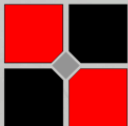
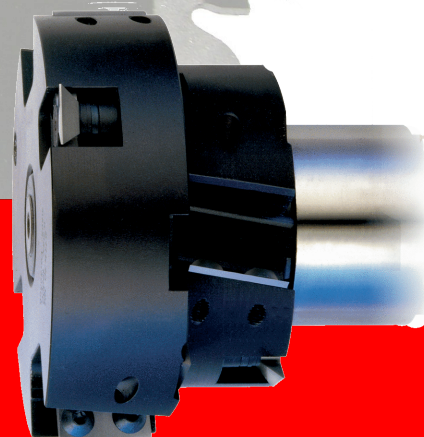
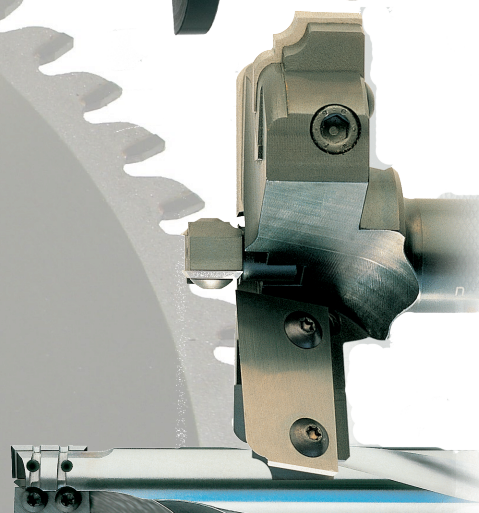


GDP®  **GUHDO**®



**2021 / 2022
TOOLING PROGRAM**

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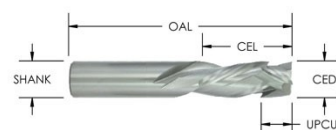
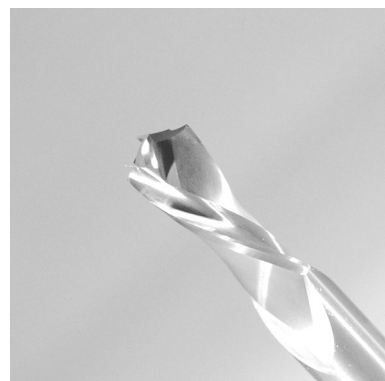
COMPRESSION BIT FOR SOLID WOOD

6229

This compression bit, featuring a carbide grade primarily designed for wood, is a general purpose compression bit that can machine different materials whether wood, MDF or particleboard without being too brittle. It is recommended for cutting wood and the occasional cutting of materials more abrasive.

2 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
1/4"	1"	2-1/2"	3/16"	1/4"	6229.250.50
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.16
3/8"	1-1/4"	3"	3/8"	3/8"	6229.375.20
3/8"	1-1/2"	4"	3/8"	3/8"	6229.375.50
3/8"	1"	3"	3/16"	3/8"	6229.376.16
5/16"	1"	3"	3/16"	5/16"	6229.312.16
1/2"	1-1/4"	3"	3/16"	1/2"	6229.500.16
1/2"	2-1/8"	4"	3/8"	1/2"	6229.500.18
1/2"	1-1/4"	3"	5/16"	1/2"	6229.500.20
1/2"	1-5/8"	3-1/2"	3/16"	1/2"	6229.501.16
1/2"	1-5/8"	3-1/2"	5/16"	1/2"	6229.501.20
1/2"	1"	3"	5/16"	1/2"	6229.502.16
1/2"	1-3/8"	3-1/2"	5/16"	1/2"	6229.502.50
1/2"	2"	4"	5/16"	1/2"	6229.503.50
5/8"	2-1/4"	5"	5/16"	5/8"	6229.625.22
5/8"	2-1/4"	5"	5/16"	5/8"	6229.625.40
3/4"	2"	4"	7/8"	3/4"	6229.750.20
3/4"	3"	6"	7/8"	3/4"	6229.750.76
3/4"	3-1/2"	6"	7/8"	3/4"	6229.750.78
3/4"	2-1/2"	5"	7/8"	3/4"	6229.752.75



3 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.36
1/2"	1-1/4"	3"	3/16"	1/2"	6229.500.26
1/2"	1-1/4"	3"	7/16"	1/2"	6229.500.30
1/2"	1-5/8"	3-1/2"	3/4"	1/2"	6229.501.26
1/2"	2"	4"	7/8"	1/2"	6229.503.26
3/4"	2"	4"	7/8"	3/4"	6229.750.22

COMPRESSION BIT FOR PLYWOOD

6229C

Compression style solid carbide bit with chip breakers and increased clearance to perform exceptionally well on plywood.

