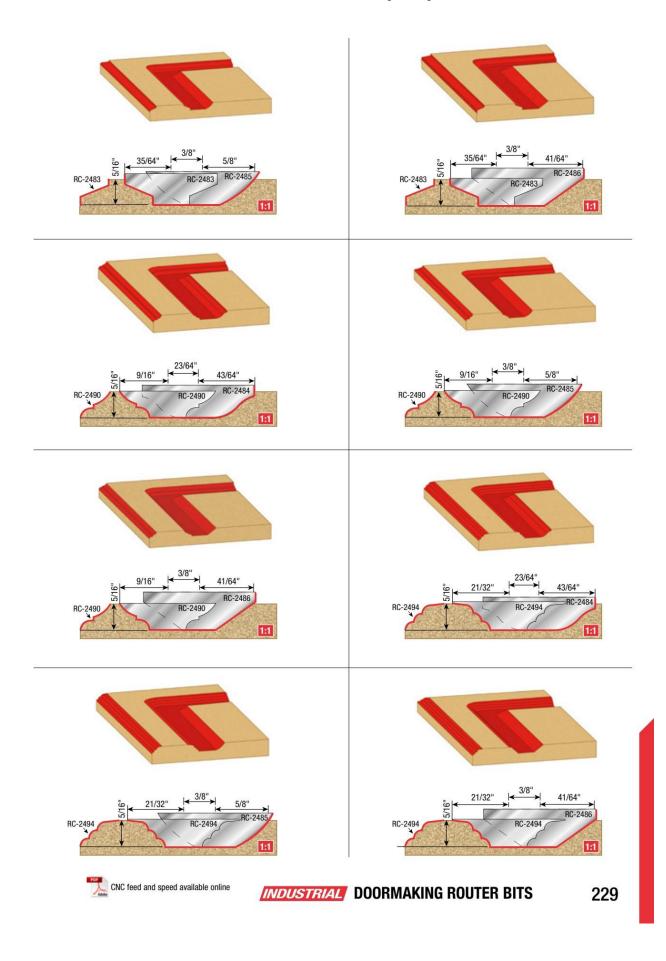
Use one of the many "Raised Panel" profiles in conjunction with the "Plunge Form" profile for one pass each. Complete the look with one pass of the door edge using any "Plunge Form" bit.

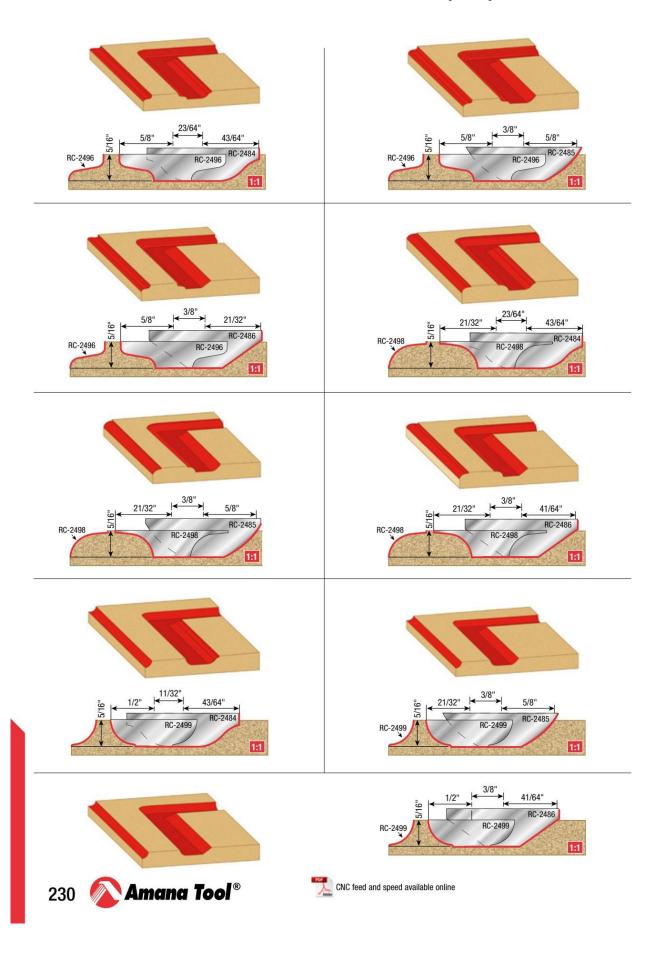


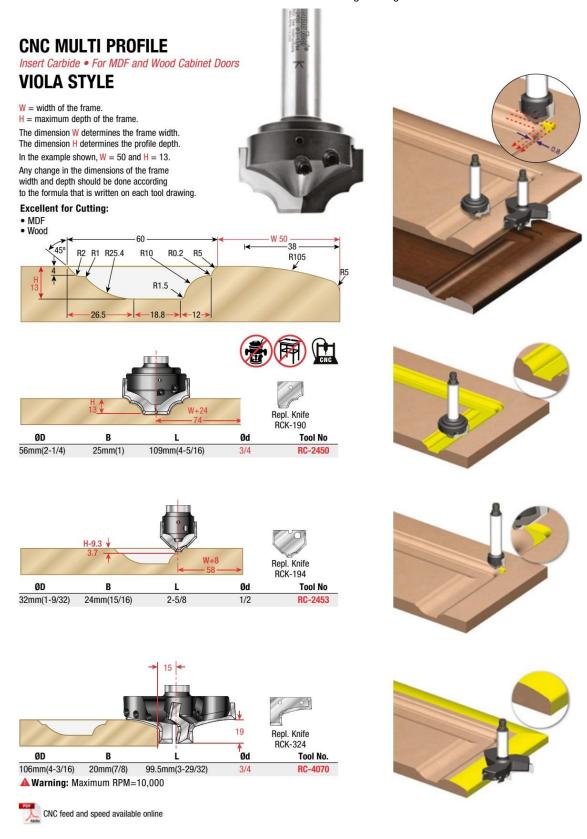


INDUSTRIAL DOORMAKING ROUTER BITS









INDUSTRIAL DOORMAKING ROUTER BITS



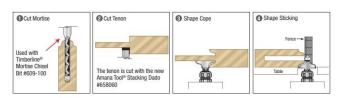


Carbide Tipped • 2 Flute



Want the beauty of traditional cope and stick doors with the strength and longevity of true mortise-and-tenon joinery? Our design allows you to make beautiful doors with tenons of any length you choose.

This unique door-making system utilizes a "stub" spindle & cope cutter arrangement. The counterbored cope cutter is secured to the spindle with a cap screw. A matching profile bit is used to shape the decorative ogee "sticking" along the edges of the stiles and rails. As the cope is cut on the ends of the rails, the tenon passes over the top of the bit unobstructed.



Each Stub Spindle & Cope Cutter includes Full Color Instruction Manual







ENTRY DOOR SYSTEM

1-3/4" Material

ØD	ØD1	R	В	Ød	L	Type	Tool No.
2	3/4	11/32	11/16	1/2	2 (Cope Cutter w/Stub Spino	dle 47511
1-3/4	-	11/32	11/16	1/2	2-3/16	Ogee Bit	54131

Replacement Parts: Cope cutter: #47510. Stub spindle with screw: #47617. Screw for stub spindle: #67012. Ball bearing: #47706.

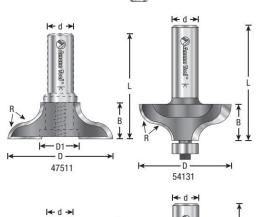


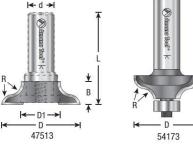
Screen Door **Entry Door**

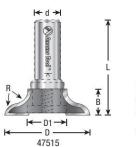
SCREEN DOOR SYSTEM 1-1/8" Material

1,0	matoria						
ØD	ØD1	R	В	Ød	L	Туре	Tool No.
1-1/2	3/4	7/32	15/32	1/2	2	Cope Cutter w/Stub Sr	indle 47513

Replacement Parts: Cope cutter: #47512. Stub spindle with screw: #47617. Screw for stub spindle: #67012. Ball bearing: #47706.









CABINET DOOR SYSTEM

7/8" Material

ØD	ØD1	R	В	Ød	L	Туре	Tool No.
1-5/8	3/4	1/4	3/8	1/2	2	Cope Cutter w/Stub Spir	ndle 47515
1-3/8		1/4	3/8	1/2	1-31/3	2 Ogee Bit	54175

Replacement Parts: Cope cutter: #47514. Stub spindle with screw: #47617. Screw for stub spindle: #67012. Ball bearing: #47706.

INDUSTRIAL DOORMAKING ROUTER BITS

233

В





You'll need just two bits: the **Quadraset #53600** and **Corner Bead #54163**.

CONSTRUCT YOUR OWN WAINSCOT DOOR

Wainscot doors can be a beautiful addition to an informal, country style kitchen; their beaded panels are reminiscent of times long past.



- * A full 3/4" cut can be achieved using one additional #53107 cutter
- Use in a table-mounted router. Not for use in a handheld router!









Cut Joint Frame

2 Shape the Wainscot

Assemble





HISTORICAL SHAKER DOOR

Carbide Tipped • 2 Flute

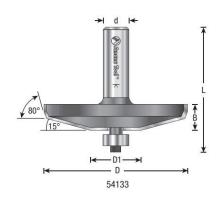
7/8" Frame Material and 5/8" Panel Material

If you'd like to reproduce exact Shaker details on your next project, we've got the bits that you need. This Shaker door set creates a short, steep 20 degree beveled panel edge just like doors on Shaker originals. A simple thumbnail profile along the inside edges of the frame duplicates the original profile to complete the authentic look.

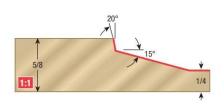












INDUSTRIAL DOORMAKING ROUTER BITS

INDUSTRIAL

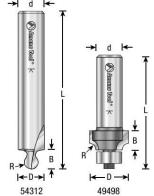
Tambours

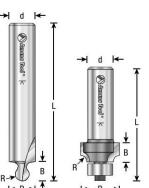
No Cloth, Glue or Wires!



Set #54314

54310



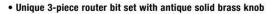




TAMBOUR DOOR SET

U.S. Patent No. 7,810,532

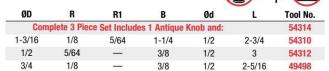
Carbide Tipped • 2 Flute



- · Shapes tambours that interlock with a ball-and-socket joint
- · Unlike ordinary tambours, there is no need for cloth, glue or wires
- Each slat measures approximately 1/2" x 1"
- Minimum radius for the tambour door is 3-1/2"

The set is easy to set up and use. The first bit (#54310) shapes the face of the stock; cutting from each face completes the contour of the ball. Afterwards, a second bit (#54312) is used to shape the socket. A third bit in the set (#49498) is used to shape the end of the tambour which provides a place to mount a pull for opening the completed tambour.

And, assembly is easy. Simply slide the slats together to create a beautiful, flexible tambour that's perfect for creating your own roll top desk, breadbox, kitchen countertop storage areas and more.





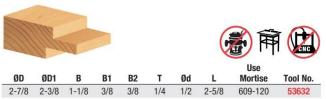


OFFSET MORTISE-AND-TENON FOR MISSION STYLE GLASS DOOR

Carbide Tipped • 2 Flute

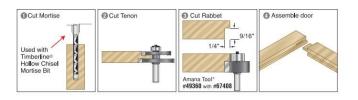
The strongest construction method for making doors is the mortise-and-tenon joint. These new bits allow you to make tenons with offset shoulders. This makes it easy to construct offset mortise-and-tenon joints for Mission Style glass doors.

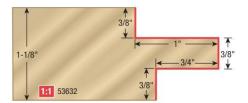




Replacement parts: Bearing #47708; Screw #67090; Key #5004.







LOUVER/SHUTTERS

Carbide Tipped • 2 Flute with Ball Bearing Guide

Create custom louver doors. Now you can easily simulate the timeless look of wooden shutters (louvers) with this new industrial quality router bit.

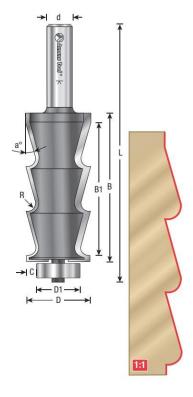


ØD	ØD1	R	В	B1	C	a°	Ød	L	Tool No.
1-1/4	22mm	5/32	2-29/32	2-9/32	3/16	15°	1/2	5-5/32	54246 12

▲ Warning: Maximum RPM ▲ 12=12,000







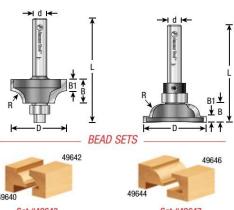
INDUSTRIAL DOORMAKING ROUTER BITS

PROFILE SETS

Carbide Tipped • 2 Flute with Ball Bearing Guide



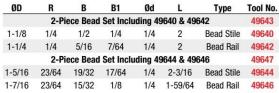
The inverted hand cutters will produce copes that nest perfectly into the profiles cut by the matching "regular" bits. In addition, the inverted head allows you to profile edges that are out of the reach of regular profile bits. Equipped with ball bearing guides, either on the tip or on the shank.

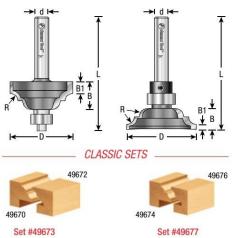


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$\begin{array}{c c} R^1 & \\ \uparrow & \\ \downarrow \\ \downarrow$	$ \begin{array}{c} $
49642	O SETS 49646
19640	49644
Set #49643	Set #49647

→ I d I ← B H A B	BI B
49662	49666
49660	49664
Set #49663	Set #49667

ØD	R	В	B1	Ød	L	Type	Tool No.
2-Pie	ce Ogee	Stile & F	lail Set In	cluding 49	660 8	49662	49663
1-11/32	11/32	1/2	1/4	1/4	2	Ogee Stile	49660
1-1/2	11/32	3/8	3/32	1/4	2	Ogee Rail	49662
2-Pie	ce Ogee	Stile & F	ail Set In	cluding 49	664 8	49666	49667
1-1/2	11/32	9/16	1/4	1/4	2	Ogee Stile	49664
1-19/32	11/32	3/8	1/8	1/4	2	Ogee Rail	49666





ØD	R	В	B1	Ød	L	Туре	Tool No.
2-Piece	Classical	Stile &	Rail Set	Including	49670	& 49672	49673
1-3/32	9/64	1/2	3/16	1/4	2	Classical Stile	49670
1-1/4	9/64	3/8	5/64	1/4	2	Classical Rail	49672
2-Piece	Classical	Stile &	Rail Set	Including	49674	& 49676	49677
1-5/16	3/16	5/8	7/32	1/4	2	Classical Stile	49674
1-7/16	3/16	9/16	1/8	1/4	2	Classical Rail	49676

Replacement bearing for stile cutters #47702 (3/8" dia.). Replacement bearing for rail cutters #47701 (1/2" dia.). Replacement collar for rail cutters #47724.





FINGER GRIP/DRAWER PULL/DOOR LIP

Carbide Tipped • 2 Flute

Produce clean, modern chests and cabinets uninterrupted by hardware pulls and knobs by integrating the pulls into the doors, drawers and lids. These one-pass cutters offer many appearance and ergonomic options, providing positive grips and softened, easy-on-thefingers edges. All bits can be used in CNC and table-mounted routers. Larger diameter cutters will work in edge-guide or template-guide equipped handheld routers.



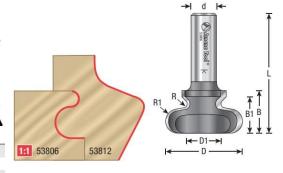
ØD	ØD1	R	R1	В	B1	Ød	L	Tool No	
3/4	25/64	3/32	3/16	3/4	39/64	1/2	2-1/4	53806	
1-31/64	11/16	5/64	15/64	53/64	45/64	1/2	2-21/64	53808	
1-49/64	11/16	5/64	13/64	53/64	43/64	1/2	2-21/64	53810	
2	3/4	1/4	3/16	1-1/4	_	1/2	2-3/4	53812	

B1

5/16

Ød

1/2



FINGER GRIP-TRAPEZOIDAL

13/16

Carbide Tipped • 2 Flute

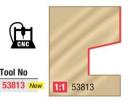
ØD1

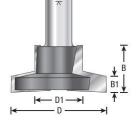
ØD

1-3/4



Tool No





WINDOW SILL EDGE

Carbide Tipped • 2 Flute

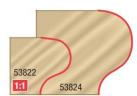
These bits shape a flowing ogee edge for creating traditional window sills.

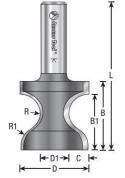


2-13/32



ØD	D1	R	R1	В	B1	C	Ød	L	Tool No
1-1/4	1/2	7/32	1/4	7/8	11/16	3/8	1/2	2-7/8	53822
1-7/16	5/8	3/8	5/16	1-1/8	1	13/32	1/2	3-7/8	53824
1-1/4	5/8	7/32	11/32	1	7/8	5/16	1/2	3	53826
1-7/16	11/16	23/64	9/16	1-3/8	1-1/8	3/8	1/2	3-3/8	53828





d |←

DOOR EDGE DETAIL FOR DECO DOOR

R

Carbide Tipped • 2 Flute

ØD1

ØD

Use these bits to shape the edges of cabinet doors. Style #53820 also eliminates the need for a pull to create a clean, uncluttered look.

ØD2



Ød



Tool No



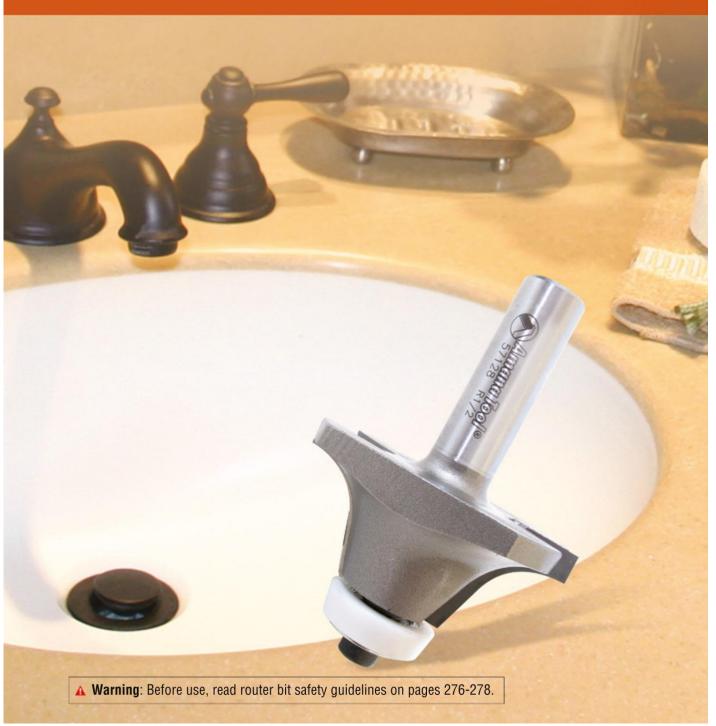


R1 1-3/16 2 23/32 31/32 3/8 1/8 1/2 2-1/2 53820

R

INDUSTRIAL DOORMAKING ROUTER BITS

Solid Surface INDUSTRIAL Router Bits



FOR FABRICATING SOLID SURFACE MATERIALS

Wilsonart®, Gibraltar®, Corian®, Surell®, Fountainhead®, Avonite®, Etc.



Amana Tool® has developed a line of over 100 special tools for the fabrication of solid surface materials on the market. There are special tools for face-inlay, trimming, corner rounding and bullnosing as well as bits for counter-tops and bowls.

Some of our tools with ball bearings utilize our Ultra-Glide™ high-performance ball bearing guide assembly. The Ultra-Glide™ is a steel ball bearing fitted with a non-marring Delrin® sleeve.

For decorative work, our other carbide-tipped router bits can also be used for solid surface materials.



COUNTER-TOP 'NO-DRIP' DESIGN

Carbide Tipped • 2 Flute with Ball Bearing Guide

This bit will cut a 'no-drip' edge on kitchen and vanity counter-tops in one pass. Use in a handheld router.

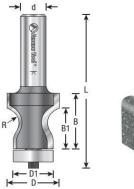


	ØD	ØD1	Α	R	В	B1	Ød	L	Tool No.
S	1	3/4	1/2	5/16	7/8	5/8	1/2	3	57118
	1	3/4	3/4	5/16	1-1/8	15/16	1/2	3-1/4	57120

Replacement Ultra-Glide" bearing #47709 (includes #5003 5/32" hex key). Replacement steel bearing (old style) #47714.







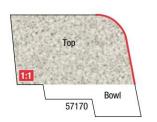




Note: The application specifications, current at time of publication, are intended for reference purposes and are subject to change without notice. Please refer to the Fabrication Guides provided with the particular material or bowl you are using for more specific installation instructions.

Amana Tool® makes no endorsements whatsoever to manufacturers of the solid surface materials listed herein.

INDUSTRIAL SOLID SURFACE ROUTER BITS



ROUND OVER

Carbide Tipped • 2 Flute with Ultra-Glide™ Ball Bearing Guide Assembly

This tool is intended for use on 1/2" thick material. It will put a 3/8" radius round over on the counter-top. Furnished with Ultra-Glide™ non-marring Delrin®-sleeved ball-bearing guide.

For use on "Vaso Sink Collection" by Dupont®.

ØD ØD1 a° R B B1 Ød

1-7/8	3/4	10°	3/8	1	25/32	1/2	2-29/32	57170
Replacemen	t Ultra-Gli	de™ bearin	g assembly	y #47774	(includes #	5009 1/8	3" hex key).	





Carbide Tipped • 2 Flute with Ultra-Glide™ Radius Bearing

This unique tool produces a true 180° bullnose in two passes. Make the first pass with a regular 1/4" x 5/8" steel bearing (optional). Switch to the Ultra-Glide™ radius bearing for the second pass. This unique bearing

follows the curved surface, eliminating the flat track typical of the two-pass cut with the regular bearing.

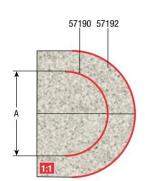






							кері.		
ØD	ØD1	Α	R	В	Ød	L	Bearing	Tool No.	
1-5/8	5/8	1	1/2	3/4	1/2	2-3/4	47767	57190	
2-1/8	5/8	1-1/2	3/4	1	1/2	3	47768	57192	

Standard steel 1/4 x 5/8 bearing - use #47712 - (order separately).



← D1 →

- D -









CORNER ROUNDING

Carbide Tipped • 2 Flute with Ultra-Glide™ Ball Bearing Guide Assembly

Use this bit for rounding edges where there's access to a flat surface for the Ultra-Glide™ non-marring bearing to reference. Used in concert with either the Counter-top ('No-Drip') Design bit or the corner-rounding bit with a radius bearing, this bit will produce a no-drip edge or a bullnose in two passes.

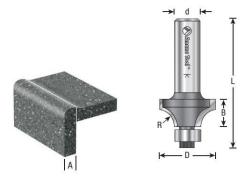


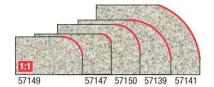
ØD	Α	R	В	Ød	L	Tool No.
3/4	_	1/8	3/8	1/2	2-5/16	57147
1	-	1/4	1/2	1/2	2-7/16	57149
1-1/8	3/4	5/16	1/2	1/4	1-7/8	57150
1-1/8	3/4	5/16	1/2	1/2	2-1/4	57152
1-1/2	_	1/2	3/4	1/2	2-3/8	57139
2	_	3/4	1	1/2	2-3/8	57141

Replacement Ultra-Glide™ bearing assembly #47707 (includes #5000 1/8" hex key).









d

ROUND UNDER

Carbide Tipped • 2 Flute with Upper Ball Bearing

Round the lower edge of a counter with the router resting on the upper surface. No need to turn the heavy material over. This tool is especially useful for "job-site" work.

(To complete a full 180° bullnose on 1/2," 1," 1-1/2" or 2" thick stock, use the corner-rounding bit with the radius bearing.) Furnished with Ultra-Glide™ non-marring Delrin®-sleeved ball-bearing guide.



 ØD
 A
 R
 B
 Ød
 L
 Tool No.

 2-5/8
 1-1/2
 3/4
 1
 1/2
 3
 57140
 ▲

Replacement parts: Ultra-Glide™ bearing #47737; Collar #47740.

▲ Warning: Maximum RPM ▲4=14,000





INDUSTRIAL SOLID SURFACE ROUTER BITS

CORNER ROUNDING

Carbide Tipped • 2 Flute with Ultra-Glide™ Ball Bearing Guide Assembly

Use this bit for rounding edges where there's access to a flat surface for the Ultra-Glide™ non-marring bearing to reference. Used in concert with either the Counter-top ('No-Drip') Design bit or the corner-rounding bit with a radius bearing, this bit will produce a no-drip edge or a bullnose in two passes.



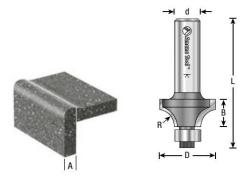


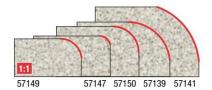
Α	R	В	Ød	L	Tool No.
_	1/8	3/8	1/2	2-5/16	57147
_	1/4	1/2	1/2	2-7/16	57149
3/4	5/16	1/2	1/4	1-7/8	57150
3/4	5/16	1/2	1/2	2-1/4	57152
_	1/2	3/4	1/2	2-3/8	57139
_	3/4	1	1/2	2-3/8	57141
	 3/4	1/8 1/4 3/4 5/16 3/4 5/16 1/2	1/8 3/8 1/4 1/2 3/4 5/16 1/2 3/4 5/16 1/2 1/2 3/4	— 1/8 3/8 1/2 — 1/4 1/2 1/2 3/4 5/16 1/2 1/4 3/4 5/16 1/2 1/2 — 1/2 3/4 1/2	— 1/8 3/8 1/2 2-5/16 — 1/4 1/2 1/2 2-7/16 3/4 5/16 1/2 1/4 1-7/8 3/4 5/16 1/2 1/2 2-1/4 — 1/2 3/4 1/2 2-3/8

Replacement Ultra-Glide™ bearing assembly #47707 (includes #5000 1/8" hex key).









d

ROUND UNDER

Carbide Tipped • 2 Flute with Upper Ball Bearing

Round the lower edge of a counter with the router resting on the upper surface. No need to turn the heavy material over. This tool is especially useful for "job-site" work.

(To complete a full 180° bullnose on 1/2," 1," 1-1/2" or 2" thick stock, use the corner-rounding bit with the radius bearing.) Furnished with Ultra-Glide™ non-marring Delrin®-sleeved ball-bearing guide.

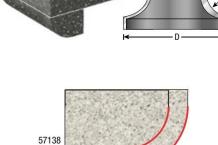


No.	Tool No	L	Ød	В	R	A	ØD
38	57138	2-7/8	1/2	3/4	1/2	1	2-1/8
40 🛮	57140	3	1/2	1	3/4	1-1/2	2-5/8

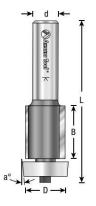
Replacement parts: Ultra-Glide™ bearing #47737; Collar #47740.

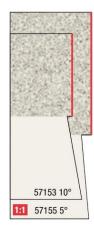
▲ Warning: Maximum RPM ▲ =14,000





INDUSTRIAL SOLID SURFACE ROUTER BITS





BOWL & SINK TRIM

Carbide Tipped • 2 Flute with Ultra Glide™ Ball Bearing Guide

Trim a sink cut-out flush with the bowl in stages using these "over-hang" and flush trim bits in tandem. The overhang bits are equipped with non-marring Ultra-Glide™ bearings that are tapered to match the slope of the bowl's side. A first pass with the appropriate overhang bit cleans the cut-out edge, leaving

a very slight overhang at the underside of the counter. A pass with the flush-trim bit completes the operation.





ØD	В	a°	Ød	L	Description	Tool No.
3/4	1	10°	1/2	3-1/4	1/16 Over-Hang	57153
49/64	1-1/2	5°	1/2	3-1/2	1/8 Over-Hang	57155
3/4	1	0°	1/2	3-1/2	Flush Trim	57154

Replacement Ultra-Glide™ Bearing Assemblies:

(Includes #5003 5/32" hex key).

	Bearing Assembly	Tool No.
0	47726	57153
	47709	57154
	47733	57155







BEVEL TRIM

Carbide Tipped • 2 Flute • For Wilsonart® HD Laminate Sinks

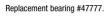
Only minimal sanding is required after using this bevel trim bit to profile the laminate and adhesive of a Wilsonart® HD sink.



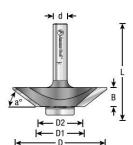




ØD	ØD1	ØD2	В	a°	Ød	L	Tool No.
1-55/64	15/16	7/8	3/8	50°	1/4	1-7/8	57159











FLUSH TRIM

Carbide Tipped • 4 Flute with Ball Bearing Guide

For a super-smooth cut finish with a flush trimming bit, use one with four flutes. Feed rate is reduced, but chipping is virtually eliminated.



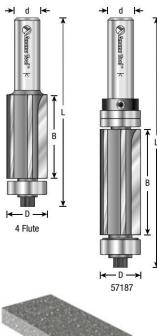
ØD	В	Ød	L	Tool No.
3/4	1	1/2	3	57184
3/4	1-1/2	1/2	4	57185
3/4	2	1/2	4-1/2	57186
3/4	2	1/2	4-3/4	57187 **

Standard replacement bearing (steel) use #47714.

Optional Delrin® replacement bearing use #47709 for solid surface application.

** Replacement parts: Bearings #47714 (bottom), #47721 (2 top); Retaining collar #47740.







ULTRATRIM™ SPIRAL TRIM

Solid Carbide • 2 Flute with Double Ball Bearing Guide

For the ultimate, chip-free finish in solid-surface, laminate, and melamine, and for template work of all kinds, use this solid carbide up-spiral bit. The twin ball-bearing pilot enhances the stability of the tool.





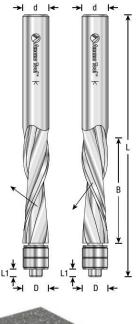


ØD	В	Ød	L	L1	'Up-cut' Tool No.	'Down-cut' Tool No.
1/2	1-1/4	1/2	4	5/32	46300	46400
1/2	2	1/2	5	5/32	46304	46404

Replacement bearing: use #47701 (2). Lock ring: use #47752.

Washer: use #67053.







INDUSTRIAL SOLID SURFACE ROUTER BITS

FINISH · Razor sharp cutting edge Effortless chip removal · Helps prevent chip re-welding Extends tool life · Exceptional cut quality

CNC PLASTIC CUTTING SPIRAL '0' FLUTE

Solid Carbide . Single Flute . Up-Cut & Down-Cut

Made according to strict tolerances from an exclusive carbide grade polished to a mirror finish using Amana's unique process. Designed to eject chips either up or down. Ideal for industrial applications.

1/8

1/4



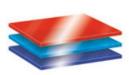


1/16

1/16

1/4

1/4

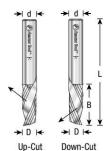


2

'Up-Cut' Tool No.

51441

51415 †



'Down-Cut' Tool No.

51515 †



Excellent for Cutting:

- · Plastic, Acrylic
- Acetal and Nylon
- Acrylic Stone
- Acrylonitrile Butadiene Styrene
 (ABS)
 Lucite®
 Mechan
- Aluminum Composite Material (ACM)
- Alupanel[®]
- Corian
- Coroplast®
- Correx Boards
- Corrugated Polypropylene
- Dibond®
- Extruded Acrylic
 Foam Board
 Fomex[®]

- Gatorfoam® Hard Plastic
- High Density Polyethylene
- High Density Polyethylene (HDPE)
 High Density Urethane (HDU Board)
 High Impact Polystyrene (HIPS)
 HIPS with Digital Printing
 Hydroxy-Terminated Polyether

- (HTPE)
- King ColorCore®, The Multi-Color Engravable Polymer Sheet

- Laminate
- LubX[®]
- Low Density Polyethylene (LDPE)
- Mechanical/Engineered Plastics
 Perspex® Cast Acrylic Sheet
 Plexiglas®
- Poly (methyl methacrylate)(PMM/
- Polyethylene Terephthalate Glycol-Modified (PETG / PET-G)
- Polycarbonate (Lexan™)
- Polystyrene (PS)
- Polyoxymethylene (POM)
- PVĆ
- Sign FoamSintra-PVC
- Solid Surface
- StarBoard* (King StarBoard 'R')
 High Density Polyethylene Sheet
 (HDPE)
 Teflon*
- Thermoplastic Polyolefin (TPO)
- Trespa® Meteon® Decorative High-Pressure Compact Laminate (HPL) With An Integral Surface
- Ùrethane Ultra High Molecular Weight
- Polyethylene (UHMWPE)

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•	V	V	JI	υ	u	

	3/32	1/4	1/8	2	51647 † New	-
	1/8	1/4	1/8	2	51443 †	
N.	1/8	3/4	1/8	2	51437 †	-
	1/8	1/4	1/4	2	51416	_
	1/8	5/16	1/4	1-1/2	_	51523
	1/8	5/16	1/8	2	51453 †	_
	1/8	1/2	1/8	2	51410 †	51510 †
	1/8	1/2	1/4	2	51411	51511
	1/8	5/8	1/4	2-1/2	51445	_
	1/8	3/4	1/4	2-1/2	51446	_
	5/32	9/16	1/4	2	51447	51516
	3/16	3/8	3/16	2	51448	51518
	3/16	3/8	1/4	2	51449	_
	3/16	5/8	3/16	2	51412	51512
Ξ)	3/16	5/8	1/4	2	51417	51517
	3/16	5/8	1/4	2-1/2	51423	_
8	3/16	7/8	1/4	2-1/2	51442	_
	3/16	1-1/4	1/4	3	51418	_
(Al	7/32	3/4	1/4	2-1/2	51424	_
	1/4	3/8	1/4	2	51425	51519
	1/4	5/8	1/4	2	51419	_
	1/4	3/4	1/4	2	51404	51504
	1/4	3/4	1/4	2-1/2	51421	51524
	1/4	7/8	1/4	2-1/2	51444	
	1/4	1	1/4	2-1/2	51405	51505
	1/4	1-1/16	1/4	3	51409	<u></u>
t	1/4	1-1/4	1/4	3	51407	51507
L	1/4	1-3/8	1/4	3	51403	_
	1/4	1-1/2	1/4	3	51413	51513
	1/4	2-1/4	1/4	3-3/4	51646	_
te	3/8	5/8	3/8	2-1/2	51429	_
	3/8	3/4	3/8	3	51426	51509
	3/8	1-1/8	3/8	3	51414	51514
	3/8	1-5/8	3/8	3-1/2	51427	
	1/2	1-1/4	1/2	3	51645	51529
	1/2	1-3/8	1/2	3-1/2	51644	_
	1/2	1-5/8	1/2	3-1/2	51428	_
	1/2	2	1/2	4	51648	_
	† Router col	let reducer RE	3-102 (1/4 to	1/8) available f	or 1/8 shank bits.	

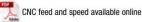
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	_ 1	164
CNC Sets		111
See page 28		Vanishing.



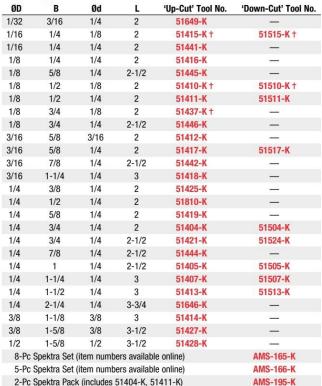


5-Packs Includes	Tool No.
51404-5 (5 Pcs. each)	51404-5
51405-5 (5 Pcs. each)	51405-5
51410-5 (5 Pcs. each)	51410-5
51411-5 (5 Pcs. each)	51411-5

5-Packs Includes	Tool No. New
51417-5 (5 Pcs. each)	51417-5
51446-5 (5 Pcs. each)	51446-5
51511-5 (5 Pcs. each)	51511-5













METRIC CNC PLASTIC CUTTING SPIRAL '0' FLUTE

Solid Carbide • Single Flute • Up-Cut & Down-Cut

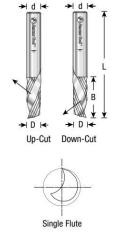
+ Router collet reducer RB-102 (1/4 to 1/8) available for 1/8 shank bits.

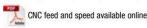
Produce super clean, smooth cuts in plastics. Metric sized.

							-			\sim	
				Up-Cut' 'D	own-Cut'					'Up-Cut' '	Down-C
ØD	В	Ød	L	Tool No.	Tool No.	ØD	В	Ød	L	Tool No.	Tool No
2mm	6mm	3mm	50mm	51634	_	5mm	16mm	6mm	64mm	57321	57332
2mm	8mm	2mm	50mm	57310	.—	5mm	30mm	5mm	64mm	57322	-
2mm	8mm	6mm	64mm	57311	_	6mm	8mm	6mm	64mm	57323	_
2.5mm	8mm	2.5mm	50mm	57312	_	6mm	12mm	6mm	64mm	57324	_
2.5mm	8mm	6mm	64mm	57313	 -	6mm	16mm	6mm	63mm	51638	_
3mm	8mm	3mm	50mm	57314	·—	6mm	20mm	6mm	64mm	51495	9-3
3mm	8mm	6mm	64mm	57315	_	6mm	30mm	6mm	75mm	51497	_
3mm	12mm	3mm	64mm	51491	-	6mm	30mm	6mm	76mm	_	57333
3mm	12mm	6mm	50mm	_	51526	6mm	32mm	6mm	75mm	_	51527
3mm	12mm	6mm	64mm	57316		6mm	38mm	6mm	75mm	51499	_
4mm	8mm	4mm	64mm	57317	-	8mm	25mm	8mm	64mm	57325	_
4mm	12mm	4mm	64mm	51636	-	8mm	38mm	8mm	76mm	57326	-
4mm	20mm	4mm	64mm	57318	_	10mm	30mm	10mm	76mm	57327	_
4mm	20mm	6mm	64mm	57319	57331	10mm	35mm	10mm	76mm	57328	_
4mm	30mm	4mm	64mm	57320	_	12mm	38mm	12mm	76mm	57329	_

51493





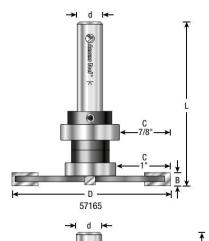


5mm 64mm

16mm

5mm

INDUSTRIAL SOLID SURFACE ROUTER BITS



CUT-OUT

Carbide Tipped • 4-Wing

Use for cutting out under-mount bowls, Surell,[®] Fountainhead[®] and other solid surface under-mount bowls. For Corian[®] bowls, must be used with a Corian[®] bowl template.



ØD	В	C	Ød	L	Tool No.
3	3/16	7/8 & 1	1/2	3-5/32	57165 🛕12
3-5/8	1/4	1	1/2	3-9/32	57166 🛕 12

Bearing	Spacer	Collar	Key	Tool No.
47745, 47747	55371	47739	5002	57165
47749	55363	47739	5002	57166

 $\textbf{Note:} \ \text{To achieve the best possible results use these bits with a variable speed router:}$

Minimum horsepower: 2-1/2 Speed: 12,000 RPM or less.

▲ Warning: Maximum RPM ▲12=12,000





— D — 57166

COUNTER-TOP TRIM

Carbide Tipped • 6-Wing

Create extra-smooth shallow recesses in counter-tops with this 6-wing tool. The radiused cutting tips produce an edge that's easy on the fingers and simple to clean. Use in a handheld router.







ØD	В	C	Ød	L	Tool No.
2-1/16	1/4	1/2	1/2	3-5/16	57136











COVE/BACKSPLASH

Carbide Tipped • 2 Flute with Ultra Glide™ Ball Bearing Guide

Radius the transition from horizontal counter-top surface to vertical backsplash with this bit. The cutting profile is a modified cove, having rounded corners separated by a flat. A shank-mounted Ultra-Glide™ bearing guides the cut.

Use in a handheld router.

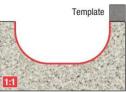
ØD	R	В	Ød	L	Tool No.
1-1/8	3/8	1/2	1/2	2-7/8	57232

Replacement parts: Ultra-Glide™ bearing #47737; Collar #47740.









DRAIN-BOARD

Carbide Tipped • 2 Flute

ØD

5/8

3/4

This bit is perfect for cutting custom drain-board patterns in solid surface materials, as well as wooden counter-tops and cutting boards. It produces a flat-bottomed groove with radiused corners. Use in a handheld router guided by a template, fence or edge guide.

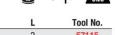
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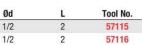
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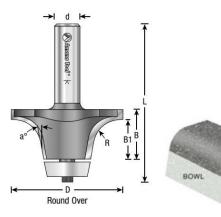
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1/2



INDUSTRIAL SOLID SURFACE ROUTER BITS

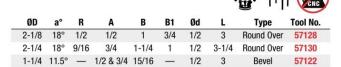




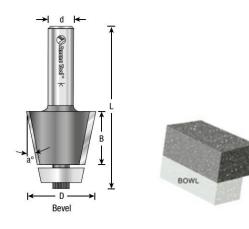
UNDERMOUNT BOWL

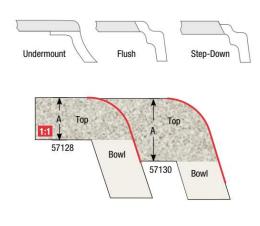
Carbide Tipped • 2 Flute with Ultra Glide™ Ball Bearing Guide

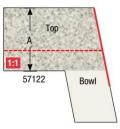
These bits prepare and/or finish counter-top edges in conjunction with undermount bowl installations. The round over and ogee bits trim and profile the counter-top edges after the bowl is mounted. The bevel bit trims the sink cut-out flush with an installed undermount bowl, but it also can be used with a template to prepare a sink cut-out for a bevel-mount bowl. All these tools can be used for undermount applications of Corian® sink and bowl #'s 802S, 804S, 805S, 809S & 871S.



Replacement Ultra-Glide™ bearing assembly #47726 (all tools). (Includes #5003 5/32" hex key and #67093 Allen screw).









UNDERMOUNT BOWL

Carbide Tipped • 2 Flute with Ultra Glide™ Ball Bearing Guide

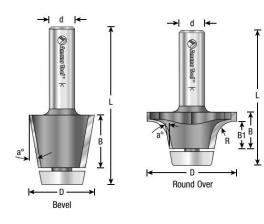
For Corian® Bowl #'s 874S, 810AS, 850, 857B, 859S, 871S, 872S, 891S & 893S

These bits are designed specifically for use in undermount installations of Corian® bowl #874-S. They trim and profile the counter-top edges after the bowl is mounted.

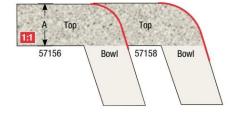


ØD	a°	R	Α	В	B1	Ød	L	Type	Tool No.
1-1/4	10°	_	1/2 or 3/4	1	_	1/2	3	Bevel	57168
1-25/32	17°	3/8	1/2	11/16	17/32	1/2	2-1/2	Round Over	57156
2	14°	1/2	1/2	11/16	17/32	1/2	2-1/2	Round Over	57158
2-1/8	17°	1/2	3/4	1	25/32	1/2	2-7/8	Round Over	57160

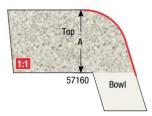
Replacement Ultra-Glide[™] bearing assembly #47731 (includes #5009 1/8" hex key and #67146 special flat head machine screw).

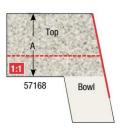






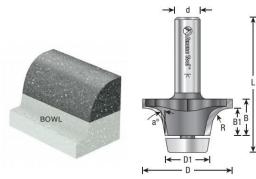


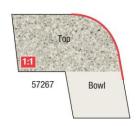


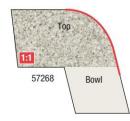


INDUSTRIAL SOLID SURFACE ROUTER BITS









UNDERMOUNT BOWL

Carbide Tipped • 2 Flute with Ultra Glide™ Ball Bearing Guide

These bits trim and profile the counter-top edges after the bowl is mounted. Each bit has a cutting draft with a bearing that matches, enabling the cutter to do more work so you have to do less.

10° Cutting Draft

Designed specifically for use in undermount installations of:

Gemstone Vanity #'s 1514-V0, 1812-V0, 1613-VS0, 1814-V0, 1814-EV0, 1313-V0, 1513-V0, 1711-V0

Gemstone Bar & Kitchen Sink #'s 1014-S, 1016-S, 1318-S, 1411-S, 1507-S, 1515-S, 1815-S, 1524-S, 1517-S, 1616-S, N1616-S, 1616-ES, 2116-US, 2015-S, 2318-S, 2416-ES, 2615-S, 2716-US, 2718-S, 2818-S, 2033-S, 2916-UD, 1729-D, 2917-D, 1930-DL, 1630-D, 3016-D, 3118-D, 3218-D

Livingstone Vanity #K-140G

Livingstone Kitchen Sink #'s K130-G, K140G, K160G

DuPont Kitchen Vanity #'s 810P, 8252, 8254, 850P

DuPont Kitchen Sink #850-P

Wilsonart® Vanity #'s BV1514, BV1812, BV1313, BV1711

Wilsonart® Kitchen Sink #'s BK2015, BK1515, BD1630, BD3016, BK2716US

Formica Vanity #L080

Formica Kitchen Sink #'s K080A, K250A







ØD	D1	a°	R	В	B1	Ød	L	Type	Tool No.
2-9/64	13/16	10°	33/64	63/64	25/32	1/2	2-25/32	Round Over	57267

Replacement parts: Ultra-Glide™ bearing for #47787; Screw #67146; Allen Key #5009.

14° Cutting Draft

Designed specifically for use in undermount installations of: Gemstone Vanity #'s 1410-V0, 1613-UV0, 1914-V0, 2114-V0

Livingstone Vanity #V130-G

Wilsonart® Vanity #'s BV1410, BV1613

Formica Vanity #'s L075, L100

Avonite Vanity #'s VS-1815, VS2015







ØD	D1	a°	R	В	B1	Ød	L	Type	Tool No.
2-3/16	55/64	14°	33/64	63/64	25/32	1/2	2-25/32	Round Over	57268

Replacement parts: Ultra-Glide™ bearing #47785; Screw #67146; Allen Key #5009.



KARRAN® STAINLESS STEEL SINK EDGE BITS

Carbide Tipped • 2 Flute with Ultra Glide™ Ball Bearing Guide

These bits are designed specifically for use for the Karran stainless steel Edge Sinks for laminate and 1/2" solid surface materials. They trim the counter-top edge after the bowl is mounted.

	ØD	Α	a°	В	Ød	L	Description	Tool No.	
ĺ	1-3/16	1/2 or 3/4	11.5°	1	1/2	3-1/8	Bevel	57169	Ī
	49/64	1/2 or 3/4	<u> </u>	1-1/2	1/2	3-1/2	Flush	57155	
	7/8	1/2 or 3/4	15°	7/8	1/4	2-1/4	Bevel	49409	
	2-3/8	1/2 or 3/4	45°	13/16	1/2	2-7/8	Bevel	57163	

^{*} For use on the Edge Series Sinks with solid surface countertops.

Replacement Ultra-Glide" bearing assembly #47733 (fits #57169 & #57155 and includes #5009 1/8" hex key and #67146 special flat head machine screw).

Steel ball bearing #47718 (fits #49409).

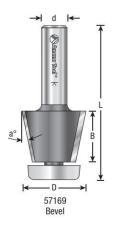
Ultra-Glide[™] bearing #47765 (fits #57163), Screw #67147.

Ultra-Glide™ bearing #47797, Screw #67147, Key #5009.

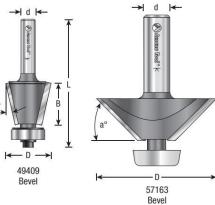




Laminate with Stainless Steel Sink







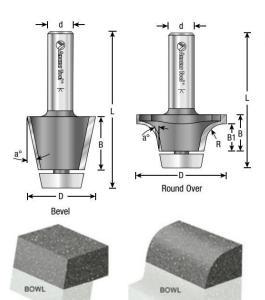


INDUSTRIAL SOLID SURFACE ROUTER BITS

253

*

Counter-ton



WILSONART® BOWL

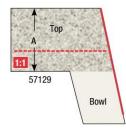
Carbide Tipped • 2 Flute with Ultra Glide™ Ball Bearing Guide

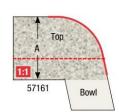
These bits, designed specifically for use with the Wilsonart® bowl, produce two different edge treatments - a bevel with a hard edge and a bevel with a rounded-over edge. Use with any handheld router; the Ultra-Glide™ bearing guides the cut.

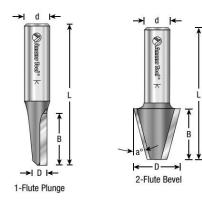


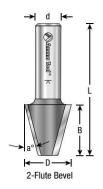
ØD	a°	R	Thickness(A)	В	B1	Ød	L	Type	Tool No.	
1-1/2	12°	_	1/2 to 1-1/4	1-1/4	_	1/2	3-1/16	Bevel	57129	Ī
2-3/8	12°	9/16	1/2 to 3/4	7/8	11/16	1/2	2-11/16	Round Over	57161	

Replacement Ultra-Glide™ bearing assembly #47732 (includes #5009 1/8" hex key and #67146 special flat bead machine screw).











TOP-MOUNT ROUTER EUROPEAN TYPE

Ød

1/2

1/2

Carbide Tipped • 2 Flute

15°

1:1 45302

ØD

3/8

29/32

For sink cut-outs and to prepare counter-top for top-mount installation of sink or bowl.

Among others, can be used for Corian® sink and bowl #'s 830A, 852RA, 852LA, and 854RA.

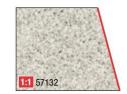




L	Туре	Tool No.
2-3/4	1-Flute Plunge	45302
2-1/2	2-Flute Bevel	57132

	A COLOR
100000000000000000000000000000000000000	

15/16





CHAMFER

Carbide Tipped • 2 Flute with Ultra-Glide™ Ball Bearing Guide Assembly

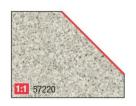
Chamfer bevel solid-surface edges with one of these two bits. These large bits must be run at reduced speed in a high-horsepower router.



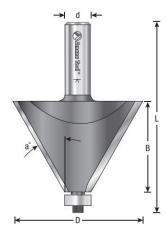
ØD	a°	В	Ød	L	Tool No.
2	45°	3/4	1/2	2-5/8	57220
2-17/32	30°	1-3/4	1/2	3-5/8	57258 🛕 12

Replacement Ultra-Glide™ bearing #47707.

▲ Warning: Maximum RPM ▲ 12 = 12,000







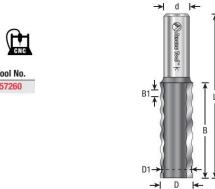
WAVY JOINT

Carbide Tipped • 2 Flute

Creates a solid joint in the material by adding a greater surface for glue.



ØD	ØD1	В	B1	Ød	L	Tool No.
5/8	37/64	1-13/16	1/8	1/2	3-1/8	57260

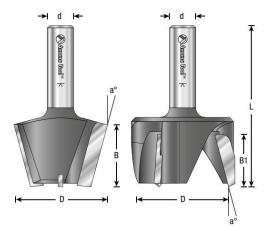








INDUSTRIAL SOLID SURFACE ROUTER BITS



2-PC TAPERED PLUG CUTTER REPAIR SET

Carbide Tipped

Special design to repair holes, gauges and defects on top of the materials.

This set was designed primarily for repairing solid surface materials. It can be used on wood as well if required.

The recommended RPM is to a degree dependent on the type of equipment and the stability of the setup when cutting.

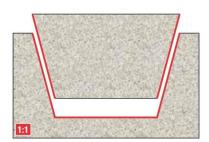
Using Plunging Router

The maximum speed for using this set is 10,000 RPM. It is important to work very slowly and steadily. We recommend securing the router with clamps so the machine is fixed firmly in place.

Using Drill Press

When working on a drill press we recommend speed of 2,000 to 3,000 RPM. Here it is important that the work is firmly clamped to ensure stability.

ØD	В	B1	a°	Ød	L	Tool No.
1-3/4	1-3/16	1	15°	1/2	3-1/16	55/13







Total Color Page Bearing Screw Scr	INDEX			Soat .						Callan Sat	Ö	
100 100		Page #	Bearing(s)	Set Screw		Dust Shield	Flat Washer	Lock Washer	Collar w/ Set Screw	Collar Set Screw Only	Snap Ring	Hex Nut
200	MR0100 to MR0114 BC-1000 to BC-1006	210 126	47775	=		Ξ	67129	=	Ξ	=	=	67135
200	RC-1008 RC-1014	132 132	47712	_	67115 (3) 67115 (3)	_			_	=	=	
1	RC-1230 RC-2000	124 125, 126	47706	67016 (2)		=	=	=		=	=	=
177 177	RC-2400 RC-3400	/	=	=		=	=	=		=	Ξ	=
1971 10	1C-45226 1C-45910 1C-47104	91, 1/1 141, 171	47701 47706	67012 (2)	_	=	=	=			=	=
1	RC-49104	157, 171 171, 190	47706	- (2)	67011	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	=
2. Series 1. Ser	RC-49355 RC-49360	192 192	_	67094	67094	=	67202 67202	=		=	=	=
4400 45064 12 12 12 0 47700	RC-49496, RC-49504 RC-54111	150, 171 164, 171	47706 47706	_	67011	_	=	=	=	=	=	=
14	14100 15360 to 45364	41	4//21		=	_	_	_	47739	_	_	67086
548.5	15460-S	122 124, 209	47701	-	=	_	=	=	47724	67091	=	_
\$486.5	15462-S	124	47712	_	=	=	=		47724	67091	=	=
\$4565	15464	122	47714	=	=	=	=	=	47739 47724	67091	=	=
128-98 94-40	15465	122	47721	-	=	_	=		47739 47730	67091		_
128-98 94-40	15467	122	47754 47729		=	_	=	=	47739 47740	67091	_	_
\$451.5	15469 to 45470	122, 189	47712	-	=	=	=	=	4/124	_	=	=
See	15475 15475-S	122 124	47751 (2) 47751 (2)	_	=	=	_	_	47764 47764	_	_	=
\$58.56.	15476, 45478, 45479 15481	189	47712 47701	_	_	_	_	_	47724	_	47752	_
\$487, \$491	15482 to 45483	122 124	47714	_	_	_	_	_	47724 47724	_		_
1985 1986	15487, 45491	122 122, 209	47714 47701	-	=	=	Ξ		4/124	67091	=	
15550, 45551	15489-S 15495	124	47701 47701	_	=	=	=	=	47724 47724	=	=	=
1555 119	15550, 45551	118	47738		=	=	=		47724		=	=
1885	15563	119	47721		=	=	=	=	47724 47739	67091		=
\$589.0	15567	119	47758	_	=	=	=	=	47740 47740	67091		=
15590	13584 15586		47701 47712 47714	_	=	=	=		47724 47724	67091 67091	=	=
16666 206 47716	15590	119	4//56	_	=	=	=	=	47740 47724	67091	Ξ	=
15674 209 47708	15669	209	47714	_	=	=	=	=	47724 47724	_	=	=
477.83	15674 15750, 45950	209 59	47708	_	=	=	=	=	47724 47724	=	=	=
1885 1885 1886 189	15788 15850	59 187	47738	=	=	=	=	=	47740 47724	=	=	=
1888	15852 15880 to 45882	187 189	47712	_	_	_	_	_	47739 47724	=	_	_
139 47788	15983	139	47701	-		_	=	_	47724 47724	67091	_	_
17.08 17.09	15992	139	47738		=	=	=	=	47740	67091	=	-
17.08 17.09	16300, 46304	130, 245	47706 (2) 47706 (2)	=	67096	67098	=	=	_	_	=	67086
47096 1710	17090 to 47092	125	4//23	=		67101	_	_		_	==	- 07000
14/100 to 14/103	17094	128	47706 (L) & 47701 47714 (L) & 47721	W =	67109		67101			_	=	=
77115, 47117, 47118, 47120	17100 to 47103	125	4//02	_	67096	67101 67098	67202	67124	_	-	1-	
47116, 47112, 47118, 47120	17115	127	47706 47702	_	67096	67101	67102		_	-	_	_
47124-2 to 47128-2	17116, 47117, 47118, 47120 17118-2	125	47706	_	67096	67098 67098	67202	_	_	-	_	_
14.13	17124 to 47129 17124-2 to 47128-2	127 127		, 	_		67202	=	=	7777	=	67118
47144 33 47706 67095 67100 67124 — — — — — — — — — — — — — — — — — — —	17131	127	4//06	=	67109	67098	67101	=	=	_	=	=
1716 0 47162	17144	125 33	47706	=	67096	67098	67202	=	=	_	=	=
47180	17160 to 47162	131	47706	=	- 67095	-	- 6/124	=	=	=	=	=
17200 to 47204	17180	127	47712	=		=	67101 67101	=	Ξ	=	=	=
17206	77192 to 47194 17200 to 47204	131		=	67096	67098 67098	67101 67202	Ξ	Ξ		Ξ	==
47300 to 47304	17206	132	47704 47706	_	67096	67100	6/082	=			=	=
49992 to 49119	17300 to 47304 17400, 47404	132 133	47716 47708	=	67096	67098	67202 67204	_		77.77	_	67088
19200 to 49206 159	19092 to 49119 19120 to 49122	157 157	47704 47706		67096	67098	67200 67202	_		-	_	=
19208 to 49214	19200 to 49206	159 159	47704 47706	1	67096 67096	67098 67098	67202 67202	-	_	_	-	_
19310 191 47706 — — — — — — — — — — — — — — — — — — —	19208 to 49214 19300 to 49302	155 190	47704 47706	_	67095	67100	6/200	_	_		_	_
94900 to 49402	19310 19340 to 49350	191, 195	see page	_	-	=	-	=	_		_	_
19405 147 47710 — 67093 — 67101 — — — — — — — — — — — — — — — — — —	19400 to 49402	147	47704		67095	67100	67202 67200	=	· -	-		_
	19405	147	47710	=	67093		67101				=	=
1941 4 0 494 10 495 10 495 10 495 10 47 477 10 579 5 670 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	19409	253	47718	Ξ	67096	67098	67101	_	_	-	_	_
49528 152 47706 & 47790 67011 — — — 67176 — 49529 152 47721 & 47792 — 67011 — — — — 67176 — 49530 220 47706 — 67096 67098 67101 — — — — 49532 220 291 47706 — 67096 67098 67101 — — — — 40634 290 294 47706 — 67096 67098 67101 — — —	19414 to 49416	147	4//06	_	67096	67098	67202	=	=			
19530	19528	152	47706 & 47790 47721 & 47792	7	67011	— —	— —	_	Ξ		67176 67176	Ξ
19534 220 224 47706 — 67096 67098 67101 — — — 9555, 4957, 49538, 49537, 49538, 49537, 495388, 49538, 49538, 49538, 49538, 49538, 49538, 49538,	19530	220	47706	_	67096	67098 67098	67101 67101	_	_	_	_	
19550 to 49554, 49556, 49558, 49560 182 47706 — 67096 67098 67202 — — — — — — — — — — — — — — — — — —	1053/	220, 224	47706	_	67096	67098	67101	_	_		_	
	9550 to 49554, 49556, 49558, 49560 19555, 49557, 49559, 49561, 49563	182 183	47706		67096		6/202	=			=	=



▲ Warning: Before use, read router bit safety guidelines on pages 276-278.

No.	Page #	Bearing(s) 47706	Set Screw	Screw 67096	Dust Shield 67098	Flat Washer 67202 67202	Lock Washer	Collar w/ Set Screw	Collar Set Screw Only	Snap Ring	He Nu
to 49622 0, 49664, 49674	151	47702 47702	=	67096 67096	67101 67101	67202 67202	=			Ξ	=
2, 49666, 49676 3, 49650, 49660, 49670 5, 49652, 49662, 49672	175, 238 175, 238 238 238	47701 47702	_	67096	67101	67202	=	47724	67091	=	_
	149	47701 47708	=	=	=	=	=	47724	67091 —	=	670
, 51422	10 10	47723 47723 (2) 47706	=	67134 67134	=	=	=	=		=	=
	10 33	47706 47723 (2)	_	67011	=	=	=		_	=	
, 51522	10 162	47723 (2) 47723 47716	=	67134 67096	67098	67202	=	=	_	=	_
to 51570	154 154	47706 47716	_	67096 67096	67098 67098	67202 67202	_		_		_
	154 162	47714 47712 (2)		67093 67096	67126		=		=		
	198, 234 199	47708 47708		-	=	67204	=		=	=	670
	156	47706	Ξ	67096	67098	67202	Ξ	=	=	=	-
to 54108), 54112, 54114	155 159	47706 47706		67096 67096	67098 67098	67101 67101	_	=	_	=	
	186, 189 221, 224	47706 47706	=	67096	67098	67101	=	=	_	=	_
, 54121	221 222	47706 47706	_	67096 67096	67098 67098	67202 67202	=	=	_	=	_
, 54122 to 54126	222 164	47706 47706	=	67096	67098	67202	=	=	_	=	_
, 5, 54130, 54132, 54134, 54135	159 156	47706 47706		67096 67096	67098 67098	67202 67202	=		_	=	_
, 01100, 01102, 01101, 01100	233 235	47706 47706	_	67096 500-10	67098	67101	=	-	_	_	-
5, 54138, 54140 to 54142	163	47706	_	67096	67098	67202	_	_		_	_
to 54150 to 54162	158 154	47706 47706	=	67096 67096	67098 67098	67202 67202	=	=	_	=	=
to 54172	154, 234 154	47706 47716	_	67096 67096	67098 67098	67202 67202	_	=	_	=	_
, 54175 to 54182	233 163	47706 47706	_	67096 67096	67098 67098	67101 67202	=	=	_	=	_
	166 166	47706	=	67096 67096	67098 67098	67202 67082	=	=	_	=	
, 54192	165 181	47716 47712 (2) 47702	=	67109 67096	=	67101	=	47724	67091	=	
, 54213, 54217	181 169	47706 47716	_	67096 67096	67103	67100 67202	_	_	_		-
to 54220	178 223	47706 47713, 47763	=	67096	67098	67202	=	=			670
to 54224	179	47706		67096	67098	67202	Ξ		_		_
	223 223	47713, 47763 47713, 47763	=	=	=	_	_	=	=	=	670 670
	179 237	47716 47776	=	67096 67090	67103	67202 67101	=	=	=	=	_
	184 175, 180	47706 47706	=	67096 67096	67098 67098	67202 67202	=			=	
	175, 180 184 222	47716 47706	=	67096 67096	67103 67098	67202 67101	=	=	_	=	-
	180 180	47712 47706	_	67096 67096	67103 67098	67202 67202	_		_	_	-
	156 169	47706	=	67096	67098 67098	67202 67202	=	=	=	=	_
	167	47716 47712 (2)	_	67096 67096	67098	67202	=	47724	_	=	-
to 54308	173 168	47706 47706	_	67014 67096	67098	67202	=	_	_	=	_
	167 167	47706 47712	=	67096 67096	67098 67103	67202 67202	=	==	=	=	
to 54332 to 54354	168 174	47701, 47706 47716	=	67096 67096	67098 67103	67202 67202	=	47724	=	=	_
to 55314	133 207	47727	=	=	_	67204	=	_	_	=	670 670
	206	47708, 47762 47708 47708	_	=	=	_	=	=	=	=	670 670
, 55370, 55380	206 217 232	47708 47759	=	=	=	=	=	=	=	=	670 670
	199	47736		_	=	=	=		=	_	670
, 55401 , 55408 , 55430, 55440	205 205	47708 (2) 47708	=	=	=	=	_	=	=	=	670
, 55431, 55441	216 215	47708 47708	=	=	=	=		=	=	=	670
	235 224	47708 47706	=	67096	67098	67101	Ξ	=	_	=	670
, 55433, 55436, 55437, 55438, 55439 , 55456	213 208	47708 47706	=	67096	=	67101		=	_	_	_
, 55462, 55464	219 203	47744(2) 47720 (2)	=	=	=	67125(2)		=	=	=	671
, 55510	203 196	47720, 47718 47738	=	=	=	=	Ξ	=		=	_
, 55510	33 143	47723 (2) 47708	=	=	=	=	_	=	=	47779 47748	=
	143 143	47734 47734	=	=	=	===	=	==	67001	47750	2
to 57120	143 241 250	47709	Ξ	67109		67101	=	=	67091 —	47750	
	249	47726 47707	_	67093 67096	67126	67101 67202	67101	=	=	_	_
	250 254 250 243	47726 47732	=	67093 67146	=	67101	_	=	=	_	_
57140	250 243	47726 47737	=	67093 67091	67126	67126	=	47740	67091	=	
, 57141 , 57149 to 57152	243 241	47707	=	67096	67098	67202 67202	=	=		=	=
, 57149 to 57152	243 244 244	47707 47707 47726	Ξ	67096 67096 67109 67146 67146 67146	67103	67202 67101	=	Ξ	Ξ	Ξ	=
	244	47726 47709	Ξ	67146	- -	67101	=	Ξ	Ξ	Ξ	-
, 57158, 57160	244, 253 251 244 254	47733 47731	_	67146	Ξ	67101 —	=	==	_	Ξ	=
	244 254	47777 47732	=	67146	_	=	=	=	Ξ	-	=
, 37 130, 37 160	253 248	47765 47745, 47747	=	=	=	55371	Ξ	47739	=	=	
	248 251	47749 47731	=	67146	=	55363	=	47739			
	253 242	47733 47774	=	67146 67146	=	=	=	=	=	Ξ	_
to 57186	125, 245	47714	, =	67109	67116	=	67128	_	Ξ	=	=
	152, 242	47767) =	67109	=	67101	=	47740 —	=	=	=
	152, 242 152, 242	47765 47745, 47747 47749 47731 47733 47774 47714 47714 & 47721 47769 47769 47769 47767 47769 47707	=	67109 67109	=	67101 67101	Ξ	=	=	=	-
	255 249	47707 47737	=	67096	=	67202	_	47740	_	_	_
	256 256		==	67109 67096	67116	67101 67101	Ξ	=	Ξ	Ξ	Ξ
	256 255 255 255 252	47709 47707 47787	Ξ	67109	Ξ	67101 67082	Ξ	Ξ	==	Ξ	Ξ
	200	47707		67096		- 07002 	_		_		

▲ Warning: Before use, read router bit safety guidelines on pages 276-278.

INDUSTRIAL REPLACEMENT PARTS & ACCESORIES 259

STEEL BALL BEARING GUIDES

Amana Tool® uses only the finest industrial quality precision ball bearings available. Bearings are double steel-shielded for extra rigidity and to inhibit dust. A special high-performance, high-temperature grease is used for maximum life.

Bearing #'s 47701-HP, 47706-HP and 47712-HP have Teflon® shields which provide a better seal and increased bearing life while routing materials that generate very fine dust particles (such as solid surface).

Note: Solvents should not be used to clean ball bearings, as this will deteriorate the special grease. 'Frozen' bearings (ones that do not rotate freely), should be replaced immediately.





○○○R

Fractional Listed By Size/Steel Shields & New Teflon® Shields

Application	Ød	ØD	В	Tool No.
47090, 47092, 51436 1/4" Diameter Trim Bits	1/8	1/4	.110 (7/64)	47723
47206, 49400, 49402, Smaller Cove Bits, Several Types Of Form Bits,	1/8	3/8	.155 (5/32)	47704
Old Style 3/8" Diameter Trim Bits, New 'No-File' Trim Bits				
Old Style 1/2" Diameter Flush Trim Bits	1/8	1/2	.171 (11/64)	47700
	3/16	5/16	.124 (1/8)	47789
3/8" Diameter Flush Trim, All Beading Bits, (49300/49302), 49340, 49350, 49540, 49542, 49550, Many Types Of Form Bits	3/16	3/8	.124 (1/8)	47702
Our Most Popular Bearing – Fits 1/2" Diameter Flush Trim, Some Bevel Trim, All Corner Rounds, Raised Panel, Rabbet, Ovolo, Many Types Of Form Bits, 51570, 54160, 54162, 54198, 54370, New Style 54200 & 54220 (After 12/95)	3/16	1/2	.195 (3/16)	47706
With Teflon® Dust Shields Used As A Substitute For 47706 (See Above) For Fine Dust Conditions	3/16	1/2	.195 (3/16)	47706-HI
New Undersized 1/2" Diameter Bearing For Use After Resharpening – Fits All Tools Such As Flush Trims, Corner Rounds, Etc., That Use The Standard 47706 Bearing	3/16	.490	.195 (3/16)	47715
Overhang' Bits, 49340, 49350 (49300/49302), 55343	3/16	5/8	.195 (3/16)	47718
49300/49302), 49340, 49350, RC-4950	3/16	3/4	.280 (9/32)	47720
9340, 49350 For 1/4" Rabbet	3/16	7/8	.196 (3/16)	47719
	3/16	1	.196 (3/16)	47773
9340, 49350 For 1/8" Rabbet	3/16	1-1/8	.312 (5/16)	47743
5475, 45475-S	1/4	3/8	.124 (1/8)	47751
5460, 45461, 45750, 45850, 45950, 57100, 57106, 57112, RC-1014.	1/4	1/2	.186 (3/16)	47701
With Teflon® Dust Shields Used As A Substitute For 47701 (See Above) For Fine Dust Conditions	1/4	1/2	.186 (3/16)	47701-HI
15474-S	1/4	9/16	.236 (15/64)	47753
15462, 45476, 45478, 45479, 45809, 45811, 47180, 51530, 51532, 51534, 64188, 54190, 54192, 54194, 54296, 54324, 54350, 54352, 54354, 54356, 67100, 57106, 57112, 'RC' Series Bevel Trim Bits	1/4	5/8	.195 (3/16)	47712
Vith Teflon® Dust Shields Used As A Substitute For 47712 (See Above) for Fine Dust Conditions.	1/4	5/8	.195 (3/16)	47712-Н
15464, 45988, 47140, 47182, 47184, 51574, 51576, 57100, 57106, 57112, old Style 57118, 57120	1/4	3/4	.280 (9/32)	47714
9405	1/4	1	.344 (11/32)	47710
5360	5/16	3/4	.280 (9/32)	47759
/2" Depth Of Cut Slotting Assemblies, All Stile & Rail, 49730, 49770, 53610 55400, 55401, 56148, 55340	5/16	.865 (7/8)	.275 (9/32)	47708
lew Raised Panel With Back Cutter 54221, 54227, 54229	5/16	1-1/4	.196	47763
5320, 55330, 55325	5/16	1.319 (1-5/16)	.335 (21/64)	47762
5884	3/8	7/8	7mm	47741
5463, 45465, 45990	1/2	3/4	.156 (5/32)	47721
5463	1/2	7/8	5mm	47830
5468, 45789, 45992, 51590, 57142, 57144, 57138 & 57140	1/2	1-1/8	.312 (5/16)	47738
7165	1/2	1	5.7mm	47745
57165	1/2	1-1/4	5.7mm	47747
57166	1/2	1-1/2 .	466mm (15/32	47749
27 100	1/2	1-1/2 .	400111111 (13/32	41140

Note: Fractional size specifications shown in parentheses () are approximate, and are provided for reference purposes only. Tool numbers shown in parentheses () exhibit optional (not standard) bearings for these tools.



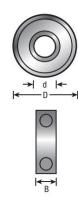


▲ Warning: Before use, read router bit safety guidelines on pages 276-278.

STEEL BALL BEARING GUIDES

Metric Listed By Size/Steel Shields

Application	Ød	ØD	В	Tool No.
New Miniature Router Bits	4mm	8mm	3mm(7/64)	47703
47193	5mm	10mm	4mm(5/32)	47794
47191	5mm	11mm	4mm(5/32)	47795
Old Style (Prior To 12/95) 54200, 54220 - For New Style (After 12/95) Use 47706	5mm	13mm	4mm(5/32)	47705
47300, 47302, 51572, 54164 Through 54172, 54215,	5mm	16mm	5mm(3/16)	47716
54217, 54268, 54269, 54294, 57188, RC-4952, RC-4954, RC-4956				
'RC' Series Flush Trim Bits	6mm	19mm	6mm(15/64)	47711
New Raised Panel With Back Cutter 54221, 54227, 54229	8mm	16mm	5mm(3/16)	47713
TRS-310 (Timberline®)	8mm	1	1/4	47770
55392	8mm	28mm	9mm(23/64)	47736
TRS-310 (Timberline®)	8mm	1-1/8	1/4	47771
TRS-310 (Timberline®)	8mm	1-3/8	1/4	47772
45466	10mm	26mm	8mm(5/16)	47722
56140, 56150	15mm	35mm	11mm(7/16)	47734
45467	15mm	1	.218 (7/32)	47754
45469	15mm	1-1/4	.343 (11/32)	47756
45470	15mm	1-1/2	.343 (11/32)	47758
TRS-310 (Timberline®)	15mm	2	13mm	47760
47174	6mm	22mm	7mm	47798



Note: Fractional size specifications shown in parentheses () are approximate, and are provided for reference purposes only. Tool numbers shown in parentheses () exhibit optional (not standard) bearings for these tools.

EURO™ SQUARE BEARING

Will Not Scratch or Mark Laminates with Matt or High Gloss Finish

- Can be mounted to any 1/2" diameter Amana Tool® flush trimmer.
- . Manufactured with non-stick Teflon.

Description

Ø I.D. x Ø O.D.	'B' Bearing Thickness	For Tool	Tool No.
3/16 x 1/2	.223	47147	SQB100
3/16 x 3/4	.273	47148 & 47149	SQB102

Note: Solvents should not be used to clean ball bearings, as this will deteriorate the special grease. 'Frozen' bearings (ones that do not rotate freely), should be replaced immediately.



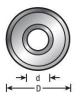




20 PC. REPLACEMENT BEARING KIT

This 20 piece replacement bearing kit contains the most popular bearings to fit our most popular router bits.

20 Piece Replacement E	searing Kit		0004
ncludes the following size	zes:		
Ø I.D. x Ø O.D.	'B' Bearing Thickness	Qty.	Tool No.
1/8 x 1/4	.110 (7/64)	2	47723
1/8 x 3/8	.155 (5/32)	3	47704
3/16 x 3/8	.124 (1/8)	5	47702
3/16 x 1/2	.195 (3/16)	5	47706
1/4 x 1/2	.186 (3/16)	3	47701
1/2 x 3/4	.156 (5/32)	2	47721



Tool No.



6004 includes plastic storage box.

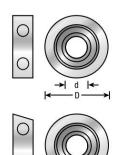


▲ Warning: Before use, read router bit safety guidelines on pages 276-278.



INDUSTRIAL REPLACEMENT PARTS & ACCESORIES







Using the same quality standards as our regular steel bearings, these Ultra-Glide[™] bearing assemblies feature satin-smooth Delrin[®] sleeves. Delrin[®] is an industrial synthetic plastic material similar to nylon, and will leave no marks on the material being cut. Applications include solid-surface materials such as Gibraltar,[®] Corian,[®] Surell[®] & Fountainhead.[®] etc.; Plexiglas[®] & other clear acrylics, including plastic laminates. Not recommended for regular wood applications due to a higher wear factor. Product #'s 47709, 47725, 47726, 47731 & 47733 now include new Teflon[®] dust shields. These bearings provide a better seal to increase bearing life while routing materials that generate very fine dust particles (such as solid surface).

Application	Ød	ØD	a°/R	Tool No.
1/2" Diameter Flush Trim, Corner Rounds, Etc. All Tools That Accept Our Regular #47706 Steel Bea	3/16 ring	.500 (1/2)	-0-	47707
47140, 57154 Trim Bits And New Style 57118, 57120, 57257	1/4	.750 (3/4)	-0-	47709 *
Slot Cutter Assemblies: 1/4" Depth Of Cut, 53610	5/16	1.382 (1-3/8)	-0-	47727
Slot Cutter Assemblies: 3/8" Depth Of Cut, 53610	5/16	1.137 (1-9/64)	-0-	47728
Set Of Two Above: 47727 & 47728	5/16		-0-	47729
Old Style 57122 Bevel Bit With 31/32" Large Diameter	1/4	.965 (31/32)	10°	47725 *
New Style 57122, Other 'Solid-Surface' Type Bits	1/4	.866 (7/8)	10°	47726 *
57156 Through 57168 Bowl Bits Only	1/4	.866 (7/8)	10°	47731 *
57129 And 57161	1/4	1	12°	47732 *
New Bowl Bits	1/4	1	5°	47733 *
57138, 57140	15mm	1.125 (1-1/8)	-0-	47737
57163	1/4	15/16	21°	47765
57191	1/4	61/64	3/8	47766
57190	1/4	27/32	1/2	47767
57192	1/4	3/4	3/4	47768
57194	1/4	3/4	1	47769
57269	1/4	13/16	18°	47788
57268	1/4	55/64	14°	47785
57267	1/4	7/8	10°	47787

Note: Outside dimensions are approximate and are given for reference purposes only.



STEEL DUST SHIELDS

Application: Used between ball bearing and router bit to inhibit dust. 'Cone-shaped' end always faces the bearing.

Diameters 'd' Inside x 'D' Outside	Use with Bearing #	Tool No.
3/16 X 1/2	47700, 47701, 47706, 47712, 47714, 47718, 47720	67098
1/8 X 3/8	47704	67100
5mm X 16mm	47716	67103
1/4 X 5/8	47712 (Solid Surface Bowl Bits Only)	67116
3/16 X 5/8	47712 (Solid Surface Bowl Bits Only)	67126

262



▲ Warning: Before use, read router bit safety guidelines on pages 276-278.

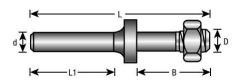
^{*} Includes new Teflon® dust shields.

ROUTER ARBORS

With Hex Nut And Washers

Application	ØD	Ød	L1	В	L	Tool No.	
2 & 3-Wing Slotting Assemblies,	5/16-24 NF	1/4	1-1/4	7/8	2-3/8	47600	
2 & 3-Wing Slotting Assemblies,	5/16-24 NF	6mm	1-1/4	7/8	2-3/8	47600M	† Nev
2 & 3-Wing Slotting Assemblies,	5/16-24 NF	1/4	1-1/4	7/8	2-3/8	47601	New
Assemblies, and Single	5/16-24 NF	3/8	1-1/4	7/8	2-3/8	47602	
4-Wing Trim Cutter Assemblies	5/16-24 NF	1/2	1-1/2	7/8	2-3/8	47604	
4-Wing Trim Cutter Assemblies	5/16-24 NF	1/2	1-3/8	1	2-3/8	47605	† New
Double Trim Cutters, Rail & Stile, 53600, 55300, 55320, 55325, 55330, 55400 (Replaces 55360 A	5/16-24 NF rbor)	1/2	1-1/2	1-3/8	3-1/8	47612	
49730, 49770	5/16-24 NF	1/2	1-7/16	2-9/16	4-3/16	47618	
55340, 55392	5/16-24 NF	1/2	1-3/8	2-1/8	3-3/4	47620	
55420, 55430, 55440	5/16-24 NF	1/2	1-5/16	1-3/4	3-5/16	47622	
General Purpose	1/4-28 NF	1/4	1-1/4	7/8	2-3/8	47610	
Screw Type Mortising Bits 55250 Through 55258	1/4-28 NF	1/4	1-7/16	1/4	1-13/16	47611	*
Screw Type Mortising Bits 55250 Through 55258	1/4-28 NF	1/2	1-3/4	1/4	1-1/2	47614	*





HEX NUTS FOR ROUTER ARBORS

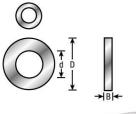
Application	Description	Tool No.
46300, 46304 Spiral Trim Bits	10-32 NF	67086
All Arbors With 5/16-24 NF Thread	5/16-24 NF	67088
47610 Arbor, "Nova"	1/4-28 NF	67089
47124-2, 47126-2, 47128-2 Trim Bits	5mm X .8mm (10-32)	67118
55460, 55462, 55464	12mm X 1.75mm	67131



STEEL FLAT WASHERS

Application: Used between ball bearing & screw head or hex nut. Part No. 67101 is used in place of a dust shield on beading bits #'s 49592 through 49622.

Diameters 'd' Inside x 'D' Outside x 'B' Thick	Use with Bearing #	Use with Screw #	Tool No.
3/16 x 5/16 x 1.0mm	47702	67094, 69096	67101
12mm X 18.7mm x 7/64	47744	55460, 55462, 55464	67125
1/4 x 3/8 x 1.5mm	47701	'Face Inlay' Spacer	67132
3/32 x 1/4 x 1.0mm	47704	67095	67200
1/8 x 5/16 x 1.0mm	47706	67094, 67096	67202
5/16 x 1/2 x 1.6mm	47708	5/16 Thread Arbors (For Slot Cutters)	67204
1/4 x .356 x 2.2mm	47701	'Superabbet' Spacer	67206
1/4 x 15/32 x 3/64	47701	46300, 46304, 46400, 46404, 51432	67053

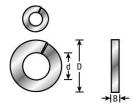




STEEL SPLIT LOCK WASHERS

Application: Used between ball bearing & screw head or hex nut to serve as a lock washer.

Diameters	
'd' Inside x 'D' Outside x 'B' Thick	Tool No.
1/8 x 1/4 x 1.0mm	67082
1/8 x 1/4 x 1.0mm	67111
12mm x 18.7mm x 1.3mm	67128



▲ Warning: Before use, read router bit safety guidelines on pages 276-278.



INDUSTRIAL REPLACEMENT PARTS & ACCESORIES 263

^{*} Due to application, these arbors are not furnished with hex nut or washers.

^{† 47601} and 47605 includes router arbor with hex nut, washers and ball bearing.



STEEL SPACERS

Application: General purpose arbor spacers used on assembly type tools that require cutter

Diameters: 'd' Inside x 'D' Outside	'B' Face Width	Tool No.
5/16 x 5/8	3.0mm(1/8)	55366
5/16 x 5/8	3.4mm(9/64)	55367
5/16 x 5/8	6.0mm(1/4)	55368
5/16 x 5/8	5.5mm(7/32)	55369
1/2 x 3/4	6.0mm(1/4)	55363

STEEL SHIMS

Application: General purpose arbor shims used on assembly type tools that require cutter adjustment. Particularly useful after tool re-sharpening.





Snap Rings

BALL BEARING RETAINING COLLARS AND SNAP RINGS

Application: To retain bearings on tools furnished with upper ball bearing guides. Collars

Diameters: 'd' Inside x 'D' Outside	Used On Tool No. ('s)	Tool No.
.22 x .079	51436	47779
.289 x .375	56130, 56148, 49150, 49152, 49154	47748
542 x 675	56140 56150	47750



Diameters 'd' Inside x 'D' Outside	Face Thickness	Used On Tool No.('s)	Tool No.
1/4 x 7/16	.203 (13/64)	45460, 45461, 45462, 45464, 45750, 45850, 45950, 45988, 54190, 54192, 54194	47724
3/8 x 5/8	.203 (13/64)	45466	47730
1/2 x 23/32	.234 (15/64)	45463, 45465, 45467, 45991	47739
1/2 x 25/32	.234 (15/64)	45468, 45469, 45470, 45990, 45992, 51592	47740
6.3mm x 9.5mm	1/4	45475, 45475S	47764





▲ Warning: Before use, read router bit safety guidelines on pages 276-278.

ALLEN-TYPE SET SCREWS FLAT (FP) AND CUP-POINT (CP) Case Hardened • Black-Oxide Finish

Application	Description	Use With Key Size	Tool No.
Boring Bits	5mm x .8mm (FP)	S/D Slotted*	67007*
Rosette Cutterheads	6mm x 1.0mm (FP)	3mm (#5008)	67008
RC-3100	3 x 4mm Special (FP)	1.5mm (#5000)	67015
RC-3200 & 3110	3 x 5mm Special (FP)	1.5mm (#5000)	67016
RC-3204 & 3307	3 x 6mm Special (FP)	1.5mm (#5000)	67017
Metric Countersinks (6mm to 12mm)	6mm x 1.0mm (CP)	3.0mm (#5004)	67079
#55 Countersinks With 1 Screw	6mm x 1.0mm (FP)	3.0mm (#5004)	67083
Metric Countersinks (5mm Only)	5mm x .8mm (CP)	2.5mm (#5007)	67087
47724-47752 Collars	#5-40 NC (CP)	1/16 (#5002)	67091
#55 Countersinks With 2 Screws	#10-24 NC (CP)	3/32 (#5000)	67092
Metric Chucks	5mm x .8mm (FP)	2.5mm (#5007)	67097

^{* #67007} Boring bit adjustment screw is screwdriver slotted.





SOCKET HEAD ALLEN TYPE, HEX, FLAT, TORX® AND PHILLIPS® RETAINING SCREWS

Case Hardened . Black Oxide Finish

Application	Type	Description	Use With Key Size	Tool No.
RC-2000	Allen	3.5 x 6mm	2.5mm (#5007)	67018
RC-3400	Torx®	5mm x 8.5mm		67057
'Mini' Bits	Allen	3 x .5 x 10mm	2.5mm (#5007)	67080
20200 Adj. C/S	Allen	4 x .7mm x 12mm	3mm (#5004)	67090
Multi-Use	Allen	#10-32 x 3/8 NF	5/32 (#5003)	67093
Multi-Use	Allen	#5-40 x 1/2 NC	3/32 (#5000)	67094
Multi-Use	Allen	#3-48 x 3/8 NC	5/64 (#5001)	67095
Multi-Use	Allen	#5-40 x 3/8 NC	3/32 (#5000)	67096
Multi-Use	Allen	#10-32 x 1/2 NF	5/32 (#5003)	67109
Torx® Screw				
For Insert Trim & Plunge Bits	Torx®	4 X .7mm x 5mm	#T-15 (#5005)	67115
Torx® Screw				
For Insert Plunge Bits	Torx®	3.5 X .6mm x 5mm	n #T-15 (#5005)	67117
47090 & 47092 1/4 Trim Bits	Phillips®	#2-56 x 7/32 NC	#0 Phillips®	67134
Special	Allen	#10-32 x 3/8 NF	1/8 (#5009)	67146
Insert Flush Trim	Torx®	4mm x 12mm	#T-15 (#5005)	67176
In-Tech™ Bits	Hex	#3-48 x 3/8 NC	5/64 (#5001)	67013
In-Tech™ Bits	Flat	-		67099
RC-1028 & RC-1130	Torx®	4mm x 6mm	<u></u>	67110



PORTER-CABLE ROUTER COLLET ASSEMBLY

Replacement Collet for Porter-Cable 690 and 890 Series Routers.

For Shank	Comparable to Portercable #	Tool No.
1/4	42999	CO-132
1/2	42950	CO-136





▲ Warning: Before use, read router bit safety guidelines on pages 276-278.



INDUSTRIAL REPLACEMENT PARTS & ACCESORIES 265





ALLEN-TYPE HEX AND TORX® KEYS SHORT ARM

Case Hardened • Black Oxide Finish



			key Screw	
Use With Application	Type	Size	#(s)	Tool No.
Multi-Use	Allen	3/32	67094,67096	5000
Insert Plunge	Allen	5/64 (2mm)	67095	5001
47724-47730, 47739 Collars	Allen	1/16	67091	5002
Helix Trim & Bowl Bit	Allen	5/32	67093,67109	5003
20200 Adj. C/S	Allen	3mm	67090	5004
Metric C/S & Chucks	Allen	2.5mm	67087,67097	5007
Solid Surface Bits	Allen	1/8	67109	5009
Insert Cutterheads	Allen	3mm	67142	5012
New Insert Bits RC-2000 & RC-3000 Series	Allen	1.5mm	67015,67016, 67017	5011
Profile Pro™ Cutterheads	Allen	4mm	67144	5010
Nova System™ Router Bits	Torx®	#T-20	67154	5015
61288, 61292	Torx®	#T-25	67154	5025



TORX® AND ALLEN KEY

Case Hardened . Black-Oxide Finish

		Use With			
Application	Type	Key Size	Screw #	Tool No.	
'RC' Series Insert Trim Bits	Torx®	#T-15	67115	5005	
61218	Torx®	#T-10	67117	5018	
Insert Cutterheads	Torx®	#T-9	67160	5090	
Rosette Cutterheads - Hex Key	Allen	3mm	67008	5008	



HEX KEY / 'T'- HANDLE

Case Hardened • Black-Oxide Finish

			Use With	
Application	Type	Key Size	Screw #	Tool No.
Insert Cutterheads-T Handle	Allen	2.5mm	_	5013
Insert Cutterheads-T Handle	Allen	4mm	67144	5014



WRENCH HANDLE

Case Hardened • Black-Oxide Finish

Application	Tool No.
EZ Dial™ Slot Cutters	5017
Nova System	5015

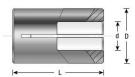




▲ Warning: Before use, read router bit safety guidelines on pages 276-278.

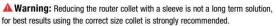
HIGH PRECISION STEEL ROUTER COLLET REDUCERS













Ød	L	Tool No.
6mm	1-1/4	RB-113
1/4	1	RB-116
1/4	1-3/16	RB-128 New
5/16	1	RB-119
8mm	1	RB-118
9mm	1	RB-105 New
3/8	1-3/16	RB-122
10mm	1	RB-120
1/8	1	RB-130
6mm	1-1/4	RB-131
1/4	1-1/4	RB-132
5/16	1-1/4	RB-134
8mm	1-1/4	RB-135
3/8	1-1/4	RB-136
10mm	1-1/4	RB-138
12mm	1-1/4	RB-137
1/2	1-1/4	RB-139
	6mm 1/4 1/4 5/16 8mm 9mm 3/8 10mm 1/8 6mm 1/4 5/16 8mm 3/8 10mm 1/4 5/16 8mm 3/8 10mm	6mm 1-1/4 1/4 1 1-3/16 5/16 1 8mm 1 9mm 1 3/8 1-3/16 10mm 1 1/8 1 6mm 1-1/4 1/4 1-1/4 5/16 1-1/4 8mm 1-1/4 3/8 1-1/4 10mm 1-1/4 10mm 1-1/4

10 PIECE BRASS TEMPLATE GUIDE SET

Designed to fit into the router sub-base and guide the router through curved and complex shapes. Must be used with a template offset to accommodate the bushing diameter.

Description	Tool No.
10 Piece Template Guide Set	BTG-100
emplate Guide Set Includes:	
I.D.	0.D.
1/4	5/16
9/32	3/8
11/32	7/16
13/32	1/2
17/32	5/8
21/32	3/4
5/8	51/64
Adapter	
Lock Nut	



BRASS INLAY BUSHING

Includes both 3/16" & 9/16" O.D. for 1:1 ratio. Threaded lock collar included. Use #46200 1/8" down-cut spiral (not included).

Description	Tool No.
Inlay Bushing	BTG-200



▲ Warning: Before use, read router bit safety guidelines on pages 276-278.



REPLACEMENT PARTS & ACCESORIES

INDUSTRIAL

Insert Knives

Solid Carbide



STRAIGHT SOLID CARBIDE INSERT KNIVES

New grades now available for different material types such as softwood/hardwood, MDF/solid surface and micro-finish for general purpose. All knives have a 35° bevel, except the micro finish 'MF' series which has a 45° bevel.

12 x 12 x 1.5mm - 4 Cutting Edges

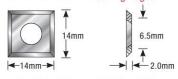




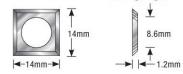
12 x 12 x 1.5mm - 4 Cutting Edges



14 x 14 x 2mm - 4 Cutting Edges



14 x 14 x 1.2mm - 4 Cutting Edges



	'G' 35°	'S' 35°	'S' 35°	'H' 35°	'MF' 45°
Tool	Gen. Purpose Wood,	Solid Wood	Softwood/	MDF, Chipboard,	Micro-finish
Application	Chipboard, Plywood	DLC Coated*	Hardwood	Solid Surface	Gen. Purpose

Insert Trim Bits	Tool #	Tool #	Tool #	Tool #	Tool #
RC-1000, RC-1008,	AMA-12	AMA-12-DLC*	SMA-12	HMA-12	MFA-12
RC-1010, RC-1014,					
RC-1024, RC-2241,					
RC-2242, RC-2243,					
RC-2245, RC-2257, R	RC-2258				

Insert Trim Bits	Tool #	_	_	_	_
RC-2242	RCK-344				

Insert Cutterhead	Tool #	Tool #	Tool #	Tool #	_
61292, 61340,	RCK-70	RCK-70-DLC*	SCK-70	HCK-70	
61360, 61362,					
61460, 61462,					
61470, 61472,					
61480, 61482					

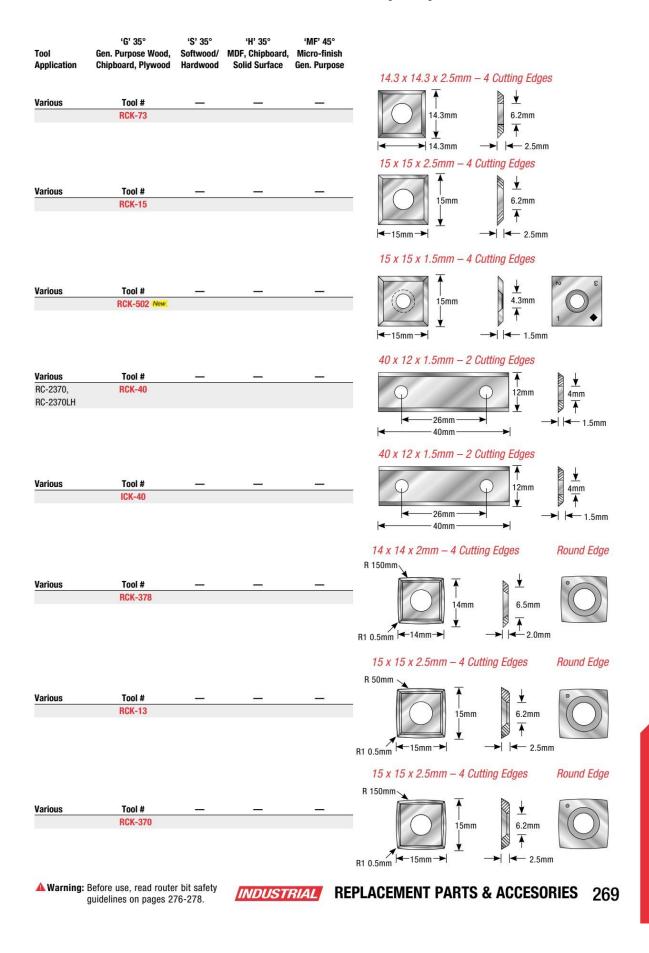
Tool #	_	_	_
RCK-71-DL	.C* New		

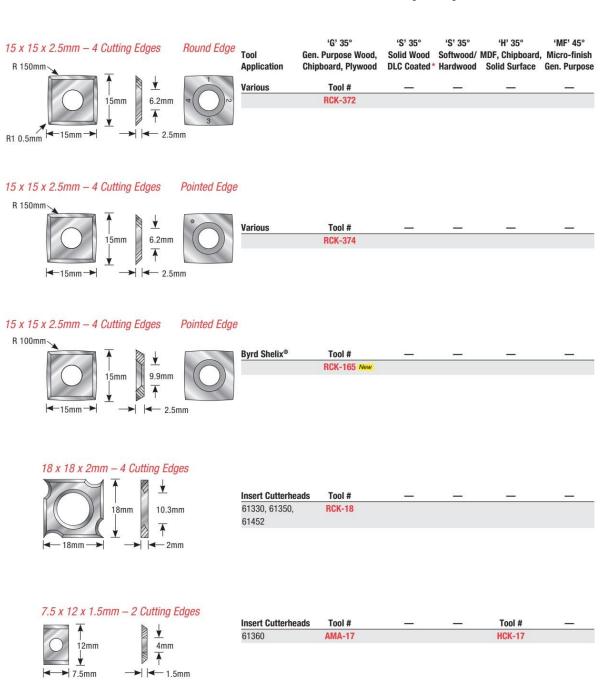
^{*} Diamond-Like Carbon (DLC)

268

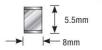


▲ Warning: Before use, read router bit safety guidelines on pages 276-278.





8 x 5.5 x 1.1mm - 2 Cutting Edges

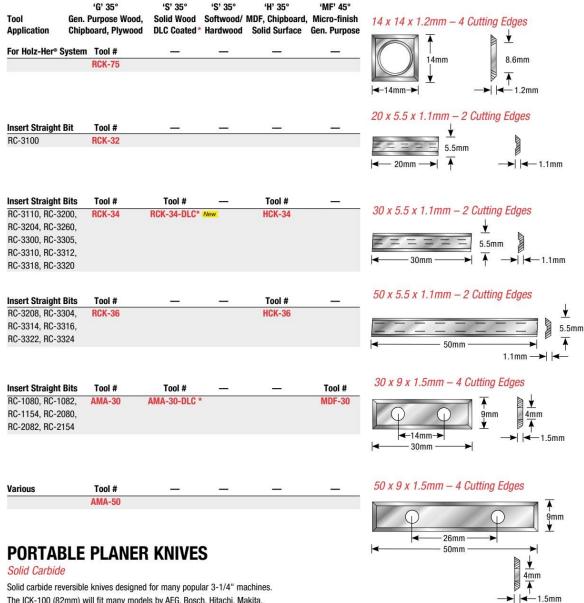


Use on RC-2000	Tool #	Tool #	_	_	_
	RCK-8	RCK-8-DLC * New			

^{*} Diamond-Like Carbon (DLC)



▲ Warning: Before use, read router bit safety guidelines on pages 276-278.



The ICK-100 (82mm) will fit many models by AEG, Bosch, Hitachi, Makita, Metabo, Ryobi, Skil, etc.

The ICK-200 (82.7mm) will fit many models by Black & Decker. Includes one pair of 2-sided (reversible) knives.

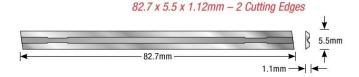
Portable Planer	Tool #
AEG, Bosch	ICK-100
Hitachi, Makita,	
Metabo, Ryobi, Skil	

Portable Planer	Tool #
Black & Decker	ICK-200

* Diamond-Like Carbon (DLC)

5.5mm 1.12mm →

82 x 5.5 x 1.12mm - 2 Cutting Edges



▲ Warning: Before use, read router bit safety guidelines on pages 276-278.