2 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
3/8"	1-1/4"	3"	3/8"	3/8"	6229C375.20
1/2"	1-1/4"	3"	5/16"	1/2"	6229C500.20
3/4"	2"	4"	5/16"	3/4"	6229C750.20
3/4"	2-1/2"	5"	7/8"	3/4"	6229C751.20



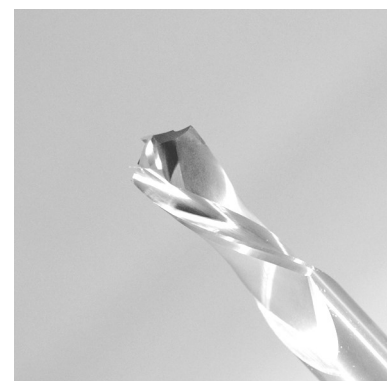
COMPRESSION BIT FOR COMPOSITES LONG-LIFE (M SERIES) CARBIDE GRADE

6229M

Compression bit with special carbide grade most suitable for machining composite material such as MDF and particleboard with HPL, veneer etc. If cutting melamine, please refer to the Xtreme carbide grade on the next page.

2 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
1/4"	1"	2-1/2"	3/16"	1/4"	6229.250.50M
3/8"	7/8"	3"	3/16"	3/8"	6229.375.27M
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.16M
3/8"	1-1/4"	3"	3/8"	3/8"	6229.375.20M
1/2"	1-3/8"	3-1/2"	5/16"	1/2"	6229.502.50M
1/2"	2"	4"	5/16"	1/2"	6229.503.20M
1/2"	1-3/4"	3-1/2"	3/4"	1/2"	6229.504.20M
1/2"	1-1/4"	3"	3/16"	1/2"	6229.500.16M
1/2"	1-1/4"	3"	5/16"	1/2"	6229.500.20M
1/2"	1-5/8"	3-1/2"	3/16"	1/2"	6229.501.16M
1/2"	1-5/8"	3-1/2"	5/16"	1/2"	6229.501.20M
3/4"	2"	4"	7/8"	3/4"	6229.750.20M



3 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
3/8"	7/8"	3"	3/16"	3/8"	6229.375.37M
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.36M
1/2"	1-1/4"	3"	3/16"	1/2"	6229.500.26M
1/2"	1-1/4"	3"	7/16"	1/2"	6229.500.30M
1/2"	1-5/8"	3-1/2"	3/4"	1/2"	6229.501.26M

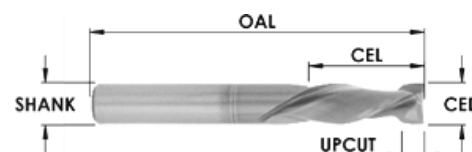
COMPRESSION BIT FOR COMPOSITES LONG-LIFE COATED CARBIDE GRADE

COATED-M

2 Flute

Same carbide grade as the M-Series Long-Life Bits above, but featuring a special coating to maximize tool life. The coating extends tool life even further and protects from premature cutting edge erosion resulting from heat and oxidation during the cutting process.

CED	CEL	OAL	Upcut	Shank	Part-No.
1/4"	7/8"	2-1/2"	1/4"	1/4"	6229.250.78MC
3/8"	7/8"	3"	3/16"	3/8"	6229.375.78MC
3/8"	1"	3"	3/16"	3/8"	6229.375.76MC
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.16MC
3/8"	1-1/4"	3"	3/8"	3/8"	6229.375.20MC
1/2"	1-1/4"	3"	3/16"	1/2"	6229.500.16MC
1/2"	1-1/4"	3"	1/2"	1/2"	6229.500.20MC
1/2"	1-5/8"	3-1/2"	5/16"	1/2"	6229.501.16MC
1/2"	1-5/8"	3-1/2"	5/8"	1/2"	6229.501.20MC



3 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
3/8"	7/8"	3"	3/16"	3/8"	6229.375.37MC
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.36MC
1/2"	1-1/4"	3"	3/8"	1/2"	6229.500.30MC
1/2"	1-5/8"	3-1/2"	5/8"	1/2"	6229.501.26MC

COATED-M



COMPRESSION BIT FOR MELAMINE XTREME (X SERIES) CARBIDE GRADE

Compression bit with special "Xtreme" performance carbide grade developed specifically for the machining of melamine. Runs multiple times longer on melamine than the long-life "M" series for composite material.