INDUSTRIAL

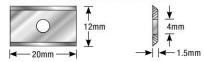
REPLACEMENT PARTS & ACCESORIES 271

15 x 12 x 1.5mm - 2 Cutting Edges



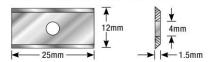
'G' 35° 'S' 35° 'S' 35° 'H' 35° 'MF' 45° Solid Wood Softwood/ MDF, Chipboard, Micro-finish Tool Gen. Purpose Wood, **Application** Chipboard, Plywood DLC Coated * Hardwood Solid Surface Gen. Purpose **Insert Cutterheads** Tool # Tool # 61342, 61362, ICK-15 HCK-15 61386

20 x 12 x 1.5mm - 2 Cutting Edges



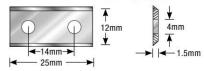
Insert Cutterhead	Tool #	_	Tool #	Tool #	_
61388	ICK-20		SCK-20	HCK-20	

25 x 12 x 1.5mm - 2 Cutting Edges





25 x 12 x 1.5mm - 2 Cutting Edges



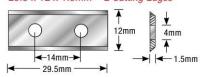


10.5 x 10.5 x 1.5mm - 4 Cutting Edges



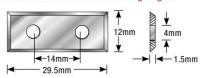


29.5 x 12 x 1.5mm - 2 Cutting Edges



Insert Trim Bits	Tool #	Tool #	Tool #	Tool #	Tool #
RC-1004,	ICK-30	ICK-30-DLC*	SCK-30	HCK-30	MFK-30
General Use					

29.5 x 12 x 1.5mm - 4 Cutting Edges



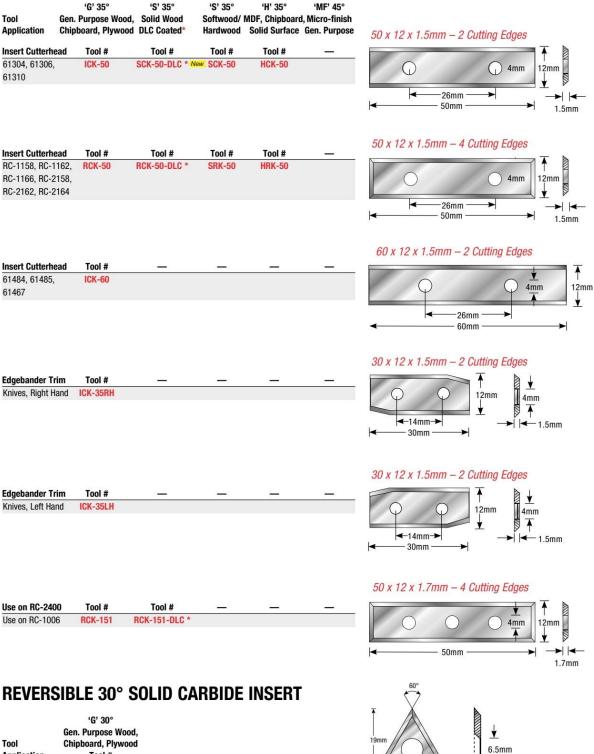
Insert Straight Bits	Tool #	Tool #	Tool #	Tool #	12 - 2
RC-1084, RC-1086, RC-2086, RC-2156	RCK-30	RCK-30-DLC*	SRK-30	HRK-30	

^{*} Diamond-Like Carbon (DLC)

272



▲ Warning: Before use, read router bit safety guidelines on pages 276-278.



Application Tool # Insert Trim Bits RCK-37

* Diamond-Like Carbon (DLC)

▲ Warning: Before use, read router bit safety guidelines on pages 276-278.



REPLACEMENT PARTS & ACCESORIES

A

- 2mm

See the Difference!

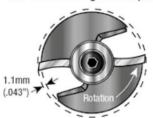
Highest Quality with Maximum Safety!





BG CERTIFIED

Anti-kickback design with chip limiter





Other Brands

NON-BG



This "BG Standard"/ EN-847-1/2 helps minimize serious work accidents in the woodworking industry for handheld and manual-fed machines.

Amana Tool® router bits are manufactured according to the five requirements of the EN-847-1/2 standard:

- Each tool features "anti-kickback" chip limiter to prevent the tool from "overfeeding" and kicking back the material to the machine operator. The standard also determines the maximum distance between the "anti-kickback" shape and the cutting edge.
- Protrusion of the knife from the supporting tool body is restricted to prevent injury.
- Sharp corners on the supporting body of the knife are prohibited, preventing injury to the user in areas where there is no knife.
- Each tool has a maximum safe speed; calculated by a computer program, that takes into account the size of the cut profile, type of steel, shank size, tool balance and machine run-out.
- Different groups of tools are produced using various grades of steel dictated by workload and material type. Tools are made from raw material defined by the standard to support the high demand of mechanical properties of woodworking tools.

Anti-Kickback....or 'BG' Test?

The term 'Anti-Kickback' has been an industry topic for quite some time and relates to cutting tools such as router bits, saw blades, etc. There are several brands of 'Anti-Kickback' router bits presently on the market and all of them, it seems, would offer some degree of safety to the end-user because they limit the 'chip-thickness' of the material being cut. In other words, the cutting tool will take less of a 'bite', thereby decreasing the likelihood of a kickback. While this is true, however, it should be pointed out that there are significant details to be considered when designing, manufacturing and using industrial cutting tools.

1. What is 'BG'?

'BG' is an acronym for 'Holz Berufsgenossenschaft', the German Woodworking Trade Association. For the sake of worker safety, this esteemed group has established basic rules for the design, manufacturing and use of cutting tools for the wood and plastic industries.

These basic rules concern testing the working safety of woodworking machine tools. They establish test procedures and indicate all essential regulations and rules of technology, which need to be taken into account during testing. Precise geometric design, as well as the use of high quality materials and replacement parts complying with DIN standards, will ensure a

safe tool with a high degree of precision in the production and the balance of the tools. The purpose of the test is to ascertain whether it is ensured that users or third parties, who are handling the tools properly are, in fact, protected as far as possible from risk to life or health.

Tools for use in wood and plastic working are classified into two groups: manual feed operations and mechanical feed operations.

Manual Feed Operations

'Manual feed' describes the holding and/or guiding by hand of the work-piece or of a machine element incorporating a tool. Manual feed includes the use of a hand-operated carriage, on which the work-piece is placed manually or clamped and the use of a demountable power feed unit. Tools for manual operation marked 'BG-TEST' are designed according to the following rules:

- a) Thickness of chip limit with a maximum cutting edge projection of 1.1mm (.043"), over the total length of the cutting profile;
- Restricted maximum chip clearance width, including the regrinding range as a function of the cutting flight circle;
- c) Kickback ratio must not exceed 0.25 Vr/Vs < 0.25 (where Vs = cutting velocity and Vr = kickback velocity)

Special purpose tools which, for reasons of speed and economy, cannot be inspected by the German Woodworking Trade Association may be used manually, if they conform with the above requirements.

Mechanical Feed Operation

'Mechanical feed' means a feed mechanism for the work-piece or tool, which is integrated with the machine and where the work-piece or machine element with incorporated tool are held and controlled mechanically during the machining operation.

All the tools may be used for mechanical feed operation. The rules that characterize manual feed operation tools do not apply to them, except for the manufacturer's label and maximum permitted speed. The basic rules applying to manual feed operations do not apply to router bits with diameters smaller than 16mm.

2. 'BG' Form vs 'BG' Test

'BG' Form is a term indicating cutting tools which have the same general circular shape of 'BG' Test tools, but which do not comply with the strict regulations governing 'BG' Test as outlined above (1.1mm cutting edge projection, restricted maximum chip clearance width, etc.). There is a significant difference between the two.

Important Note: Unless specified otherwise, all router bits larger than 5/8" (16mm) diameter in this catalog are 'BG-TEST'. This does not apply to CNC router bits.



TECHNICAL INFORMATION

Router Bit Selection, Application & Maintenance

1. GENERAL INFORMATION

The router bits contained in this catalog are designed for use in portable or stationary/CNC routing machines only. Do not use router bits in any other equipment such as a drill press, portable electric drill, etc. Conversely, 'Boring Bits', are designed for boring machines and/or drill presses, and not for routing machines or portable drills. Unless specified otherwise, all router bits in this catalog are for clockwise (right hand) rotation.

Always wear proper eye protection while operating routers

Read and understand all information provided with the particular router you are using. The router should be of high quality and all parts thereof should be well maintained. Keep body, clothing and hair away from all moving parts.

Cutting tools that are properly sharpened and maintained will cut faster, better and longer, and will be safer to use. In addition, less horsepower is required (both machine & operator) when sharp tools are used.

2. ROUTER TOOL SELECTION

Carbide router bits provide an excellent finish in solid hard and softwood, wood by-products such as MDF and plywood, and abrasive materials such as plastic, Corian® and other solid surface sheet goods. Under certain conditions, non-ferrous metals such as aluminum and brass can also be cut using carbide tools provided that a coolant is used and proper clamping devices are employed. Extreme care should be taken when cutting non-ferrous metals, and if you are not familiar with the special cutting properties of these materials, please seek professional advice before you attempt any routing or sawing. **Never** attempt to cut ferrous metals (steel, iron, etc.) with carbide router bits.

Solid steel portions of our tools (shank, tool body) are **turned, milled and ground** (not cast) from the highest quality tool-steel available.

Note: On certain grinding equipment, cast body tools have been known to be more difficult to re-sharpen due to indexing complications. Choose your tools carefully.

Always use the **shortest cutting edge** available that will meet the requirements of your application. Excessive cutting edge length and/or overall length compounds vibration and deflection – a leading cause of tool breakage.

Always use the **largest diameter shank** available that your router will accommodate.

Always use the **correct size collet** for your router and avoid using collet reducing sleeves or bushings. Reducers only add to vibration and run-out, and they generally do not provide the necessary holding capabilities as with a collet alone.

3. ROUTER TOOL USAGE

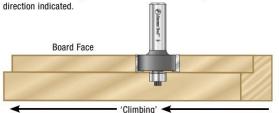
Always use **properly sharpened cutting tools**. The **feed-rate** of a router to the work-piece (or vice-versa if used in a router table) is very important to the longevity of the tool and the overall quality of cut. The operator should feel a constant, even pressure when the work is applied to the cutter. If chattering occurs, stop the router promptly and inspect the router, cutting tool, collet and clamping devices, and ensure that the proper tool is being used for the material being cut.

Always keep the tool moving. Allowing the tool to 'dwell' in the cut will cause burning and reduce tool life immensely. Remember, heat can ruin a sharp tool.

Feed-rate ultimately depends on three factors: 1) the type of material being cut, 2) the amount of material being removed and, 3) the type of tool being used.

'Climb-cutting' is not recommended as a portable routing technique.

This action tends to grab the wood and pull the cutting tool in the direction indicated.



If using extremely **large diameter** tools, always accomplish the cut with several passes of the router or, if applicable, remove as much material prior to using the large tool by means of chamfering, etc. This method will increase tool life and generally be a safer practice than trying to remove too much material in one pass. Large diameter router bits should generally be used in a high quality router table.

Proper **collet condition** is of extreme importance. Worn, scored or out-of-round router collets do not provide adequate holding power and will increase run-out and vibration. Multiply these factors by the router RPM (22,000 and greater), and you will realize why we must emphasize the importance of proper router collet condition. Do not assume that new collets are geometrically correct. Dark marks or grooves in the router bit shank usually indicate

slippage and a worn collet, which should be replaced immediately.

Router bits should always be **completely inserted** into the collet and backed-off slightly (1/16" approx.). **Never partially insert the bit into the collet**. Follow the guidelines provided in your router owner's manual for further information regarding this and the appropriate usage of the router base and sub-base (particularly for larger diameter tools that do not clear the standard opening in the router sub-base).

4. ROUTER TOOL MAINTENANCE

Carbide tools can be **re-sharpened** many times. Always have your cutting tools re-sharpened by a **reputable grinding firm only**.

Do not attempt to sharpen your own router bits by means of files, whetstones, etc.

Keep your cutting tools clean and free of dirt, wood resin, pitch and other contaminants using a standard commercial solvent. A light coat of machine oil should prevent any surface discoloration or rust. Thoroughly wipe clean all shanks to prevent slippage during use.

Ball Bearings should not be cleaned with solvents, as this will deteriorate the special grease packed inside them. Rather, use an air gun to blow off any dust or dirt. 'Frozen' ball bearings (ones that do not rotate freely) should be replaced promptly.

Hardware (nuts, screws, washers) should be replaced if worn. See "Replacement Parts" on pages 229-245.

5. ROUTER TOOL TERMINOLOGY

Cutting Diameter ('D') refers to the largest cutting diameter of the tool and is represented in fractions, decimals and/or millimeters.

Cutting Length ('B or C') refers to the length or 'depth' of the cutting edge. This dimension usually represents the cutting edge length parallel to the length of the shank and is represented in fractions and/or millimeters.

Shank Diameter ('d') refers to the largest diameter of the shank and is equivalent to the router collet inside diameter that is necessary to use the tool. This dimension is represented in fractions.

Overall Length ('L') refers to the total length of a router bit from the top of the shank to the bottom of the tool at its furthestmost point. This dimension is represented in fractions and/or millimeters.

Radius ('R') of a cutting tool edge refers to one-half the diameter of a complete circle, and is shown in fractions and/or millimeters.

Bevel Angle ('a°') refers to the angle formed between the cutting tool edge and a straight line drawn parallel or perpendicular to the shank length, and is measured in degrees.

Rake Angle ('T') refers to the angle (or 'hook') of the cutting tool tip in relationship to a straight line drawn perpendicular through the center of the tool. This dimension is measured in degrees.

Primary Radial Clearance ('P') refers to the relief grind on the tip of the tool and is measured in degrees.

Secondary Radial Clearance ('0') refers to the combined relief grind of the primary clearance and the clearance ground into the body of the tool. This dimension is measured in degrees.

Web Diameter ('N') refers to the thickness of the ground steel body of the tool, including the heel area ('M'). The web must be of adequate thickness to withstand industrial routing applications.

INDUSTRIAL ROUTER BITS





1. Always refer to your power tool owner's manual prior to using your router and router bits.



3. Never exceed the recommended RPM for the router bit. See reference chart online http://www.amanatool.com/maxrpm



 Always wear eye and hearing protection. Keep clothing clear of cutting area.



Check the router collet periodically for wear.



5. Never use a large diameter bit in a handheld router. Refer to Amana Tool® website and catalog for guidelines.



6. Plan the cutting path to avoid cutting the power cord.

276



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For up to date Safety Guidelines in English, French and Spanish visit www.amanatool.com/safety

SAFETY GUIDELINES For Router Bits



7. Always use a guard and a fence while routing.



9. Make certain that the power switch is in the "OFF" position before connecting the router to the power source.



Do not bottom-out the bit in the collet; insert the bit fully and then back it out 1/8" or to stop line k, when available.



8. Secure the router motor in the base before plugging it in to the power outlet.



Make certain that the stock is free of warp, twist, nails, screws, staples, grit or any other foreign object.



Always use featherboards to hold the work-piece firmly to the table and fence.



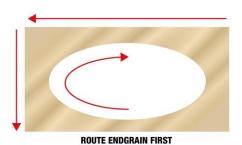
Never start the router with the router bit in contact with the stock/work-piece.



Always use "push blocks" and "push sticks" to distance your hands from the bit.

For up to date Safety Guidelines in English, French and Spanish visit www.amanatool.com/safety ROUTER BITS

SAFETY GUIDELINES For Router Bits



15. Push the router in a counter-clockwise direction for external cuts and clockwise for internal cuts.



17. Avoid routing small stock. Shape a larger work-piece and then reduce it in size. If you must shape a small piece use a jig or large wooden clamp to grasp the stock.



19. Use a jig or miter gauge when shaping end of narrow stock.



 ${\bf 21.}\ \ {\bf Use}$ a starting pin when shaping curved stock without the use of a template.



16. Never "climb" cut. Always feed the work-piece against the rotation of the bit.



18. Always plan to route in several passes to achieve the final profile. Do not force the bit into the work-piece. If the router is straining or becomes overloaded, the cut is too heavy or bit is dull.



20. Reduce the fence opening as much as possible in order to provide support for the work-piece. When using large diameter bits, such as a raised panel bit, make a zero-clearance fence opening.



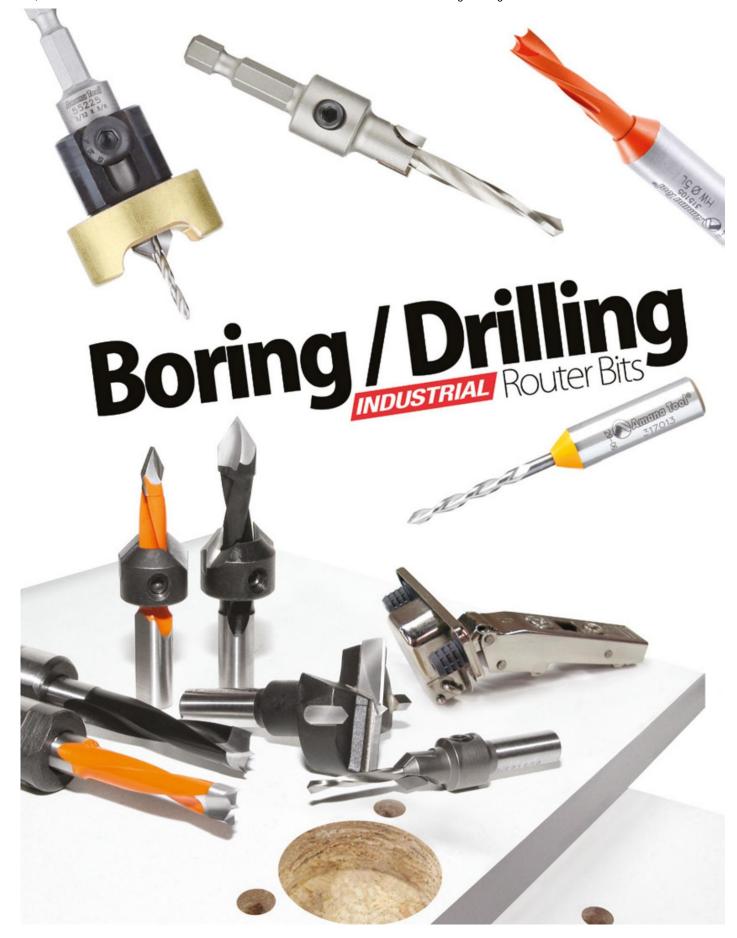
When shaping curved stock with a template, extend template beyond the work-piece so that the template contacts the guide bearing before work-piece contacts the bit.







For up to date Safety Guidelines in English, French and Spanish visit www.amanatool.com/safety





INDUSTRIAL

Brad Point Boring Bits are coated with a non-stick coating for longer lasting cutting edge and tool life.

This special Polytetrafluoroethylene (PTFE) non-stick color coating is applied onto the bit at a temperature of 570° F. The coating reduces the friction between the chip and the body inside the flute and it helps to clear the chips out of the hole during the drilling, creating a cooler drilling area with no burning and a longer lasting cutting edge.

In cases where the carbide tip cutting edges are coated, there is no need to sand the coating off before use. Once the tool starts drilling, the coating is quickly cleared off the needed cutting edge.



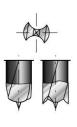


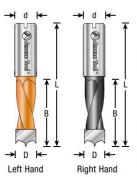
BRAD POINT BORING

Carbide Tipped • 57mm Long • 10mm x 30mm Shank*

ØD	В	Ød	L	Tool No. LH	Tool No. RH
3mm	27mm	10mm	57mm	301003†	201003†
3.2mm	27mm	10mm	57mm	301032†	201032†
4mm	27mm	10mm	57mm	301004	201004
4.5mm	27mm	10mm	57mm	_	201045
5mm	27mm	10mm	57mm	301005	201005
5.1mm	27mm	10mm	57mm	_	201051
5.2mm	27mm	10mm	57mm	301052	201052
5.5mm	27mm	10mm	57mm	301055	201055
6mm	27mm	10mm	57mm	301006	201006
6.5mm	27mm	10mm	57mm	_	201065
6.7mm	27mm	10mm	57mm	_	201067
7mm	27mm	10mm	57mm	301070	201070
7.5mm	27mm	10mm	57mm	301075	201075
8mm	27mm	10mm	57mm	301008	201008
8.2mm	27mm	10mm	57mm	301082	201082
9mm	27mm	10mm	57mm	_	201090
10mm	27mm	10mm	57mm	301010	201010
10.5mm	27mm	10mm	57mm	301105	201105
12mm	27mm	10mm	57mm	301012	201012
14mm	27mm	10mm	57mm	301014	201014
15mm	27mm	10mm	57mm	301015	201015
17mm	27mm	10mm	57mm	301017	201017
18mm	27mm	10mm	57mm	301018	_
19mm	27mm	10mm	57mm	_	201019
20mm	27mm	10mm	57mm	_	201020
1/4	27mm	10mm	57mm	301007	201007
3/8	27mm	10mm	57mm	301009	201009
1/2	27mm	10mm	57mm	301013	201013

[†] With solid carbide cutting edge.

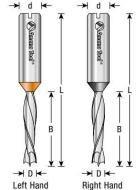




HIGH PERFORMANCE DITEC™ BRAD POINT BORING

Carbide Tipped • 57mm & 70mm Long • 10mm Shank*

				Tool No.	Tool No.
ØD	В	Ød	L	LH	RH
5mm	27mm	10mm	57mm	305005	205005
8mm	27mm	10mm	57mm	305008	_
5mm	40mm	10mm	70mm	306005	206005
8mm	40mm	10mm	70mm	306008	206008



BRAD POINT DOWEL DRILL

Solid Carbide • 57.5mm & 70mm Long • 10mm x 30mm Shank*

Special solid carbide grade cutting flute for long lasting performance.

				Tool No.	Tool No.
ØD	В	Ød	L	LH	RH
3mm	18mm	10mm	57.5mm	315103 New	215003 New
5mm	22mm	10mm	57.5mm	315105	215005
8mm	22mm	10mm	57.5mm	315108	215008
3mm	18mm	10mm	70mm	317003 New	217003 New
5mm	30mm	10mm	70mm	317005	217005
8mm	35mm	10mm	70mm	317008	217008



Max RPM=8.000

^{*} Not to be used in portable drills or handheld routers.

BRAD POINT BORING

Carbide Tipped • 70mm Long • 10mm x 30mm Shank*

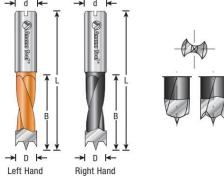
ØD	В	Ød	L	Tool No. LH	Tool No. RH
3mm	40mm	10mm	70mm	304003 †	204003†
3.2mm	40mm	10mm	70mm	304032 †	204032†
4mm	40mm	10mm	70mm	304004	204004
4.5mm	40mm	10mm	70mm	304045	204045
5mm	40mm	10mm	70mm	304005	204005
5.1mm	40mm	10mm	70mm	304051	204051
5.2mm	40mm	10mm	70mm	304052	204052
5.5mm	40mm	10mm	70mm	304055	204055
6mm	40mm	10mm	70mm	304006	204006
6.5mm	40mm	10mm	70mm	304065	204065
6.7mm	40mm	10mm	70mm	_	204067
7mm	40mm	10mm	70mm	304070	204070
7.5mm	40mm	10mm	70mm	304075	204075
8mm	40mm	10mm	70mm	304008	204008
8.2mm	40mm	10mm	70mm	304082	204082
9mm	40mm	10mm	70mm	304090	204090
10mm	40mm	10mm	70mm	304100	204010
11mm	40mm	10mm	70mm	304011	204011
12mm	40mm	10mm	70mm	304012	204012
13mm	40mm	10mm	70mm	304130	204130
14mm	40mm	10mm	70mm	_	204014
15mm	40mm	10mm	70mm	304015	204015
16mm	40mm	10mm	70mm	_	204016
17mm	40mm	10mm	70mm	304017	_
3/16	40mm	10mm	70mm	304047	204047
1/4	40mm	10mm	70mm	304007	204007
3/8	40mm	10mm	70mm	304009	204009
7/16	40mm	10mm	70mm	304111	204111
1/2	40mm	10mm	70mm	304013	204013
5/8	40mm	10mm	70mm	_	204113



77mm Long • 10mm x 30mm Shank*

4mm	47mm	10mm	77mm	302004	202004
5mm	47mm	10mm	77mm	302005	202005
5.1mm	47mm	10mm	77mm	302051	_
5.2mm	47mm	10mm	77mm	_	202052
7mm	47mm	10mm	77mm	_	202070
8mm	47mm	10mm	77mm	302008	202008
8.2mm	47mm	10mm	77mm	302082	202082
9mm	47mm	10mm	77mm	302090	_
10mm	47mm	10mm	77mm	302100	202010
12mm	47mm	10mm	77mm	302012	202012

† With solid carbide cutting edge.





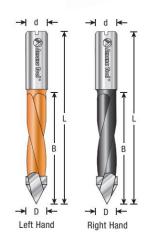


Max RPM=8,000

^{*} Not to be used in portable drills or handheld routers.











INDUSTRIAL

Through-Hole with V-Point Boring Bits are coated with a non-stick coating for longer lasting cutting edge and tool life.

Amana Tool® dowel drills are coated with a special Polytetrafluoroethylene (PTFE), a non-stick color coating. In cases where the carbide tip cutting edges are coated, there is no need to sand the coating off before use. Once the tool starts drilling, the coating is quickly cleared off the needed cutting edge.

Amana's coating is applied onto the bit at a temperature of 570° F. The coating reduces the friction between the chip and the body inside the flute and it helps to clear the chips out of the hole during the drilling, creating a cooler drilling area with no burning and a longer lasting cutting edge.

THROUGH-HOLE WITH V-POINT

Carbide Tipped • 57mm Long • 10mm x 22mm Shank*

ØD	В	Ød	L	Tool No. LH	Tool No. RH
4mm	35mm	10mm	57mm	413004	313004
5mm	35mm	10mm	57mm	413005	313005
6mm	35mm	10mm	57mm	413006	313006
7mm	35mm	10mm	57mm	413070	313070
8mm	35mm	10mm	57mm	413008	313008
9mm	35mm	10mm	57mm	413090	_
10mm	35mm	10mm	57mm	413010	313010
12mm	35mm	10mm	57mm	413012	_
1/4	35mm	10mm	57mm	413007	_
3/8	35mm	10mm	57mm	413009	313009
1/2	35mm	10mm	57mm	413013	_

THROUGH-HOLE WITH V-POINT

Carbide Tipped • 70mm Long • 10mm x 23mm Shank*

ØD	В	Ød	L	Tool No. LH	Tool No. RH
4mm	47mm	10mm	70mm	414004	314004
5mm	47mm	10mm	70mm	414005	314005
5.5mm	47mm	10mm	70mm	414055	314055
6mm	47mm	10mm	70mm	414006	314006
7mm	47mm	10mm	70mm	414070	314070
8mm	47mm	10mm	70mm	414008	314008
9mm	47mm	10mm	70mm	414090	314090
10mm	47mm	10mm	70mm	414010	314010
11mm	47mm	10mm	70mm	_	314011
12mm	47mm	10mm	70mm	414012	314012
14mm	47mm	10mm	70mm	414014	_
3/16	47mm	10mm	70mm	414047	314047
1/4	47mm	10mm	70mm	414007	314007
9/32	47mm	10mm	70mm	414281	314281
21/64	47mm	10mm	70mm	414833	314833
11/32	47mm	10mm	70mm	414343	-
3/8	47mm	10mm	70mm	414009	314009
7/16	47mm	10mm	70mm	414111	314111
1/2	47mm	10mm	70mm	414013	314013
5/8	47mm	10mm	70mm	_	314113



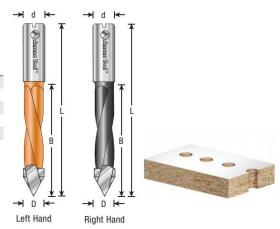
Max RPM=8,000

^{*} Not to be used in portable drills or handheld routers.

THROUGH-HOLE WITH V-POINT

Carbide Tipped • 77mm Long • 10mm x 27mm Shank*

			Tool No.	Tool No.
В	Ød	L	LH	RH
50mm	10mm	77mm	415005	315005
50mm	10mm	77mm		315070
50mm	10mm	77mm	415008	315008
50mm	10mm	77mm	_	315090
50mm	10mm	77mm	-	315010
	50mm 50mm 50mm 50mm	50mm 10mm 50mm 10mm 50mm 10mm 50mm 10mm	50mm 10mm 77mm 50mm 10mm 77mm 50mm 10mm 77mm 50mm 10mm 77mm	50mm 10mm 77mm 415005 50mm 10mm 77mm — 50mm 10mm 77mm 415008 50mm 10mm 77mm —



THROUGH-HOLE DOWEL DRILL

Solid Carbide • 70mm Long • 10mm x 30mm Shank*

Special solid carbide grade cutting flute for long lasting performance.



				Tool No.	Tool No.
ØD	В	Ød	L	LH	RH
3mm	18mm	10mm	70mm	317013 New	217013 New
5mm	30mm	10mm	70mm	317015	217015
8mm	35mm	10mm	70mm	317018	217018
8mm	35mm	10mm	70mm	317018	217018





DOWEL DRILL/BORING BIT ADAPTER

For CNC Standard Collet/Tool Holder

Made especially to run 10mm shank dowel drills and boring bits on a CNC machine. Accommodates the flat area on the 10mm round drill bit shank. Secure with the two set screws, same method as on boring machines.







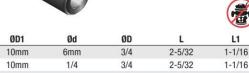
Tool No.

47643

47636

47644

47638



 10mm
 1/4
 3/4
 2-5/32
 1-1/16

 10mm
 10mm
 3/4
 2-5/32
 1-1/16

 10mm
 1/2
 3/4
 2-7/16
 1-1/16

▲ Warning: Maximum RPM=8,000

Total Indicated Run-out (TIR) is 0.00118" (0.03mm) CNC drop down feed rate 80-160 inches per minute (IPM).

Max RPM=8,000

* Not to be used in portable drills or handheld routers.





Bit sold separately.





COUNTERSINKS FOR BORING MACHINES*

Carbide Tipped • Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

Drills and countersinks in one step. Available in two sizes and each complete with the High Speed Steel drill bit and Allen wrench for easy bit replacement. 2-Flute.





→| d |**←**

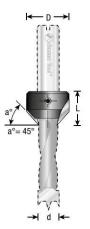
ØD	ØD1	a°	Ød	L	Drill Bit	Tool No.
1/2	4mm	45°	10mm	60mm	630-202	55640
1/2	5mm	45°	10mm	60mm	55105	55642

METRIC COUNTERSINKS*

Carbide Tipped • 2 Flute

Application: Use with 10mm shank boring bits to drill and countersink for screws in one pass.





			Tool No.	Tool No.
ØD	Ød	L	LH	RH
16mm	5mm	16.5mm	416005	316005
16mm	6mm	16.5mm	-	316006
16mm	7mm	16.5mm	416007	316007
18mm	8mm	16.5mm	416008	316008
18mm	9mm	16.5mm	_	316009
20mm	12mm	16 5mm	416012	316012

Replacement set screw #67087 (5mm only). Replacement set screw #67079 (6mm to 12mm).

Note: Right hand tools rotate clockwise. Left hand tools rotate counter-clockwise.

Drills sold separately.

* Not to be used in portable drills or handheld routers.





HINGE BORING

Carbide Tipped • 57mm Long • 10mm Shank • 2-Wing with Spurs*

Application: Boring machines (10mm shank) and drill presses (3/8" shank)

ØD	Ød	L	Tool No. LH	Tool No. RH
15mm	10mm	57mm	203155	203151
20mm	10mm	57mm	203205	203201
22mm	10mm	57mm	_	203221
25mm	10mm	57mm	_	203251
26mm	10mm	57mm	_	203261
28mm	10mm	57mm	203285	_
30mm	10mm	57mm	203305	_
35mm	10mm	57mm	203355	203351
40mm	10mm	57mm	_	203401
3/4	10mm	57mm	_	203751

70mm Long • 10mm Shank • 2-Wing with Spurs*

10mm	70mm	_	203152
10mm	70mm	203204	203202
10mm	70mm	203254	203252
10mm	70mm	203264	203262
10mm	70mm	203354	203352
10mm	70mm	203754	203752
	10mm 10mm 10mm 10mm	10mm 70mm 10mm 70mm 10mm 70mm 10mm 70mm 10mm 70mm	10mm 70mm 203204 10mm 70mm 203254 10mm 70mm 203264 10mm 70mm 203354

77mm Long • 10mm Shank • 2-Wing with Spurs*

25mm	10mm	77mm	203258	_
30mm	10mm	77mm	203308	_

90mm Long • 2-Wing with Spurs*

28mm	10mm	90mm	_	203286
35mm	10mm	90mm		203357



Amene Tool 203301 HM Ø 30R

BITS FOR FESTOOL® DOMINO® JOINER

Solid Carbide & Carbide Tipped • 2 Flute • Right Hand Rotation*

Application: Used on Domino® machines for routing slots on solid wood and wood composites.

ØD	В	Thread (Inside Shank)	L	For Festool® No.	Tool No.
4mm	11mm	M6x0.75	38mm	DF500	316020†
5mm	20mm	M6x0.75	49mm	DF500	316022
6mm	28mm	M6x0.75	49mm	DF500	316024
8mm	28mm	M6x0.75	49mm	DF500	316026
8mm	50mm	M8x1	90mm	DF700	316028
10mm	28mm	M6x0.75	49mm	DF500	316030
10mm	70mm	M8x1	90mm	DF700	316032†
12mm	70mm	M8x1	90mm	DF700	316034†
14mm	70mm	M8x1	90mm	DF700	316036†

[†] Solid carbide.





 $[\]ensuremath{^{\star}}$ Not to be used in portable drills or handheld routers.

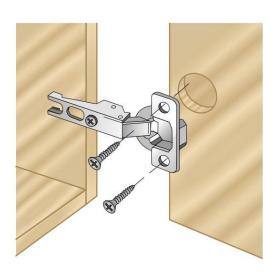


HINGE BORING

Carbide Tipped • 10mm Round Shank • 2-Wing With Spurs*

Application: Drill presses only / Metric European hinges.

ØD	Ød	L1	L	Tool No.
15mm	10mm	30mm	90mm	203015
20mm	10mm	30mm	90mm	203020
23mm	10mm	30mm	90mm	203023
35mm	10mm	30mm	90mm	203350
40mm	10mm	30mm	90mm	203040





3-PC. BRAD POINT & HINGE BORING BIT SET

Carbide Tipped • 57 Long x 10mm Shank*

 $\label{lem:complete} \mbox{Complete hinge installation set for boring machines.}$

Set# HBM-102 contains:

ØD	В	Ød	L	Type	Qty.	Tool No.
8mm	27mm	10mm	57mm	Brad Point Boring	2	301008
35mm	-	10mm	57mm	Hinge Boring	1	203351
	3-Pc	Set includes	301008(2)	and 203351(1)		HBM-102



^{*} Not to be used in portable drills or handheld routers.





HINGE BORING New

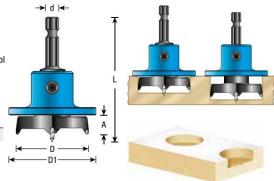
Carbide Tipped • 2-Wing with Spurs with Adjustable Depth Stop Quick Release 1/4" Hex Shank

Carbide tipped with center point. Adjustable aluminum depth-stop that allow to control the depth of blind holes. Depth Range 3/8" (9.52mm) to 1/2" (12.7mm).

Prevents from damaging the door. Simple depth control.

ØD	ØD1	A	Ød	L	Wings	Tool No.
35mm	1-21/32	3/8 (9.52mm) - 1/2 (12.7mm)	1/4	2-3/8	2	203361

Replacement drill bit #55289.



HINGE BORING FOR DRILL PRESSES

Carbide Tipped • 3/8" Shank • 2-Wing*

Application: Drill presses only, right hand rotation. Economical alternative to other $35\,\mathrm{mm}$ hinge bits.

ØD	Ød	L	Tool No.
35mm	3/8	57mm	EB-351

Note: Right hand tools rotate clockwise. Left hand tools rotate counter-clockwise.







HINGE BORING FOR ROUTERS

Carbide Tipped • 60mm Long, 1/2 Shank, 2-Wing (No Spurs)*

Application: Designed for high RPM (22,000) on plunge routers, CNC routers, machining centers and point-to-point machines.

ØD	Ød	L1	L	Max RPM	Tool No.
35mm	1/2	30mm	60mm	28,000	203431
					.000





d ←



FRACTIONAL SIZE BORING

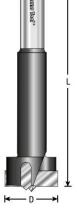
Carbide Tipped • 2-Wing • With Spurs*

Application: 1/2" shank for use in drill presses only.

ØD	Ød	L	Wings	Tool No.
1-1/8	1/2	4	2	420208
1-1/4	1/2	4	2	420308
1-1/2	1/2	4	2	420508

















METRIC BRAD POINT BORING DRILLS*

Application: Boring machines for shelving hardware, etc. Use with adapters or bushings, shown below.

		Tool No.	Tool No. RH	
Ød & ØD	L	LH		
3mm	55mm	463003	363003	
3.2mm	55mm	463032	363032	
3.5mm	55mm	463035	363035	
4mm	55mm	463004	_	
4.5mm	55mm	463045	_	
5mm	55mm	_	363005	

METRIC V-POINT BORING DRILLS*

Solid Carbide

Application: Boring machines for shelving hardware, etc. Use with adapters or bushings, shown below.

		Tool No.	Tool No.	
Ød & ØD	L	LH	RH	
2mm	49mm	463002	363002	
2.5mm	55mm	463025	363025	
5mm	55mm	_	363007	



→D H

→ D K

→ d **←**

10MM SHANK DRILL ADAPTERS*

With Retaining Screw

Application: Use with solid carbide drills, shown above. For quick insertion and removal from chuck. (Can be used on left or right hand drills.)

Drills sold separately.

ØD	Ød	L	Tool No.	
2mm	10mm	38mm	364020	
2.3mm	10mm	38mm	364023	
2.5mm	10mm	38mm	364025	
3mm	10mm	38mm	364030	
3.2mm	10mm	38mm	364032	
3.5mm	10mm	38mm	364035	
4mm	10mm	38mm	364040	
1/4	10mm	38mm	364063	

Replacement set screw #67092 (new style #10-24) or #67097 (old style 5x8mm).



10MM SHANK DRILL BUSHINGS*

Application: Use with solid carbide drills, shown above. Economical alternative to drill adapters. (Can be used on left or right hand drills.)

Ød	ØD L		Tool No.
2mm	10mm	23mm	365020
2.5mm	10mm	23mm	365025
3mm	10mm	23mm	365030
3.2mm	10mm	23mm	365032
3.5mm	10mm	23mm	365035
4.5mm	10mm	23mm	365045
5mm	10mm	23mm	365050
5.5mm	10mm	23mm	365052 New
6.0mm	10mm	23mm	365054 New
7.0mm	10mm	23mm	365056 New
8.0mm	10mm	23mm	365058 New

^{*} Not to be used in portable drills or handheld routers.

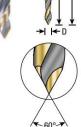
HIGH SPEED STEEL (HSS) New PLASTIC DRILLS

High Speed Steel (HSS) • 5 Pc. Packs

Drills designed to drill holes in hard and soft plastic. 60° drill tip.



ØD & Ød	В	L	Per Pack	Tool No.
1/8	1-1/2	2-3/4	5	HSS1520
3/16	2-1/8	3-1/2	5	HSS1522
1//	2-7/16	1	5	HCC1E24



HIGH SPEED STEEL (HSS) M2 DIN 338 FULLY GROUND STEP DRILLS

HSS . Slow Spiral

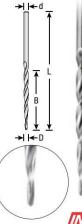
ØD	В	Ød	L	Tool No.
3/32	5/8	9/64	2-3/4	630-010
7/64	3/4	5/32	3	630-012
1/8	7/8	11/64	3-1/8	630-014
9/64	1	3/16	3-3/8	630-016





HSS . Taper Point

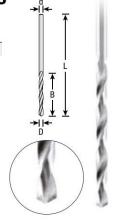
	,		
ØD & Ød	В	L	Tool No.
5/64	15/16	2-1/8	630-260
3/32	1-1/8	2-1/4	630-262
7/64	1-3/8	2-11/16	630-264
1/8	1-1/2	2-3/4	630-266
9/64	1-1/16	2-15/16	630-268
5/32	1-3/4	3-1/8	630-270
11/64	1-15/16	3-1/4	630-272
3/16	2	3-9/16	630-274
7/32	2-1/4	3-13/16	630-276
1//	2-7/16	1	630-278



HIGH SPEED STEEL (HSS) M2 DIN 338 FULLY GROUND DRILLS

HSS • Regular Flute

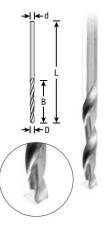
ØD & Ød	В	L	Tool No.
5/64	13/16	1-15/16	630-220
3/32	1	2-1/4	630-222



HIGH SPEED STEEL (HSS) M2 DIN 1897 FULLY GROUND SHORT DRILLS

HSS • Regular Flute

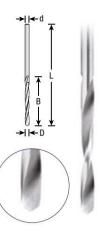
ØD & Ød	В	L	Tool No.	
7/64	1/2	1-3/4	630-224	
1/8	9/16	2	630-226	
9/64	11/16	2-1/16	630-228	
5/32	11/16	2-1/8	630-230	
11/64	3/4	2-5/16	630-234	
3/16	3/4	2-1/4	630-236	



HIGH SPEED STEEL (HSS) DIN 338 FULLY GROUND DRILLS

HSS . Slow Spiral

ØD & Ød	В	L	Tool No.
5/64	7/8	1-15/16	630-001
3/32	1	2-1/4	630-002
7/64	1-1/8	2-3/8	630-098
1/8	1-3/16	2-9/16	630-102
9/64	1-1/4	2-3/4	630-802
5/32	1-3/8	3	630-202
11/64	1-3/8	2-15/16	630-302
3/16	1-3/8	2-15/16	630-402
7/32	1-3/8	2-15/16	630-502
15/64	1	2-15/16	630-602
1/4	1-1/4	2-15/16	630-702
5/16	2-3/8	4-5/8	630-704
3/8	2-1/2	4-15/16	630-706
1/2	3-1/2	5-15/16	630-708



INDUSTRIAL BORING BITS



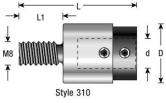
BORING MACHINE REPLACEMENT CHUCKS*

For 10mm Shank In-Line Boring Machines

Application: Replace worn or damaged chucks. In stock for immediate delivery. Meets or exceeds O.E.M. specifications.

Due to many different styles, please order carefully.

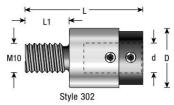








					Tool No.	Tool No.	
ØD	L1	M	Ød	L	LH	RH	
19.5mm	15mm	8mm	10mm	40mm	310105	310010	



Chuck for Torwegge . Ayen Machines

						Tool No.
ØD	L1	M	Ød	L	LH	RH
19.5mm	15mm	10mm	10mm	40mm	302105	302010



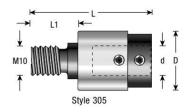
Chuck for Busselatto . Ompec Machines

								Tool No.	Tool No.
ØD	L1	a°	M	Ød	L	LH	RH		
19.5mm	11mm	30°	10mm	10mm	46mm	303105	303010		



Chuck for Bilek Machines

						Tool No.	Tool No.	
ØD	L1	a°	M	Ød	L	LH	RH	
19.3mm	11mm	20.8°	8mm	10mm	48mm	304105	304010	Ī



Chuck for Holz-Her • S.C.M.I. • Morbidelli • Biese Reimall • Vitap • Weeke Machines

					Tool No.	Tool No.
ØD	L1	M	Ød	L	LH	RH
19.5mm	16mm	10mm	10mm	41mm	305105	305010



^{*} Not to be used in portable drills or handheld routers.

BORING MACHINE REPLACEMENT CHUCKS (CONT'D)

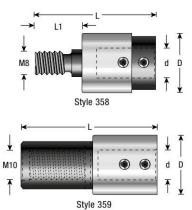
Chuck for • Morbidelli • Nottmeyer Machines

					Tool No.	Tool No.
ØD	L1	M	Ød	L	LH	RH
19.3mm	15mm	8mm	10mm	41mm	-	358010

Chuck for Scheer Machines

				Tool No.	Tool No.
ØD	M	Ød	L	LH	RH
19.5mm	10mm	10mm	42mm	359105	_

Note: Right hand tools rotate clockwise. Left hand tools rotate counter-clockwise. 1.5mm thread pitch. Set screw #67097.

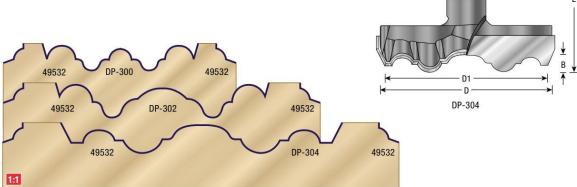


Top of shank

ROSETTE CUTTERS

Carbide Tipped • 2 Flute • 3/8" Shank • For Drill Press

ØD	ØD1	В	Ød	L	Max RPM	Tool No.
1-25/32	1-23/32	19/64	3/8	2-7/8	1,800	DP-300
2-1/2	2-27/64	25/64	3/8	2-7/8	1,800	DP-302
3-11/32	3-1/8	21/64	3/8	2-7/8	1,800	DP-304



OPTIONAL ROSETTE EDGE DETAIL ROUTER BIT

Carbide Tipped • 2 Flute

Create the edge detail to the rosette to achieve the finished look.

ØD	a°	R	В	Ød	L	Tool No.
15/16	20°	9/64	1/4	1/4	1-5/8	49532

Replacement bearing #47706.



Optional Edge Made With Tool #49532



INDUSTRIAL BORING BITS



Counterbores and more!

82° COUNTERSINKS

Carbide Tipped • For Wood Screws • 2-Wing With Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

Used to countersink holes for the heads of screws. The 2-flute integral design ensures uniform and concentric results each and every time. Carbide tips provide chip-free hole edges and lasts much longer than steel countersinks.

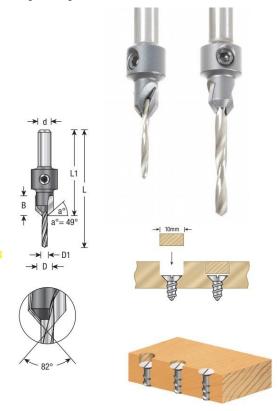
Excellent For Drilling:

- Natural Woods
- Man-Made Boards
- Chipboard Plywood
- · Aluminum/Non-Ferrous
- . Aluminum Composite Material (ACM)
- Composites
- Composite Decking Materials
- . High Density Polyethylene (HDPE)

Wood Screw Size	ØD	ØD1	В	Ød	L1	L	Repl. Drill Bit	Tool No.	
#4	11/32	3/32	1/2	5/16	1-5/8	2-1/4	630-002	55200	
#4	3/8	5/64	1/2	5/16	1-5/8	2-9/16	630-001	55207	New
#4	3/8	7/64	1/2	5/16	1-5/8	2-3/8	630-098	55201	
#6	5/16	1/8	1/2	5/16	1-5/8	2-9/16	630-102	55203	
#6	3/8	1/8	1/2	5/16	1-5/8	2-9/16	630-102	55202	
#6	1/2	1/8	1/2	5/16	1-5/8	2-9/16	630-102	55205	
#6	25/64	9/64	1/2	5/16	1-5/8	2-3/4	630-802	55204	
#8	25/64	5/32	1/2	5/16	1-5/8	2-7/8	630-202	55206	
#8	7/16	11/64	1/2	5/16	1-5/8	3	630-302	55208	
#10	7/16	3/16	1/2	3/8	1-3/4	3	630-402	55210	
#10	1/2	3/16	1/2	3/8	1-3/4	3	630-402	55211	
#12	15/32	7/32	1/2	3/8	1-3/4	3	630-502	55212	

Replacement set screw #67083.

▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life. use lubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.



AITIN COATED 82° COUNTERSINKS

Carbide Tipped . For Wood Screws . 2-Wing With Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

AITIN coating provides chip-free edges and last longer than uncoated carbide tipped and much longer than steel countersinks. The 2-flute integral design ensures uniform and concentric results each and every time. Used to countersink holes for the heads of screws.

AITIN COATED BITS

Excellent For Drilling:

- · Natural Woods
- Man-Made BoardsMDF
- Chipboard

#4

#6

 Plywood Composites

1/2

1/2

- . Composite Decking Materials . High Density Polyethylene (HDPE)
- Wood Repl. Screw Size ØD ØD1 Ød Drill Bit Tool No.

1-5/8

1-5/8

2-1/4

2-9/16

630-002

630-102

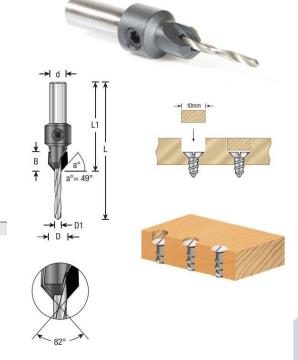
55200XL

55202XL

5/16

5/16

11/32 3/8 Replacement set screw #67083

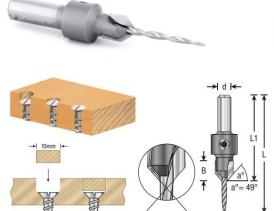




3/32

1/8

INDUSTRIAL BORING BITS



82° COUNTERSINKS

Carbide Tipped • 2-Wing • With Slow Spiral, HSS M2 DIN 338 Fully Ground Tapered Drill

Used to countersink holes for the heads of screws. The 2-flute integral design ensures uniform and concentric results each and every time.

Excellent For Drilling:

Natural Woods

Chipboard Plywood

• MDF

→ M ← D1 → D K

→ d |←

D2 B

→ d l<

► D1 → D |

- Man-Made Boards
- Aluminum/Non-Ferrous Aluminum Composite Material (ACM)
- Composites
- . Composite Decking Materials
 - . High Density Polyethylene (HDPE)

Wood							Repl.		
Screw Size	ØD	ØD1	В	Ød	L1	L	Drill Bit	Tool No.	
#4	11/32	3/32	1/2	5/16	1-5/8	2-1/4	630-262	55600	Г
#6	3/8	1/8	1/2	5/16	1-5/8	2-9/16	630-266	55602	
#6	25/64	9/64	1/2	5/16	1-5/8	3	630-268	55604	
#8	7/16	11/64	1/2	5/16	1-5/8	3-1/4	630-272	55608	
#10	7/16	3/16	1/2	3/8	2	3-1/2	630-274	55610	

Replacement set screw #67083.

82° COUNTERSINKS New

Carbide Tipped • 2-Wing

With Slow Spiral, HSS M2 DIN 338 Fully Ground Stepped Drill

Used to countersink holes for the heads of screws. The 2-flute integral design ensures uniform and concentric results each and every time.

Excellent For Drilling:

- Natural Woods Man-Made BoardsMDF
- Aluminum/Non-Ferrous
 Aluminum Composite Material (ACM)
 Composites

- Chipboard
- . Composite Decking Materials
- Plywood
- . High Density Polyethylene (HDPE)

Soft Wood	Hard Wood								кері.	
Screw Size	Screw Size	ØD	ØD1	ØD2	В	Ød	L1	L	Drill Bit	Tool No.
#6	#5	25/64	9/64	3/32	5/8	5/16	1-3/4	2-3/4	630-010	55120
#8	#6	25/64	5/32	7/64	3/4	5/16	1-3/4	3	630-012	55122
#9-10	#8	7/16	11/64	1/8	7/8	5/16	1-3/4	3-1/8	630-014	55124

Replacement set screw #67083.

82° COUNTERSINKS

Quick Release 1/4" Hex Shank . Carbide Tipped . 2-Wing With Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

Drill pilot hole and tapered countersink for wood screws. The 2-flute integral design ensures uniform and concentric results each and every time.

Excellent For Drilling:

- Natural Woods
- Aluminum/Non-Ferrous
- Man-Made Boards
- Aluminum Composite Material (ACM)
- MDF
- Composites
- Chipboard
- Composite Decking Materials
- Plywood
- . High Density Polyethylene (HDPE)

Wood	12200			10220		Optional	Repl.	
Screw Size	ØD	ØD1	a°	Ød	L	Depth-Stop	Drill Bit	Tool No.
#4	3/8	5/64	49°	1/4	2-1/8	608-120	630-001	55260
#6	3/8	3/32	49°	1/4	2-1/8	608-120	630-002	55262
#8	3/8	7/64	49°	1/4	2-1/8	608-120	630-098	55264
#10	3/8	1/8	49°	1/4	2-1/8	608-120	630-102	55266
#12	1/2	9/64	49°	1/4	2-1/8	608-122	630-802	55268
#12 to #14	3/8	5/32	49°	1/4	2-1/8	608-120	630-202	55269

Replacement parts: Set screw #67083; Hex key #5009.



A Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use llubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.





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→ D1 D I←

→ I I← D1 → D I ←

82° COUNTERSINKS

Quick Release 1/4" Hex Shank . Carbide Tipped . 2-Wing With Taper Point HSS M2 DIN 338 Fully Ground Drill

Drill pilot hole and tapered countersink for wood screws. The 2-flute integral design ensures uniform and concentric results each and every time.

Excellent For Drilling:

- Natural Woods
- · Man-Made Boards
- MDF
- · Chipboard
- Plywood
- · Aluminum/Non-Ferrous
- · Aluminum Composite Material (ACM)
- Composites
 Composite Decking Materials
- High Density Polyethylene (HDPE)

Wood						Repl.	
Screw Size	ØD	ØD1	a°	Ød	L	Drill Bit	Tool No.
#4	3/8	5/64	49°	1/4	2-1/8	630-260	55620
#6	3/8	3/32	49°	1/4	2-1/8	630-262	55622
#8	3/8	7/64	49°	1/4	2-1/8	630-264	55624
#10	3/8	1/8	49°	1/4	2-1/8	630-266	55626
#12	1/2	9/64	49°	1/4	2-1/8	630-268	55628

Replacement parts: Set screw #67083; Hex key #5009.

82° COUNTERSINKS FOR New FESTOOL® CENTROTEC®

Carbide Tipped • 2-Wing With Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

Drill pilot hole and tapered countersink for wood screws. The 2-flute integral design ensures uniform and concentric results each and every time.

Excellent For Drilling:

- Natural Woods · Man-Made Boards
- MDF
- ChipboardPlywood
- · Aluminum/Non-Ferrous
- · Aluminum Composite Material (ACM)
- · Composites
- . Composite Decking Materials

Wood						Optional	Repl.	
Screw Size	ØD	ØD1	a°	Ød	L	Depth-Stop	Drill Bit	Tool No.
#6	3/8	3/32	49°	CENTROTEC®	2-29/32	608-120	630-002	55612
#8	3/8	7/64	49°	CENTROTEC®	2-29/32	608-120	630-098	55613
#10	3/8	1/8	49°	CENTROTEC®	2-29/32	608-120	630-102	55614



Optional Depth-Stop #608-120

82° COUNTERSINKS FOR New FESTOOL® CENTROTEC®

Carbide Tipped • 2-Wing

With Taper Point HSS M2 DIN 338 Fully Ground Drill

Drill pilot hole and tapered countersink for wood screws. The 2-flute integral design ensures uniform and concentric results each and every time.

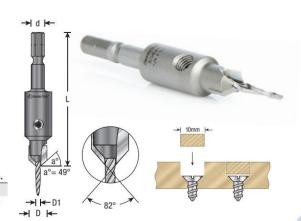
Excellent For Drilling:

- · Natural Woods
- · Man-Made Boards
- MDF
- Chipboard Plywood
- · Aluminum/Non-Ferrous · Aluminum Composite Material (ACM)
- Composites
- Composite Decking Materials

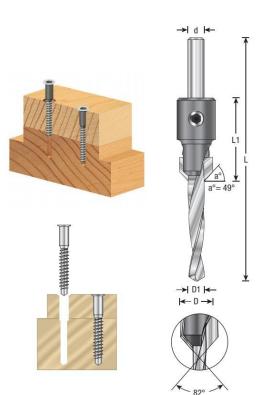
Wood						Optional	Repl.	
Screw Size	ØD	ØD1	a°	Ød	L	Depth-Stop	Drill Bit	Tool No.
#8	3/8	7/64	49°	CENTROTEC®	2-29/32	608-120	630-264	55644
#10	3/8	1/8	49°	CENTROTEC®	2-29/32	608-120	630-266	55646



▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use llubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.







82° SHANKLESS COUNTERSINKS New

Carbide Tipped • 2-Wing

With Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

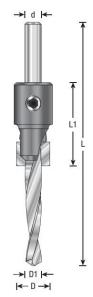
Used to countersink holes for the heads of screws. The 2-flute integral design ensures uniform and concentric results each and every time.

Excellent For Drilling:

- Natural Woods
- Man-Made Boards
 MDF
- Chipboard Plywood

- Aluminum/Non-Ferrous
 Aluminum Composite Material (ACM)
 Composites
 Composite Decking Materials
 High Density Polyethylene (HDPE)

Wood						Repl.	
Screw Size	ØD	ØD1	Ød	L1	L	Drill Bit	Tool No.
#20	5/8	5/16	5/16	1-1/2	4-5/8	630-704	55130
#24	3/4	3/8	3/8	1-1/2	4-15/16	630-706	55134
#24	1	3/8	3/8	2	4-15/16	630-706	55136



SHANKLESS COUNTERBORES New

Carbide Tipped • 2-Wing

With Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

Used to countersink holes for the heads of screws. The 2-flute integral design ensures uniform and concentric results each and every time.

Excellent For Drilling: • Aluminum/Non-Ferrous • Aluminum Composite Material (ACM)

- Natural Woods
- Man-Made Boards
- Chipboard Plywood
- · Composites
- Composites
 Composite Decking Materials
 High Density Polyethylene (HDPE)

Wood Screw Size	ØD	ØD1	Ød	L1	L	Repl. Drill Bit	Tool No.
#20	5/8	5/16	5/16	1-1/2	4-5/8	630-704	55140
#20	3/4	5/16	5/16	1-1/2	4-5/8	630-704	55141
#24	3/4	3/8	3/8	1-1/2	4-15/16	630-706	55142
#24	1	3/8	3/8	2	4-15/16	630-706	55143
_	1-1/8	1/2	1/2	2	5-15/16	630-708	55145



▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use llubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.

COUNTERBORES

Quick Release 1/4" Hex Shank • Carbide Tipped • 2-Wing With Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

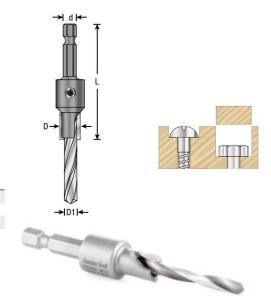
Flat bottom counterbores for using round head screws, hex bolts, etc. Includes pilot drill.

Excellent For Drilling:

- Natural WoodsMan-Made Boards
- Aluminum/Non-FerrousAluminum Composite Material (ACM)
- MDF
- Composites
- ChipboardPlywood
- Composite Decking Materials

				Repl.	
ØD	ØD1	Ød	L	Drill Bit	Tool No.
3/8	3/16	1/4	2-3/16	630-402	55282
1/2	1/4	1/4	2-3/4	630-702	55286
5/8	1/4	1/4	2-3/4	630-702	55288

Replacement parts: Set screw #67083; Hex key #5009.



ADJUSTABLE DEPTH-STOP NO-MAR ADAPTER WITH NO THRUST BEARING

For Amana Tool® 5/16" Dia. Round Shank Carbide Tipped Countersinks & Counterbores

No Burning, No Marring & No Friction

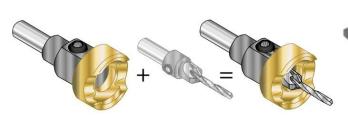
Adjustable, no friction, heavy-duty revolving metal depth stopper produces a clean surface and provides simple, adjustable depth-stop developed for quick and easy adjustment of the countersink and drill depth. The user friendly design enables control of both without the need to disassemble the depth-stop.

The minimum countersink depth while using the adapter will be 1/16" and the maximum 3/8".

Fits the following Amana Tool® carbide tipped countersinks and counterbores with a 5/16" diameter round shank:

- 55200XL 55202XL 55205 55208 55602 • 55201 • 55203 • 55206 • 55208XL • 55604

ØD	Ød	L (Adjustable)	Tool No.
1-1/4	3/8	2-1/2 - 2-25/32	55246



(Countersink sold separately)





▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use llubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.

INDUSTRIAL BORING BITS

• 55608



A must-have tool for every woodworker!

82° COUNTERSINK WITH ADJUSTABLE **DEPTH-STOP & NO-THRUST BEARING**

Quick Release 1/4" Hex Shank . Carbide Tipped 2-Wing With HSS M2 Fully Ground Drill

No Burning, No Marring & No Friction

Features an adjustable, heavy-duty, revolving metal depth-stopper with a strong thrust ball bearing for quick and easy adjustment of the countersink depth without scratching or burning surfaces. The open space allows for chip evacuation.

User friendly design enables control of the drill length and its replacement, without the need to disassemble the depth-stop.

Enables users to drill a pilot hole and tapered countersink in one step. Adjustable depth stop and independent stop collar prevent marking of the work-piece and perfect countersink depth control.

Excellent For Drilling:

- Aluminum/Non-Ferrous
- Aluminum Composite Material (ACM)
- · Chipboard
- Composites
- Composite Decking Materials
- Man-Made Boards
- MDF
- Natural Woods
- Plywood
- High Density Polyethylene (HDPE)

Wood Screw							Drill	Repl.	Repl.		
Size	ØD	ØD1	В	a°	Ød	L	DIN	Drill Bit	Counersink	Tool No	
#4	3/8	5/64	3/64-3/8	49°	1/4	2-5/8	1897	630-220	55273	55226	New
#4	3/8	3/32	3/64-3/8	49°	1/4	2-5/8	338	630-222	55271	55225	
#6	3/8	7/64	3/64-3/8	49°	1/4	2-5/8	338	630-224	55220	55241	New
#6	3/8	1/8	3/64-3/8	49°	1/4	2-5/8	1897	630-226	55220	55227	
#6	3/8	9/64	3/64-3/8	49°	1/4	2-5/8	1897	630-228	55220	55228	
#8	3/8	5/32	3/64-3/8	49°	1/4	2-5/8	1897	630-230	55220	55229	
#8	1/2	11/64	3/64-3/8	49°	1/4	2-3/4	1897	630-234	55222	55240	
#10	1/2	3/16	3/64-3/8	49°	1/4	2-3/4	1897	630-236	55222	55242	
#14 Replace	1/2 emen	1/4 t NF1/4 :	3/64-3/8 x 1/4 set sc			2-9/16 for tighte		630-702 epth stop.	-	55244**	Nev

Replacement NF1/4-28 x 3/16 set screw #67083 for drill tightening. Replacement 1/8 x 5/32 double-sided hex key #5019 (included).

A must-have tool for every woodworker!

82° COUNTERSINK WITH TAPERED New DRILL AND ADJUSTABLE DEPTH-STOP WITH NO-THRUST BEARING

Quick Release 1/4" Hex Shank . Carbide Tipped 2-Wing With Tapered HSS M2 Fully Ground Drill

No Burning, No Marring & No Friction

Features an adjustable, heavy-duty, revolving metal depth-stopper with a strong thrust ball bearing for quick and easy adjustment of the countersink depth without scratching or burning surfaces. The open space allows for chip evacuation.

User friendly design enables control of the drill length and its replacement, without the need to disassemble the depth-stop.

Excellent For Drilling:

- · Aluminum/Non-Ferrous
- · Aluminum Composite Material (ACM)
- Chipboard
- Composites
- Composite Decking Materials
- · Man-Made Boards
- MDF
- Natural Woods
- Plywood
- . High Density Polyethylene (HDPE)

Wo	od Scr	ew						Drill	Repl.	
	Size	ØD	ØD1	В	a°	Ød	L	DIN	Drill Bit	Tool No.
	#4	3/8	5/64	3/64-3/8	49°	1/4	2-5/8	338	630-260	55156
	#4	3/8	3/32	3/64-3/8	49°	1/4	2-5/8	338	630-262	55150
	#6	3/8	1/8	3/64-3/8	49°	1/4	2-5/8	1897	630-266	55151
	#6	3/8	9/64	3/64-3/8	49°	1/4	2-5/8	1897	630-268	55152
	#8	3/8	5/32	3/64-3/8	49°	1/4	2-5/8	1897	630-270	55153
	#8	1/2	11/64	3/64-3/8	49°	1/4	2-3/4	1897	630-272	55154
	#10	1/2	3/16	3/64-3/8	49°	1/4	2-3/4	1897	630-274	55155

Replacement NF1/4 x 1/4 set screw #67070 for tightening depth stop. Replacement NF1/4-28 x 3/16 set screw #67083 for drill tightening. Replacement 1/8 x 5/32 double-sided hex key #5019 (included).

▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use llubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.

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A must-have tool for every woodworker!

82° COUNTERSINK WITH ADJUSTABLE New **DEPTH-STOP & NO-THRUST BEARING**

Quick Release 1/4" Hex Shank • Carbide Tipped 2-Wing With Tapered HSS M2 Fully Ground Drill

No Burning, No Marring & No Friction

Features an adjustable, heavy-duty, revolving metal depth-stopper with a strong thrust ball bearing for quick and easy adjustment of the countersink depth without scratching or burning surfaces. The open space allows for chip evacuation.

User friendly design enables control of the drill length and its replacement, without the need to disassemble the depth-stop.

Excellent For Drilling:

- Aluminum/Non-Ferrous
- Aluminum Composite Material (ACM)
- Chipboard
- Composites
- Composite Decking Materials
 Man-Made Boards
- MDF
- Natural Woods
- Plywood



Wood Scro	ew ØD	ØD1	В	a°	Ød	L	Drill DIN	Repl. Drill Bit	Tool No.
#4	3/8	5/64	3/64-3/8	49°	1/4	2-5/8	338	630-260	55156
#4	3/8	3/32	3/64-3/8	49°	1/4	2-5/8	338	630-262	55150
#6	3/8	1/8	3/64-3/8	49°	1/4	2-5/8	1897	630-266	55151
#6	3/8	9/64	3/64-3/8	49°	1/4	2-5/8	1897	630-268	55152
#8	3/8	5/32	3/64-3/8	49°	1/4	2-5/8	1897	630-270	55153
#8	1/2	11/64	3/64-3/8	49°	1/4	2-3/4	1897	630-272	55154

#10 1/2 3/16 3/64-3/8 49° 1/4 2-3/4 1897 630-274 **55155**

Replacement NF1/4 x 1/4 set screw #67070 for tightening depth stop. Replacement NF1/4-28 x 3/16 set screw #67083 for drill tightening. Replacement 1/8 x 5/32 double-sided hex key #5019 (included).





A must-have tool for every woodworker!

82° COUNTERSINK WITH ADJUSTABLE New DEPTH-STOP & NO-THRUST BEARING FOR FESTOOL® CENTROTEC®

Hybrid Quick Release 1/4" Hex Shank For Festool® CENTROTEC® Carbide Tipped 2-Wing With HSS M2 Fully Ground Drill

No Burning, No Marring & No Friction

Tool designed with a unique shank with hex part and round part.

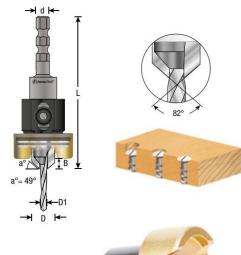
Fits both Festool® CENTROTEC® drill machines and standard quick-change chucks for

Features an adjustable, heavy-duty, revolving depth-stop with a strong thrust ball bearing for quick and easy adjustment of the countersink depth without scratching or burning surfaces. See above table for material cut list.

V	lood Scr	ew						Drill	Repl.	
	Size	ØD	ØD1	В	a°	Ød	L	DIN	Drill Bit	Tool No.
	#4	3/8	3/32	3/64-3/8	49°	1/4	2-5/8	338	630-222	55331
	#6	3/8	1/8	3/64-3/8	49°	1/4	2-5/8	1897	630-226	55334
	#8	3/8	5/32	3/64-3/8	49°	1/4	2-5/8	1897	630-230	55336
	#10	1/2	3/16	3/64-3/8	49°	1/4	2-3/4	1897	630-236	55338

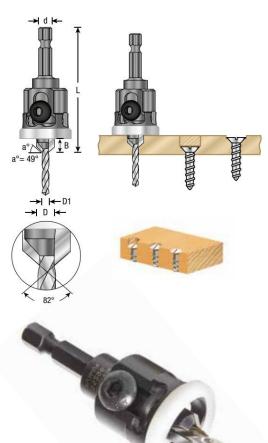
Replacement NF1/4 x 1/4 set screw #67070 for tightening depth stop. Replacement NF1/4-28 x 3/16 set screw #67083 for drill tightening. Replacement 1/8 x 5/32 double-sided hex key #5019 (included).

▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use llubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.





INDUSTRIAL BORING BITS



A must-have tool for every woodworker!

82° COUNTERSINK WITH ADJUSTABLE LOW FRICTION DEPTH-STOP

Quick Release 1/4" Hex Shank • 2-Wing • Carbide Tipped With HSS M2 Slow Spiral Fully Ground Drill DIN 1897

Low Friction Polymer Collar

No surface scratches or burn marks!

These tools combine carbide countersink, high-speed steel drill bit and free-spinning, low friction depth-stop. The countersink leaves a clean hole edge and the adjustable depth-stop doesn't mar the surface. The large openings around the collar allow the chips to clear effectively and eliminate clogging.

Excellent For Drilling:

- Aluminum/Non-Ferrous
- Aluminum Composite Material (ACM)
- Chipboard
- Composites
- . Composite Decking Materials
- Man-Made Boards
- MDF
- Natural Woods
- Plywood
- . High Density Polyethylene (HDPE)

Wood Scre	ew						Repl.	
Size	ØD	ØD1	В	a°	Ød	L	Drill Bit	Tool No.
#4	3/8	7/64	9mm	49°	1/4	2-3/8	630-224	55293
#6	3/8	1/8	9mm	49°	1/4	2-3/8	630-226	55294
#6	1/2	9/64	9mm	49°	1/4	2-3/8	630-228	55295
#9	2/2	5/32	Qmm	4Q°	1//	2-3/8	630-330	55206

Replacement NF1/4 x 1/4 set screw #67070 for tightening depth stop. Replacement NF1/4-28 x 3/16 set screw #67083 for drill tightening. Replacement 1/8 x 5/32 double-sided hex key #5019 (included).

▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use lubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.









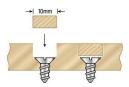
COUNTERSINK & PLUG SET

Carbide Tipped • 10mm Diameter Countersink & Plug

- . Drilling & Countersinking with a single tool.
- . Concealing of screwheads with plugs which perfectly fit with countersink.
- Designed for portable drills and drill presses.

Description	Drill Dia.	Tool No.
2 Pc. Countersink & Plug Cutter	1/8	PS-100
2 Pc. Countersink & Plug Cutter	9/64	PS-200
2 Pc. Countersink & Plug Cutter	11/64	PS-400
All 4 Countersinks & Drills & 1 Plug Cutter	1/8, 9/64, 5/32 & 11/64	PS-500
Plug Cutter only (10mm dia.)	-	PLC-100

Note: All countersinks are carbide-tipped. The plug cutter and drill bits are high-speed steel. Countersinks have 8mm shank diameter.









10-PC. COUNTERSINK MASTER SET New

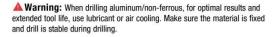
Complete Countersink Set

- · Drilling & Countersinking with a single tool.
- Concealing of screwheads with plugs which perfectly fit with countersink.
- · Designed for portable drills and drill press

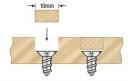
Excellent For Drilling:

- · Aluminum/Non-Ferrous
- Aluminum Composite Material (ACM)
 • Chipboard
- Composites
- . Composite Decking Materials
- Man-Made Boards
- MDF
- Natural Woods
- Plywood

Dia.	Cut Height	Shank	Length	Туре	Includes
3/8	1/2	5/16	2-9/16	Countersink	55202
25/64	1/2	5/16	2-3/4	Countersink	55204
25/64	1/2	5/16	2-7/8	Countersink	55206
3/8		1/4	2-1/8	Quick Release Countersink	55264
3/8	-	1/4	2-1/8	Quick Release Countersink	55266
3/8	_	1/4	2-1/8	Quick Release Countersink	55624
3/8	-	1/4	2-1/8	Quick Release Countersink	55626
3/8	3/64-3/8	1/4	2-5/8	No-Mar Countersink	55227
3/8	5/64-11/32	1/4	2-3/8	Low Friction Countersink	55293
3/8	_	3/8	2	Wood Plug Cutter	607-110
				Complete 10-Pc Set	AMS-620









55202, 55204, 55206, 55264, 55266, 55624, 55626, 55227 & 55293

607-110

COUNTERSINK SET

1/4 Hex Shank . Solid Carbide Router Bit

Used to countersink holes for the heads of screws in woods, plastic and non-ferrous materials. The 2-flute integral design ensures uniform and concentric results each and every time. Carbide tips provide chip free hole edges and lasts much longer than steel countersinks.

Available in a wide variety of sizes, complete with the HSS M2 fully ground drill bit.

Excellent For Drilling:

- Natural Woods
- · Man-Made Boards
- MDF
- ChipboardPlywood
- · Aluminum/Non-Ferrous
- Aluminum Composite Material (ACM)
- Composites
- Composite Decking Materials

3-Pc Countersink with Adjustable Depth Stop and No-Thrust, No-Mar Ball Bearing Set with Quick Release Shank

Includes	Set No.	
55227, 55271, 55274	AMS-627	

6-Pc Countersink with Adjustable Depth Stop and No-Thrust, No-Mar Ball Bearing Set with Quick Release Shank and Replacement HSS Drills

Includes	Set No.
55227, 55271, 55274, 630-262, 630-266, 630-27	0 AMS-628

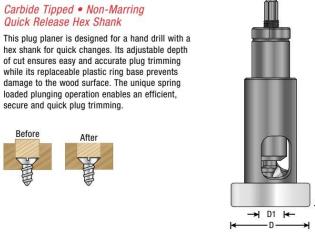


INDUSTRIAL BORING BITS



Photo credit Randy O'Rouke. Wood Flooring by Charles Peterson, published by The Taunton Press in 2010





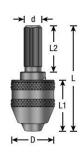
 a

ØD	ØD1	Ød	L	Tool No.
2	15mm	1/4	4-3/4	PLP-100









QUICK CHANGE CHUCK

Simply pull sleeve to change drill bits, screwdrivers, countersinks and other power bits. Special long shaft for use with keyless chucks. This is an industrial quality accessory manufactured with exacting tolerances.

ØD	Ød	L	L1	L2	Tool No.
15/16	3/8	2	1-7/6/	1	55208







Improved Spiral Action for Better Chip Ejection

COUNTERBORES†

Fits Evans, Ritter, Unique, Marcon, Norfield® and Castle® Face Frame Machines

Carbide Tipped

Features include precision ground carbide-tipped counterbore for splinter-free cutting, non-slip surface treatment for positive clamping, wide web design for superior strength and replaceable HSS fishtail drills.

Description	ØD	ØD1	Ød	L	Tool No.
Counterbore	3/8	.136	9mm	4	424000

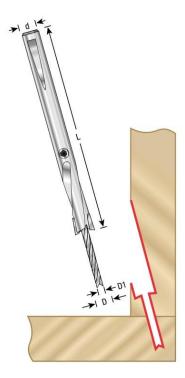
Replacement #8-32 NC set screw, #67010.

#29 Replacement HSS Fish Tail Drills

Description	ØD1	Ød	L	Tool No.
Standard	.136	_	2-7/8	424004
DHN Surface Treated for Longer Tool Life	.136		2-7/8	424006







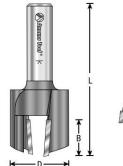


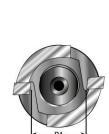
PLUG CUTTER FOR DRILL PRESS

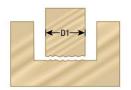
Carbide Tipped • 2 Flute

Must clamp work-piece firmly to drill press table.

ØD	ØD1	В	Ød	L	Tool No.
5/8	.335	1/2	1/2	2-1/2	55217
5/8	3/8	1/2	1/2	2-1/2	55220
25/32	1/2	1/2	1/2	2-1/2	55222
29/32	5/8	1/2	1/2	2-1/2	55224
1-1/32	3/4	1/2	1/2	2-1/2	55223











INDUSTRIAL BORING BITS



3-STEP RTA FURNITURE DRILL/ COUNTERSINK ASSEMBLY

With HSS Slow Spiral Dril

Commonly used for RTA (ready-to-assemble) furniture fittings. Specially-treated high-speed steel countersink with polished slow-spiral drill bit. Will perform 3 tasks in one: pilot hole, clearance hole and countersink. For connecting screws (Confirmat, Directa, etc.). The shankless countersink is heat treated.

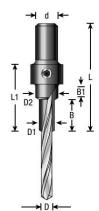
ØD	ØD1	ØD2	В	B1	Ød	L1	L	Tool No.
10mm	5mm	7mm	<30mm*	25mm	7mm	30mm	106mm	55650

* B can be adjusted up to 30mm.

Replacement parts: 5x7mm Stepped drill #55107; Hex key #5009.







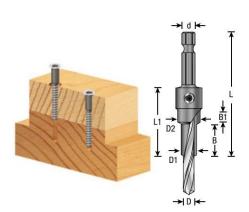
3-STEP RTA FURNITURE DRILL/ COUNTERSINK

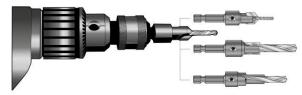
With HSS Slow Spiral Drill

Commonly used for RTA (ready-to-assemble) furniture fittings. Specially-treated high-speed steel countersink with polished slow-spiral drill bit. Will perform 3 tasks in one: pilot hole, clearance hole and countersink. For connecting screws (Confirmat, Directa, etc.). The shankless countersink is heat treated.

ØD	ØD1	ØD2	В	B1	Ød	L1	L	Tool No.
3.5mm	5mm	7mm	15mm	5mm	10mm	33mm	52mm	55102
5mm	7mm	10mm	19mm	5mm	10mm	32mm	58mm	55103

Replacement 3.5mm HSS slow spiral drill bit, 2-3/4" long, #55104. Replacement 5.0mm HSS slow spiral drill bit, 3-7/16" long, #55105. Replacement #10-24 set screw, #67092 (requires #5000 3/32" hex key).





RTA FURNITURE DRILL/COUNTERSINK

RTA furniture step drill – bit creates steps for the "Confirmat" style furniture screw. Used for drilling pilot hole, clearance hole and countersinking.

ØD	ØD1	ØD2	В	B1	Ød	L1	L	Tool No.
3.5mm	5mm	7mm	15mm	5mm	1/4	33mm	60mm	55290
5mm	7mm	10mm	19mm	5mm	1/4	38mm	62mm	55292

Replacement 3.5mm HSS slow spiral drill bit, 2-3/4" long, #55104. Replacement 5.0mm HSS slow spiral drill bit, 3-7/16" long, #55105. Replacement #10-24 set screw, #67092 (requires #5000 3/32 hex key).





'DI-COUNT'™ ADJUSTABLE COUNTERSINK

Carbide-Tipped • 2-Wing

ØD	a°	В	Ød	L	Drill No.	Tool No.
7/16 to 19/32	45°	7/16	3/32 to 9/32	1-1/4	_	20200
5/8 to 25/32	45°	5/8	1/4 to 13/32	1-11/32	630-702	20202 *

* Includes 1/4" diameter slow spiral, HSS M2 DIN 338 fully ground drill. 20200 accepts drills from 3/32" to 9/32" (Wood Screw Sizes #2 through #18). 20202 accepts drills from 1/4" to 13/32" (Wood Screw Sizes #2 through #18). Replacement Allen screws (2 required) #67090.

Replacement 3mm hex key #5004 (included).

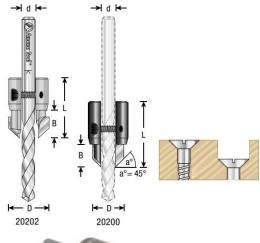
Drills not included with 20200.

▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use lubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.











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ADJUSTABLE COUNTERBORE

Carbide-Tipped • 2-Wing

Slow Spiral, HSS M2 DIN 338 Fully Ground Drill

Accepts Drills from 3/32" through 9/32" (Wood Screw Sizes #2 through #18).

ØD	В	Ød	L	Drill No.	Tool No.
29/64 to 5/8	15/32	1/8 to 9/32	1-3/32	630-102	20204**
27/32 to 1	5/8	1/4 to 13/32	1-5/16	630-702	20206*

^{**} Includes 1/8" diameter drill.

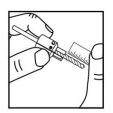
Replacement Allen screws (2 required) #67090.

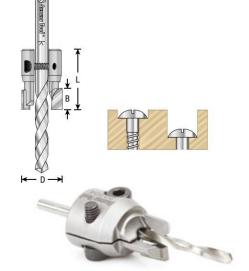
Replacement 3mm hex key #5004 (included).

▲ Warning: When drilling aluminum/non-ferrous, for optimal results and extended tool life, use lubricant or air cooling. Make sure the material is fixed and drill is stable during drilling.









ADJUSTABLE UNIVERSAL DRILL-DEPTH STOPS

Can be clamped onto any drill* from 3mm to 10mm. An innovation and universal solution to the problem of drilling holes to an accurate depth. Special design to minimize any marks on the surface being drilled. User friendly - quick assembly and easy drill-depth adjustment.

* Drills not included.

Range of Drill Diameters	Tool No.
3mm to 7mm (1/8 to 1/4)	20210
6mm to 10mm (1/4 to 3/8)	20212

Replacement 3mm hex key #5004 (not included).



INDUSTRIAL BORING BITS

^{*} Includes 1/4" diameter drill.



MULTI-TOOTH FORSTNER BITS

High Carbon Tool Steel . 1/2" Shank

Specially designed Forstner bits for cutting telephone and computer wire grommet access holes in office furniture. All tools feature precision ground and tempered tool steel, multi-tooth cutting edges for faster cutting and chip removal, and massive cutter body to dissipate heat and resist burning.

ØD	Ød	L	Tool No.
2-1/4 (57mm)	1/2	6	F0-558
2-3/8 (60mm)	1/2	6	F0-562
3 (76mm)	1/2	6	F0-574
3-1/8 (80mm)	1/2	6	F0-560

FORSTNER PATTERN BITS

High Carbon Tool Steel . 2-Wing

Application: Drill pocket-holes, flat-bottom holes*, etc., using any 3/8" or larger portable drill or stationary drill press. Forstner pattern bits are well known for their ability to drill clean and chip-free holes in wood. Amana Tool® uses only the finest quality tool steel, precision machined and ground on state-of-the-art equipment. Large gullets milled in the tool body provide exceptional chip clearance.



22	233	920	22 1000
ØD	Ød	L	Tool No.
1/4	5/16	3-1/2	F0-080
3/8	3/8	3-1/2	F0-095
5/16	3/8	3	F0-079
7/16	3/8	3-1/2	F0-111
1/2	3/8	3-1/2	F0-127
9/16	3/8	3-1/2	F0-142
5/8	3/8	3-1/2	F0-160
11/16	3/8	3-1/2	F0-174
3/4	3/8	3-1/2	F0-190
13/16	3/8	3-1/2	F0-206
7/8	3/8	3-1/2	F0-222
15/16	3/8	3-1/2	F0-238
1	3/8	3-1/2	F0-254
1-1/16	3/8	3-1/2	F0-269
1-1/8	3/8	3-1/2	F0-285
1-1/4	3/8	3-1/2	F0-317
1-3/8	3/8	3-1/2	F0-349
35mm	3/8	3-1/2	F0-350
1-1/2	3/8	3-1/2	F0-381
1-5/8	3/8	3-1/2	F0-413
1-3/4	3/8	3-1/2	F0-445
1-7/8	3/8	3-1/2	F0-476
2	3/8	3-1/2	F0-508
2-1/8	3/8	3-1/2	F0-540
2000/00/00 SE 7000 No 1			

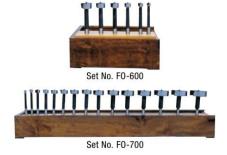
^{*} Note: A small pilot hole used for centering will be present on flat bottom holes.

FORSTNER PATTERN SETS

High Carbon Tool Steel . 3/8" Shank

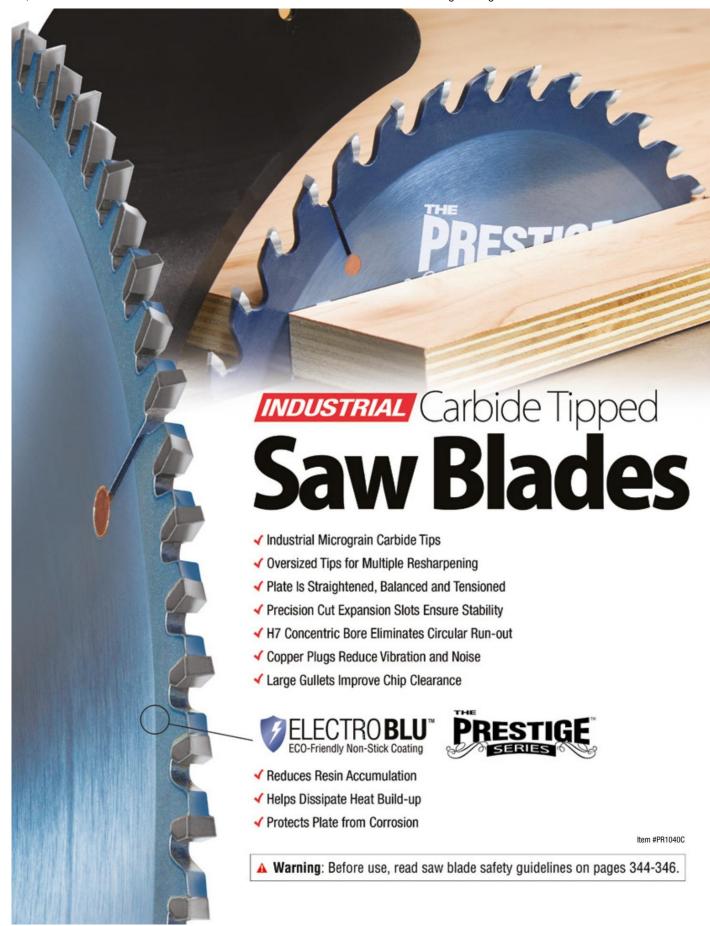
All sets are packed in beautiful, custom-made hardwood cases. Features a sliding, clear acrylic door with sizes imprinted on the front and a pre-drilled bit tray that rotates for easy access to your tools.

Description	Order #
6-Piece Forstner bit set, 3/8" shank. Sizes: 3/8, 1/2, 5/8, 3/4, 7/8, 1.	F0-600
15-Piece Forstner bit set, 3/8" shank.	F0-700
Sizes: All 15 fractional sizes (3/8 through 2-1/8 in 1/8 increments)	





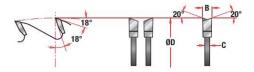






GENERAL PURPOSE

18° Hook Alternate Top Bevel (ATB) Grind



The Amana Tool® Prestige™ general purpose blade cuts smoother and stays sharper longer in solid wood, plywood, MDF and chipboard. It features a massive tool-steel plate (.102" thick!) with expansion slots and copper plugs that practically eliminate vibration. The 40 teeth are ground with a steep 20° bevel angle, alternating left and right, for crisp, clean cuts both across grain and with the grain. The 18° hook angle yields an effortless feed. The precision-ground carbide teeth are individually computer-verified to have minimal run-out.

- Massive (.102" thick!) tool-steel plate with copper plugs that practically eliminates vibration.
- · Precision-ground carbide teeth (20° ATB, hook) are individually computer verified for run-out of less than 1/10,000" on all axis.

Prestige™ General Purpose Rated "EXCELLENT" for

- Ripping solid wood
- Crosscutting solid wood
- ✓ Ripping plywood
- ✓ Crosscutting plywood





Ripping





Cabinet Plywood Rip/Crosscut



ØD			'B' Kerf	'C' Plate				
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	40	ATB	.134	.102	5/8	_	PR1040
10	250	40	ATB	.134	.102	5/8	-	PR1040C *
10	250	40	ATB	.134	.102	30mm	2/7/42, 2/9/46 & 2/10/60	PR1040-30C* Nev
12	300	40	ΔTR	134	102	1	1	PR1240

^{*} Electro Blu™ Non-Stick Coating.



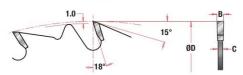
^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

[▲] Warning: Before use, read saw blade safety guidelines on pages 344-346.

'EURO-RIP' RIPPING

With Cooling Slots and Anti-Kickback Feature

18° Hook • Flat Top (FT) Grind



Designed for ripping hardwood and softwood, this exceptional blade cuts fast and smooth. The flat-top grind and the high positive hook angle reduce feed effort. The anti-kickback limits the thickness of chip; taken to offer a safer cut. Cooling slots in the body prevent excessive heat build-up.



Soft/Hardwood Ripping

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	20	FT	.126	.087	5/8	_	RB1020
10	250	20	FT	.126	.087	5/8	<u></u>	RB1020C*
12	300	24	FT	.126	.087	1	_	RB1224
12	300	24	FT	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	RB1224-30
14	350	28	FT	.126	.087	1	_	RB1428
14	350	28	FT	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	RB1428-30
16	400	28	FT	.137	.098	1	-	RB1628

^{*} Electro Blu™ Non-Stick Coating.

RIPPING STANDARD

18° to 20° Hook • Flat Top (FT) Grind



This blade is the classic ripper for both hardwood and softwood. It features the flat-top grind for cutting with the grain efficiently; ample gullets for fast chip-clearance; expansion slots and turbulence-reducing copper plugs. Available in 18° and 20° hook configurations. The blade with the 20° hook angle features a thicker plate and cuts a wider kerf. Use in single and gang-rip saws.





Soft/Hardwood Ripping

V.	ענ				B. Kell	'C Plate			
Inch	mm	Teeth	Grind	a°	Inch	Inch	Bore	*P.H.	Tool No.
10	250	24	FT	20°	.142	.095	5/8	_	610240
10	250	24	FT	20°	.142	.095	5/8	-	610240C* New
12	300	30	FT	20°	.160	.110	1	-	612300
12	300	30	FT	20°	.173	.110	30mm	2/7/42, 2/9/46 & 2/10/60	612300-30
18	450	32	FT	20°	.157	.110	1	_	618320
20	500	36	FT	20°	.173	.110	1	-	620360

^{*} Electro BluTM Non-Stick Coating.

()D				'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	aº	Inch	Inch	Bore	*P.H.	Tool No.
10	250	20	FT	18°	.126	.087	5/8	_	610200
12	300	24	FT	18°	.126	.087	1	-	612240
12	300	24	FT	18°	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612240-30
14	350	28	FT	18°	.137	.098	1	-	614280
16	400	32	FT	18°	.137	.098	1	_	616320
16	400	32	FT	18°	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	616320-30

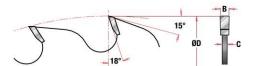
^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



RIPPING HEAVY-DUTY

18° Hook • Flat Top (FT) Grind



Heavy-duty production ripping is this blade's forte. It has all the features needed for use with power feeders and gang-ripping operations: a low tooth count, flat-top grind, deep gullets for efficient chip clearance and a thick plate for reduced vibration.



Soft/Hardwood Ripping

Ø	ØD			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	20	FT	.150	.095	5/8	5 -0	710200
12	300	24	FT	.173	.110	1	1 <u></u> 1	712240
14	350	28	FT	.173	.110	1	-	714280
14	350	28	FT	.173	.110	30mm	2/7/42, 2/9/46 & 2/10/60	714280-30
16	400	32	FT	.173	.118	1	_	716320
16	400	32	FT	.173	.118	30mm	2/7/42, 2/9/46 & 2/10/60	716320-30

GLUE LINE RIPPING

22° Hook • Triple Chip (TC) Grind



Rip then glue up. With this exceptional blade, there's no need for sanding or jointing after the cut. The precision triple-chip grind and extra-high hook angle allow aggressive feed rates, yet produces an extra-smooth cut finish. The thick plate minimizes vibration.

Use on table saws, sliding table saw, single and gang-rip operations.



Soft/Hardwood Ripping

Ø	D	'B' Kerf 'C' Plate					
Inch	mm	Teeth	Grind	Inch	Inch	Bore	Tool No.
10	250	30	TCG	.145	.095	5/8	610301
10	250	30	TCG	.145	.095	5/8	610301C* New
12	300	40	TCG	.160	.110	1	612401
14	350	40	TCG	.169	.118	1	614401

^{*} Electro Blu™ Non-Stick Coating.





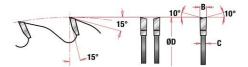


^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

[▲] Warning: Before use, read saw blade safety guidelines on pages 344-346.

MULTI-USE RIPPING/GENERAL PURPOSE

15° Hook • Alternate Top Bevel (ATB) Grind



This is an excellent and popular general purpose configuration blade. Its low tooth count, high hook angle, and ample gullets make it an aggressive, fast-cutting ripping blade. But its ATB grind allows it to crosscut well. A good choice for all-around use.





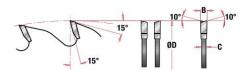


Soft/Hardwood Ripping Soft/Hardwood Crosscut

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	30	ATB	.126	.087	5/8	<u></u>	610300
10	250	30	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	610300-30
12	300	36	ATB	.126	.087	1	_	612360
12	300	36	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612360-30
14	350	42	ATB	.137	.098	1	_	614420
14	350	42	ATB	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	614420-30
16	400	48	ATB	.137	.098	1	_	616480
16	400	48	ATB	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	616480-30
18	450	54	ATB	.150	.110	1	-	618540
20	500	60	ATB	.173	.110	1		620600

GENERAL PURPOSE CUT-OFF

15° Hook • Alternate Top Bevel (ATB) Grind



While similar in most aspects to the blade above, this one has a slightly lower hook angle. That lower angle improves the surface quality of the cut while increasing the feed pressure required. This blade is a good choice for general purpose ripping and crosscutting of hardwoods and softwoods in a range of thicknesses, with occasional cutting of plywood and other man-made materials mixed in.



Soft/Hardwood Ripping Soft/Hardwood Crosscut

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	34	ATB	.118	.079	5/8	_	683400
_	220	34	ATB	.118	.079	30mm	2/7/42	220T340 †
10	250	40	ATB	.126	.087	5/8	_	610400
12	300	48	ATB	.126	.087	1	-	612480
12	300	48	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612480-30
14	350	54	ATB	.137	.098	1		614540
14	350	54	ATB	137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	614540-30
16	400	60	ATB	.137	.098	1	5 	616600
16	400	60	ATB	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	616600-30

[†] For Holz-Her® 220mm panel saws.

▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

THIN KERF GENERAL PURPOSE

15° Hook • Alternate Top Bevel (ATB) Grind



A thin-kerf blade has a slightly thinner plate and cutting tips. The benefits include reduced stress on the saw and its motor and reduced stock loss. Thin-kerf blades typically are used on saws powered by universal motors, including jobsite table saws and the various types of miter saws.

Not recommended for cutting stock thicker than 3/4" unless stabilizer(s) are used.







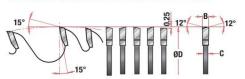
Soft/Hardwood Crosscut

Combination Rip/Crosscut

Ø	D			'B' Kerf	'C' Plate		
Inch	mm	Teeth	Grind	Inch	Inch	Bore	Tool No.
10	250	40	ATB	.090	.062	5/8	TB10400
12	300	48	ATB	.090	.062	1	TB12480
14	350	54	ATB	.090	.062	1	TB14540

COMBINATION RIPPING & CROSSCUT

15° Hook • Combination Grind 4 ATB & 1 Raker



Where one blade must do almost everything - ripping and crosscutting hardwood and softwood, cutting plywood - this blade is a good choice. It is in the traditional combination-blade configuration, with a flat-top tooth and 4 alternate top bevel teeth in groupings of five. The large gullets at the raker tooth allow deep cuts with improved chip ejection.





Combination Rip/Crosscut

Ø	ØD			'B' Kerf	'C' Plate		
Inch	mm	Teeth	Grind	Inch	Inch	Bore	Tool No.
8	200	40	4 & 1	.126	.087	5/8	684004
9	230	40	4 & 1	.126	.087	5/8	694004
10	250	50	4 & 1	.135	.095	5/8	610504
10	250	50	4 & 1	.135	.095	5/8	610504C*
12	300	60	4 & 1	.150	.110	1	612604
14	350	70	4 & 1	.150	.110	1	614704
16	400	80	4 & 1	.158	.118	1	616804

^{*} Electro Blu™ Non-Stick Coating.

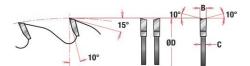


^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

[▲] Warning: Before use, read saw blade safety guidelines on pages 344-346.

CUT-OFF & CROSSCUT

10° Hook • Alternate Top Bevel (ATB) Grind



As our standard cut-off and crosscut blade, this is ideal for table saws and sliding table saws. Its combination of 10° hook and the alternate top bevel tooth grind provide good-quality cuts and a long cutting life. Suitable for hardwood, softwood, even plywood and chipboard. Good choice for heavy production in any cabinet-making shop.



Soft/Hardwood Crosscut

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	48	ATB	.118	.079	5/8	-	684800
10	250	60	ATB	.126	.087	5/8	_	610600
10	250	60	ATB	.126	.087	5/8	_	610600C*
10	250	60	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	610600-30
12	300	60	ATB	.126	.087	1	_	612600
12	300	60	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612600-30
12	300	72	ATB	.126	.087	1	_	612720
12	300	72	ATB	.126	.087	1		612720C*
12	300	72	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612720-30 †
14	350	72	ATB	.137	.098	1	_	614720
14	350	72	ATB	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	614720-30
14	350	84	ATB	.137	.098	1	_	614840
16	400	96	ATB	.137	.098	1	_	616960
18	450	108	ATB	.158	.110	1	_	618108

[†] For Altendorf,® Omega, SCMI,® and Striebig® sliding table saws.

CUT-OFF & CROSSCUT HEAVY-DUTY

10° to 18° Hook • Alternate Top Bevel (ATB) Grind



This is a heavy-duty production blade for general trimming and crosscutting of hardwood and softwood. It has an extra-thick plate and cuts a wide kerf. The hook angle is aggressive, varying from 10° to 18°, depending upon the tooth count and blade diameter. All blades feature the alternate top bevel grind for clean cuts.

Appropriate for use on table saws and radial arm saws.



Soft/Hardwood Crosscut

Ø	D				'B' Kerf	'C' Plate		
Inch	mm	Teeth	Grind	aº	Inch	Inch	Bore	Tool No.
12	300	96	ATB	10°	.173	.110	1	712960
16	400	60	ATB	18°	.173	.110	1	716600
16	400	96	ATB	10°	.173	.110	1	716960

^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

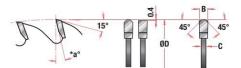
▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} Electro Blu™ Non-Stick Coating.

CUT-OFF & CROSSCUT HEAVY-DUTY

10° to 18° Hook • Triple Chip (TC) Grind



Heavy-duty production blade featuring increased thickness of plate and kerf and more aggressive hook angle. Good for cutting plastic laminated materials, composition board and plywood.







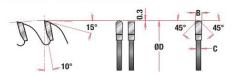
Single & Double Sided

MDF/Fiberboar

Ø	D				'B' Kerf	'C' Plate		
Inch	mm	Teeth	Grind	a°	Inch	Inch	Bore	Tool No.
12	300	60	TCG	15°	.173	.095	1	712601
14	350	72	TCG	15°	.173	.110	1	714721
16	400	80	TCG	10°	.173	.118	1	716801

FINE CUT-OFF & CROSSCUT

10° Hook • Triple Chip (TC) Grind



This blade is ideal for cutting materials with fragile surface layers, like veneers and laminates. High tooth counts yield smooth finishes. The 10° hook angle provides effortless feeding. The triple-chip tooth opens a narrow kerf, and the raker widens it.







Plastic Laminate Single & Double Sided

Plastic Laminate MDF/Fiberboard

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	64	TCG	.118	.079	5/8	-	686401
-	220	64	TCG	.118	.079	30mm	2/7/42	220T641 †
10	250	80	TCG	.126	.087	5/8	-	610801
10	250	80	TCG	.126	.087	5/8	_	610801C*
10	250	80	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	610801-30
12	300	96	TCG	.126	.087	1	·—·	612961
12	300	96	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612961-30
14	350	108	TCG	.137	.098	1	-	614109
14	350	108	TCG	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	614109-30
16	400	120	TCG	.137	.098	1	-	616129

[†] For Holz-Her® 220mm Panel Saws.



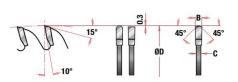
^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

^{*} Electro Blu™ Non-Stick Coating.

[▲] Warning: Before use, read saw blade safety guidelines on pages 344-346.

HEAVY-DUTY GENERAL PURPOSE

10° Hook • Triple Chip (TC) Grind



While this blade handles general trimming and crosscutting of hardwood and softwood, plywood and composition materials, it excels at cutting single or double-sided plastic-laminated material. It leaves a smooth, clean, chip-free finish on the top and bottom edges. The blades in this series feature a high tooth count, the triple-chip grind and a 10° hook angle for a successful compromise between feed effort and cut finish







Plastic Laminate Single & Double Sided

0	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	48	TCG	.118	.079	5/8	_	684801
10	250	60	TCG	.126	.087	5/8	_	610601
10	250	60	TCG	.126	.087	5/8	_	610601C*
10	250	60	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	610601-30
12	300	60	TCG	.126	.087	1	-	612601
12	300	60	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612601-30
12	300	72	TCG	.126	.087	1	_	612721
12	300	72	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	612721-30 †
14	350	54	TCG	.137	.106	1	_	614541
14	350	72	TCG	.137	.098	1	_	614721
14	350	72	TCG	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	614721-30
14	350	84	TCG	.137	.098	1	1 <u>1</u>	614841
16	400	96	TCG	.137	.098	1	_	616961
18	450	108	TCG	.158	.110	1	<u> </u>	618109

[†] For Altendorf,® Omega, SCMI,® and Striebig® sliding table saws.



^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

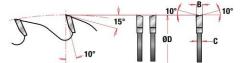
▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} Electro BluTM Non-Stick Coating.

TRIM

10° Hook • Alternate Top Bevel (ATB) Grind



Our trim blade, suitable for use on table saws, sliding table saws, radial arms, and miter saws of all types, leaves a super-smooth finish when cutting hard or softwood. It is especially suited to trimming and sizing veneers and laminates in single sheets or in stacks. The alternate top grind and high tooth counts produce excellent, chip-free cuts. The 10° hook angle provides effortless feeding.

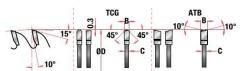


Ø	D			'B' Kerf	'C' Plate		Soft/Hardwood Crosscut	Cabinet Plywood Rip/Crosscut
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	64	ATB	.118	.079	5/8	_	686400
_	220	64	ATB	.118	.079	30mm	2/7/42	220T640+
10	250	80	ATB	.126	.087	5/8	_	610800
10	250	80	ATB	.126	.087	5/8	-	610800C*
10	250	80	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/	60 610800-30
12	300	96	ATB	.126	.087	1	.—	612960
12	300	96	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/	60 612960-30
14	350	108	ATB	.137	.098	1	_	614108
14	350	108	ATB	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/	60 614108-30
16	400	120	ATB	.137	.098	1		616128
18	450	132	ATB	.157	.110	1	_	618132

⁺ For Holz-Her® 220mm Panel Saws.

THIN KERF TRIM

10° Hook • Alternate Top Bevel (ATB) and Triple Chip (TC) Grind



Thin-kerf blades require less power because they have thinner plates and narrower tips. This trim blade is ideal for jobsite table saws and various miter saws for that reason. Available in either alternate top bevel grind for cutting hardwood, softwood and plywood, or triple-chip grind for chipboard and laminate-covered material. Also suitable for cutting thin Plexiglas,® masonite and plastics.

Use of stabilizers is recommended when cutting stock over 3/4" thick.







Rip/Crosscut



Single & Double Sided

TCG MDF/Fiberboard

Ø	D			'B' Kerf	'C' Plate		
Inch	mm	Teeth	Grind	Inch	Inch	Bore	Tool No.
8	200	64	ATB	.090	.062	5/8	TB86400
10	250	80	ATB	.090	.062	5/8	TB10800
12	300	96	ATB	.090	.062	1	TB12960
8	200	64	TCG	.090	.062	5/8	TB86401
10	250	80	TCG	.090	.062	5/8	TB10801
10	250	100	TCG	.090	.062	5/8	TB10101
12	300	96	TCG	090	.062	1	TB12961

Combination

Rip/Crosscut





^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

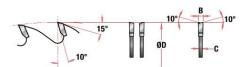
^{*} Electro Blu™ Non-Stick Coating.

[▲] Warning: Before use, read saw blade safety guidelines on pages 344-346.



THIN KERF FINE FINISHING

10° Hook • Alternate Top Bevel (ATB) Grind



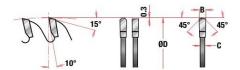
Thin kerf blades are designed for miter smooth cuts; less drag on bearings and brake and reduces stock loss on expensive woods and veneer plywoods. Not recommended to cut stock over 3/4" without the use of a stabilizer.



0	ID			'B' Kerf	'C' Plate		
Inch	mm	Teeth	Grind	Inch	Inch	Bore	Tool No.
10	250	80	ATB	.090	.062	5/8	610800-TS
12	300	96	ATB	.090	.062	1	612960-TS

THIN KERF FINE FINISHING

10° Hook • Triple Chip (TC) Grind



Thin kerf blades are designed for miter smooth cuts; less drag on bearings and brake and reduces stock loss on expensive woods and veneer plywoods. Not recommended to cut stock over 3/4" without the use of a stabilizer. TCG grind can also be used for cutting thin Plexiglas," masonite and plastics.



'B' Kerf 'C' Plate ØD Inch Teeth Grind Inch Inch Bore Tool No. mm TCG 610801-TS 10 80 .090 .062 5/8

▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

MITER/DOUBLE MITER

2° Negative Hook • 4 ATB & 1 Raker



Designed especially for use on various styles of miter saws, as well as radial arm saws. This blade cuts crisp, chip-free miters in hardwood and softwood, in moldings and picture-frame stock. All these blades feature the alternate top bevel plus raker grind (4 ATB plus 1 raker), 2° negative hook angle, and a high tooth count to produce exactly what you want for tight miters — extremely smooth cuts.



Soft/Hardwood

lwood Cabinet Plywood cut Rip/Crosscut

ØD			'B' Kerf	'C' Plate			
Inch	Teeth	Grind	Inch	Inch	Bore	Machine Type	Tool No.
12	80	4&1	.122	.110	5/8	Pistorius, CTD	MS12800-5/8
12	80	4&1	.122	.110	1	Dewalt, Hitachi	MS12800
14	100	4&1	.150	.118	5/8	Pistorius, CTD	MS14100-5/8
15	100	4&1	.118	.098	1	Hitachi	MS15100

Above blades are true "Imperial" sizes.

MITER/DOUBLE MITER

5° Negative Hook • California Triple Chip (C-TC) Grind



The California triple chip grind is the choice in the door and window manufacturing industry, and in framing shops everywhere. Its cuts are crisp and clean in wood, ACM (Aluminum Composite Materials) such as Alucobond, Dibond, Durabond etc., and burr-free in aluminum and other non-ferrous metals. This blade has a very high tooth count, a 5° negative hook, and a stout plate for smooth cuts and long tool life. It works in miter saws, compound miter saws, and sliding compound saws.





Soft/Hardwood Crosscut Non

עט			D Kell	G Flate			
Inch	Teeth	Grind	Inch	Inch	Bore	Machine Type	Tool No.
12	90	C-TCG	.135	.110	5/8	Pistorius, CTD	CTC12903-5/8

Above blade is true "Imperial" size.

▲ WARNING: NEVER attempt to cut ferrous metals (steel, iron, etc.) with these saw blades. When cutting non-ferrous metals, a coolant or blade wax should be used and proper clamping devices employed.

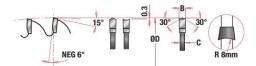




* P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

HOLLOW GROUND

6° Negative Hook . Hollow Grind (HG)



This specially designed saw blade makes exceptionally smooth cuts in melamine and other coated boards, without the need for scoring. The unique hollow grind, which pairs a triple-chip tooth with a raker tooth that's ground to a concave profile, produces crisp, clean cuts. The grind is commonly used in vertical panel saws, such as those made by Striebig® and Holz-Her.® The negative hook angle is particularly suitable for vertical panel saws.

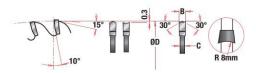


Ø	D			'B' Kerf	'C' Plate				
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Machines	Tool No.
10	253	48	HG	.126	.087	5/8	-	-	HG10480
10	253	48	HG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	Holz-Her®	HG10480-30
12	303	60	HG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	Holz-Her®	HG12600-30

[†] For Holz-Her® 220mm panel saws.

HOLLOW GROUND

10° Positive Hook • Hollow Grind (HG)



This specially designed saw blade makes exceptionally smooth cuts in melamine and other coated boards, without the need for scoring. The unique hollow grind, which pairs a triple-chip tooth with a raker tooth that's ground to a concave profile, produces crisp, clean cuts. The positive hook angle is particularly suitable for use on horizontal sliding table saws such as those made by Striebig," Altendorf, SCM and Holz-Her.



Ø	ØD			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	253	48	HG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	HG10483-30



^{*} P.H. = pin-hole configuration. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.



DOUBLE-FACE MELAMINE & LAMINATE

6° Negative Hook • 25° 'High-ATB' Grind



Designed specifically to cut melamine, this blade does just that without chipping on the top or bottom edges. (Your table saw must be properly tuned, of course.)

The special "High-ATB" grind (with 25° bevels) slices cleanly through fragile surface coatings like melamine and laminate. Coupled with a thick, heavy-duty plate for added stability, this blade produces extremely smooth cuts. It is easily resharpened.





Melamine Single & Double Sided

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	64	H-ATB	.110	.087	5/8	-	MB86400
-	220	42	H-ATB	.110	.087	30mm	2/7/42	MB220T420 †
10	250	80	H-ATB	.126	.102	5/8	_	MB10800
10	250	80	H-ATB	.126	.102	5/8	1 	MB10800C*
10	250	80	H-ATB	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	MB10800-30
12	300	96	H-ATB	.126	.102	1	_	MB12960
12	300	96	H-ATB	.126	.102	1	 >	MB12960C*
12	300	96	H-ATB	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	MB12960-30
14	350	108	H-ATB	.126	.102	1	-	MB14108
14	350	108	H-ATB	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	MB14108-30
16	400	120	H-ATB	.150	.126	1	-	MB16120

 $\textbf{Note:} \ \ \text{The 8" blade can be used on vertical type panel saws, such as 'Safety Speed Cut', etc.$

- † For 220mm Holz-Her® Panel Saws.
- * Electro Blu™ Non-Stick Coating.

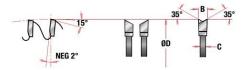


^{*} P.H. denotes pin-hole configuration, if applicable.

Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

DOUBLE-FACE MELAMINE, KORTON & VENEERS

2° Negative Hook • 35° 'High-ATB' Grind



Alterations to the geometry and plate thickness provide improved results in certain melamine boards. The bevel angle of the ATB grind is far more acute (35°), and the plate is thinner than our standard melamine blades as seen on the previous page.



Melamine Single & Double Sided

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	80	H-ATB	.118	.087	5/8	-	MSB1080
10	250	80	H-ATB	.118	.087	5/8	-	MSB1080C *
10	250	80	H-ATB	.118	.087	30mm	2/7/42, 2/9/46 & 2/10/60	MSB1080-30
12	300	96	H-ATB	.118	.087	1	2	MSB1296
12	300	96	H-ATB	.118	.087	30mm	2/7/42, 2/9/46 & 2/10/60	MSB1296-30

^{*} Electro BluTM Non-Stick Coating.

SOLID SURFACE

0° Hook • Modified Triple Chip (MTC) Grind



This blade is designed for cutting plastic laminate, Plexiglas, and solid surface materials such as Dupont Corian, Wilsonart, Gibraltar & Fountainhead. The triple chip grind is especially configured to leave a swirl-free cut in solid surface materials. Thick, stable plate reduces vibration that degrades the cut and shortens tool life. The blade is suitable for a variety of saw configurations. The 0° hook angle virtually eliminates self-feeding when used with a radial arm saw.





Plastic Lamina

Plastic Laminate Single & Double Sided

Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	72	MTC	.126	.095	5/8	-	610721
10	250	72	MTC	.126	.095	5/8	_	610721C*
10	250	72	MTC	.126	.095	30mm	2/7/42, 2/9/46 & 2/10/60	610721-30
12	300	84	MTC	.126	.095	1		612841
12	300	84	MTC	.126	.095	30mm	2/7/42, 2/9/46 & 2/10/60	612841-30
14	350	96	MTC	.126	.102	1		614961
16	400	108	MTC	.126	.102	1	_	616109

^{*} Electro BluTM Non-Stick Coating.

Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.



^{*} P.H. denotes pin-hole configuration, if applicable.



NON-MELT

2° Negative Hook • Modified Triple Chip (MTC) Grind



When cutting acrylics and plastics, "chip-welding" – a melting of the material – is a concern. But not with these Non-Melt blades. With a modified triple-chip grind and a 2° negative hook angle, they produce less heat than a standard blade, leaving a crisp and smooth edge in acrylic sheets, corrugated polypropylene, HDPE, Lexan, Plexiglas, polycarbonates, Teflon, Coroplast, High Impact Polystyrene (HIPS), Low Density Polyethylene (LDPE), Thermoplastic Polyolefin (TPO), Polyethylene Terephthalate Glycol (PETG), plastic laminate flooring and other plastics.





Ø	D			'B' Kerf	'C' Plate		ACI	yiic & Noii-Weit i lastic
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	64	MTC	.098	.070	5/8	_	LB86401
8	200	64	MTC	.098	.070	5/8	_	LB86401C*
_	220	64	MTC	.126	.079	30mm	2/7/42	LB220T641 †
10	250	80	MTC	.100	.070	5/8	; 1	LB10801
10	250	80	MTC	.100	.070	5/8	- -	LB10801C*
10	250	80	MTC	.100	.070	30mm	2/7/42, 2/9/46 & 2/10/60	LB10801-30
12	300	96	MTC	.125	.102	1	-	LB12961
12	300	96	MTC	.125	.102	30mm	2/7/42, 2/9/46 & 2/10/60	LB12961-30
14	350	108	MTC	.145	.118	1	_	LB14108
16	400	120	MTC	.145	.118	1	 -	LB16121

[†] For Holz-Her® 220mm panel saws.





 $^{^{\}star}$ P.H. denotes pin-hole configuration, if applicable.

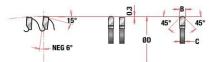
Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

^{*} Electro Blu™ Non-Stick Coating.



NON-FERROUS METAL

6° Negative Hook • Triple Chip (TC) Grind



Ideal for cutting aluminum and non-ferrous metal bars such as copper, brass, bronze and lead. It also is good for cutting extrusions and profiles. The negative hook angle (-6°), triple-chip grind and thick plate combine to produce a superior finish. The blade can also be used to cut other "difficult" materials such as plastic, PVC tubing, fiberglass and ACM such as Alucobond, "Dibond and Durabond. Use a coolant or blade wax and clamp down the work-piece when cutting non-ferrous metals.





For Thick	Aluminum (d	ver 0.25")		'B' Kerf	'C' Plate	ACM	Non-Ferrous Alloys	Phenolic & Hard Plasti
ØD Inch	ØD mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
8	200	48	TCG	.110	.087	5/8	_	584801
10	250	60	TCG	.126	.102	5/8	2-4	510601
10	250	60	TCG	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/6	50 510601-30
12	300	72	TCG	.126	.102	1		512721
12	300	72	TCG	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/6	60 512721-30
14	350	84	TCG	.126	.102	1	-	514841
16	400	96	TCG	.150	.126	1	_	516961
18	450	108	TCG	.157	.134	1	_	518108

For Thin I	Material (u.	nder 0.25'	')	'B' Kerf	'C' Plate				
ØD Inch	ØD mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Machines	Tool No.
7	180	58	TCG	.110	.087	5/8	-	-	575601
8	200	64	TCG	.110	.087	5/8	<u> </u>		586401
10	250	80	TCG	.126	.102	5/8	_	_	510801
10	250	80	TCG	.126	.102	5/8	_	2 — 2	510801C *
10	250	80	TCG	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	_	510801-30
10	250	100	TCG	.126	.102	5/8	_	· — :	510101
12	300	96	TCG	.126	.102	1	_	_	512961
12	300	96	TCG	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	_	512961-30
14	350	100	TCG	.146	.118	5/8	-	Pistorious	514101-5/8HD
14	350	108	TCG	.126	.102	1	h <u></u>	_	514108
14	350	108	TCG	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	_	514108-30
15	375	100	TCG	.120	.098	1	-	Hitachi	515101 †
16	400	120	TCG	.150	.126	1	<u></u>	_	516121
18	450	120	TCG	.150	.126	1	-	11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12	518121
20	500	120	TCG	.174	.140	1	_	_	520121
20	500	120	TCG	.174	.156	30mm	2/7/42, 2/9/46 & 2/10/60	(4—1)	520121-30

[†] For Hitachi Miter box (Thin Kerf).

* Electro Blu™ Non-Stick Coating.

Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



WARNING: Never attempt to cut ferrous metals (steel, iron, etc.) with the saw blades on this page.

^{*} P.H. denotes pin-hole configuration, if applicable.

RADIAL ARM

-2° & 0° Hook • 4 ATB & 1 Raker or ATB



Designed especially for radial arm saws, sliding compound miter saws and others with the blade above the work-piece, these blades minimize the tendency to self-feed. They feature a low tooth count and an ATB plus raker grind (typically used on combination blades). Excellent choice for cutting hardwood and softwood. For plywood, use tool #610720, which has a high tooth count and an ATB grind.







Combination Rip/Crosscut

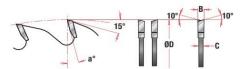
Cabinet Plywood Rip/Crosscut •

Ø	D				'B' Kerf	'C' Plate		
Inch	mm	Teeth	Grind	a°	Inch	Inch	Bore	Tool No.
10	250	24	ATB	-2°	.134	.095	5/8	RA1024
10	250	72	ATB	0°	.126	.095	5/8	610720 •
12	300	36	ATB	0°	.150	.110	1	RA1236
14	350	40	4&1	-2°	.165	.110	1	RA1440
14	350	42	ATB	0°	.165	.110	1	RA1442
16	400	40	4&1	-2°	.165	.118	1	RA1640
16	400	48	ATB	0°	.165	.118	1	RA1648
	17.7						1	

[•] For plywood use #610720.

HOLZ-HER® PANEL SAW

220mm



Designed specifically for the Holz-Her® 220mm panel saws. Blades are available for general purpose cutting, crosscutting and sawing laminates, melamine, acrylic and other plastics and solid surface materials. Blades with tips made of the high-performance DITEC™ carbide, an Amana Tool® exclusive, are also included in this line.





Soft/Hardwood

Crosscut

Cabinet Plywood Rip/



Single & Double Sided







Single & Double Sided

Solid Surface Acrylic & Non-Melt Plastic

ØD				'B' Kerf	'C' Plate				
mm	Teeth	Grind	a°	Inch	Inch	Bore	*P.H.	Application	Tool No.
220	34	ATB	10°	.118	.079	30mm	2/7/42	General Purpose	220T340
220	64	ATB	10°	.118	.079	30mm	2/7/42	Crosscut Wood	220T640
220	64	TCG	10°	.118	.079	30mm	2/7/42	Laminate/MDF	220T641
220	64	TCG	-2°	.126	.079	30mm	2/7/42	Plastic Non-Melt	LB220T641
220	42	H-ATB	-6°	.110	.087	30mm	2/7/42	Melamine	MB220T420
220	64	H-ATB	0°	.126	.079	30mm	2/7/42	DITEC™ Melamine	DT220T640 †
220	64	TCG	10°	.118	.087	30mm	2/7/42	DITEC™ Laminate/MDF	DT220T641 †

[†] Denotes high-performance DITEC™ carbide.



^{*} P.H. denotes pin-hole configuration, if applicable. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

[▲] Warning: Before use, read saw blade safety guidelines on pages 344-346.



DITEC™ SAW BLADES

Exclusive DITEC™ Carbide Tips Provide At Least Twice The Output Of Conventional Grade Carbide

Unique, long-life saw blades made for cutting chipboard and plywood with/without coating. Teeth produced from special micro-grain quality, thus durable against wear while working with abrasive material. Intended for table saw and panel sizing machines. It's straightening maintained for a long period due to a unique method which does not harm the structure of the saw body steel. With the use of static balancing, increased stability is ensured to preserve the machine bearings.

- ✓ Exclusive DITEC™ Carbide Tips
- ✓ Higher Reliability & Lower Maintenance
- ✓ Low Noise Level
- ✓ Laser Cut Saw Bodies
- ✓ Excellent Cutting Quality



0° Hook • 'HIGH-ATB' GRIND

If you cut melamine on a regular basis, this is the blade you should use. It has the same features as our regular melamine blades – the MB series and MSB series (see page 312-313) – such as a thicker than standard plate, high tooth count, and the H-ATB grind, but this blade has long-lasting DITEC" carbide tips.





Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
_	220	64	H-ATB	.126	.079	30mm	2/7/42	DT220T640 †
10	250	72	H-ATB	.126	.102	5/8	_	DT10720
10	250	72	H-ATB	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	DT10720-30
12	300	84	H-ATB	.126	.102	1		DT12840
12	300	84	H-ATB	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	DT12840-30

[†] For Holz-Her® 220mm panel saws.

Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

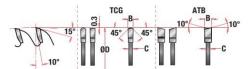
▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} P.H. denotes pin-hole configuration, if applicable.

EXTRA STRENGTH CARBIDE DITECTM SLIDING TABLE

10° Hook • ATB or TC Grind



Designed primarily for use in sliding table saws, such as Striebig, Altendorf, SCMI & Delta models. They are also suitable for use in regular table saws. The blades incorporate an exceptional array of features: high tooth count, a choice of alternate top bevel or triple chip grind, expansion slots and turbulence-dampening copper plugs. The DITEC™ carbide tips add exceptional sharpness and long tool life to these features. Choose the ATB grind for solid wood or plywood, the TC grind for MDF, OSB, HDF, single or double-sided melamine and plastic laminated panels.









Soft/Hardwood	8
Crosscut	

Cabinet Plywood Rip/Crosscut

Plastic Laminate Single & Double Sided

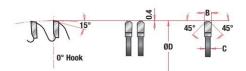
0	D			'B' Kerf	'C' Plate	0.000	out Tip/ or occour	omgio a boable black
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	80	ATB	.126	.087	5/8	-	DT10800
12	300	72	ATB	.126	.087	1	2-0	DT12720
12	300	72	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	DT12720-30 †
12	300	96	ATB	.126	.087	1	-	DT12960
12	300	96	ATB	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	DT12960-30 †
14	350	84	ATB	.137	.098	1	_	DT14840
14	350	84	ATB	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	DT14840-30
14	350	108	ATB	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	DT14108-30
10	250	60	TCG	.126	.087	5/8	-	DT10601
12	300	72	TCG	.126	.087	1	:	DT12721
12	300	72	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	DT12721-30†
12	300	96	TCG	.126	.087	1	-	DT12961
12	300	96	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	DT12961-30†
_	300	96	TCG	.126	.087	30mm	2/7/42, 2/9/46 & 2/10/60	DT300T96-30C*
14	350	84	TCG	.137	.098	1	_	DT14841
14	350	84	TCG	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	DT14841-30
14	350	108	TCG	.137	.098	1	-	DT14109
14	350	108	TCG	.137	.098	30mm	2/7/42, 2/9/46 & 2/10/60	DT14109-30

[†] Fits Striebig® vertical panel saw.

^{*} Electro Blu™ Non-Stick Coating.



0° Hook • Special TC-22 Modified Grind



Designed for cutting plastic laminate, Plexiglas® and solid surface materials such as Dupont Corian® Wilsonart® Gibraltar® and Fountainhead® The DITEC™ carbide tips are ground in a triple chip geometry unique to this blade and leave a swirl-free cut in solid surface materials.

The thick, stable plate reduces vibration that degrades the cut and shortens tool life. The blade is suitable for a variety of saw configurations. Its 0° hook angle virtually eliminates self-feeding when used with a radial arm saw, miter saw and table saw.



Ø	D			'B' Kerf	'C' Plate			
Inch	mm	Teeth	Grind	Inch	Inch	Bore	*P.H.	Tool No.
10	250	72	S-TCG	.126	.102	5/8	_	DT10721
12	300	84	S-TCG	.126	.102	1	_	DT12841
12	300	84	S-TCG	.126	.102	30mm	2/7/42, 2/9/46 & 2/10/60	DT12841-30



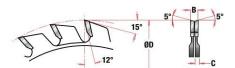
^{*} P.H. denotes pin-hole configuration, if applicable.

Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

EXTRA STRENGTH CARBIDE

DITEC™ ADJUSTABLE TYPE SCORING SETS

12° Hook • Alternate Top Bevel (ATB) Grind



Used on panel saws or sliding table saws with separate scoring units for chip-free cuts on both sides of the material. Adjustable scoring sets consist of two 12-tooth saw blades with shims to adjust the kerf width (2.8mm to 3.6mm). Used in combination with our industrial saw blades with standard kerf (example #612721, #DT12721, etc.).



Sc	oring	Partic	leboard	
& Do	ouble	Sided	Laminate	

ØD	Teeth	Grind	'B' Kerf	'C' Plate	Bore	Machine Application	Tool No.
120mm	12 x 2	ATB	2.8mm to 3.6mm	2mm(x2)	20mm	Altendorf,® Martin, Mrozek	DT120T14-20

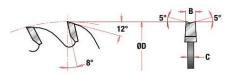
Note: Adjustable scoring sets with 20mm bore can be converted to either 3/4" bore by ordering two each #BU-134 bushings.

Replacement 5-piece shim set (0.6mm, .10mm, .20mm (2) and 2.8mm) order No. 'Shim Set'. Will fit 20mm scoring sets.

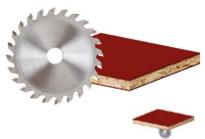


DITEC™ CONICAL TYPE SCORING SETS

8° Hook • Conical Alternate Top Bevel (ATB) Grind



Used on panel saws with separate scoring units for chip-free cuts on both sides of the material. With conical type scoring blades, the kerf width changes with depth of penetration. Used in combination with our industrial saw blades '7' series only (#714721, etc.). Also used in combination with the DITEC™ series panel saw main blades. Kerf range should match the main blade.

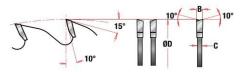


Scoring Particleboard & Double Sided Laminate

ØD	Teeth	Grind	'B' Kerf	'C' Plate	Bore	Machine Application	Tool No.
120mm	24	Conical	3.2mm to 4.2mm	2.2mm	20mm	Altendorf®	DT120T20
120mm	24	Conical	4.4mm to 5.4mm	2.8mm	20mm	Altendorf,® Martin, SCMI®	DT120T24

EDGEBANDER TRIM SAW

10° Hook • Alternate Top Bevel (ATB) Grind



Replacement trim saw blades for edgebanding machines feature alternate top bevel grind on the teeth, 10° hook angle, and standard thickness plates. Most machines require two blades.



Soft/Hardwood Crosscut

ØD			'B' Kerf	'C' Plate		
mm	Teeth	Grind	Inch	Inch	Bore	Tool No.
150mm	30	ATB	.126	.087	30mm	663000

#663000 is for IDM-137 and Ocmac Chica 290 edgebanders, and others. 663010 is for Olimpic Nova-2 edgebanders, and others.

Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} P.H. denotes pin-hole configuration, if applicable.



EZ DIAL™ SCORING SET

Adjustments can easily be made while the scoring set is mounted on the machine! Adjusting the scoring set is quick and easy, simply turn the dial to adjust the width of the score. Eliminates the need for shims, endless measuring, reassembling, testing and adjusting to obtain the required width.

- · Fully adjustable in increments of 0.1mm.
- . Kerf adjusts from 2.8mm to 3.6mm.
- Available in 100mm and 120mm diameters with 15mm, 20mm, 22mm and 3/4" bores.
- · Replacement blades available.
- Fits most machines including Altendorf® and SCM.

Kerf		F	Repl. Dial Repl. Dial				
ØD	mm	Teeth	Bore	Screw	Key	Tool No.	
120mm	2.8 to 3.6	12x2	20mm	67020	5011	EZ120-24-20	
120mm	2.8 to 3.6	12x2	15mm, 22mm & 3/4"	67021	5011	EZ120-24-22 ** +	

- * Includes bushing part #BEZ-01 from 22mm to 3/4."
- ** Fits additional machines: Casolin Astra Top, Casadei Shark & Lazzari.
- + Chamfered dial for SCM machine. #BEZ-015 from 22mm to 15mm.

Replacement Parts:

Saw Blades

120mm	12x2	REZ120	
Re-Sharpening	Adapter		
For 100mm		EZA-08	
For 120mm and 1	25mm	EZA-10	
Spring			
For 100mm		EZA-12	
For 120mm and 1	For 120mm and 125mm		
	s for blade hub #67022.		



Re-Sharpening Adapter #EZA-08 for 100mm



Re-Sharpening Adapter #EZA-10 for 120mm and 125mm



Scoring Particleboard & Double Sided Laminate



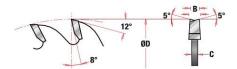




* P.H. denotes pin-hole configuration, if applicable. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

CONICAL TYPE SCORING

8° Hook . Conical ATB Grind



This conical-type scoring blade is similar to the DITEC[™] scoring blade, but features our standard carbide tips. Match the kerf width of your main blade by adjusting the scoring blade's cutting depth. Range typically is 1mm (for example, from 4.4mm to 5.4mm). Select a scoring blade with a range matching your main blade's kerf width. Use in combination only with our '7' series industrial saw blades (#714721, #716961, etc.). Use also in combination with the new DITEC[™] panel saw blades.



Scoring Particleboard & Double Sided Laminate

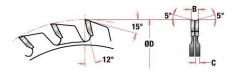
ØD	ØD		'B' Kerf Range		'C' Plate		Bore	Machine	
mm	Teeth	Grind	mm	Inches	mm	Inches	mm	Application	Tool No.
100	20	ATB	3.2 to 4.2	.125 to .165	2.2	.086	20	Various	SS100T20
120	24	ATB	3.2 to 4.2	.125 to .165	2.2	.086	20	Various	SS120T20
150	24	ATB	4.0 to 5.0	.157 to .196	2.8	.110	20	Various	SS150T24

Note: Due to many different scoring machine sizes (particularly arbor sizes), it is advisable to measure both the scoring and main blades that are presently on your machine (diameter, bore, kerf, etc.).

Note: Standard bore is 20mm. Other kerf sizes available, please inquire.

ADJUSTABLE TYPE SCORING SETS

12° Hook • ATB Grind



Used on panel saws and sliding table saws with separate scoring units for chip-free cuts on both sides of the material. Adjustable scoring sets consist of two 12-tooth saw blades with shims to adjust the kerf width (2.8mm to 3.6mm). Used in combination with our industrial saw blades '6' series only. (Example: #614721, #616961, etc.).



Scoring Particleboard & Double Sided Laminate

ØD	ØD		'B' Kerf Range		'C' Plate		Bore	Machine	
mm	Teeth	Grind	mm	Inches	mm	Inches	mm	Application	Tool No.
100	12x2	ATB	2.8 to 3.6	.110 to .142	2(x2)	.078(x2)	*22	Altendorf,® Delta® Martin, Mrozek, Panhans	SS100T14
120	12x2	ATB	2.8 to 3.6	.110 to .142	2(x2)	.078(x2)	20	SCMI®	SS120T12
120	12x2	ATB	2.8 to 3.6	.110 to .142	2(x2)	.078(x2)	*22	Altendorf,® Martin, Mrozek	SS120T14
125	12x2	ATB	2.8 to 3.6	.110 to .142	2(x2)	.078(x2)	20	Griggio	SS125T14

Note: Due to many different scoring machine sizes (particularly arbor sizes), it is advisable to measure both the scoring and main blades that are presently on your machine (diameter, bore, kerf, etc.).

8-piece shim set #SHIM-SET (3pcs 0.5mm, 2pcs 0.15mm and 3pcs 0.20mm). Will fit 20mm or 22mm scoring sets.

Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} Adjustable scoring sets with 22mm bore can be converted to either 3/4" bore by ordering two each #BU-130 bushings, or to 20mm bore by ordering two each #BU-140 bushings

^{*} P.H. denotes pin-hole configuration, if applicable.

DITEC™ DYNAMIC PANEL SAWING





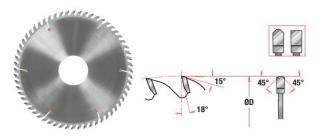


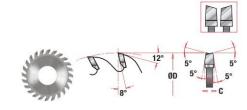




TCG (Triple Chip Grind) • Extended Life

Saw blades are dynamically balanced. This ensures saw blade stability and a clean cut. Unique, long-life saw blades made for cutting chipboard and plywood with/without coating. DITEC™ saw blades provide maximum performance and longer tool life. We use fine micro-grain carbide tips, which means less wear and tear, while still giving you super sharp cutting edges, saving you money in re-sharpening.





Main Saw for Panel Sizing Laminated Boards

Machine	ØD		Kerf/Plate	Bore	*D.II	Tool No.
Style	mm	Count	mm	mm	*P.H.	Tool No.
Gabbiani	380	60	4.4/3.2	60	4/9/100	DT380T601-60
	400	60	4.4/3.2	80	4/9/100, 2/7/110	DT400T601-80
	400	72	4.4/3.2	80	4/19/120 & 2/9/130	DT400T721-80
	500	72	4.8/3.5	80	2/8/110 & 2/10/130	DT500T721-80A
Giben	500	72	5.0/3.5	75		DT500T721-75B
Giben Trend	355	72	4.4/3.2	75	_	DT355T721-75
Giben Trend	400	60	4.4/3.2	75	4/15/105	DT400T601-75
Holz-Her®	220	64	3.0/2.2	30	2/7/42	DT220T641
Holzma	355	72	4.4/3.2	60	2/14/100	DT355T721-60
	380	60	4.4/3.2	60	4/9/100, 2/14/100	DT380T601-60
	420	72	4.8/3.5	60		DT420T721-60A
	500	72	5.0/3.5	60	_	DT500T721-60B
	540	72	4.8/3.5	60	2/11/115, 2/19/120	DT540T721-60
Mayer	355	72	4.4/3.0	30	2/7/42, 2/10/60	DT355T721-30
	400	72	4.4/3.2	30	2/7/42, 2/10/60	DT400T721-30
New Sigma 115	400	72	4.4/3.2	80	<u></u>	DT400T721-80
Panhans	355	72	4.4/3.0	30	2/7/42, 2/10/60	DT355T721-30

Scorer for Panel Sizing

ØD mm	Teeth Count	Fits Main Saw Kerf	Bore mm	*P.H.	Tool No.
125	24	4.4/5.4	45	_	DT125T24-45
125	24	4.4/5.4	45	·	DT125T24-45
180	30	4.4/5.4	45	_	DT180T30-45
200	36	4.4/5.4	65	4/9/110	DT200T36-65
200	36	4.4/5.4	45	-	DT200T36-45
180	30	4.4/5.4	30	_	DT180T30-30





^{*} P.H. denotes pin-hole configuration, if applicable. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

EXTRA STRENGTH CARBIDE DITEC *** DYNAMIC PANEL SAWING TCG (Triple Chip Grind) • Extended Life



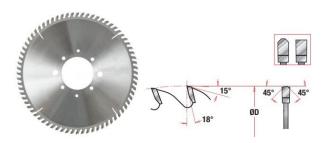






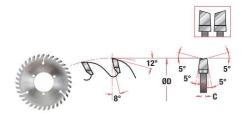
Dynamic Pressu Straightness

Saw blades are dynamically balanced. This ensures saw blade stability and a clean cut. Unique, long-life saw blades made for cutting chipboard and plywood with/without coating. DITEC™ saw blades provide maximum performance and longer tool life. We use fine micro-grain carbide tips, which means less wear and tear, while still giving you super sharp cutting edges, saving you money in re-sharpening.



Main Saw for Panel Sizing Laminated Boards

Machine Style	ØD mm	Teeth Count	Kerf/Plate mm	Bore mm	*P.H.	Tool No.
Prismatic No.1	400	72	4.4/3.2	75	4/15/105	DT400T721-75
Prismatic No.2	430	96	4.4/3.2	75	4/15/105	DT430T961-75
Prismatic No.2	430	96	4.4/3.2	50	3/15/80	DT430T961-50
Prismatic No.3	470	96	4.4/3.2	75	4/15/105	DT470T961-75
Prismatic No.3	500	72	4.8/3.5	75	-	DT500T721-75A
Schelling	350	72	4.4/3.2	30	2/7/42, 2/10/60	DT350T721-30
	355	72	4.4/3.2	30	2/7/42, 2/10/60	DT355T721-30
	400	72	4.4/3.2	30	2/7/42, 2/10/60	DT400T721-30
	550	72	5.0/3.5	40	 -	DT550T721-40
Selco	400	72	4.4/3.2	80	_	DT400T721-80
	430	72	4.4/3.2	80	4/19/120, 2/9/130	DT430T721-80
	450	72	4.4/3.2	80	4/19/120, 2/9/130	DT450T721-80
	450	72	4.8/3.5	80	4/19/120, 2/9/130	DT450T721-80A
Sigma65K	305	72	4.4/3.2	80	4/9/100	DT305T721-80
					2/14/110, 2/7/110	
Sigma90	355	72	4.4/3.0	30	2/7/42, 2/10/60	DT355T721-30
Various	380	72	4.4/3.2	75	_	DT380T721-75
Various	450	72	4.8/3.5	80	_	DT450T721-80A
Various	480	72	4.8/3.5	80	4/19/120	DT480T721-80A
Various	550	72	5.0/3.5	40	_	DT550T721-40



Scorer for Panel Sizing

ØD	Teeth	Fits Main	Bore		
mm	Count	Saw Kerf	mm	*P.H.	Tool No.

200	36	4.4/5.4	20	(DT200T36-20
200	36	4.4/5.4	20		DT200T36-20
200	36	4.4/5.4	65	4/9/110	DT200T36-65
200	36	4.4/5.4	65	4/9/110	DT200T36-65
200	36	4.4/5.4	65	4/9/110	DT200T36-65

 $^{^\}star$ P.H. denotes pin-hole configuration, if applicable. Example: $2/10/60=2\ @\ 10$ mm dia. on 60mm circle.





DITEC™ DYNAMIC PANEL SAWING

ATB (Alternate Top Bevel) • Extended Life





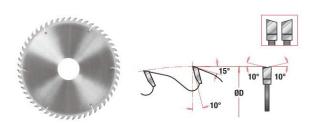


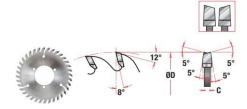




G 6.3 Straightness

Saw blades are dynamically balanced. This ensures saw blade stability and a clean cut. Unique, long-life saw blades made for cutting chipboard and plywood with/without coating. DITEC" saw blades provide maximum performance and longer tool life. We use fine micro-grain carbide tips, which means less wear and tear, while still giving you super sharp cutting edges, saving you money in re-sharpening.





Main Saw for Panel Sizing Laminated Boards

Machine	ØD	Teeth	Kerf/Plate	Bore		
Style	mm	Count	mm	mm	*P.H.	Tool No.
Gabbiani	355	72	4.4/3.0	80	4/9/100 & 2/7/110	DT355T720-80
Giben Trend	355	54	4.4/3.0	75		DT355T540-75

Scorer for Panel Sizing

ØD mm		Fits Main Saw Kerf		*P.H.	Tool No.
125	24	4.4/5.4	45	_	DT125T24-45
125	24	4 4/5 4	45	_	DT125T24-45



^{*} P.H. denotes pin-hole configuration, if applicable. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

EXTRA STRENGTH CARBIDE

DITEC™ DYNAMIC CONICAL TYPE SCORING SAW





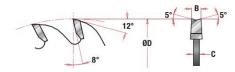




Dynamic Pressi Straightness

8° Hook Conical ATB Grind

Saw blades are dynamically balanced. This ensures saw blade stability and a clean cut. Unique, long-life saw blades made for cutting chipboard and plywood with/without coating. DITEC[™] saw blades provide maximum performance and longer tool life. We use fine micro-grain carbide tips, which means less wear and tear, while still giving you super sharp cutting edges, saving you money in re-sharpening.



Used on panel saws with separate scoring units for chip-free cuts on both sides of the material. With conical type scoring blades, the kerf width changes with depth of penetration. Used in combination with our industrial saw blades '7' series only (#714721, etc.). Also used in combination with the DITEC™ series panel saw main blades on pages 316-317. Kerf range should match the main blade.







Machine	ØD	Teeth	'B' Kerf	'C' Plate			
Style	mm	Count	mm	mm	Bore	*P.H.	Tool No.
Giben	125	24	4.4 to 5.4	3.2	45mm	_	DT125T24-45
	180	30	5.2 to 6.2	3.5	55mm	_	DT180T30-55
	300	48	4.4 to 5.4	3.2	50mm	3/15/80	DT300T48-50
Holzma	175	28	4.4 to 5.4	3.2	45mm	-	DT175T28-45
	175	28	4.8 to 5.8	3.2	45mm	_	DT175T28-45A
	180	30	4.4 to 5.4	3.2	45mm	-	DT180T30-45
	200	36	4.4 to 5.4	3.2	45mm	E	DT200T36-45
Mayer	150	24	4.4 to 5.4	3.2	30mm	_	DT150T24-30
Panhans	180	30	4.4 to 5.4	3.2	30mm	::	DT180T30-30
Schelling	200	36	4.4 to 5.4	3.2	20mm	_	DT200T36-20
	300	48	4.4 to 5.4	3.2	30mm	_	DT300T48-30
Selco	200	36	4.4 to 5.4	3.5	65mm	2/8/110 & 2/10/110	DT200T36-65
Various	200	36	5.8 to 6.6	3.5	45mm	_	DT200T36-45B

Note: Please specify if your application requires 22mm, 30mm, 45mm bore, etc. Due to many different scoring machine sizes (particularly arbor sizes), it is advisable to measure both the scoring and main blades that are presently on your machine (diameter, bore, kerf, etc.).

BUSHINGS & STABILIZERS available, see page 341.

RE-BORING Services, see page 341.

 $^{^\}star$ P.H. denotes pin-hole configuration, if applicable. Example: $2/10/60=2\ @\ 10$ mm dia. on 60mm circle.





NDUSTRIAL

Super FineChip-Free Dado Cuts







PRESTIGE™ SUPER FINE DADO SETS

With Six 4-Wing Chippers 1/4" to 29/32" • High ATB Grind

Our Prestige™ Dado Set cuts perfectly smooth edges, flat-bottom cuts and grooves both along and across the grain that are free of splinters or rough edges. This dado set is part of the renowned Prestige™ line of superior performance blades.

Features the latest in cutting tool technology including massive tool-steel plates and precision ground carbide teeth. The 8" diameter, 24-tooth outside plates are hollow ground for proper clearance and feature high ATB grind geometry with every sixth tooth flat ground for efficient chip removal. Each tooth body also features anti-kickback design to help prevent overfeeding.

Set accommodates today's undersized plywoods.

Packed In A Handy Black Molded Carrying Case.

Each of the six interior chippers features four teeth and the standard width capacity is 1/4" through 29/32." Adjustments can be easily made in 1/32" increments and even finer adjustments, as small as .002" can be made by using the supplied shim set. A 46-tooth dado set (see page 327) is also available for use with plywood and melamine.

A stacking dado set is an ideal tool for cutting dadoes, grooves and tenons for strong mortise-and-tenon joinery.

Tenons

End Lap



Groove & Rabbets

Ship Lap



2 Outside 8" x 24T Blades



6 Carbide Tipped Four-Wing Chippers





Set Includes Shim Set for Fine Adjustments

Set Accommodates Undersized Plywood

ØD	Hook Angle	†Teeth	Chippers	Grind	Kerf Range	Bore	Tool No.
8	-10°	24	1/8(x4), 3/32(x1), 1/16(x1)	H-ATB	1/4 to 29/32	5/8	658060
8	-10°	24	1/8(x4), 3/32(x1), 1/16(x1)	H-ATB	1/4 to 29/32	5/8	658060C *
8	-10°	24	1/8(x4), 3/32(x1), 1/16(x1)	H-ATB	1/4 to 29/32	1	658060-1

Dentil

Box Joints

Half Lap

Corner Lap

Note: Always use the outside blades. Never attempt to use the chippers without the outside blades.



^{*} P.H. denotes pin-hole configuration, if applicable. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

[†] Teeth refers to the number of teeth for each outside saw blade.

^{*} Electro Blu™ Non-Stick Coating.

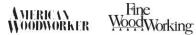
DADO SETS

With Five 2-Wing Chippers 1/4" to 13/16" Groove ATB and FT Grind

Dadoes (cross-grain cuts) and grooves (cuts with the grain) are cut efficiently on the table saw with a dado stack set. Unlike a "wobbler," a stack set produces a flat-bottom cut with chip-free edges. Amana Tool® makes dado stack sets for every machine and every type of woodworking material. The standard width capacity ranges from 1/4" to 13/16." Additional chippers may be purchased separately to expand the capacity beyond 13/16" The standard set, regardless of diameter or tooth count, consists of two outside saw blades and four inside chippers. The outside blades feature hollow-ground plates for proper clearance, and alternate top bevel (ATB) grind with every sixth tooth flat ground (FT). See charts below for additional components.

For plywood and melamine, the sets with 46-tooth outside blades

Rated excellent by:











Single & Double Sided

Rip/Crosscut

Soft/Hardwood

o	On	Onl	Only

10		
	- Cu	

ØD	Hook Angle	*Teeth	Chippers	Grind	Kerf Range	Bore	Plastic Molded Case	Tool No.
6	+15°	18	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	5/8	Yes	656030
8	-5°	12	1/4(x3)	ATB/FT	1/4 to 13/16	5/8	Yes	658012
8	-5°	24	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	5/8	Yes	658030
8	-5°	24	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	1	Yes	658030-1
8	-5°	46	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	5/8	Yes	658040
8	-5°	46	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	1	Yes	658040-1
10	+15°	24	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	5/8	No	651030
10	+15°	24	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	1	No	651030-1
12	+15°	24	1/8(x4), 1/16(x1)	ATB/FT	1/4 to 13/16	1	No	651230

^{† 8&}quot; x 46T set for super smooth cuts in cabinet grade plywoods and melamine.

Dado Combinations

Max. Width	Number of Chi	ppers required
of Groove	1/16	1/8
13/16	1	4
1-1/16	1	6
1-9/16	1	10
2-1/16	1	14
3-1/16	1	22
4-1/16	1	30



^{*} P.H. denotes pin-hole configuration, if applicable. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.



^{*} Teeth refers to the number of teeth for each outside saw blade.



14 Piece Shim Set DSS-100 Shown

DADO SHIM SETS

The perfect accessory for any dado set. Each set includes 14 color-coded plastic shims in various thicknesses for precise adjustment of your dado set. Especially useful when cutting plywood and other materials that are slightly under or oversized.

Bore	Tool No.
5/8	DSS-100
1	DSS-101
30mm	DSS-102
1-1/4	DSS-103
5/8	DSS-106*
5/8	DSS-108**

^{* #}DSS-106 includes 10 shims.

Each set includes the following:

	Thic	kness		
Quantity Shims	Inch	mm	Color	ØD
5	0.002	0.05mm	Gold	60mm
1	0.005	0.15mm	Violet/Orange	60mm
4	0.010	0.25mm	Clear	60mm
4	0.020	0.50mm	White	60mm
200 400 1 1 1				

DSS-106 includes the following:

	Thic	kness			
Quantity Shims	Inch	mm	Color	ØD	
2	0.002	0.05mm	Silver	60mm	
1	0.005	0.15mm	Violet	60mm	
1	0.010	0.25mm	Clear	60mm	
6	0.020	0.50mm	White	60mm	

DSS-108 includes the following:

	Thick	cness		
Quantity Shims	Inch	mm	Color	ØD
1	0.0039	0.1mm	Brass	70mm
5	0.0078	0.2mm	Gold	70mm

INDIVIDUAL DADO SET COMPONENTS: **DADO CHIPPERS**

Flat Top (FT) Grind • Two Teeth Per Chipper

Amana Tool® has a full range of replacement parts for our dado sets, including chippers and outside blades. This allows you to replace damaged cutters and to expand the range of a standard set. These parts are manufactured to the same exacting standards as the full sets.

		Order Number Ch	nipper Thickness:
ØD	Bore	'C' 1/16	'C' 1/8
6	5/8	651660	651860
8	5/8	651680	651880
8	5/8	651680-AK †	651880-AK †
8	1	_	651880-1
10	5/8	651610	651810
10	1	_	651810-1
12	1	651612	_

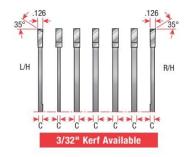
^{† 8&}quot; 'Anti-Kickback' chippers.

DADO OUTSIDE BLADES

ATB Grind

ØD	Bore	Teeth	Kerf	Order No. L/H	Order No. R/H
6	5/8	18	.126	656010	656010-R
8	5/8	24	.126	658010	_
8	1	24	.126	_	658010-1-R
8	5/8	46	.126	658020	658020-R
8	1	46	.126	658020-1	_
10	5/8	24	.126	651010	_
12	1	24	.126	651210	_

Note: Specify left or right hand blades. Although each outside saw blade is sold separately, it is recommended to buy one set of both blades so the O.D. matches.







^{** #}DSS-108 includes 6 shims.

GROOVERS

Flat Top (FT) Grind • 12° Hook Angle

Designed to cut 1/4" grooves in solid wood and plywood on table saws and sliding table saws.

Ø	D		'B' Kerf	'C' Plate	Max		
Inches	mm	Teeth	Inches mm	Inches mm	RPM	Bore	Tool No.
8	200	24	.250 6.35	.180 4.57	9,000	5/8	61365
10	250	24	.250 6.35	.180 4.57	7,600	5/8	61368



PLATE JOINTER

Designed with anti-kickback "fingers" that limit chip thickness to provide a safer cut without loss of cutting speed or quality. The blade fits most brands and models of plate jointers, including Lamello, Virutex, Freud, Kaiser, Elu, and DeWalt and other makes of plate-jointer machines. Packaged in a re-usable protective foam sleeve.

ØD	Teeth	Kerf	Bore	Tool No.	
100mm	6	4mm	22mm	LAM400T6*	

^{*} Not for Porter Cable® 557





🦀 POLYCRYSTALLINE (PCD) LAMELLO CUTTER New

Bore

Diamond Tipped • 3 Teeth

Teeth

ØD

To be used both in CNC machines and Zeta P2 hand power tool. Recommended for grooving corner and longitudinal joints on hardwoods, veneered and laminated MDF with the P system anchorage. Suitable for making furniture.









Kerf 100.4mm 22mm 7mm Replacement parts: Bearing #47706; Screw #67096; Washer #67082.







ACM ADJUSTABLE WIDTH DOUBLE EDGE V-SCORING SAW BLADE SET

Carbide Tipped • V-Groove with 2.0 (0.080") - 3.0mm (0.118") V-Flat Bottom

For 60°, 90°, 108° & 135° Folds

Designed for scoring Aluminum Composite (sandwich) Materials with 60°, 90°, 108° and 135° angle V-grooves with flat bottom. Set contains two saw blades and a shim set. Add the shims between the blades to achieve your desired flat bottom cut width. Widely used for cladding many diverse exterior and interior applications. The long lasting durablility of the material makes it an excellent choice for buildings, signage, displays, etc.

Excellent for Scoring:

- · Aluminum, Clay, Zinc & Wood Composite Panels
- Aluminum Composite Material (ACM)
 • Aluminum Composite
- Panel (ACP) ALPOLIC® Copper Composite Material (CCM)
- Alucobond®
- Alupanel[®]
- Dibond® Durabond
- e-panel™
 Etalbond®
- TCM Trespa®





ØD	Teeth	Hook Angle	Angle	B1	Grind	B=Kerf Range	W=Flat Bottom Range	Bore	Tool No.
8	2x20	18°	45°	0.161"	ACM	10.2-11.2mm	2.0-3.0mm / 0.078-0.118"	5/8	508400

Shim set #DSS-108 & instruction booklet included.

Warning: This set requires a custom zero clearance throat plate.

▲ Warning: Not to be used with portable saws.









ACM 90° DOUBLE EDGE V-SCORING SAW BLADE









With Replaceable Carbide Insert Knives For 90°, 108° & 135° Folds

Designed for scoring Aluminum Composite (sandwich) Materials with 90° angle V-groove with flat bottom. Widely used for cladding many diverse exterior and interior applications. The long lasting durability of the material makes it an excellent choice for buildings, signage, displays, etc. Utilizes 4-sided carbide inserts.

For Scoring Aluminum Composite Materials Including:

- Aluminum, Clay, Zinc & Wood Composite Panels
 Aluminum Composite
- Material (ACM)

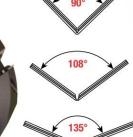
 Aluminum Composite
- Panel (ACP)

 ALPOLIC® Copper
 Composite Material (CCM)

 Alucobond®
- Alupanel®
- Dibond®
 Durabond
 e-panel™
 Etalbond®

- Phenolics
- Plastic/Acrylic
- Plexiglas®TCM
- Wood











		3						
ØD	Teeth	Angle	Kerf	Flat Bottom Width	Bore	Repl. Knife	Repl. Knife	Tool No.
6	5	90°	25/64	0.090"	5/8	_	RCK-48	RC-4304 New
7-1/4	5	900	37/64	0.090"	5/8	RCK-47	_	RC-4300

Replacement parts: Screw #67115 (5); Torx® key #5005 (included).

▲ Warning: This set requires a custom zero clearance throat plate. Not to be used with portable saws.

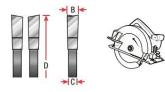
▲ Warning: Before use, read saw blade safety guidelines on pages 344-346.

INDUSTRIAL SAW BLADES

Combination Rip/Crosscut

GENERAL PURPOSE

Alternate Top Bevel (ATB) Grind . Positive Hook



This carbide-tipped trim-saw blade is the ideal upgrade (or replacement blade) for Makita and other brands of portable trim saws. The alternate top bevel grind ensures high-quality crosscuts in solid wood and sizing cuts in plywood.

ØD	Teeth	'B' Kerf	'C' Plate	Bore	Tool No.
5-3/8 / 5-1/2	30	.072	.052	5/8 **	RM-550

^{**} Fits Makita 5-1/2" saw and others.

Comes with two adapter bushings, one for 1/2" arbor and one for 10mm arbor.

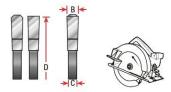
Replacement bushing: #BU-110 (5/8 x 1/2), #BU-125 (5/8 x 10mm).

BUSHINGS & STABILIZERS available, see next page.

Acrylic & Non-Melt Plastic

PLYWOOD & PLASTIC CUTTING

Triple Chip (TC) Grind . Positive Hook



This blade produces quality cuts when sizing plywood and other sheet goods with a portable circular saw. The blade can also be used for cutting plastics.

ØD	Teeth	'B' Kerf	'C' Plate	Bore	Tool No.
7-1/4	40	.120	.078	5/8♦	PC-620

[♦] Denotes 5/8" arbor with diamond knock-out.

NAIL-CUTTING & DEMOLITION

Flat Top (FT) Grind • 5° Negative Hook







This blade is designed especially for renovation and demolition work, where contact with nails, screws, and similar debris has to be expected. The blade is configured – low tooth count and flat-top grind – for ripping. A negative hook angle and strong shoulder design to help prevent the blade's carbide tips of breaking off upon impact against a hidden nail.

ØD	Teeth	'B' Kerf	'C' Plate	Bore	Tool No.
7-1/4	14	.120	.078	5/8♦	NC-820

[♦] Denotes 5/8" arbor with diamond knock-out.

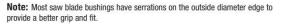




HIGH PRECISION SAW BLADE BORE REDUCTION BUSHINGS

Made in Germany

ØD	Ød	В	Tool No.
5/8	10mm	.053	BU-125
5/8	1/2	.060	BU-110
3/4	5/8	.062	BU-150
20mm	3/8	.060	BU-120
20mm	10mm	.038	BU-121 New
20mm	1/2	.062	BU-123
20mm	5/8	.062	BU-124
22mm	3/4	.062	BU-130
22mm	20mm	.070	BU-140
1	5/8	.086	BU-100
1	7/8	.097	BU-225
1	7/8	.110	BU-250
1	3/4	.075	BU-200
1	20mm	.097	BU-122
1-1/8	1	.086	BU-300
1-1/4	1	.086	BU-400
1-1/4	1-1/8	.075	BU-500
1-1/4	30mm	.086	BU-450
30mm	5/8	.070	BU-515
30mm	3/4	.070	BU-520
30mm	25mm	.070	BU-530
30mm	1	.070	BU-525

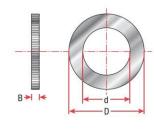


SAW BLADE STABILIZER / STIFFENER

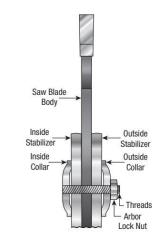
The purpose of blade stabilizers is to increase the overall stiffness of the saw blade, thus reducing vibration. Reduction in vibration improves cut quality and dampens noise. Stabilizers are particularly beneficial when used with thin-kerf blades. Amana Tool® stabilizers are made from the steel used for our Industrial Series saw blades. The steel is ground (not stamped), and it is extremely flat on both sides to reduce run-out and vibration. Please note that depth of cut will be reduced slightly and interference between the stabilizers and the table insert may occur. You may use one or two stabilizers, depending on the application and arbor length.

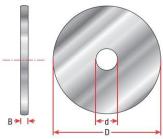
Each order number consists of one pair.

			Use With Saw Blade	•
ØD	Ød	В	Diameter(s)	Tool No.
4	5/8	.098 (x2)	8 to 12	STF-4
4	30mm	.100 (x2)	8 to 12	STF-4-30
6	1	.100 (x2)	14 to 20	STF-6











GENERAL INFORMATION 1. TOOTH CONFIGURATIONS





Flat Top (FT)

Used on saw blades for cutting soft and hardwood along the grain (ripping).





Alternate Top Bevel (ATB)

Alternate right top bevel and left top bevel. Used on saw blades for general purpose and crosscutting natural wood and veneered plywood.





Alternate Top Bevel Modified (H-ATB)

Higher top bevel grind and longer tooth than our standard alternate top bevel. Used on 'MB' and 'MSB' Series blades and are specifically designed for cutting melamine chip-free on table saws without the aid of scoring units.

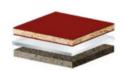




Combination Tooth (4 + 1)

Groups of four alternate top bevel and one flat ground tooth, divided by large gullets in the saw plate. Used on combination blades for general purpose wood applications.





Triple Chip (TCG)

Alternate flat raker tooth and higher trapeze tooth divides the chips to achieve cuts in hard materials, MDF, OSB and plastics. Also used on blades for cutting non-ferrous materials.





California Triple Chip (C-TCG)

For use in miter saws in picture frame shops, window and door manufacturers or anywhere that miter machines are used.

Produces burr-free cuts in non-ferrous materials as well as splinter-free cuts in wood and wood-based products.





Cone Form (Conical)

Used on conical tooth scoring blades.





Hollow Ground (HG)

Hollow face grind is used for cutting melamine and other difficult to machine materials. Generally used on vertical panel saws (Striebig, etc.).



GENERAL INFORMATION 2. TOOTH ANGLES

Hook (Rake) Angle 6° to 22°

Soft materials or rip blades require an angle of about 18° to 22° hard materials about 6° Saw blades for cutting aluminum and melamine have a negative hook angle.

Top Clearance Angle 12° to 15°

This angle changes according to the hardness of material; 12° for hard and 15° for softer materials.

1. Top Bevel Angle 8° to 12°

Normally 10,° enabling gradual penetration into material.

2. Radial Side angle 1° to 2°

Allows clearance along the sides of the tooth.

3. GENERAL

Kerf ('B')

Refers to the largest width of the saw tooth and is represented in decimals and/or millimeters.

Plate ('C')

Refers to the thickness of the steel saw body, on to which the carbide teeth are brazed. This dimension is represented in decimals and/or millimeters.

Note: Most industrial series saw plates are laser cut.

Expansion Slots

Allows the saw body to expand and contract under load and heat and to prevent twisting or warpage.

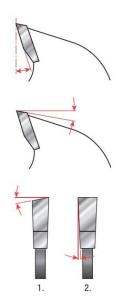
Copper Plugs

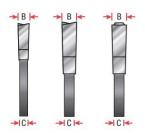
Reduces the turbulent noise created by the saw blade while it is being operated.

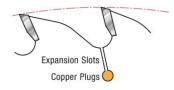
Bore, Pin-Holes, Keyways

Refers to the diameter of the arbor hole, pin-holes, keyways, etc., and is represented in fractions or millimeters.

Note: P.H. denotes pin-hole configuration, if applicable. Example: 2/10/60 = 2 @ 10mm dia. on 60mm circle.

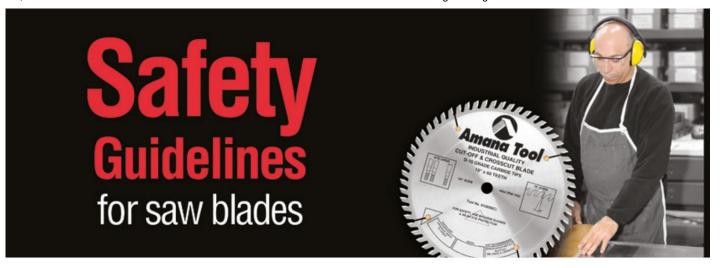








INDUSTRIAL SAW BLADES





Always refer to your power tool owner's manual.



3. Disconnect the power tool from the power source before changing the saw blade.



5 Keep your hands out of path of the saw blade.



344 **Amana Tool**®



2. Always wear eye and ear protection during operation of



4. Never cut stock freehand. Always use the fence or miter gauge to support the work-piece.



Always feed the stock against the direction of the power tool rotation.

A

For up to date Safety Guidelines in English, French and Spanish visit **www.amanatool.com/safety**

SAFETY GUIDELINES For Saw Blades



Do not use a blade that is cracked or broken, has a chipped or missing tooth, or has been dropped or damaged.



direction of power tool rotation.



9. Make certain that the arbor nut is secure before starting the saw.



Never exceed maximum RPM of the saw blade. Each blade may differ; please see blade stencil.



11. Do not attempt to cut screws, nails, staples, concrete or other foreign materials. Use saw blade only for which it



 $\textbf{12.} \ \ \, \text{Never make adjustments to the saw while the blade is spinning.}$



13. Use a splitter or riving knife to prevent kickback.



Before starting the saw, adjust the saw blade height 1/8" above the work-piece.

For up to date Safety Guidelines in English, French and Spanish visit www.amanatool.com/safety

INDUSTRIAL SAW BLADES



 $\textbf{15.} \ \ \text{Always use the guard that came with the saw}.$



17. Allow saw to reach maximum RPM before starting the cut.



 $\textbf{16.} \ \ \, \text{Use a push stick to distance your hands from the blade } \\ \text{when ripping narrow stock.}$



18. Make certain the work-piece is supported before starting the saw.



19. Never use fence(A) and the guide(B) at the same time. Do not force the blade into the cut. Use a feed rate that does not bog down the saw.



20. Use roller stands to support the large work-piece.



 ${\bf 21.}\;\;$ Have your saw blade professionally sharpened and inspected.



22. Keep the saw blade sharp and clean.

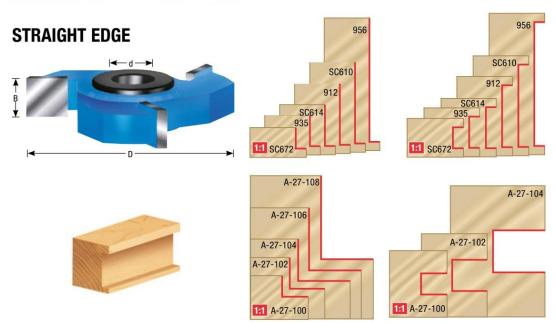






CARBIDE-TIPPED SHAPER CUTTERS

Over 250 different cutters for all your shaping needs. Extra-thick carbide tips offer many resharpenings and longer tool life. RPM rating: 12,000 and under. Cutters are furnished with either 1/2; 3/4" or 1-1/4" bore.



ØD	В	Ød	Tool No.
1-7/8	1/4	1/2 & 3/4	SC672
2-1/2	1/4	1 & 1-1/4	SC674
2-5/8	1/4	1/2 & 3/4	918†
2-3/4	1/4	1/2 & 3/4	SC671
2-7/8	1/4	1/2 & 3/4	SC611
2-7/8	1/4	1 & 1-1/4	SC613
3-1/8	1/4	1/2 & 3/4	917
3-3/8	1/4	1 & 1-1/4	SC673
3-9/16	1/4	1 & 1-1/4	SC615
4	1/4	1-1/4	A-27-100
2-5/8	3/8	1/2 & 3/4	953 †
4	3/8	1-1/4	A-27-102
2	1/2	1/2	SC614
2-1/2	1/2	1/2 & 3/4	948
2-5/8	1/2	1/2 & 3/4	954
4	1/2	1-1/4	A-27-104
2-5/8	3/4	1/2 & 3/4	912
4	3/4	1-1/4	A-27-106
2	1	1/2	SC610
2-5/8	1	1/2 & 3/4	955
4	1	1-1/4	A-27-108
4	1-1/4	1-1/4	A-27-110
2-5/8	1-1/2	1/2 & 3/4	956
4	1-3/4	1-1/4	A-27-114
2-5/8	2	1/2 & 3/4	SC632
4	2	1-1/4	A-27-116

† Due to size, furnished with only one 1/2" x 3/4" bushing.



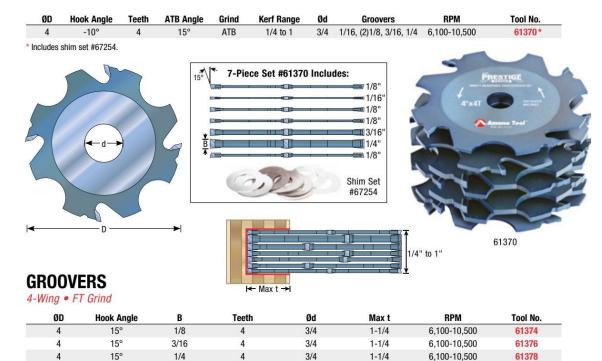
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

PRESTIGE™ MIGHTY ADJUSTABLE SUPER-FINE DADO/GROOVER SET

For Shapers • Accommodates Undersized Plywood • 4-Wing, ATB & FT Grind • 1/4" to 1"

Our Prestige[™] Dado Set cuts perfectly smooth edges, flat-bottom cuts and grooves both along and across the grain that are free of splinters or rough edges. This set consists of seven cutters made of a hard wearing steel tool body complete with four tungsten carbide tips. Ideal for producing different dado cuts, slots and rabbeting in softwood, hardwood and man-made boards on a shaper machine. Width can be adjusted as required using included shim set.





PRESTIGE™ MIGHTY DADO SHIM SET

The perfect accessory for the above dado/groover set. Each set includes 19 shims in various thicknesses for precise adjustments of your dado/groover set width. Especially useful when working with plywood and other materials that are slightly under or oversized.

Each Shim Set #67254 includes the following:

Quantity Shims	Color	Inch	mm	Ød	ØD
5	Silver	0.002	0.05	3/4	2-1/4
6	Clear	0.010	0.25	3/4	2-1/4
8	White	0.020	0.50	3/4	2-1/4

Each Prestige™ Mighty Adjustable Dado/Groover Set Includes: Instruction Manual

With Dado Configurations Including Set-Ups for

Undersized Plywood



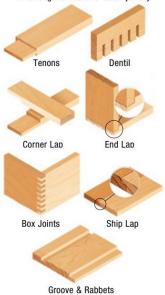
Perfect for Crosscutting and Ripping These Materials:







A stacking dado set is an ideal tool for cutting dadoes, grooves and tenons for strong mortise-and-tenon joinery.

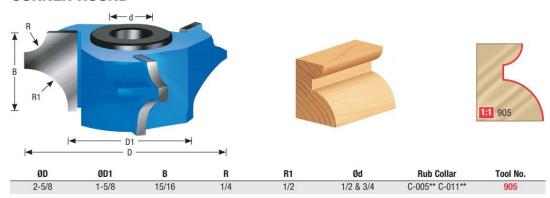


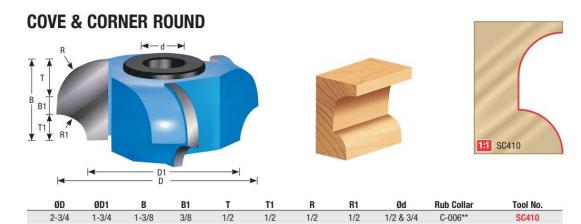
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

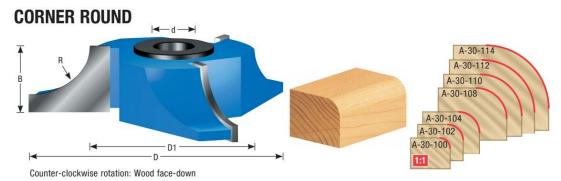
For rub collars & bushings, see pages 388-389.



CORNER ROUND







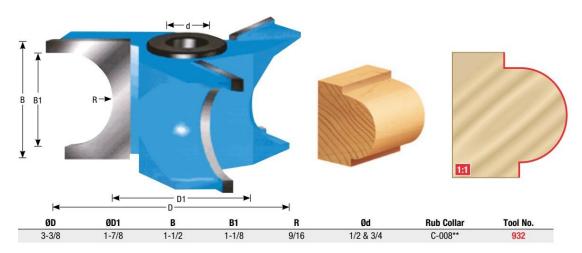
Description	ØD	ØD1	R	В	Ød	Rub Collar	Tool No.
Corner Round	4	3-3/4	1/8	3/8	1-1/4	C-038	A-30-100
Corner Round	4	3-5/8	3/16	7/16	1-1/4	C-037	A-30-102
Corner Round	4	3-1/2	1/4	1/2	1-1/4	C-035	A-30-104
Corner Round	4	3-3/8	5/16	9/16	1-1/4	C-034	A-30-106
Corner Round	4	3	1/2	3/4	1-1/4	C-032	A-30-110
Drop Leaf-Bead	2-5/8	1-5/8	1/2	1	1/2 & 3/4	C-005 **	SC636
Corner Round	4	2-3/4	5/8	7/8	1-1/4	C-031	A-30-112
Corner Round	3-5/8	2-1/8	3/4	1	1/2 & 3/4	C-011 **	959
Corner Round	4	2-1/2	3/4	1	1-1/4	C-017	A-30-114
Corner Round	4-1/2	2-1/2	1	1-1/4	1-1/4	C-017	A-30-116
Corner Round	5	2-1/2	1-1/4	1-1/2	1-1/4	C-017	A-30-118

Replacement 'T' bushing(s) for #959 & #SC636: #BU-550.

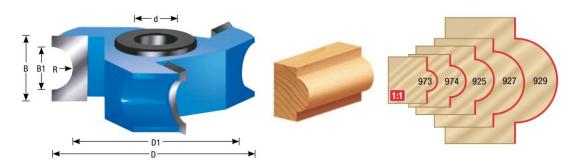


*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

STAIR TREAD NOSE



BULL NOSE



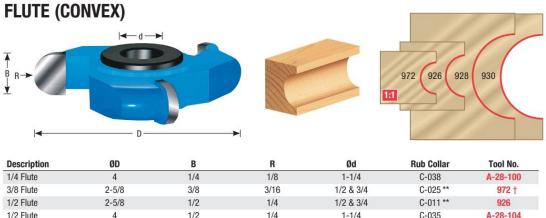
Description	ØD	ØD1	В	B1	R	Ød	Rub Collar	Tool No.
5/16 Bead	3	2-11/16	7/16	5/16	5/32	1/2 & 3/4	C-019 **	SC424
1/4 Bead	4	3-3/4	1/2	1/4	1/8	1-1/4	C-038	A-29-100
1/4 Bead	2-5/8	2-3/8	9/16	1/4	1/8	1/2 & 3/4	-	973 †
3/8 Bead	2-5/8	2-1/4	5/8	3/8	3/16	1/2 & 3/4	C-025 **	974
3/8 Bead	4	3-5/8	11/16	3/8	3/16	1-1/4	C-037	A-29-102
1/2 Bead	2-5/8	2-1/8	13/16	1/2	1/4	1/2 & 3/4	C-011 **	925
1/2 Bead	4	3-1/2	13/16	1/2	1/4	1-1/4	C-035	A-29-104
5/8 Bead	2-5/8	2	15/16	5/8	5/16	1/2 & 3/4	C-010 **	923
3/4 Bead	2-5/8	1-7/8	1-1/16	3/4	3/8	1/2 & 3/4	C-008 **	927
3/4 Bead	4	3-1/4	1-1/8	3/4	3/8	1-1/4	C-033	A-29-106
1 Bead	4	3	1-5/16	1	1/2	1-1/4	C-032	A-29-108
1 Bead	2-5/8	1-5/8	1-1/2	1	1/2	1/2 & 3/4	C-005 **	929
1-1/8 Bead	3-7/8	2-3/8	1-1/2	1-1/8	9/16	1-1/4	C-020	A-29-109
1-1/4 Bead	3-9/16	2-5/16	1-5/8	1-1/4	5/8	1 & 1-1/4	C-040 ***	SC570
1-1/2 Bead	3-13/16	2-5/16	2	1-1/2	3/4	1 & 1-1/4	C-040 ***	SC572
2 Bead	4-5/16	2-5/16	2-1/2	2	1	1 & 1-1/4	C-040 ***	SC574

 $[\]ensuremath{^{\dagger}}$ Due to size, furnished with only one 1/2" x 3/4" bushing.

*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.

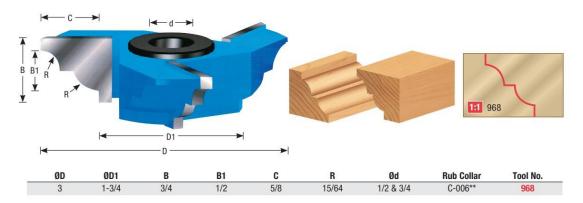




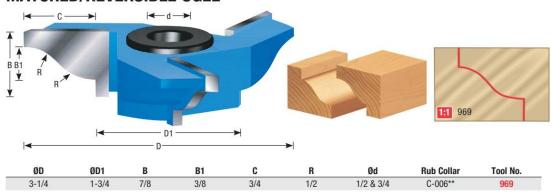
Dogoribrion.	,,,,,,	_	•••	50 64	nus condi	
1/4 Flute	4	1/4	1/8	1-1/4	C-038	A-28-100
3/8 Flute	2-5/8	3/8	3/16	1/2 & 3/4	C-025 **	972 †
1/2 Flute	2-5/8	1/2	1/4	1/2 & 3/4	C-011 **	926
1/2 Flute	4	1/2	1/4	1-1/4	C-035	A-28-104
3/4 Flute	2-5/8	3/4	3/8	1/2 & 3/4	C-008 **	928
3/4 Flute	4	3/4	3/8	1-1/4	C-033	A-28-106
1 Flute	2-5/8	1	1/2	1/2 & 3/4	C-005 **	930
1 Flute	4	1	1/2	1-1/4	C-032	A-28-108
1-1/4 Flute	3-1/4	1-1/4	5/8	1 & 1-1/4	C-050 ***	SC532
1-1/2 Flute	3-1/2	1-1/2	3/4	1 & 1-1/4	C-050 ***	SC534
2 Flute	4	2	1	1 & 1-1/4	C-050 ***	SC536

[†] Due to size, furnished with only one 1/2" x 3/4" bushing.

MATCHED/REVERSIBLE DETAIL BEAD & COVE



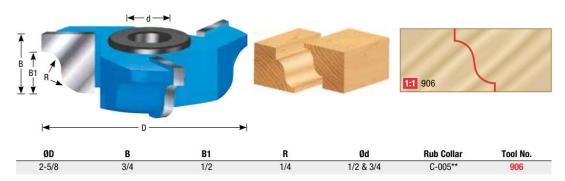
MATCHED/REVERSIBLE OGEE

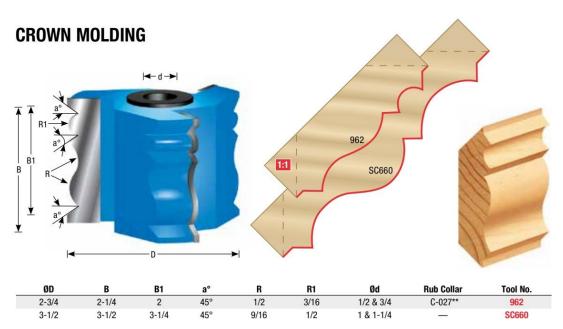


352 Amana Tool®

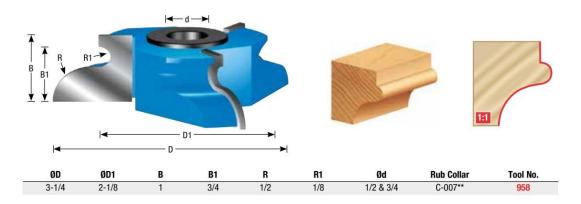
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

MATCHED/REVERSIBLE OGEE





OGEE & BEAD TABLE EDGE

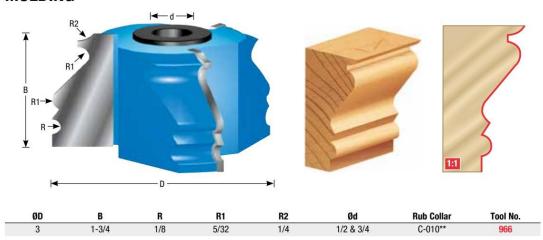


*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

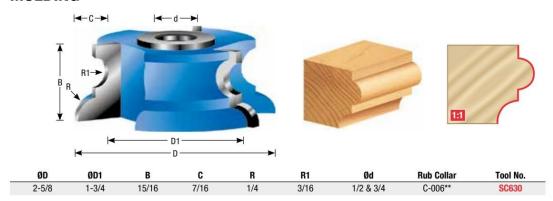
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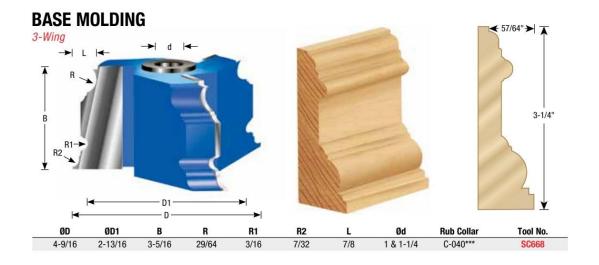


MOLDING



MOLDING



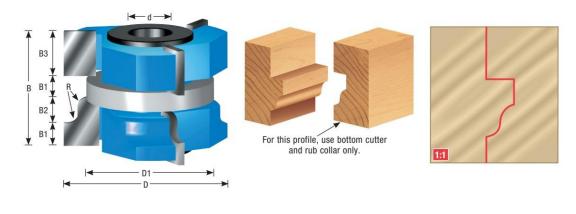




*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

WINDOW SASH

With Ball Bearing Rub Collar

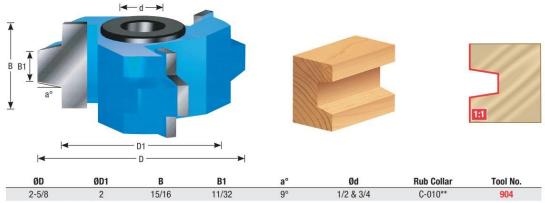


ØD	ØD1	В	B1	B2	B3	R	Ød	Rub Collar	Tool No.
2	1.457	1-5/8	5/16	3/8	5/8	1/4	1/2 & 3/4	C-043**	939

*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

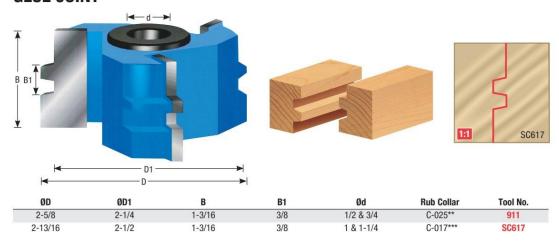
For rub collars & bushings, see pages 388-389.





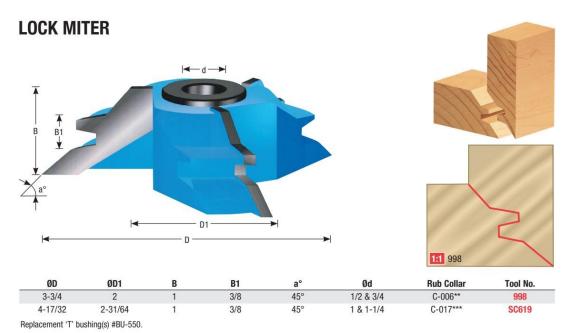
Replacement 'T' bushing(s) #BU-550.

GLUE JOINT

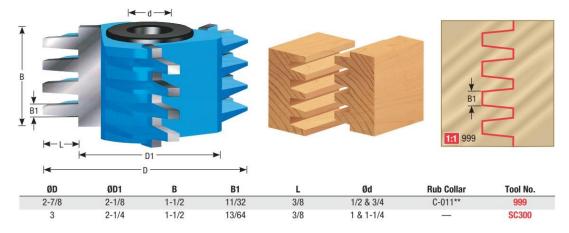


56 Amana Tool®

*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!



FINGER JOINT

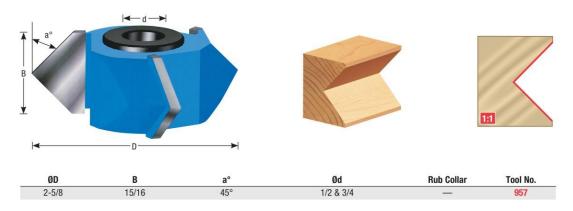


*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

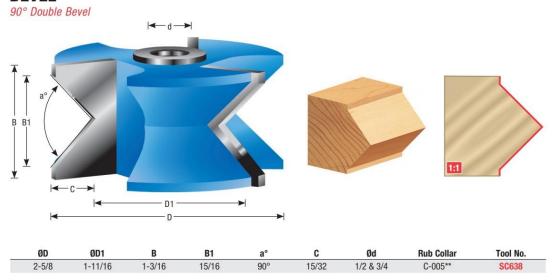
For rub collars & bushings, see pages 388-389.



90° V-GROOVE



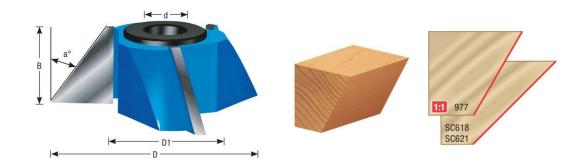
BEVEL





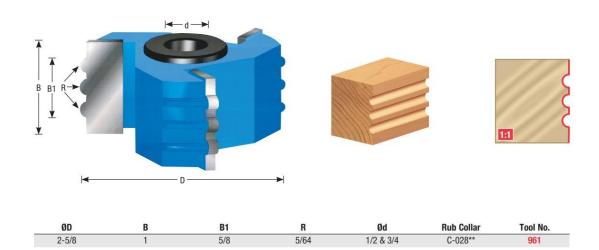
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

BEVEL



Description	ØD	ØD1	В	a°	Ød	Rub Collar	Tool No.
30° Bevel	2-5/8	1-3/8	1	30°	1/2 & 3/4	C-044**	977
45° Bevel	3-1/2	1-1/2	1	45°	1/2 & 3/4	C-011**	SC618
45° Bevel	4	2	1	45°	1 & 1-1/4	C-050***	SC621

TRIPLE FLUTING



*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.





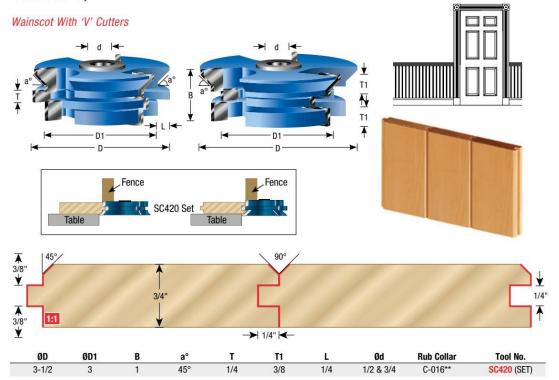
WAINSCOT/PANELING



For 3/4" Material

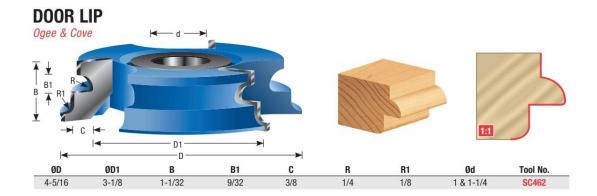
Wainscot and paneling are a great way to add visual interest to walls. Paneling is used to cover an entire wall while wainscot stops at the chair rail. Amana Tool® offers multiple styles of profiles to choose from.

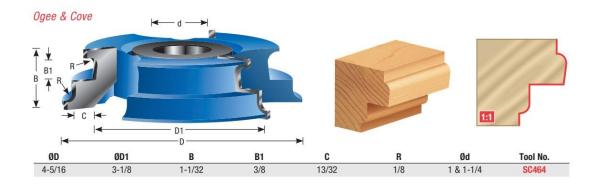
Wainscot with a 'V,' provides a simple forty-five degree 'V' profile along the edges of the stock. The second set creates a 5/16" diameter bead along the edges of the stock. Designed for 3/4" thick stock and create an interlocking 1/4" tongue-and-groove joint for ease of assembly.



360 🔊 Amana Tool®

*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

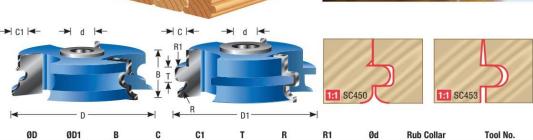




FLOORING SET WITH NAIL SLOT FOR 5/8" TO 3/4" MATERIAL

Build your own wood floors with this matched shaper cutter set, which ensures perfectly aligned tongue and groove flooring strips. The unique rounded edge created by these cutters makes flooring fast and easy to install, while the nail slot helps prevent splitting.





2-5/8	2-21/32	7/8	1/4	_	1/4	-	1/8	3/4	_	SC453 New
3-1/4	2-25/32	7/8	1/4	11/32	1/4	1/8	1/16	1/2 & 3/4	C-029, C-014**	SC450
3-1/4	2-13/16	7/8	1/4	11/32	1/4	1/8	1/16	1 & 1-1/4	C-018, C-040***	SC451

*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.

INDUSTRIAL SHAPER CUTTERS

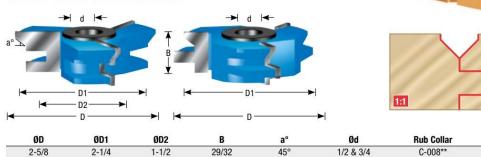
V-PANELING 2-PIECE SETS

'V' paneling is a quick and easy way to add architectural detail to any room. These two-piece sets are perfectly matched so that you can shape precisely milled paneling strips in any wood species.

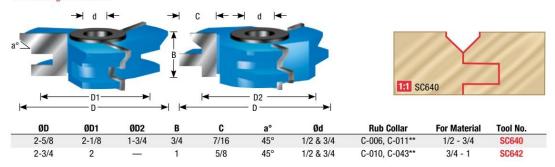
Tool No.

938

With 1/4"W x 3/8"D Tongue & Groove

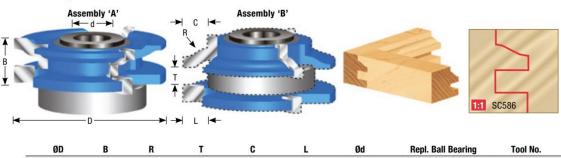


V-Paneling Cutter Set



REVERSIBLE STILE & RAIL CABINET DOOR SETS WITH BALL BEARING FOR 3/4" TO 1-1/4" MATERIAL





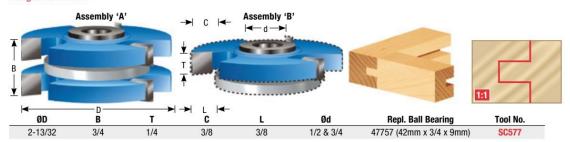
עש	D	n		U	L	Vα	Repl. ball bearing	TOOLING.	
2-13/32	! 1	5/16	1/4	3/8	3/8	1/2 & 3/4	47757 (42mm x 3/4 x 9mm)	SC586	
2-29/32	! 1	5/16	1/4	3/8	5/8	1/2 & 3/4	47757 (42mm x 3/4 x 9mm)	SC579	

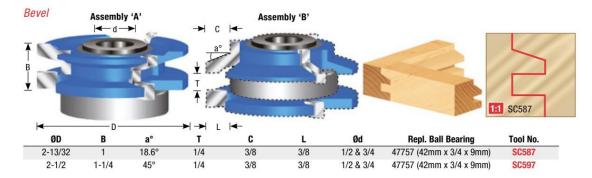
62 🔊 Amana Tool®

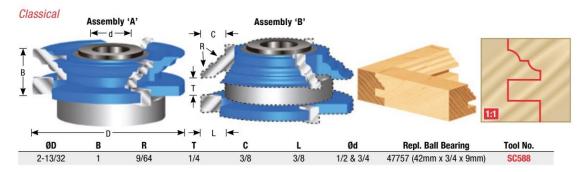
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

REVERSIBLE STILE & RAIL CABINET DOOR SETS WITH BALL BEARING FOR 3/4" TO 1-1/4" MATERIAL (CONT'D)

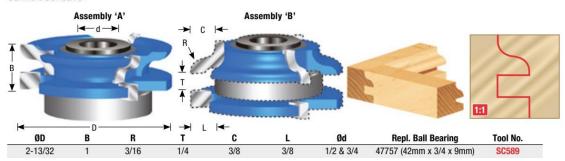
Tongue & Groove







Convex/Concave



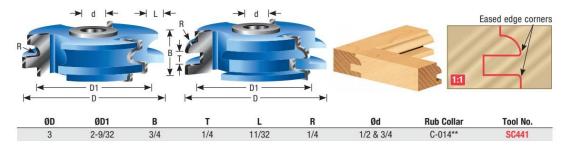
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.

INDUSTRIAL SHAPER CUTTERS

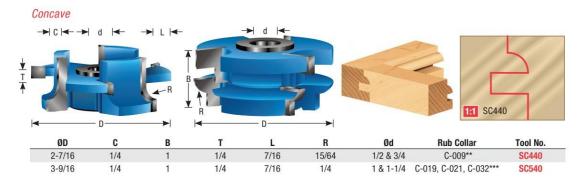
STILE & RAIL CABINET DOOR SET FOR 5/8" TO 3/4" MATERIAL

Concave With Eased Edge



STILE & RAIL CABINET DOOR SETS FOR 3/4" TO 1" MATERIAL

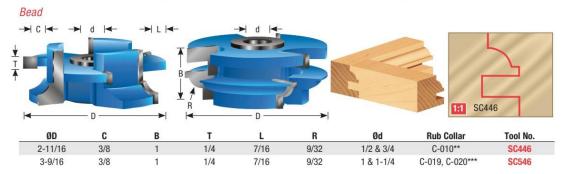
These Stile & Rail sets are great for making cabinet doors.

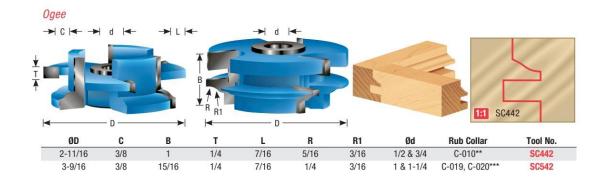




*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

STILE & RAIL CABINET DOOR SETS FOR 3/4" MATERIAL





*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.



INDUSTRIAL

Tongue & Groove

Cabinet Doors with Flat Panel

- Cut precise grooves to accommodate undersized plywood
- · Rattle-free fit
- · Mission/Shaker style









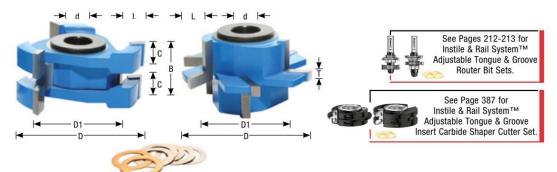
ADJUSTABLE TONGUE & GROOVE CABINET DOOR SETS 5/8" TO 1-1/4" MATERIAL

Shaker and Arts & Crafts

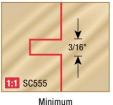
- · Designed to cut precise grooves to provide undersized plywood veneered panels with a snug rattle-free fit.
- · Adjust the panel groove width 3/16" to 9/32" for 1/4" plywood.
- 5.5mm for undersized 1/4" plywood and 5.9mm for oversized 1/4" veneered plywood.



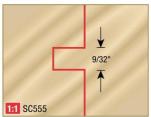












Maximum

82	עש	וטש	В	U		L	Vα	Rub Collar	I OOI NO.
	2-3/8	1-5/8	1 to 1-5/16	7/16	3/16 to 9/32	3/8	1/2 & 3/4	C-005**	SC555
	2-59/64	2-5/32	1-1/16 to 1-21/64	7/16	3/16 to 9/32	3/8	1 & 1-1/4	C-051***	SC553



*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!



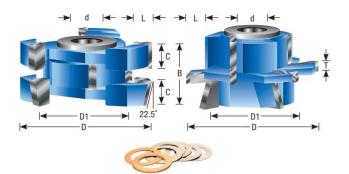






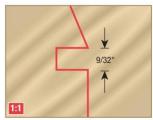
ADJUSTABLE TONGUE & GROOVE CABINET DOOR SET 5/8" TO 1-1/4" MATERIAL

Accommodates Undersized Plywood • Straight With 22.5° Bevel (Shaker)





Minimum



Maximum

ØD	ØD1	В	C	T	L	Ød	Rub Collar	Tool No.
2-3/8	1-5/8	1-1/16 to 1-21/64	7/16	3/16 to 9/32	3/8	1/2 & 3/4	C-005**	SC565
2-7/8	2-1/8	1-1/16 to 1-21/64	7/16	3/16 to 9/32	3/8	1 & 1-1/4	-	SC566 New



ØD	ØD1	В	C	T	L	Ød	Rub Collar	For Material	Tool No.
2-3/4	1-7/8	1	3/8	1/4	7/16	1/2 & 3/4	C-008**	5/8 to 1	SC554
2-3/4	1-7/8	1-3/4	11/16	3/8	7/16	1/2 & 3/4	C-008**	3/4 to 1-3/4	SC558
3-1/4	2-3/8	1-3/4	11/16	3/8	7/16	1 & 1-1/4	-	3/4 to 1-3/4	SC557
3-3/8	2-1/2	1-1/8	7/16	1/4	7/16	1 & 1-1/4	C-017***	5/8 to 1-1/8	SC556
3-1/2	2-1/2	2-1/8	13/16	1/2	1/2	1 & 1-1/4	C-017***	1 to 2-1/8	SC559

*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

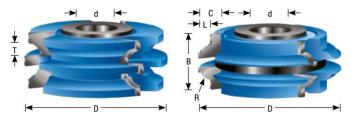
For rub collars & bushings, see pages 388-389.



STILE & RAIL CABINET DOOR SET FOR 1" TO 1-3/8" MATERIAL

Read





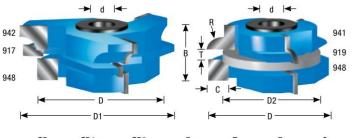


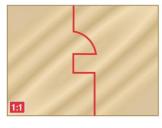
ØD	C	В	T	L	R	Ød	Rub Collar	Tool No.	
3-9/16	3/8	1-3/8	1/4	7/16	9/32	1 & 1-1/4	C-019***	SC562	

STILE & RAIL CABINET DOOR SET FOR 1-5/16" MATERIAL

Concave







ØD	ØD1	ØD2	В	T	R	C	Ød	Rub Collars	Tool No.
2-1/2	1-7/8	3-1/8	1-17/64	1/4	5/16	5/16	1/2 & 3/4	C-008, C-016**	940
Includes:									

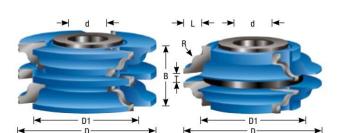
942
948
917
919
BU-550
BU-910



*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

STILE & RAIL CABINET DOOR SETS FOR 1-3/8" MATERIAL

0gee



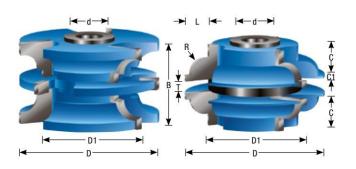




	ØD	D1	В	T	L	R	Ød	Rub Collar	Tool No.
1	3-9/16	_	1-1/2	1/4	9/16	3/16	1 & 1-1/4	C-017***	SC580
	3-9/16	2-1/2	1-3/4	1/2	17/32	3/16	1 & 1-1/4	C-017***	SC581

STILE & RAIL CABINET DOOR SETS FOR 1-9/16" MATERIAL

Bead







776	ØD	D1	В	L	C	C1	R	T	Ød	Rub Collar	Tool No.
ı	2-27/32	1-27/32	1-9/16	1/2	17/32	1/8	5/16	7/32	1/2 & 3/4	-	SC582
	3-9/16	2-9/16	1-9/16	1/2	17/32	1/8	5/16	7/32	1 & 1-1/4	C-018***	SC583

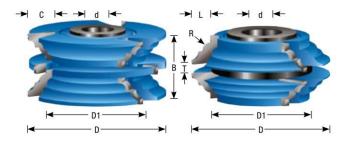
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.



STILE & RAIL CABINET DOOR SETS FOR 1-3/8" TO 1-5/8" MATERIAL

Bead & Cove





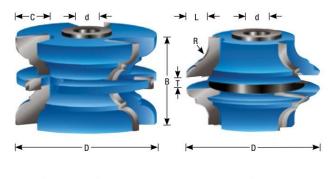


 ØD	ØD1	C	В	T	L	R	Ød	Rub Collars	Tool No.
3-9/16	2-7/16	9/16	1-9/16	1/4	9/16	3/16	1/2 & 3/4	C-039**	SC585
3-9/16		7/8	1-5/8	1/4	9/16	13/64	1 & 1-1/4	C-018***	SC584

STILE & RAIL EXTERIOR DOOR SET FOR 1-3/4" MATERIAL

Bead & Cove







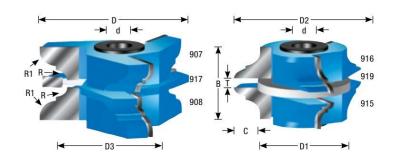
ØD	C	В	T	L	R	Ød	Rub Collar	Tool No.
2-7/8	1/2	1-3/4	1/4	1/2	21/64	1/2 & 3/4	C-008**	SC590

370 💊 Amana Tool®

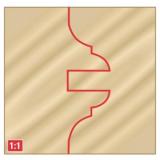
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

STILE & RAIL EXTERIOR DOOR SET FOR 1-3/4" MATERIAL

Cove & Bead





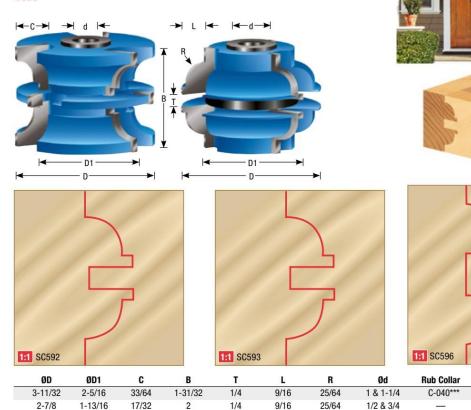


ØD	ØD1	ØD2	ØD3	T	C	В	R	R1	Ød	Rub Collars Tool No.	
3-1/8	1-7/8	2-15/16	2-1/16	1/4	17/32	1-3/4	15/64	11/32	1/2 & 3/4	C-008, C-022** 922 †	

[†] For replacement cutters, see references in above drawing.

STILE & RAIL EXTERIOR DOOR SETS FOR 1-3/4" TO 2-1/8" MATERIAL

Bead



*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

1/2

1/2

2-1/8

1/2

For rub collars & bushings, see pages 388-389.

2-17/32

3-17/32

INDUSTRIAL SHAPER CUTTERS

1 & 1-1/4

25/64

371

Tool No.

SC593

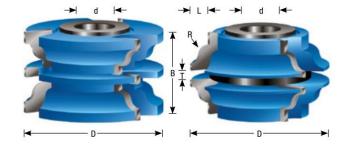
SC592

SC596

C-018***

STILE & RAIL EXTERIOR DOOR SET FOR 2" MATERIAL Ogee

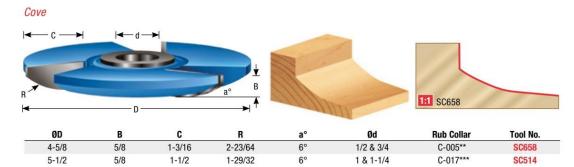


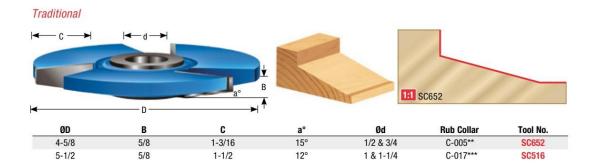




ØD	В	T	L	R	Ød	Rub Collars	Tool No.
3-9/16	2-1/16	1/4	9/16	1/4	1 & 1-1/4	C-018***	SC594

RAISED PANEL FOR 5/8" MATERIAL

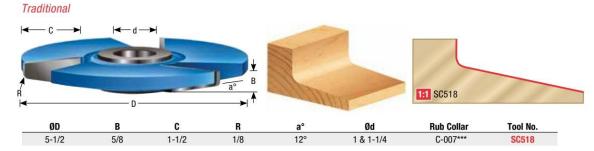


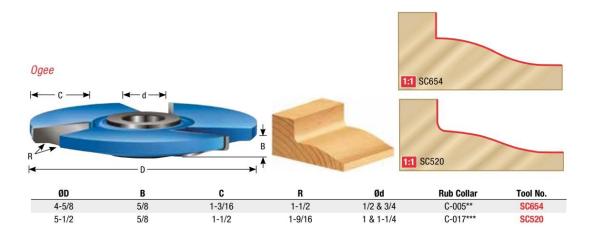




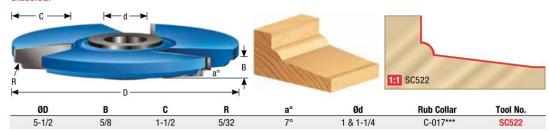
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

RAISED PANEL FOR 5/8" MATERIAL





Classical



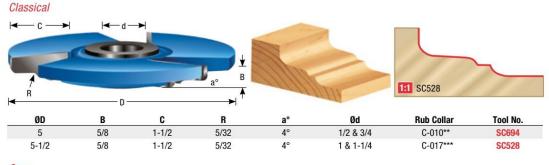
Classical 1:1 SC690 D В C ØD R Ød **Rub Collar** Tool No. 1/8 1/2 & 3/4 5/8 1-1/2 C-010** SC690

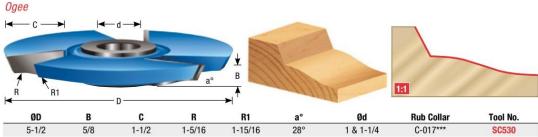
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.

INDUSTRIAL SHAPER CUTTERS

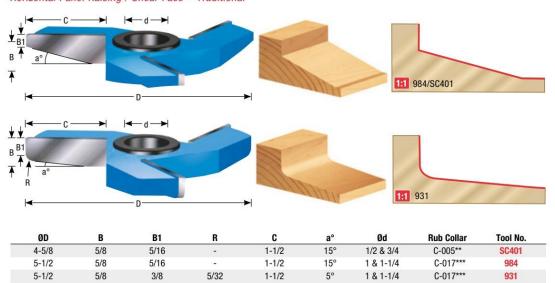
RAISED PANEL FOR 5/8" MATERIAL





RAISED PANEL FOR 5/8" MATERIAL

Horizontal Panel Raising / Shear Face • Traditional



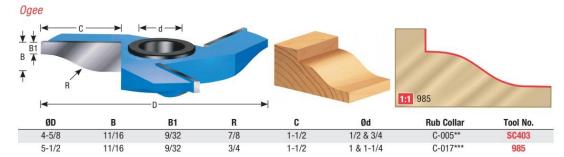
Note: Reveal (C) shown on all above tools reflects the total length of cut. Therefore, you must deduct 3/8" (usually) for allowing the panel to recess into the frame. Replacement 'T' bushings #BU-720 (2 required).

4 Amana Tool®

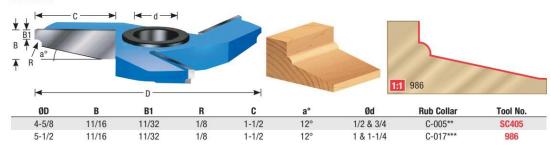
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

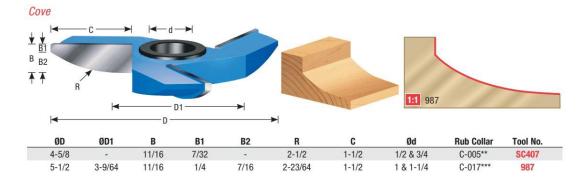
RAISED PANEL FOR 11/16" MATERIAL

Horizontal Panel Raising / Shear Face

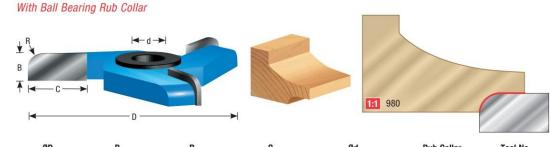


Classical





RAISED PANEL BACK



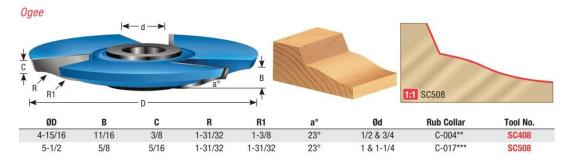
ØD	В	n	U	۷a	Rub Collar	1001 NO.
3-1/2	1/2	1/4	7/8	1/2 & 3/4	C-006**	980
3-39/64	1/2	1/4	7/8	1 & 1-1/4	C-045***	989

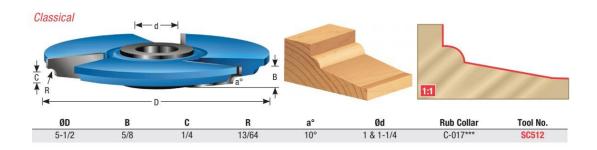
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.

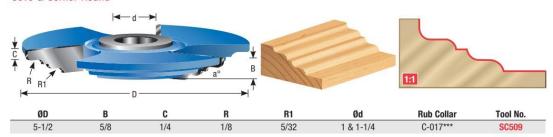
INDUSTRIAL SHAPER CUTTERS

RAISED PANEL FOR 3/4" MATERIAL





Cove & Corner Round

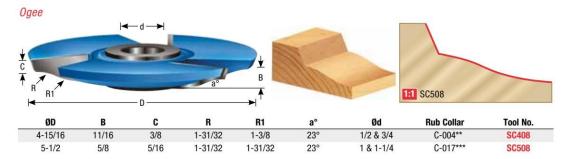


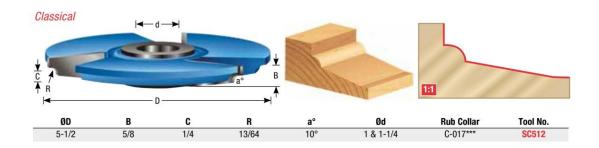
*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.

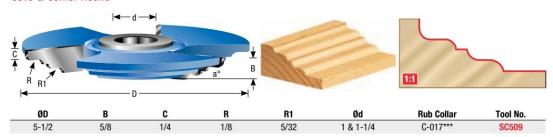
INDUSTRIAL SHAPER CUTTERS

RAISED PANEL FOR 3/4" MATERIAL





Cove & Corner Round



*Rub collar for 1/2" arbor only! **Rub collar for 3/4" arbor only! ***Rub collar for 1-1/4" arbor only!

For rub collars & bushings, see pages 388-389.

INDUSTRIAL SHAPER CUTTERS

INDUSTRIAL Insert Carbide

Shaper Cutters



A Warning: Before use, read shaper cutter safety guidelines on page 391.



GROOVING

With Scorer 4mm to 6mm

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing grooves and slots in softwood, hardwood and man-made boards (with or without coating) on a spindle molder.

Can be used with spacer rings for comb jointing.





ØD	В	Teeth	Ød	Max. t	RPM	Repl.	Knife	Tool No.
125mm(5)	4mm(5/32)	4+4	1-1/4	35mm(1-3/8)	6,100-10,500	RCK-18	RCK-71	61451
125mm(5)	5mm(3/16)	4+4	1-1/4	35mm(1-3/8)	6,100-10,500	RCK-19	RCK-71	61453
125mm(5)	1/4	4+4	1-1/4	35mm(1-3/8)	6,100-10,500	RCK-33	RCK-71	61466
180mm(7-1/16)	4mm(5/32)	8+8	1-1/4	55mm(2-5/32)	4,200-7,200	RCK-18	RCK-71	61458
180mm(7-1/16)	6mm(15/64)	8+8	1-1/4	55mm(2-5/32)	4.200-7.200	RCK-33	RCK-71	61461

ADJUSTABLE GROOVING

With Scorer 4mm to 7.5mm

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing various thickness grooves and slots in softwood, hardwood and man-made boards (with or without coating) on a spindle molder. Cutting width can be adjusted in 0.1mm increments by using supplied spacer rings.





ØD	В	Teeth	E	Ød	Max. t	RPM	Repl.	Knife	Tool No.
160mm(6-5/16)	4 to 7.5mm(5/32 to 19/64)	8+4	6.35(1/4)	1-1/4	30mm(1-3/16)	4,800-8,300	RCK-18	RCK-71	61350
180mm(7-1/16)	4 to 7.5mm(5/32 to 19/64)	8+4	6.35(1/4)	1-1/4	40mm(1-1/2)	4,300-7,500	RCK-18	RCK-71	61352

Replacement parts: Blade nut for RCK-18 #67172 / RCK-71 #67056; Torx key #5090.

3 PART ADJUSTABLE GROOVING

With Scorer 4mm to 15.5mm

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing various thickness grooves and slots in softwood, hardwood and man-made boards (with or without coating) on a spindle molder. Cutting width can be adjusted in 0.1mm increments by using supplied spacer rings.





ØD	В	Teeth	Ød	Max. t	RPM		Repl. Knife		Tool No.
150mm(5-7/8)	4 to 15.5mm(5/32 to 5/8)	2+4+4	1-1/4	45mm(1-3/4)	5,500-8,500	AMA-17	RCK-18	RCK-71	61354

Included shim set #67208.

INDUSTRIAL INSERT SHAPER CUTTERS





ADJUSTABLE GROOVING

With Scorer And Ring Nut

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing various thickness grooves and slots in softwood, hardwood and man-made boards (with or without coating) on a spindle molder. Cutting width can be adjusted in 0.1mm increments by special threaded bushing and scale without removing the cutter from the spindle.



With Scorer And Ring Nut 4mm to 7.5mm









ØD	В	Teeth	Ød	Max. t	RPM	Repl.	Knife	Tool No.
160mm(6-5/16)	4 to 7.5mm(5/32 to 19/64)	8+4	1-1/4	30mm(1-3/16)	4,800-8,300	RCK-18	RCK-71	61345
180mm(7-1/16)	4 to 7.5mm(5/32 to 19/64)	8+4	1-1/4	40mm(1-1/2)	4,300-7,500	RCK-18	RCK-71	61346

Replacement Parts: Allen Cap Screw for 61346 #67006.

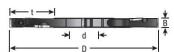
With Scorer And Ring Nut 8mm to 24mm





ØD	В	Teeth	Ød	Max. t	RPM	Repl.	Knife	Tool No.
160mm(6-5/16)	8 to 15mm(5/16 to 19/32)	4+4	1-1/4	30mm(1-3/16)	4,800-8,300	AMA-17	RCK-70	61340
160mm(6-5/16)	12.5 to 24mm(1/2 to 15/16)	4+4	1-1/4	30mm(1-3/16)	4,800-8,300	AMA-19	RCK-70	61342
180mm(7-1/16)	8 to 15mm(5/16 to 19/32)	4+4	1-1/4	40mm(1-1/2)	4.300-7.500	AMA-17	RCK-70	61343





GROOVING

With Scorer 8mm to 12mm

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing grooves and slots in softwood, hardwood and man-made boards (with or without coating) on a spindle molder.













ØD	В	Teeth	Ød	Max. t	RPM	Repl. Knife		Tool No.
125mm(5)	8mm(5/16)	4+4	1-1/4	35mm(1-3/8)	6,100-10,500	AMA-17	HCK-70	61411
125mm(5)	10mm(13/32)	4+4	1-1/4	35mm(1-3/8)	6,100-10,500	AMA-18	HCK-70	61412
125mm(5)	1/2	4+4	1-1/4	35mm(1-3/8)	6,100-10,500	AMA-12	HCK-70	61422



ADJUSTABLE GROOVING

With Scorer 8mm to 24mm

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing various thickness grooves and slots in softwood, hardwood and man-made boards (with or without coating) on a spindle molder. Cutting width can be adjusted in 0.1mm increments by using supplied spacer rings.













STL

ØD	В	Teeth	Ød	Max. t	RPM	Repl.	Knife	Tool No.
160mm(6-5/16)	8 to 15mm(5/16 to 19/32)	4+4	1-1/4	30mm(1-3/16)	4,800-8,300	AMA-17	RCK-70	61360
160mm(6-5/16)	12.5 to 24mm(1/2 to 15/16)	4+4	1-1/4	30mm(1-3/16)	4,800-8,300	AMA-19	RCK-70	61362
180mm(7-1/16)	12.5 to 24mm(1/2 to 15/16)	4+4	1-1/4	40mm(1-1/2)	4,300-7,500	AMA-19	RCK-70	61366

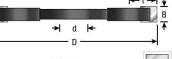
INTERMEDIATE STACKABLE

7mm, 15mm and 20mm Kerfs

Expand the range of the shim-type adjustable groovers with these intermediate cutters. Works like a stackable dado set: sandwich one or more of the intermediate cutters between a pair of the groovers (model #'s 61350, 61352, 61360, 61362, 61366). Find the coarse groove width by stacking the appropriate selection of cutters on the shaper spindle, and fine-tune the width by shimming the outside groovers.







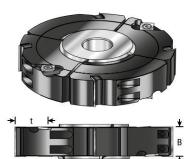
ØD	В	Teeth	Ød	Max. t	RPM	Repl. Knife	Tool No.
160mm(6-5/16)	15mm(19/32)	2	1-1/4	30mm(1-3/16)	4,800-8,300	ICK-15	61386
160mm(6-5/16)	20mm(25/32)	2	1_1//	30mm(1-3/16)	4 300-7 500	ICK-3U	61399

ADJUSTABLE GROOVING AND RABBETING

With Scorer 20.6mm to 100mm

Hard wearing steel body complete with tungsten carbide knives and scorer for improved finish. Suitable for producing various thickness grooves and rabbets in softwood, hardwood and man-made boards (with or without coating) on a spindle molder. Cutting width can be adjusted in 0.1mm increments by using supplied spacer rings.





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ØD	В	Teeth	Ød	Max. t	RPM	Repl. Knife		Tool No.			
160mm(6-5/16)	20.6 to 40mm(13/16 to 19/16)	4+4	1-1/4	40mm(1-1/2)	4,800-8,000	ICK-20	RCK-70	61355			
160mm(6-5/16)	30.6 to 60mm(1-7/32 to 2-3/8)	4+4	1-1/4	40mm(1-1/2)	4,800-8,000	RCK-30	RCK-70	61356			
200mm(7-7/8)	20.6 to 40mm(13/16 to 19/16)	4+4	1-1/4	50mm(2)	4.000-6.500	ICK-20	RCK-70	61358			

Replacement screw for 61355 is #67155. Replacement screw for ICK-30 & ICK-50 #67301. Replacement screw for ICK-60 #67142.

INDUSTRIAL INSERT SHAPER CUTTERS



SHEAR RABBETING

Cutterhead bodies available in hard wearing aluminum or steel, complete with shear angle tungsten carbide knives and scorer. Suitable for producing various thickness rabbets in softwood, hardwood and man-made boards (with or without coating) on a spindle molder. Shear angle reduces tear-out and improves quality of cut.





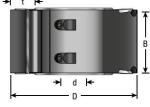
	0 0		EN841-1		← =
И	Repl.	Knife		Tool No).
0,300	ICK-30	HCK-70		61480	
0.000	1017 50				

ØD	В	Teeth	Ød	Max. t	RPM	Repl.	Knife	Tool No.
125mm(5)	30mm(1-3/16)	2+4	1-1/4	27mm(1-1/16)	6,100-10,300	ICK-30	HCK-70	61480
125mm(5)	50mm(2)	4+4	1-1/4	27mm(1-1/16)	6,100-10,300	ICK-50	HCK-70	61482
125mm(5)	60mm(2-3/8)	2+4	1-1/4	27mm(1-1/16)	6,100-10,300	ICK-60	HCK-70	61484 *
150mm(5-7/8)	60mm(2-3/8)	2+4	1-1/4	40mm(1-1/2)	5,200-8,600	ICK-60	HCK-70	61485 *

Replacement screw for HCK-70 #67154. Replacement screw for ICK-30 & ICK-50 #67301. Replacement screw for ICK-60 #67142. *Aluminum







RABBETING

Cutterhead bodies available in hard wearing aluminum or steel, complete with tungsten carbide knives and scorer for improved finish. Suitable for producing various thickness rabbets in softwood, hardwood and man-made boards (with or without coating) on a spindle molder.











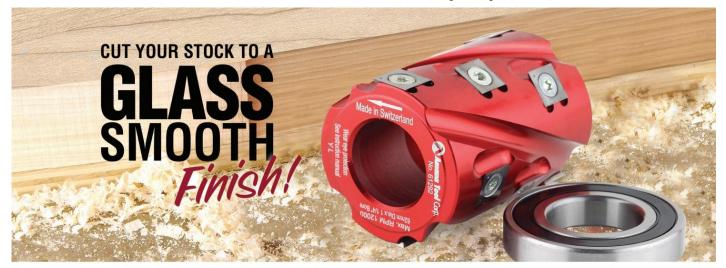


ØD	В	Teeth	Ød	Max. t	RPM	Repl.	Knife	Tool No.
85mm(3-3/8)	50mm(2)	2+4	1-1/4	8mm(5/16)	9,000-15,000	ICK-50	HCK-70	61463
90mm(3-9/16)	40mm(1-1/2)	2+4	1-1/4	15mm(19/32)	8,500-12,000	RCK-40	HCK-70	61464 *
100mm(4)	30mm(1-3/16)	2+4	1-1/4	20mm(7/8)	7,600-12,900	ICK-30	HCK-70	61460 *
100mm(4)	50mm(2)	2+4	1-1/4	20mm(7/8)	7,600-12,900	ICK-50	HCK-70	61462 *
125mm(5)	30mm(1-3/16)	2+4	1-1/4	30mm(1-3/16)	6,100-10,000	ICK-30	HCK-70	61470
125mm(5)	50mm(2)	2+4	1-1/4	30mm(1-3/16)	6,100-10,000	ICK-50	HCK-70	61472
125mm(5)	50mm(2)	2+4	1-1/4	30mm(1-3/16)	6,100-10,000	ICK-50	HCK-70	61465 *
125mm(5)	60mm(2-3/8)	2+4	1-1/4	30mm(1-3/16)	6,100-10,000	ICK-60	HCK-70	61467

*Aluminum







SPIRAL PLANER/JOINTING

Hard wearing aluminum body complete with spiral positioned tungsten carbide knives. Suitable for planing and jointing in softwood, hardwood and man-made boards on a spindle molder. Can be used with a bearing guide and ring fence for planing and routing curved work pieces with a template.



#61292: Replacement screw #67154. #61295: Replacement screw #67057.

SANDING DRUM

For sanding rough work-pieces using a bottom template and rub collar with ball bearing.



Replacement abrasive material = AB61293 (9"x3") 80 grit paper.

INDUSTRIAL INSERT SHAPER CUTTERS



ADJUSTABLE CHAMFER

Cutterhead bodies available in hard wearing aluminum or steel, complete with tungsten carbide knives. Suitable for producing chamfer cuts at various angles in softwood, hardwood and man-made boards on a spindle molder. Cutting angle can be adjusted in 7.5° increments by using notched scale.



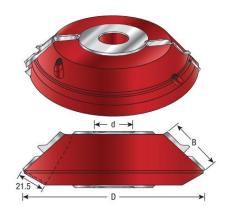






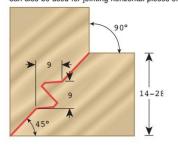
ØD	В	a°	Ød	RPM	Repl. Knife	Tool No.
110mm(4-11/32)	40mm(1-1/2)	-45.0° to +45.0°	1-1/4	7,000-9,000	RCK-40	61303
120mm(4-3/4)	40mm(1-1/2)	-45.0° to +45.0°	1-1/4	6,000-8,500	RCK-40	61304 *
130mm(5-1/8)	50mm(2)	-67.5° to +67.5°	1-1/4	5,000-8,500	ICK-50	61306
150mm(5-7/8)	50mm(2)	-90.0° to +90.0°	1-1/4	5,100-7,400	ICK-50	61307
160mm(6-5/16)	50mm(2)	-90.0° to +90.0°	1-1/4	4,800-6,000	ICK-50	61310*
170mm(6-11/16)	60mm(2-3/8)	-90.0° to +90.0°	1-1/4	4,500-6,000	ICK-60	61311 *

*Aluminum



45° LOCK MITER

This tool features a hard wearing aluminum cutterhead, complete with two tungsten carbide knives. Suitable for producing 45° lock miter joints in softwood, hardwood and man-made boards on a spindle molder. Can also be used for jointing horizontal pieces of timber.













ØD	В	d	RPM	Repl. Knife	Tool No.
170mm(6-11/16)	40mm(1-1/2)	1-1/4	4,500-7,900	RCK-90	61290



'V' TYPE GLUE JOINT

Cutterhead bodies in hard wearing aluminum, complete with tungsten carbide knives. Suitable for producing glue joints in softwood, hardwood and man-made boards on a spindle molder.



ØD	В	Ød	RPM	Repl. Knife	Tool No.
90mm(3-9/16)	50mm(2)	1-1/4	8,500-12,000	RCK-72	61296
120mm(4-3/4)	50mm(2)	1-1/4	6,100-10,000	RCK-72	61297

GLUE JOINT

Cutterhead bodies in hard wearing aluminum or steel, complete with tungsten carbide knives. Suitable for producing 'finger style' reversible glue joints in softwood, hardwood and man-made boards on a spindle molder.

Visit www.amanatool.com for cut profiles.

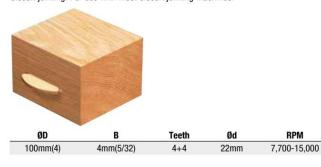




ØD	В	Profile	Α	Ød	RPM	Repl. Knife	Tool No.
120mm(4-3/4)	60mm(2-3/8)	1	7.7mm(5/16)	1-1/4	6.500-9.500	RCK-83	61258

LAMELLO® BISCUIT JOINT

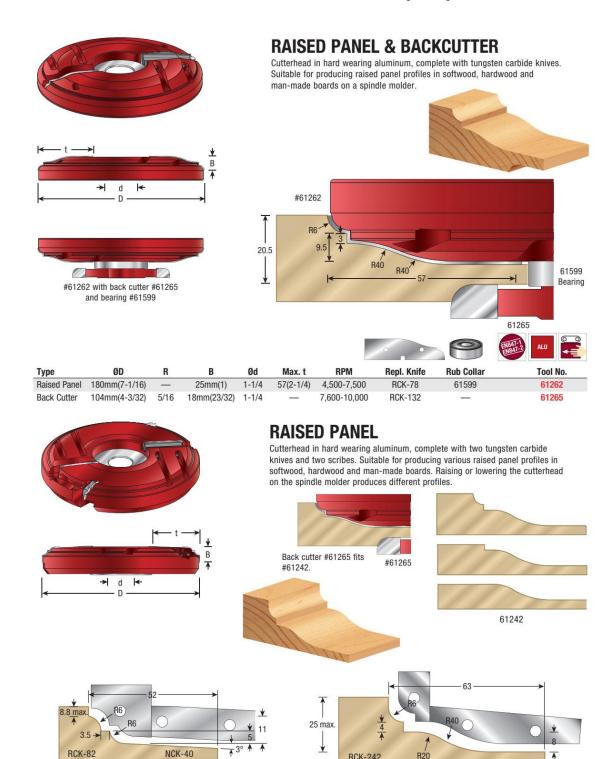
Hard wearing steel body complete with tungsten carbide knives and scorers. Suitable for producing grooves and slots in softwood, hardwood and man-made boards for biscuit jointing. For use with most biscuit jointing machines.







INDUSTRIAL INSERT SHAPER CUTTERS



Type	ØD	R	В	Ød	Max. t	RPM	Teeth	Repl	Knife	Tool No.
Raised Panel	200mm(7-7/8)	_	24mm(15/16)	1-1/4	63mm(2-1/2)	3,800-6,500	2+2	RCK-242	_	61242
Back Cutter	104mm(4-3/32)	5/16	18mm(23/32)	1-1/4		7.600-10.000		-	-	61265

RCK-242



INDUSTRIAL

Adjustable Insert Shaper Cutters

- · Create "rattle-free" cabinet doors
- · Designed to accommodate undersized plywood flat panels





3-1/4 4.7 to 7.9mm (3/16 to 5/16)

ØD



ADJUSTABLE TONGUE & GROOVE SET

The perfect fix for undersized plywood flat panel "Mission Style, Arts & Crafts and Shaker" cabinet doors.

Set includes unique adjustment system and a gauge for precise settings.

- · Designed to cut precise grooves to provide undersized plywood veneered panels with a snug, rattle-free fit.
- For 5.5mm undersized 1/4" plywood.

12,900

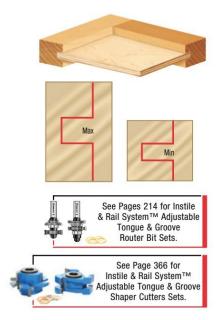
- For 5.9mm oversized 1/4" veneered plywood.
- · Adjust the panel groove width 3/16" to 5/16".
- Cut frame stock from 5/8" through 1-3/16" in thickness.



1-3/16 Replacement parts: Knives RCK-236 & RCK-238 consist of one pair each; Screw #67117; Adjusting screw #67058; Locking screw #67059.

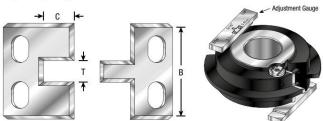
1-1/4

3/8

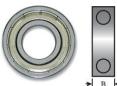




Adjust the panel groove width 3/16" to 5/16"



INDUSTRIAL INSERT SHAPER CUTTERS





BALL BEARING RUB COLLARS

For Shaper Cutters

For 1/2," 3/4" & 1-1/4" Diameter Spindles

Designed for template shaping such as arched or cathedral doors, etc. Features a ball bearing center with a steel sleeve and is available with either 1/2," 3/4" and 1-1/4" inside diameter. Please see page 372 for additional rub collars.

Use for Amana Tool® No.	Ød	ØD	В	Tool No.
SC602, SC604, SC606	1/2	1.250 (1-1/4)	5/16	C-002
993	1/2	1.500 (1-1/2)	5/16	47806
939, SC624, SC642	3/4	1.457	9.5mm	C-043
977	3/4	1.500 (1-1/2)	9.5mm	C-044
905, 950, 906, 929, 930, SC626, SC636, SC638, SC650, SC652, SC654, SC656, SC658	3/4	1.625 (1-5/8)	7/16	C-005
SC586, SC587, SC588, SC589	3/4	42mm (1-21/32)	9mm	47757
900, 901, 968, 969, 980, 998, 991, SC410, SC412 SC414, SC630, SC640, SC646	3/4	1.750 (1-3/4)	7/16	C-006
921, 922, 927, 928, 932, 938, 940, SC554, SC558, SC590, SC634, SC648	3/4	1.874 (1-7/8)	7/16	C-008
964, SC400, SC402, SC404, SC406,SC408	3/4	1.937 (1-15/16)	7/16	C-004
SC440, SC460	3/4	1.964	7/16	C-009
902, 903, 904, 951, 966, SC442, SC644, SC446	3/4	2.000	7/16	C-010
922	3/4	2.063	7/16	C-022
SC585	3/4	2.031 (2-1/32)	7/16	C-039
905, 925, 926, 959, 999, SC618, SC640	3/4	2.125 (2-1/8)	7/16	C-011
972, 974, SC628	3/4	2.250 (2-1/4)	7/16	C-025
	3/4	2.272	7/16	C-013
933, SC616, SC441	3/4	2.295	7/16	C-014
911	3/4	2.311	7/16	C-026
962	3/4	2.425	7/16	C-027
960, 961	3/4	2.468	7/16	C-028
940, 986-VC, 985-VC	3/4	2.500 (2-1/2)	7/16	C-016
934, 935, 937	3/4	2.555	7/16	C-029
984-VC, 987-VC, SC432	3/4	2.625 (2-5/8)	7/16	47822
989	1-1/4	1.850	9mm	C-045
SC532, SC534, SC536	1-1/4	2.000	9mm	C-050
SC593	1-1/4	2.312 (2-5/16)	1/2	C-040
931, 984, 985, 985-LH, 986, 987, A-30-114, A-30-116, A-30-118, A-30-120,	1-1/4	2.500 (2-1/2)	5/8	C-017
SC420, SC422, SC426, SC500, SC502, SC504, SC506, SC508, SC509, SC511, SC512, SC514, SC516, SC520, SC522, SC524, SC526, SC528, SC530, SC556, SC559, SC580, SC617				
SC584, SC594	1-1/4	2.531	1/2	C-018
SC424, SC540, SC542, SC544, SC546, SC548, SC550, SC560, SC562, SC564	1-1/4	2.688	1/2	C-019
SC542, SC546, SC548	1-1/4	2.874 (2-7/8)	1/2	C-020
A-28-108, A-29-108, A-30-110	1-1/4	3.000	1/2	C-032
1295	1-1/4	3.1875 (3-3/16)	19/32	61659
A-28-106, A-29-106, A-30-108	1-1/4	3.250 (3-1/4)	1/2	C-033
A-28-104, A-29-104, A-30-104	1-1/4	3.500 (3-1/2)	1/2	C-035
A-28-102, A-29-102, A-30-102	1-1/4	3.625 (3-5/8)	1/2	C-037
A-28-100, A-29-100, A-30-100	1-1/4	3.750 (3-3/4)	1/2	C-038

^{*}Includes 2 steel shims .007" (#55358); Rub collar shim (#55358)





BALL BEARING RUB COLLARS

For 3/4," 1," 1-1/4" & 30mm Spindle Shapers

Designed for template shaping such as arched or cathedral doors, etc. Features a steel ball bearing center and interchangeable, lightweight aluminum rub collar sleeves. To order, specify rub collar (example: #61600, 75mm), and then order the correct size bearing to fit your spindle. The bearing includes a special steel retaining collar that properly secures the assembly to your spindle (3/4," 1," 1-1/4" or 30mm).

ØD	В	Order No. (Rub collar only)
75mm	16mm	61600
80mm	16mm	61602
90mm	16mm	61606
95mm	16mm	61608
100mm	16mm	61610
4	16mm	61615
105mm	16mm	61612
110mm	16mm	61614
115mm	16mm	61616
120mm	16mm	61618
125mm	16mm	61620
130mm	16mm	61622
150mm	16mm	61626
160mm	16mm	61628

ØD	В	Order No. (Ball bearing w/ retainer)
2.675"	1-1/4	61650
2.675"	1	61652
2.675"	30mm	61654
2.675"	3/4	61656

ØD	В	Order No. (Retainer only)
2.675"	1-1/4	61670
2.675"	1	61672
2.675"	30mm	61674
2.675"	3/4	61676
Note: Bearing	only	

Note: Bearing only (1-1/4 x 2-1/2) order #61660 (no retainer).



DOUBLE 'T' REDUCTION BUSHINGS

Ød	ØD	В	C	Tool No.
1/2	3/4	1-5/16	1	BU-918
3/4	1	1-5/16	1-1/4	BU-916
3/4	1-1/4	1-5/16	1-1/2	BU-914
1	1-1/4	1-5/16	1-1/2	BU-912

LONG 'T' REDUCTION BUSHINGS

Ød	ØD	Α	В	C	Tool No.
3/4	1	1-5/32	1-5/16	1-3/4	BU-926
3/4	1-1/4	1-5/32	1-5/16	1-1/2	BU-924
1	1-1/4	1-5/32	1-5/16	1-1/2	BU-922

SHAPER CUTTER 'T' REDUCTION BUSHINGS

(With Flange), 2 Required Per Cutter

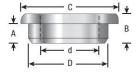
Each item number consists of one of each.

Ød	ØD	Α	В	C	Tool No.
1/2	3/4	5mm	9mm	55mm	BU-561
1/2	3/4	1/4	11/32	1	BU-550
1/2	1	5mm	9mm	55mm	BU-565
3/4	1	5mm	9mm	55mm	BU-564
3/4	30mm	5mm	9mm	55mm	BU-562
3/4	1-1/4	5mm	9mm	55mm	BU-570
3/4	1-1/4	1/4	15/32	1-3/4	BU-600
20mm	1-1/4	11/64	1/4	1-3/4	BU-724
1	1-1/4	3/16	9/32	1-3/4	BU-700
1	1-1/4	5mm	9mm	55mm	BU-568
1	1-1/4	1/4	11/32	1-5/8	BU-725
1	1-1/4	1/4	11/32	1-3/4	BU-720
1	1-1/4	11/32	1/2	1-3/4	BU-750
1	30mm	5mm	9mm	55mm	BU-560
1-1/8	1-1/4	13/64	1/4	1-3/4	BU-722
30mm	1-1/4	5mm	9mm	55mm	BU-566







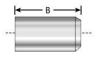


INDUSTRIAL BALL BEARINGS

HIGH PRECISION INDUSTRIAL STEEL SPACERS

(Sleeve Bushings) For Shaper Cutters

For 1/2" Spindles





Ød	ØD	В	Tool No.
1/2	3/4	.437 (7/16)	BU-902
1/2	3/4	.500 (1/2)	BU-900
1/2	3/4	.750 (3/4)	BU-910
1/2	3/4	1.062 (1-1/16)	BU-920
1/2	1	.250 (1/4)	67220
1/2	1	.375 (3/8)	67221
1/2	1	.500 (1/2)	67222
1/2	1	.750 (3/4)	67223
1/2	1	1	67224

For 3/4" Spindles

Ød	ØD	В	Tool No.
3/4	1	.250 (1/4)	67230
3/4	1	.375 (3/8)	67243
3/4	1	.437 (7/16)	BU-904
3/4	1-1/4	.250 (1/4)	67225
3/4	1-1/4	.375 (3/8)	67226
3/4	1-1/4	.437 (7/16)	BU-906
3/4	1-1/4	.500 (1/2)	67227
3/4	1-1/4	.750 (3/4)	67228
3/4	1-1/4	1	67229
3/4	1-1/2	.250 (1/4)	67241
3/4	1-5/8	.250 (1/4)	67242
3/4	1-7/8	.250 (1/4)	919





Ød	ØD	В	Tool No.
1	1-1/4	.437 (7/16)	BU-908
1	1-1/2	.250 (1/4)	67231
1	1-1/2	.375 (3/8)	67232
1	1-1/2	.500 (1/2)	67233
1	1-1/2	.750 (3/4)	67234
1	1-1/2	1	67235

For 30mm Spindles

Ød	ØD	В	Tool No.
30mm	1-1/4	.250 (1/4)	67244
30mm	1-1/4	.375 (3/8)	67245
30mm	1-1/4	.500 (1/2)	67246
30mm	1-1/4	.750 (3/4)	67247
30mm	1-1/4	1	67248

For 1-1/4" Spindles

Ød	ØD	В	Tool No.
1-1/4	1-3/4	.250 (1/4)	67236
1-1/4	1-3/4	.375 (3/8)	67237
1-1/4	1-3/4	.500 (1/2)	67238
1-1/4	1-3/4	.750 (3/4)	67239
1-1/4	1-3/4	1	67240

8 PC. SHIM SETS FOR SHAPER CUTTERS

Application: General purpose arbor steel shims used on assembly type tools that require cutter adjustment. Particularly useful after tool re-sharpening.











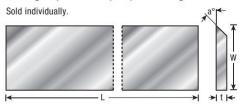




- 1. Always make sure the machine is disconnected from the power source while going through these important steps.
- 2. Always refer to your machine owner's manual prior to using your shaper. Learn the machines' applications and limitations as well as the potential hazards.
- **3.** Always wear eye and hearing protection. Keep clothing clear of cutting area.
- Make certain that the stock is not warped or twisted and is free of any knots, nails, screws, staples, grit or any other foreign object.
- **5.** Always examine the cutters for dull, worn or damaged knives. Never use a dull, worn or damaged tool.
- **6.** When using insert tooling, be sure all knives are installed correctly and securely tightened. Never make adjustments to cutters or knives while shaper is plugged in.
- **7.** Check the direction of the cutter rotation. The sharp leading edge of the knife should be the first to touch the material.
- $oldsymbol{8}_{oldsymbol{ \bullet}}$ Always be sure the spindle nut is securely tightened.
- **9.** Never feed the material in the same direction that the cutterhead rotates.
- 10. Make sure that both the in feed and out-feed fences are in alignment with each other.
- 11. Carefully rotate the spindle by hand to be sure that your cutters clear the fence and guards. Never make adjustments to shaper while cutters are turning or the power is on.
- **12.** Always use the safety guards supplied with your machinery. Never remove any safety guards or safety devices. Never make any cuts freehand!
- 13. Allow at least a minimum safety distance of 4 inches between the cutters and your hands when cutting material. Always use push blocks or sticks when working with small or narrow pieces.
- 14 Never stand behind the material being shaped.
- 15 Avoid shaping stock less than 10 inches in length.
- 16. Hold down the material firmly and feed it into the cutters with a constant and steady feed rate. Do not over-reach.
- 17 Always feed the material against the cutters. Never remove any stock until the entire length has passed completely through the cutters.
- 18 Failure to follow safety instructions and warnings could result in serious bodily injury or death.

HSS PLANER & JOINTER KNIVES

T-1 High-Speed Steel (HSS) 18% Tungsten



L	W	t	a°	Tool No.
15	1	1/8	45°	P 445
16	1	1/8	45°	P 442
20	1	1/8	45°	P 450
20	35mm	1/8	45°	P 455
24	1	1/8	45°	P 480
24	1-1/4	1/8	45°	P 490
25	1-1/4	1/8	45°	P 590
25	35mm	1/8	45°	P 595
31	1	1/8	45°	P 650
31	1-1/4	1/8	45°	P 660
37	5/8	1/8	45°	P 700
37	1-1/2	1/8	45°	P 772
37	5/8	3/32	45°	P 740
37	3/4	5/32	45°	P 712
37	1-1/8	5/32	45°	P 762

Metric Sizes

L	W	t	a°	Tool No.
10	30mm	1/8	45°	P 432
300mm	35mm	3mm	45°	P 731 New
350mm	35mm	3mm	45°	P 733 New
450mm	35mm	3mm	45°	P 737 New
500mm	35mm	3mm	45°	P 734





HSS PLANER & JOINTER KNIFE SETS

T-1 High-Speed Steel (HSS) • 18% Tungsten

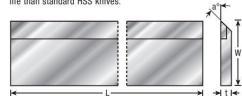
				Knives	
L	W	t	a°	Per Set	Tool No.
4	5/8	1/8	45°	3	P 100
4-3/8	5/8	1/8	45°	3	P 130
6	5/8	1/8	45°	3	P 150
6	5/8	1/8	45°	4	P 160
6	3/4	1/8	45°	3	P 165
6	7/8	1/8	45°	3	P 170
6-1/16	5/8	3/32	45°	3	P 190
6-1/8	5/8	1/8	45°	3	P 220
6-1/8	3/4	1/8	45°	3	P 230
8	5/8	1/16	45°	4	P 250
8	5/8	1/8	45°	3	P 270
8	3/4	1/16	45°	3	P 280
8	3/4	1/8	45°	3	P 290
8	3/4	1/8	45°	4	P 294
8	7/8	1/8	45°	3	P 300
8	1	1/8	45°	3	P 310
12	5/8	1/8	45°	3	P 360
12	3/4	1/8	45°	3	P 370
12	1	1/8	45°	3	P 390
12	1-1/4	1/8	45°	3	P 395
12-1/2	7/8	1/8	45°	3	P 430
12-1/2	11/16	1/8	45°	3	P 431
13-1/8	11/16	5/32	45°	3	P 440

Metric S	Metric Sizes			Knives	
L	W	t	a°	Per Set	Tool No.
100mm	30mm	3mm	45°	4	P 120
130mm	30mm	3mm	45°	4	P 140
150mm	30mm	3mm	45°	4	P 180
100mm	20mm	2mm	AE0	4	D 240

PLANER & JOINTER KNIVES

Carbide Tipped

An economical alternative to solid carbide knives. Longer tool life than standard HSS knives.

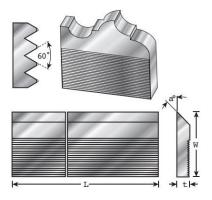


L	W	t	a°	Tool No.
4	3/4	1/8	45°	CTP-100
6	5/8	1/8	45°	CTP-110
6	3/4	1/8	45°	CTP-120
8	5/8	1/8	45°	CTP-130
8	3/4	1/8	45°	CTP-140
15	1	1/8	45°	CTP-170
20	1	1/8	45°	CTP-200

CORRUGATED BACK MOULDER STEEL

M-2 High-Speed Steel (HSS)

				Tool No.	Tool No.
	L	W	a°	t = 1/4"	t = 5/16"
ı	25	1-1/4	45°	CSK-100	CSK-300
	25	1-1/2	45°	CSK-110	CSK-310
	25	1-3/4	45°	CSK-120	CSK-320
	25	2	45°	CSK-130	CSK-330
	25	2-1/4	45°	CSK-140	CSK-340
	25	2-1/2	45°		CSK-350
	25	2-3/4	45°	CSK-160	CSK-360
	25	3	45°	-	CSK-370



DICUT™ LAMINATE CUTTER

Carbide Tipped

Quality craftsmanship in your work requires the highest quality in hand tools. Dicut™ is a precision cutting tool made with perfectly ground carbide edges for fast, accurate cutting and scoring of laminates, plastics, Plexiglas® and other materials. Tool features lightweight steel construction, special 'safety-grip' plastic coated handle, and carbide-tips that can be re-sharpened. Packaged in a colorful, attractive clamshell.

Useful for precision cutting of: Formica, plastic and Plexiglas.

escription icut™ Laminate Cutter	Tool No.
Dicut™ Laminate Cutter	20003



MAGNETIC KNIFE SETTER

For Planers & Jointers

- · Precise adjustments for leveling knives.
- Tool is calibrated with metric dimensions.
- · Simple to use.
- · Heavy duty magnets.
- · Spring loaded magnetized ceramic stop.
- · Works with size drums or knives.
- · Includes wooden box with instructions.

Description	Tool No.
Universal Knife Setter	MKS-100



INDUSTRIAL PLANER/JOINTER KNIVES

A		AMS-178		CO-136		
A-27-100 to A-27-116	240	AMS-179		CO-138 to CO-298	11	
A-28-100 to A-28-108		AMS-180		CO-300 to CO-336	Н	
A-29-100 to A-29-109		AMS-181-K		CO-399 to CO-444	HBM-102	286
A-30-100 to A-30-118		AMS-182		CO-ER20 to CO-ER40	HCK-15	272
AMA-10		AMS-182-K to AMS-183-K		CON-ER11 to CON-ER8M	HCK-17	270
AMA-12 to AMA-12-DLC		AMS-184		CSK-100 to CSK-370393	HCK-20 to HCK-30	272
AMA-17AMA-12-020		AMS-185		CTC12903-5/8	HCK-34 to HCK-36	271
AMA-25		AMS-186		CTP-100 to CTP-200	HCK-50	273
AMA-30 to AMA-50		AMS-187-K		CUP-32 to CUP-40	HCK-70	268
AMS-102		AMS-188-K		001 02 10 001 40	HG10480 to HG12600-30	319
AMS-103		AMS-190-K		n	HMA-10	
AMS-105		AMS-191		D	HMA-12	
		AMS-192		DCE-01 to DCE-0583	HO-112 to HO-220	
AMS-107		AMS-193		DP-300 to DP-304	HRK-30	
AMS-107-K		AMS-194		DRB-192 to DRB-22444	HRK-50	
AMS-109		AMS-195-K		DRB-300-RH47, 137	HSS11001 to HSS11006	
AMS-110		AMS-196 to AMS-198		DRB-400 to DRB-40448, 125	HSS1200 to HSS1216	
AMS-112		AMS-209 to AMS-210		DRB-416 to DRB-41845, 54	HSS1298-M to HSS1312	
AMS-113		AMS-212		DRB-42045, 91	HSS1490 to HSS1509	
AMS-114-K		AMS-213		DRB-421 to DRB-42345	HSS1520 to HSS1524	
AMS-115-K		AMS-214 to AMS-216		DRB-42445, 92	HSS1600 to HSS1607	
AMS-119 to AMS-119-T				DRB-432141	HSS1610 to HSS1614	
AMS-120 to AMS-125		AMS-218 to AMS-219 AMS-220		DRB-440 to DRB-44247, 116	HSS1611-M	
AMS-126				DRB-450	HSS1620 to HSS1663	
AMS-127		AMS-225		DSS-100 to DSS-108	HSS1702TIN to HSS1705TIN	
AMS-128		AMS-228		DT10601	113017021111 (U 113017031111	19
AMS-129		AMS-230		DT10720 to DT10720-30		
AMS-130		AMS-234-K		DT10721 to DT10800	L	
AMS-131		AMS-235		DT120T14-20 to DT120T24	ICK-15 to ICK-30-DLC	272
AMS-132		AMS-236-K		DT125T24-45	ICK-35LH to ICK-35RH	273
AMS-133		AMS-237		DT12720 to DT12721-30326	ICK-40	269
AMS-134 to AMS-134-B		AMS-238-K		DT12840 to DT12840-30	ICK-50 to ICK-60	
AMS-136		AMS-239		DT12841 to DT14841-30	ICK-100 to ICK-200	271
AMS-138		AMS-247-K		DT150T24-30 to DT175T28-45A		
AMS-139		AMS-257		DT180T30-30 to DT180T30-45330, 333	L	
AMS-140		AMS-261		DT180T30-55	-	
AMS-141 to AMS-142		AMS-262		DT200T36-20331, 333	LAM100T3-PCD	48, 337
AMS-142-K		AMS-265		DT200T36-45 to DT200T36-45B330, 333	LAM400T6	
AMS-143		AMS-299-T		DT200T36-65330, 331, 333	LB10801 to LB16121	322
AMS-144		AMS-310-K & AMS-312-K		DT200T36-65A330, 331, 333	LB220T641	322, 324
AMS-144-K		AMS-314-K		DT220T640324. 325	LB4201	32
AMS-145 to AMS-146		AMS-320		DT220T641324, 330	LB86401 to LB86401C	322
AMS-146-K		AMS-405		DT300T48-30 to DT300T48-50		
AMS-147		AMS-407		DT300T96-30C	M	
AMS-148		AMS-410		DT350T721-30		
AMS-148-K		AMS-420		DT355T540-75 to DT355T720-80 332	MB10800 to MB16120	
AMS-149		AMS-550 to AMS-556		DT355T721-30330, 331	MB220T420	
AMS-150		AMS-557		DT355T721-60 to DT355T721-75 330	MB86400 MDF-30	
AMS-151		AMS-600		DT380T601-60		
AMS-152		AMS-620		DT380T721-75	MFA-12	
AMS-153		AMS-627 to AMS-628		DT400T601-75 to DT400T601-80 330	MFK-30	
AMS-154		AMS-629		DT400T721-30330, 331	MKS-100 MR0100 to MR0101	
AMS-155		AMS-CNC-60		DT400T721-75		
AMS-157		AMS-MRSET		DT400T721-75	MR0102 to MR0103	
AMS-158		ATW-20 to ATW-40	82	DT420T721-60A	MR0104	
AMS-159		_		DT430T721-80 to DT430T961-75 331	MR0105	
AMS-160	5	В		DT450T721-80 to DT480T721-80A 331	MR0106 to MR0108	
AMS-160-Z		BTG-100 to BTG-200	267	DT500T721-60B	MR0110 to MR0114	
AMS-161		BU-100 to BU-530		DT500T721-75A	MRR108 to MRR112	
AMS-162		BU-550 to BU-750		DT500T721-75B to DT540T721-60 330	MS12800 to MS15100	
AMS-163	55	BU-900 to BU-918		DT550T721-40	MSB1080 to MSB1296-30	321
AMS-164	68	BU-920		D13301721-40		
AMS-165	28			-	N	
AMS-165-K to AMS-166-K	27, 247	BU-922 to BU-926		E	NC-820	3/10
AMS-167		BURS-080 to BURS-105		EB-351 287	NRC-A01-NRC-A16	
AMS-169	70	BURS-118 to BURS-180		EZ120-24-20 to EZ120-24-22	NRC-B51 to NRC-B53	
AMS-170	67	BURS-190 to BURS-228	24	EZA-08 to EZA-14	NS-100 to NS-102	
AMS-173	73	^		020	NS-100 to NS-102	
**** **	67	C		F	NO-104	100
AMS-174 to AMS-174-B						
AMS-174 to AMS-174-B	70	C-002 to C-050	388		D	
		C-002 to C-050 CO-100 to CO-130		F0-079 to F0-700 306	P	





PC-620	340	RC-55248	121	SC630	354	939	355
PLC-100		RCK-8 to RCK-8-DLC		SC632		940	
PLP-100		RCK-13 to RCK-15		SC636		948 to 956	
PR1040 to PR1040-30C							
		RCK-18		SC638		957	
PR1240		RCK-30 to RCK-30-DLC		SC640 to SC642		959	
PS-100 to PS-500	301	RCK-32 to RCK-34-DLC	271	SC652		961	
		RCK-36	271	SC654	373	962	353
R		RCK-37	273	SC658	372	966	354
I K		RCK-40	269	SC660	353	968 to 972	352
RA1024 to RA1648	324	RCK-50 to RCK-50-DLC		SC671 to SC674		973 to 974	
RB-088 to RB-168	267	RCK-70 to RCK-71-DLC		SC690		977	
RB1020 to RB1628							
RC-1000 to RC-1007		RCK-73		SC694		980	
		RCK-75		SCFD-100 to SCFD-128		984	
RC-1008 to RC-1014		RCK-151 to RCK-151-DLC	273	SCK-20 to SCK-30	272	985 to 989	375
RC-1024		RCK-165	270	SCK-50 to SCK-50-DLC	273	998 to 999	357
RC-1028 to RC-1034	51	RCK-344	268	SCK-70	268		
RC-1028-TG	51,114	RCK-360 to RCK-369		SMA-12		E000 6000	
RC-1040 to RC-1041	50	RCK-370		SQB100 to SQB102		5000-6000	
RC-1045						5000 to 5090	266
RC-1046 to RC-1049		RCK-372 to RCK-374		SRK-30		6004	
		RCK-378		SRK-50		0004	201
RC-1050 to RC-1052		RCK-380 to RCK-426	53	SS100T14 to SS150T24	329	00000	
RC-1053 to RC-1067		RCK-502	269	STF-4 to STF-6	341	20000	
RC-1072	50	RCK-505 to RCK-514	53				
RC-1075	53	REZ120		т		20003	
RC-1080 to RC-1089				T		20200 to 20212	305
RC-1092 to RC-1099		RM-550	340	TB10101	316		
RC-1100 to RC-1101		•		TB10400		40000	
		S				40000	
RC-1102		1000	to the Automotive State	TB10800 to TB10801		40301 to 40305	35
RC-1103 to RC-1111		SC300		TB12480		40780 to 40784	
RC-1126	140	SC400	376	TB12960 to TB12961	316	10700 to 10701	
RC-1130	218	SC401	374	TB14540	312	44000	
RC-1140 to RC-1149	50	SC402	376	TB86400 to TB86401	316	41000	
RC-1154		SC403		TE-100 to TE-124		41422 to 41448	O.E.
RC-1172 to RC-1177		SC404		TE-130 to TE-139		41422 (0 41446	95
				1E-130 to 1E-139	19		
RC-1230		SC405 to SC407				42000	
RC-2000		SC408		U		(8) (5) (3) (3) (3) (3) (3) (4)	
RC-2180	98	SC410	350	•	0207	42420 to 42424	33
RC-2239	114	SC420	360	UHO-32 to UHO-63	81		
RC-2241 to RC-2245	116	SC424	351			43000	
RC-2247		SC440 to SC441		W		1 3000	
RC-2248		SC442				43108 to 43304	33
				WR-100 to WR-122	82	43500 to 43512	29
RC-2249 to RC-2250		SC446				43509	91
RC-2251 to RC-2252		SC450 to SC453		220T300-220	T6/1	43530 to 43539	
RC-2253	114	SC500 to SC506	376	2201300-220	1041		
RC-2254	116	SC508 to SC512	377	220T340	311. 324	43500-K to 43608-K	
RC-2255 to RC-2255-TG	115	SC514 to SC516		220T640		43600 to 43616-K	
RC-2256 to RC-2258		SC518 to SC522		220T641		43625	
RC-2259 to RC-2267		SC528 to SC530		2201041	314, 324	43700 to 43724	91
						43742-K to 43752-K	107
RC-2304		SC532 to SC536		607-100		43800 to 43812	91
RC-2340		SC540				43813	
RC-2350	99	SC542 to SC546	365	607-110	301	43820 to 43828	
RC-2351	113	SC553	366			43820 10 43828	91
RC-2370		SC554		630-000		44000	
RC-2375		SC555		Print a poul or of a colour 1. A construct of Maria Aria.		44000	
RC-2383		SC556 to SC559		630-001 to 630-802	289		938
						44100 to 44114	41
RC-2400		SC562		000 000			
RC-2450 to RC-2453		SC565 to SC566		900-999		45000	
RC-2480 to RC-2499	226	SC570 to SC574	351	904	256	43000	
RC-3100 to RC-3200	97	SC577	363			45100 to 45110	90
RC-3400 to RC-3402	7	SC579	362	905		45181	92. 118
RC-4022		SC580 to SC583		906		45182	
RC-4070		SC584 to SC585		911	356	45183 to 45184	
				912 to 918	348		
RC-4204		SC586		919	390	45185-M	
RC-4300 to RC-4304		SC587 to SC589		922		45190 to 45202	
RC-45226	91, 171	SC590	370	923 to 925		45203	91, 96
RC-45711 to RC-45712	171	SC592 to SC593	371			45204 to 45205	91
RC-45714 to RC-45716		SC594		926		45206	91.96
RC-45910		SC596		927		45208 to 454602-01	
RC-47104		SC597		928		45210-5	
				929	351		
RC-49104		SC610 to SC615		930		45213	
RC-49300		SC617		931		45214 to 45214-01	
RC-49355 to RC-49360	192	SC618	359	932		45215	
RC-49492 to RC-49504	150, 171	SC619	357			45216 to 45218\$	91
RC-54111		SC621		938	362	45219	
W 97111	10-1, 171	550E1	338			TULIU	30

INDEX 395

45220 to 45222	91	45470	122, 189	45668 to 45669	209	46009-K to 46009-K-5	102
45223	91, 96	45474-S	124	45671	137	46010 to 46012	103
45224 to 45230	91	45475	122	45672 to 45680	209	46010-K to 46012-K	104
45231		45475-3DS		45700		46010-K-5 to 46188-K-5	
45232 to 45251-01		45475-3TS				46013 to 46014	
				45701		40013 10 40014	10
45253		45475-3US		45702		46014-K to 46015-K	
45254		45475-S	124	45703		46016-K	
45256	95	45475-S-5	124	45704 to 45704M	54	46017-K	104
45270	188	45476	189	45705	54 68	46018-K to 46019-K	106
45300		45477		45705-M		46020 to 46028	
45302		45478 to 45479		45706		46020-K-5	
45304 to 45314	90	45480	92	45707	57	46021	
45360	123	45481	122, 209	45708 to 45710	54	46020-K to 46029-K	106
45361	122	45482 to 45483	122	45712	54.69	46030 to 46032	1!
45362		45484		45714 to 45728	(S) (M) (S)	46033-K to 46034-K	
45364		45485		45730 to 45731		46035	
45365 to 45366-3TS	122	45486		45732	54	46031-K	
45366-3US	123	45487	122, 209	45733	55	46035-K	104
45367 to 45368	122	45487-3TS	122	45735 to 45737	8	46036 to 46038	103
45371 to 45372		45488		45741 to 45749		46039-K	
		45489-S				46040 to 46047	
45401 to 45412				45750			
45413 to 45414	92	45491	122, 209	45751 to 45758	54	46051-K to 46057-K	
45414-3US	94	45493-M	122	45760 to 45761	56	46062 to 46065	10
45414-LH	95	45494	188	45762	9	46088 to 46089	36
45414-PS		45495 to 45496		45763 to 45769		46090 to 46097	3.
45415		45498		45770		46098	
45416		45500 to 45505		45771 to 45771-K-5		46099	
45417	95	45506 to 45511	42	45771-Z	5	46100 to 46107	10
45418 to 45420	92	45522 to 45529	117	45772 to 45777	56	46100-K to 46106-K	102
45418-5 to 45426-5		45540 to 45544	120	45778	q	46110 to 46112	
45420-LH		45550				46114 to 46116	
				45779			
45420-PS		45551		45780	THE RESERVE OF THE PARTY OF THE	46116-K	
45422	92	45560	120	45780-K	58	46117 to 46119	10
45422-3US	94	45561	119	45781	9	46123	30
45422-LH	95	45562		45782 to 45783	58	46124	
45422-PS		45563		45783-K		46125 to 46125-5	
45424		45564		45783-5		46125-K	
45425	92, 96	45565	119	45784	142	46126	10
45426	92	45566	69, 120	45785	9	46127	10
45426-LH	95	45567	119	45790	201	46127-K	
45426-PS		45568 to 45569		45791 to 45795		46131	
		45570					
45426S to 45430				45796		46133	
45431	95	45571		45797 to 45799		46134	
45432 to 45436	92	45576 to 45590	119	45800 to 45802	186	46137	103
45437	92, 96	45601 to 45602	56	45804	187	46138	10
45438 to 45440	92	45606-K	56	45805	186	46139 to 46140	103
45440-LH		45608 to 45610		45806		46141	
45441		45611-K to 45611-K-M		45808		46143 to 46149	
45441-LH		45611-K-5		45810 to 45812	12000	46150-K to 46153-K	
45442 to 45444	92	45612 to 45615	6, 57	45812-LH to 45813-LH	188	46158 to 46178	103
45445	92, 96	45620 to 45622-K	56	45814 to 45818	187	46170-K to 46179-K	104
45446-LH		45622-Z		45820		46170-5 to 46188-5	
45446 to 45450		45623 to 45623-K		45819 to 45830		46171-5	
45450-LH	95	45624	54	45831	185	46180	103, 21
45452 to 45453	92	45624-K	55	45832 to 45835	187	46180-K to 46182-K	104
45455 to 45457	90	45624-K-5	55	45837 to 45838	185	46180-K-M	104
45459	92	45625	54	45839	188	46181 to 46183	103
45460 to 45460-5		45626-K		45850 to 45860		46184	
		45626-K-5				46186 to 46191	
45460-S				45880 to 45890			
45460-S-5		45626-Z		45900 to 45910		46185-K to 46190-K	
45460-3DS	123	45627 to 45628	58	45912	69, 141	46192	13
45460-3TS	122	45629	54	45914 to 45928	141	46193-K to 46195-K	104
45460-3US		45630 to 45630-K		45930 to 45949		46196 to 46197	
		45631-K				46199-K	
45461 to 45462				45950			
45462-S		45632-K		45960 to 45968		46200	
45463	122	45635 to 45637	55	45981 to 45992	139	46200-K to 46216-K	
45463-3DS	123	45633-K to 45639-K	55			46211-L-K	102
45463-3TS	122	45642-K		46000		46201 to 46219	
45463-3US		45644-K		46000		46203-K-5	
				46001-K to 46002-K	102		
45463-S to 45464		45650 to 45652		46003 to 46007		46223 to 46224	
45464-S		45660 to 45662				46225	
45465 to 45468	122	45663	209	46008-K		46225-5	10
45469	189	45666 to 45667	137	46009 to 46009-5	101	46225-K	103





46226	107 46330	32	46460-Z		47600 to 47605	197, 263
46227 to 46231		101	46462			263
46227-K to 46229-K		32	46463			121, 263
16232	109 46333	101	46464 to 46466	29	47612	205, 239, 263
46233-K	102 46334	32	46467 to 46468	38	47613	205
46234		101	46470 to 46474	13	47614	121, 263
46235 to 46237		102	46475 to 46478			121
46237-K		103	46479			149, 263
46238		105	46480			199, 263
46239		102	46481			216, 263
46239-K		103	46482			211
46240 to 46241			46483-K46485			79, 283
46241-K 46242-K to 46244-K			46486-K			79
46245 to 46248		106	46490 to 46491			79, 283
16248-K		102	46492			32
16249 to 46250		105	46493			
16252 to 46252-S		106	46494 to 46495			260
16253	102 46356	105	46496		47701	194, 260, 261
16254	12 46357 to 46359	102	46500-K	102	47701-HP	260
16256	11 46360	105	46502-K	102	47702 19	0, 191, 194, 195, 260, 261
46257 to 46259S	102 46361 to 46365	102	46508-K to 46511-K	108	47703	261
46260 to 46260-K-5		105	46510 to 46512	108		260, 261
46261		106	46562 to 46566-K			261
46262		108	46570 to 46579			0, 191, 194, 195, 260, 261
46263		105	46577-K-5			260
46264 to 46268		108	46581			262
46269 to 46279		31	46582 to 46584			9, 194, 199, 205, 216, 260
46272-5		108	46585			262
46280 to 46280-5		31	46586-K to 46588-K			260
46280-K to 46280-K-5		108	46596			
46280-S to 46281		31	46597			194, 260
46282		108	46700-K - 46710-K			260
46282-5		108	46711-K - 46714-K	106		261
46282-K to 46282-K-5		31	47000			194, 260
46282-U to 46284-5 46284-K to 46284-K-5			47000			
46284-U to 46286-5		105	47090 to 47093	125		190. 191. 194. 195. 260
46286-K to 46286-K-5		106	47090-5 to 47108-5	125		190, 101, 104, 103, 200
46286-S to 46288		102	47094 to 47097	128		190, 191, 194, 195, 260
46288-K		130, 245	47100 to 47104	125		260, 261
46289		101	47105	127		261
46290 to 46290-U		-5 102	47106 to 47108	125		260, 261
46290-5	11 46404	130, 245	47109		47724	
16290-K to 46290-K-5	12 46406 to 46410	101	47110		47725 to 47726.	262
16291	11 46411 to 46413	32	47111		47727 to 47729.	198, 262
16292 to 46292-U	12 46414	101	47112		47730	264
46292-5		69, 101	47114		47731 to 47733.	262
46292-K to 46292-K-5	12 46415-K to 46421-K	102	47115			261
16292-SK		101	47116 to 47124			199, 261
16293		101	47124 to 47124-2			262
46294		31	47126 47126-2 to 47129	250		260
16294-5			47130			
16294-K to 46294-K-5		31	47131			260
16294-S to 46295		31	47134 to 47138			191, 260
16295-K		32	47140 to 47141			260
16296 to 46297 16298		31	47144			264
4629846299			47146 to 47149			
16300		32	47150 to 47154			194, 260
16302		101	47160 to 47162			
46304	101 101	32	47170 to 47173			261
16305 to 46309		101	47174			
16310		29	47178 to 47179			261
16311 to 46313		101	47180 to 47184			
16314 to 46321		31	47185 to 47198			261
		101	47200 to 47214			260
46315-K to 46321-K		102	47220 to 47224-\$122			264
	100 40440-N to 40445-N		47228-S	122	4770F to 47700	262
16322		31			4//00 10 4//09.	202
16322 16323	101 46450	31	47226 to 47229			261
46322	101 46450		47226 to 47229 47300 to 47304	132	47770 to 47772.	
46315-K to 46321-K		31	47226 to 47229	132	47770 to 47772.	261

INDEX 397

47789 to 47793	49677	238	51453	26, 246	51637 to 51637-K	30
47794 to 47795261	49680 to 49682	175	51454 to 51454-5	3	51638	27, 247
47798 261	49694 to 49698		51454-Z to 51454-Z-5		51639-K	
47806 to 47822	49700 to 49721		51459		51642 to 51643	
47830	49730 to 49732	149	51460 to 51468		51642-Z 51644 to 51648	
49000	E1000		51470 to 51474		51646-K to 51649-K	
48000	51000		51475 to 51482		51650 to 51658	
48001 to 48050-B	51100	133	51476-Z to 51482-Z		51660 to 51669	
48050-D to 48052-E 40	51200 to 51206		51483 to 51486		51670 to 51672	
48054-B	51300 to 51313		51486-Z to 51488-Z	4	51673 to 51677	18
48054-D to 48054-E	51314		51489		51679	
48055-B	51315 51320		51490		51682 to 51689	
48058-B	51323		51491		51690 to 51696	
48058-D to 48058-N	51324		51492		51706 to 51712	
48100 to 48102	51325		51493 51494		51719 to 51729 51730 to 51737-K	
48200	51370 to 51371	4	51495		51739 to 51760	
48286-K-M 12	51372-Z	4	51496		51761 to 51769	
48320-K to 48326-K104	51373	3	51497		51770 to 51776	
48330-K to 48340-K 102	51373-Z		51498		51775-Z to 51786-Z	
48351-K to 48358-K	51375		51499	27, 247	51780 to 51784	28
48403-K 108	51376-Z to 51377-Z-5		51501 to 51502		51790 to 51808	
48418-K-M to 48424-K	51378 to 51379 51390-K to 51398-K		51502-Z to 51503-Z		51810-K	
48442-K to 48444-K	51400		51503		51810-Z	
48450 to 48452-K	51401		51504		51811-K - 51817-K51814 to 51818	
	51402		51504-K		5183851818	
49000	51402-5		51505		51838-Z	
	51402-Z to 51402-Z-5	4	51505-K		51840 to 51846	
49092 to 49122	51403		51506		51850-Z to 51856-Z	
49126	51404		51506-Z	4	51862-Z to 51870-Z	5
49150 to 49152	51404-5		51507	26, 246	51876-Z to 51882-Z	4
49200 to 49207	51404-K		51507-K			
49208 to 49214	51405 51405-5		51508		53000	
49232	51405-K		51508-Z		53100 to 53106	197
49300 to 49302 190	51406		51509 to 51510	550	53107	
49303	51406-Z		51510-K	- 1	53108 to 53206	
49305 to 49309 190	51407	26, 246	51511-5		53207	197, 199
49310	51407-K	27, 247	51511-K		53208 to 53410-1	197
49314	51408		51512 to 51513		53600	
49340	51408-Z		51513-K	27, 247	53610	
49350	51409 to 51410		51514 to 51515		53632	
49352	51410-5 51410-K		51515-K		53806 to 53828	239
49360 191	51411 to 51419		51516 to 51517		54000	
49400 to 49408 147	51411-K to 51419-K		51517-K 51518 to 51519			
49409 253	51420		51520		54100	
49410 to 49420	51421	26, 246	51521		54102 to 54108	
49492 to 49496	51421-K		51522		54110 to 54112	
49496-5	51422		51523 to 51524	26, 246	54113 54114	
49499 to 49527	51423 to 51429		51524-K	27, 247	54116 to 54117	
49529	51425-K to 51428-K		51525		54118 to 54119	
49530	51430 to 51434-DLC 51435-K		51526 to 51527		54120	
49531 150	51436		51529		54121	
49532220, 291	51437		51535 51540 to 51564		54122 to 54126	164
49534220, 224	51437-K		51565		54127	
49535 to 49538 220	51438	33	51566		54128 to 54130	
49541	51441 to 51442	26, 246	51567 to 51574		54131	
49543 to 49549	51441-K to 51442-K	27, 247	51580 to 51590		54132	
49550 to 49554	51443 to 51444		51593 to 51597		54133 54134 to 54135	
49556	51444-K		51600		54136 to 54142	
49559 183	51445		51602 to 51604		54144 to 54150	
49562 239	51445-K		51605 to 51609		54160 to 54162	
49570 to 49574	51446 51446-5		51610 to 51614		54163	
49592 to 49622	51446-K		51620 to 51627		54164 to 54172	A STATE OF THE PARTY OF THE PAR
49640 to 49642 175, 238	51447 to 51449		51629-K		54174 to 54175	233
49643 to 49663	51450		51630 to 51633-K		54176	
49664 to 49666 175, 238	51451		51635-K		54180 to 54182	
49667 to 49673	51452		51636		54186 to 54188	
49674 to 49676 175, 238					54190	165



\$4000. 177 50309	54196 (0 54200		55546			241	67007 10 67016	
\$477 169 50354 205, 216 27130 229 67082 2 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5								
5477 199 55556 200, 716, 246 77136 246 70786 2 5422 5422 223 5557 149, 199, 200, 716, 246 77136 246 70786 2 5422 5422 223 55586 246 719 55586 246 77136 7714 245 70786 70787 2 5422 5422 223 55587 149, 199, 200, 246 77146 57152 243 70786 70787 2 5422 5422 223 55587 149, 199, 200, 246 77146 57152 243 70786 70787 2 5428 1715 55598 149, 199, 200, 246 77158 245 70786 70788 2 5428 149 55599 190, 246 7718 2 5428 149 55599 190, 246 7718 2 5429 149 55599 120 7718 2 5429 149 55599 120 7718 2 5429 149 149 200, 246 7718 2 5429 149 149 200, 246 7717 2 5429 149 149 200, 246 7718 2 5429 149 149 200, 246 7718 2 5429 149 149 200, 246 7718 2 5429 149 149 200, 246 7718 2 5429 149 149 200, 246 7718 2 5429 149 149 200, 246 7718 2 5420 149 149 200, 246 7718 2 5420 149 149 200, 246 7718 2 5421 149 149 200, 246 7718 2 5421 149 149 200, 246 7718 2 5422 149 149 200, 246 7718 2 5422 149 149 200, 246 7718 2 5422 149 149 200, 246 7718 2 5422 149 149 200, 246 7718 2 5422 149 149 200, 246 7718 2 5423 149 149 200, 246 7718 2 5424 149 149 200, 246 7718 2 5425 149 149 200, 246 7718 2 5427 149 149 200, 246 7718 2 5428 149 149 200, 246 7718 2 5429 149 149 200, 246 7718 2 5420 149 149 200, 246 7718 2 5421 149 149 200, 246 7718 2 5421 149 149 200, 246 2 5421 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 149 200, 246 2 5422 149 200,	54210 to 54213	169	55352	216	57129	254		
54221	54216	166	55353	205	57130	250	67082	263
54221	54217	169	55354	205, 216	57132	254	67083	265
54221 5222 54224 179 5538 538 5538 6 264 774 6 57152 244 778 558 1879 5574 7 2 2 2 5522 1 54224 179 5538 538 5586 245 245 245 245 245 245 245 245 245 245	54220	178	55356	205, 216, 264	57136	248		
54222 54224 179 55388 294 71748 571762 243 70788 107089 22 22 22 23 23 23 23 2								
54227 223 55839 55839 719, 216, 284 71755 71745 244 245 70780 27979 244 245								
56246.								
56286 191 50388 149, 192, 205, 294 57159 57159 224 67100 2 2 56262 191 50389 217 57160 221 67101 2 2 56262 191 50389 217 57160 2 21 67101 2 2 56269 1914 50389 217 57160 2 21 67101 2 2 56270 154275 204 55389 52537 201 57168 2 21 67101 2 2 56270 154275 204 55389 52537 201 57168 2 21 67101 2 2 56270 154275 204 55389 52537 201 57168 2 21 67101 2 2 56270 154275 204 55389 52539 202 57160 2 24 67101 2 2 56270 154275 204 55389 52539 202 57168 2 21 67115 2 2 57160 2 24 67111 2 2 57160 2 2 57160 2 2 57160 2 2 57160 2 2 57160 2 2 57160 2 2 57160 2 2 57160 2 2 57160 2 2 57160 2 57170 2 57170 2 5								
54288 181 55389 199, 294 57199 244 67100 2 2 54290 184 55380 277 57161 254 67103 2 2 54270 54275 204 55380 55387 201 57163 254 67103 2 2 54270 54276 225 55388 202 57168 248 67111 2 2 5428 2 5428 2 5428 2 5428 2 5428 2 57160 2 2 5428 2								
5-6828 184 50370 277 57160 251 67101 2 2 54696 184 50380 277 57161 254 67103 2 2 54670 54275 204 55386 204 57165 57166 248 67111 2 2 54670 2 2 55388 204 57165 2 57166 2 2 57160 2 2 57160 2 2 57160 2 2 57170	54246	237	55368 149,	199, 205, 264	57156 to 57158	251		
\$4270 b \$4275 2476 2716 276 2716 272 2746 2717 2717 2746 2717 27	54258	181	55369	199, 264	57159	244	67100	262
\$4270 b \$4275 2476 2716 276 2716 272 2746 2717 2717 2746 2717 27	54262	184	55370	217	57160	251	67101	263
54720 b. 54275 - 224 55388 - 204 57165 b. 57166 - 248 67111 2 2 5428 5428 5438 5438 5438 5438 5448 5438 5438 543	54269	184	55380	217	57161	254		
54278								
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54929								
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54296 174 55386 199 57174 109, 125 67125 22 54297 to \$42999 173 55402 140, 199, 205, 216, 204 54297 to \$42999 173 55402 140, 199, 205, 216, 204 54310 to \$43104 126 55404 140, 199, 205, 216, 204 54310 to \$4314 236 55404 140, 199, 204 54310 to \$4314 236 55404 140, 199, 204 54310 to \$4314 236 55404 140, 199, 204 54310 to \$4312 157 55407 to \$5407 to \$4314 140, 199, 204 54330 to \$4322 158 55410 to \$55412 205 54330 to \$4322 158 55410 to \$55412 205 54330 to \$4410 176 54400 to \$4412 to \$4414 177 55410 to \$55103 2034 54400 to \$5403 2034 54400 to \$6403 2034								
54287 in 54299	54294	169	55393	202	57170	242	67117	265
54229 b 54289	54295	174	55396	199	57174	109, 125	67125	260
54229 b 54289	54296	167	55400 to 55401	205	57176	109, 122	67126	262
54302 to 54308	54297 to 54299		55402	205, 216, 264	57178	109	67128 to 67132	263
5430 to \$4342								
54322 54524 167 55608 201 55608 201 57187 125, 122, 245 5724 3.3 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54323 10 54410 10 55420 10 55420 10 55420 10 55530 10 55544 10 55420 10 55544 10 55444 10 55440 10 55546 10 55546 10 55546 10 55546 10 55546 10 55546 10 55546 10 55546 10 55546 10 55546 10 55546 10 55546 10 55540 10 55520 1								
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5412 b 54414	54360	164			57220	255	67350 to 67800	193
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\$55000							201003 to 201105	280
55102 to 55103	EEOOO						202004 to 202082	28
55110 to 55103	ວວບບບ				37310 10 37330			
55120 tb 55124	55102 to 55103	304			E0000		202000	
55120 to 55124					59000		2 03000	
55134 b 55145						50	203015 to 203040	286
55149 121 55440 216 59420 107 203261 to 203308 2 2 2 2 2 2 2 2 2							203151 to 203258	284
55150 to 55156 299 55440 216 5970E-K 102 203350 2 2 55170 to 55174 134 55454 to 55456 208 55170 to 55174 134 55454 to 55456 208 55202 293, 201 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293, 201 55202 293 55600 to 55610 294 61242 386 203431 22 203401 22 203501 to 203754 22 203501 to			55436 to 55439	213				
55174 b 55174			55440	216				
55174 0 55174 134 55454 0 55456 208 55178 0 55179 226 135 55460 10 55462 219 55202	55150 to 55156	299	55442 to 55444	216	59706-K	102		
55270 to 55201 to 55202	55170 to 55174	134						
55201 55202 293 301 55500 to 55510 196 61242 386 203431 22 55202 293 301 55500 to 55510 196 61242 386 203431 22 55204 293 301 55612 to 55622 295 61262 386 55206 293 301 55612 to 55622 295 61262 386 55206 55206 293 301 55628 295 61262 386 55206 55208 295 55206 55208 295 55206 295 301 55628 295 61250 55228 295 55206 295 301 55628 295 61250 55228 295 55217 to 55224 303 55640 to 55642 284 61292 to 61295 383 204003 to 204130 22 55226 to 55226 298 55520 298 5660 0 55612 298 5660 0 5660 294 301 55628 295 6100 56114 142 56136 to 61366 381 217013 to 217018 22 55246 to 55526 294 56112 12 56116 146 61366 381 55288 294 56122 145 56188 381 55288 294 56122 145 56188 381 55288 294 56122 145 56188 381 55288 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56186 144 61370 to 61378 349 55286 19528 294 56122 145 56136 144 61370 to 61378 349 55286 19528 294 56122 145 56128 144 61451 379 55286 19528 294 56122 145 56128 144 61451 379 55280 19528 295 56123 to 56129 144 61451 379 502000 30200	55178 to 55179 226	135			61000			
55202	55200 to 55201	293						
55202XL to 55203					61218	387	203401	285
55204					61242	386	203431	28
55205					61258	385	203751 to 203754	28
55206			55612 to 55622	295	61262	386		
55228 to 55212			55624 to 55626	295, 301			204000 20	COOO
55217 to 55224			55628	295			ZU4UUU-ZU	DUUU
55227 to 55224	55208 to 55212	293	55640 to 55642	284			204003 to 204130	28
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55230 to 55232			F0000		61340 to 61346	380	215000-21	/000
55240 to 55244			56000		61350 to 61354	379	21E002 to 217000	200
55246				146	61355 to 61362	381		
55248 to 55259							217013 to 217018	28
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55320 207 57000 61659 388 304011 to 304100 21 55331 to 55338 299 57(15 to 57(16 249 67000 304105 21	55312 to 55314	133						
55331 to 55338			57000		61659	388		
57115 to 57116 249 67000			J1000					
304111 to 30413020			57115 to 57116	249	67000			
	000-10 IU 000-13	200			01000		304111 to 304130	28

INDEX 399

	610301 to 610301C	10 616128	316	ccanno	
305000	610400	811 616129	314	663000	
305005 to 305008	610504 to 610504C	12 616320 to 616320-30	309	663000	. 327
305010 to 305105	610600 to 610600-30	813 616480 to 616600-30	311		
303010 10 303103290	610601 to 610601-30		312	683000-684000	1
206000	610720		313		
306000	610721 to 610721-30		010	683400	
306005 to 306008280	610800 to 610800-30		0.0	684004	
	610800-TS		010	684800	
310000-365000	610801 to 610801-30		010	684801	. 315
310010 to 310105290	610801-15	618540		COCOOO	
313004 to 314833	040000 040000	018040	311	686000	
315005 to 315090	612000-618000	000000		686400	. 316
315103 to 315108	612240 to 612300-30	620000 620000		686401	. 314
316005 to 316012	612360 to 612360-30		309		
316020 to 316036	612401		311	694000	
317003 to 317008	612480 to 612480-30				50051
317013 to 317018	612600 to 612600-30	651000		694004	. 312
358010 to 359105	612601 to 612601-30	115		- 40000	
363002 to 365058	612604	651010	336	710000	
	612720 to 612720-30	651030 to 651030-1		710200	310
440000 400000	612721 to 612721-30	651210	336		
413000-463000	612841 to 612841-30	651230	335	712000	
413004 to 414833	612960 to 612960-30	651610 to 651880-AK	336	712000	
415005 to 415008283	612960-TS	317		712240	
416005 to 416012284	612961 to 612961-30			712601	
420208 to 420508287	614108 to 614108-30	16 656000		712960	. 313
424000 to 424006	614109 to 614109-30	656010 to 656010-R	336		
463002 to 463045 288	614280	809 656020	335	714000	
	614401	310		714280 to 714280-30	040
508000-596000	614420 to 614540-30	GEOINNI		714280 to 714280-30	
	614541			/14/21	. 314
508400	614704	000010 to 000010 1 11	336	740000	
510101 to 586401	614720 to 614720-30	000012	335	716000	
040000	614721 to 614721-30		336	716320 to 716320-30	310
610000	614840	000000 10 000040 1	335	716600	
610200 to 610240	614841	000000 to 0000000		716801	
610300 to 610300-30	614961 to 616109	321		716960	. 313
01000 0 01000 00					

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CONVERSION TABLE

1.0156225	Inch Decimals			Inch Fractions (500 TO 1	-		an 25	6U / 1	Millimeters		-11
0.1161625		/64	/32	/16 /8	/4	/2	MM	1" + (x)	2" + (x)	3" + (x)	4" + (x)	5" + (x)
0.031250												
0.048675		1/64										
1.0002500			1/32									
0.078125 5164 1,984 27,384 52,784 78,184 10.05,884 128,986 10.089375 7/64 2,278 28,178 53,181 70.381 10.089378 129,381 10.089375 7/64 2,278 28,178 53,181 70.381 10.08938 129,381 10.18938 129,381 129,38		3/64										
0.093750				1/16								
0.109375 7/84	0.078125	5/64										
1.155000			3/32									
0.140625 9/84		7/64					2.778					
0.156250 5/32 3.969 29.369 54.769 80.169 100.569 130.960 10.17875 11.64 4.366 29.766 55.166 80.568 105.969 131.966 131.966 10.187500 3/16 4.762 30.162 55.652 80.962 106.362 131.762 10.203125 13/64 5.159 30.559 55.959 81.359 106.759 131.762 10.203125 13/64 5.159 30.559 55.959 81.359 106.759 106.759 131.762 10.234373 15/64 6.360 30.956 56.356 81.350 106.759 10.234373 15/64 6.360 31.762 6.330 31.763 57.150 82.550 107.950 133.350 10.256555 17/64 6.360 31.353 56.753 82.153 107.553 132.256 10.256555 17/64 6.360 31.762 6.330 3	0.125000			1/8					53.975	79.375	104.775	130.175
1.71875 11.94	0.140625	9/64					3.572	28.972	54.372	79.772	105.172	130.572
0.187500	0.156250		5/32				3.969	29.369	54.769	80.169	105.569	130.969
0.203125 13.64	0.171875	11/64					4.366	29.766	55.166	80.568	105.966	131.366
0.2181760	0.187500			3/16			4.762	30.162	55.562	80.962	106.362	131.762
0.234375	0.203125	13/64					5.159	30.559	55.959	81.359	106.759	132.159
0.259000	0.218750		7/32				5.556	30.956	56.356	81.756	107.156	132.556
0.265625 17/64 9/32 7.144 32.544 57.547 82.947 108.347 133.747 0.26875 19/64 9/32 7.144 32.544 57.944 83.344 108.144 134.144 0.268675 19/64 7.541 32.941 58.341 83.741 109.141 134.541 0.312500 5/16 7.541 32.941 58.341 83.741 109.141 134.541 0.312500 5/16 7.541 32.941 58.341 83.741 109.141 134.541 0.312500 11/32 8.731 34.131 59.531 84.138 109.538 134.938 134	0.234375	15/64					5.953	31.353	56.753	82.153	107.553	132.953
0.281250	0.250000				1/4		6.350	31.750	57.150	82.550	107.950	133.350
0.298875 19/64	0.265625	17/64					6.747	32.147	57.547	82.947	108.347	133.747
0.312500	0.281250		9/32				7.144	32.544	57.944	83.344	108.744	134.144
0.328125	0.296875	19/64					7.541	32.941	58.341	83.741	109.141	134.541
0.343750	0.312500			5/16			7.938	33.338	58.738	84.138	109.538	134.938
0.343750	0.328125	21/64					8.334	33.734	59.134	84.534	109.934	135.334
0.359375 23/64 9.128 34.528 59.928 85.328 110.728 136.128 0.375000 3/8 9.526 34.925 60.325 85.725 111.125 136.525 0.390625 25/64 9.9.22 35.522 60.722 86.722 111.522 136.525 0.390625 25/64 9.9.922 35.522 60.722 86.722 111.125 136.525 0.390625 27/64 10.319 35.719 61.119 86.519 111.913 137.319 0.421875 27/64 10.716 36.116 61.516 88.916 112.316 137.716 11.112 36.512 61.912 87.312 112.712 138.112 0.453125 29/64 11.509 36.909 62.309 87.709 113.109 138.519 0.453125 29/64 11.509 36.909 62.309 87.709 113.109 138.519 0.468375 11/62 11.916 11.12 36.512 61.912 87.312 112.712 138.112 0.453125 29/64 11.509 36.909 62.309 87.709 113.109 313.509 0.484375 31/64 12.303 37.703 63.103 88.503 113.903 139.303 0.484375 31/64 12.2033 37.703 63.103 88.503 113.903 139.303 0.550000 11/2 12.700 38.100 63.500 88.900 114.300 139.700 0.515625 33/64 13.991 39.291 49.894 64.294 89.694 115.094 140.494 0.546875 35/64 31.894 38.894 64.294 89.694 115.094 140.494 0.546875 35/64 31.894 39.291 64.691 90.091 115.491 140.894 0.562500 9/16 14.288 39.688 65.088 90.488 115.888 141.288 0.578125 37/64 9/16 14.288 39.688 65.088 90.488 115.888 141.288 0.578125 37/64 9/16 14.288 39.688 65.088 90.488 115.888 141.288 0.59375 39/64 64.691 99.091 115.491 140.894 0.569575 37/64 9/16 14.288 39.688 65.88 90.488 115.888 141.288 0.578125 37/64 9/16 14.288 39.688 65.88 90.488 115.888 141.288 0.578125 37/64 9/16 14.288 39.688 65.88 90.488 115.888 141.288 141.288 0.578125 37/64 9/16 14.288 39.688 65.88 90.488 115.888 141.288 141.288 0.578125 37/64 9/16 14.288 39.688 65.88 90.488 115.888 141.288 141.288 0.578125 37/64 9/16 14.288 39.688 65.88 90.488 115.888 141.288 141.288 0.578125 37/64 9/16 14.288 39.688 65.88 90.488 115.888 141.289 98.699 14.59 141.489 141.489 141.489 141.489 141.489 141.489 141.489 141.489 141.	0.343750		11/32					34.131	59.531	84.931	110.331	135.731
0.375000	0.359375	23/64						34.528				
0.390625				3/8							111.125	
0.408250 13/32 10.319 35.719 61.119 86.519 111.919 137.319 0.421875 27/64 10.716 11.112 36.512 61.912 87.312 112.712 138.112 0.453125 29/64 11.509 36.909 62.309 87.709 113.109 138.509 0.488750 15/32 11.906 37.306 62.706 88.106 113.506 138.906 0.484375 31/64 12.303 37.703 65.103 88.503 113.903 139.303 0.500000 17/2 12.700 38.100 65.500 88.900 114.300 139.700 0.515625 33/64 13.097 38.497 63.897 89.297 114.697 140.097 0.531250 17/32 13.494 38.894 64.294 89.694 115.094 140.094 0.546875 35/64 13.891 39.291 64.691 90.091 115.491 140.894 0.578125 37/64 14.684 40.084 65.484 90.884 116.284 141.684 0.593750 19/32 15.081 40.481 65.881 91.281 116.681 142.081 0.693750 39/64 15.878 40.878 66.278 91.678 117.078 142.478 0.603975 39/64 15.478 40.878 66.278 91.678 117.078 142.478 0.6056250 21/32 16.669 42.009 67.469 92.869 118.569 143.285 0.671875 43/64 17.66 42.466 67.866 93.266 118.666 144.066 0.671875 43/64 17.66 42.466 67.866 93.266 119.056 144.859 0.671875 45/64 17.859 43.259 68.659 94.059 119.459 144.859 0.7718750 23/32 18.865 43.666 69.656 94.456 119.856 144.686 0.703125 45/64 11/16 17.462 42.862 68.262 93.662 119.062 144.859 0.7738750 12/32 18.669 42.009 67.469 92.869 119.529 0.671875 47/64 18.656 43.666 69.656 94.456 119.856 144.686 0.703125 45/64 11.16 12.72 41.672 67.072 92.472 117.475 142.875 0.775000 3/4 19.050 44.450 69.850 95.250 120.650 145.256 0.7765000 5/8 11/16 20.683 44.050 69.453 94.855 120.253 145.653 0.775000 5/8 12/32 18.844 45.244 70.644 97.044 96.441 121.841 147.241 0.812500 13/4 64.34 47.834 97.234 122.238 147.684 0.798675 57/64 20.241 45.641 71.041 96.441 121.841 147.241 0.812500 13/4 64.347 77.34 96.64 119.856 145.256 0.766025 47/64 12.034 46.434 77.834 96.838 122.238 147.638 0.759000 7/8 22.225 47.625 73.025 98.425 122.238 147.638 0.759000 13/16 22.622 48.022 73.422 98.822 124.222 149.622 0.906250 29/32 23.32 24.431 46.831 72.231 97.631 12.047 164.47 0.812500 13/16 22.632 47.625 73.025 98.425 122.234 146.831 0.859375 57/64 22.225 47.625 73.025 98.425 122.234 146.831 0.859375 57/64 22.2262 47.626 99.		25/64										
0.421875			13/32							86.519		
0.437500 7/16 11.112 36.512 61.912 87.312 112.712 138.112 0.453125 29/64 11.509 36.909 62.309 87.709 113.109 138.509 0.484375 31/64 11.509 11.509 37.306 62.706 88.106 113.506 138.906 0.484375 31/64 12.303 37.703 63.103 88.503 113.903 139.303 0.500000 11.2 12.700 38.100 63.500 88.900 114.300 139.700 0.515625 33/64 13.097 38.497 63.897 89.297 114.697 140.097 0.531250 17/32 13.494 38.894 64.294 89.694 115.094 140.097 0.531250 17/32 13.494 38.894 64.294 89.694 115.094 140.891 0.566250 9/16 14.288 39.688 65.088 90.488 115.888 141.288 0.578125 37/64 14.684 40.084 65.484 99.884 115.888 141.288 0.578125 37/64 14.684 40.084 65.484 99.884 116.284 141.684 0.609375 39/64 15.478 40.878 66.278 91.678 117.078 142.478 0.605000 5/8 15.478 40.878 66.278 91.678 117.078 142.478 0.605000 5/8 15.478 40.878 66.278 91.678 117.078 142.478 0.605000 5/8 15.478 40.875 66.675 92.075 117.475 142.875 0.606000 11/16 17.462 42.869 67.469 92.869 118.269 13.4369 0.671875 43/64 11/16 17.462 42.860 69.056 93.266 118.666 144.066 0.68750 0.687500 11/16 17.462 42.860 69.056 94.456 119.656 144.062 0.703125 45/64 11/16 17.462 42.860 69.056 94.456 119.656 144.062 0.703125 45/64 11/16 17.462 42.860 69.056 94.456 119.656 144.062 0.703125 45/64 11/16 12.478 18.653 44.053 69.453 94.059 119.962 144.462 0.703125 45/64 11/16 12.478 18.653 44.053 69.453 94.059 119.962 144.462 0.703125 45/64 11/16 12.478 18.653 44.053 69.453 94.059 119.962 144.462 0.703125 53/64 11.916 14.462 42.864 66.91.669 92.669 118.666 144.066 0.734375 45/64 11.916 14.462 42.864 69.056 94.456 119.856 145.256 0.734375 45/64 11.916 14.462 42.864 66.91.669 92.669 118.666 144.066 0.734375 45/64 11.916 14.462 42.864 66.91.669 92.869 91.829 119.062 144.462 0.703125 45/64 11.916 14.462 42.864 67.866 93.266 118.666 144.066 0.734375 45/64 11.916 14.462 42.864 67.866 93.266 118.666 144.066 0.734375 45/64 11.916 14.464 44.844 71.844 71.444 71.		27/64										
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0.468750 15/32 11.906 37.306 62.706 88.106 113.506 138.906 0.484375 31/64 12.303 37.703 63.103 88.503 113.903 139.303 0.500000 1/2 12.700 38.100 63.500 88.900 114.300 139.700 0.515625 33/64 13.097 38.497 63.897 89.297 114.697 140.097 0.531250 17/32 13.494 38.894 64.294 89.694 115.094 140.494 0.562500 9/16 14.288 39.688 65.088 90.488 115.888 141.288 0.578125 37/64 14.684 40.084 65.484 90.884 116.284 141.684 0.593750 19/32 15.081 40.481 65.881 91.281 116.681 142.081 0.609375 39/64 15.478 40.878 66.278 91.678 117.778 142.875 0.625000 5/8 15.875 41.275 66.675 92.075 117.475 142.875 0.6366250 21/32 16.669 42.099 67.469 92.869 118.269 143.689 0.678125 45/64 17.462 42.862 68.262 93.662 119.062 144.462 0.687500 11/16 17.462 42.862 68.262 93.662 119.062 144.462 0.687500 23/32 18.256 43.656 69.056 94.456 119.856 145.256 0.734375 47/64 4.84 40.53 44.859 69.850 94.059 119.459 144.859 0.718750 23/32 18.256 43.656 69.056 94.456 119.856 145.256 0.734375 47/64 19.950 44.450 69.855 95.250 120.650 146.634 0.7686250 23/32 18.256 43.656 69.056 94.456 119.856 145.256 0.734375 57/64 20.254 19.447 44.847 70.247 95.647 121.047 146.847 0.781250 25/32 19.844 45.244 70.644 96.044 121.444 168.844 0.7881250 25/32 19.844 45.244 70.644 96.044 121.444 168.844 0.7881250 27/32 19.844 45.244 70.644 96.044 121.444 168.844 0.7881250 25/32 19.844 45.244 70.644 96.044 121.444 168.844 0.7881250 25/32 19.844 45.244 70.644 96.044 121.444 168.844 0.7881250 25/32 19.844 45.244 70.644 96.044 121.444 168.844 0.7881250 25/32 19.844 45.244 70.644 96.044 121.441 146.844 0.887500 7/8 22.225 47.625 73.025 98.425 123.825 149.622 0.890625 57/64 22.225 47.625 73.025 98.425 123.825 149.622 0.890625 57/64 22.226 48.022 73.422 98.822 124.22 149.622 0.890625 57/64 22.225 47.625 73.025 98.425 123.825 149.225 0.890625 57/64 22.225 47.625 73.025 98.425 123.825 149.225 0.890625 57/64 22.420 49.609 75.909 10.0012 125.412 150.812 0.9906250 57/64 24.090 67.600 75.000 75.000 150.000 75.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000		29/64		.,								
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