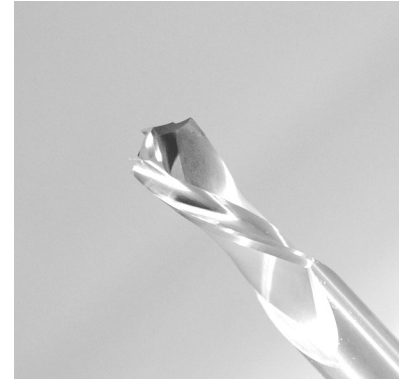
6229X

2 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
3/8"	1"	3"	3/16"	3/8"	6229.376.16X
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.16X
1/2"	1-1/8"	3"	3/16"	1/2"	6229.500.16X
1/2"	1-1/4"	3"	7/16"	1/2"	6229.500.20X

3 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
1/2"	1-1/4"	3"	3/16"	1/2"	6229.500.26X

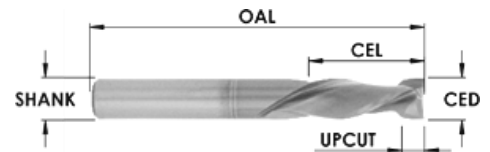


COMPRESSION BIT FOR MELAMINE XTREME COATED CARBIDE GRADE

2 Flute

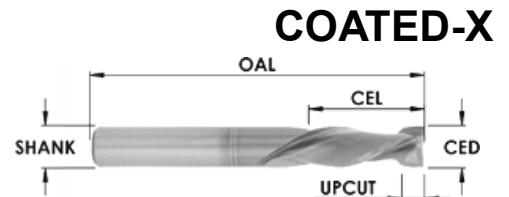
Same carbide grade as the X-Series Xtreme Bits above, but featuring a special coating to maximize tool life. The coating extends tool life even further and protects from premature cutting edge erosion resulting from heat and oxidation during the cutting process.

CED	CEL	OAL	Upcut	Shank	Part-No.
3/8"	1"	3"	3/16"	3/8"	6229.376.16XC
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.16XC
1/2"	1-1/8"	3"	3/16"	1/2"	6229.500.16XC
1/2"	1-1/4"	3"	7/16"	1/2"	6229.500.20XC



3 Flute

CED	CEL	OAL	Upcut	Shank	Part-No.
3/8"	1-1/4"	3"	3/16"	3/8"	6229.375.36XC
1/2"	1-1/4"	3"	3/16"	1/2"	6229.500.26XC
1/2"	1-5/8"	3-1/2"	3/4"	1/2"	6229.501.26XC



DOWNSHEAR BIT FOR MELAMINE

6228X

Down-shear bit with special carbide grade for melamine. Excellent choice for rebates and dado cuts with shorter cut length which reduces risk of breakage due to deflection.

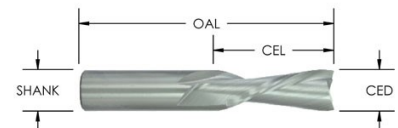
2 Flute

CED	CEL	OAL	Shank	Part-No.
3/8"	1"	3"	3/8"	6228R375D38X
1/2"	1"	3"	1/2"	6228R500D11X

SOLID CARBIDE DOWN CUT BIT - 2 FLUTE

6227 / 6228

CED	CEL	OAL	Shank	Part-No.
3/32"	1/2"	2"	1/4"	6228R094D14
1/8"	1/2"	2"	1/4"	6228R125D14
1/8"	3/4"	2-1/2"	1/4"	6228R125D15
5/32"	3/4"	2"	1/4"	6228R156D14
9/32"	3/4"	3"	1/4"	6228R281D14
3/16"	3/4"	2"	1/4"	6228R187D14
3/16"	7/8"	2"	1/4"	6228R187D16
7/32"	3/4"	2"	1/4"	6228R218D14
1/4"	1"	2-1/2"	1/4"	6228R250D14
1/4"	1"	2-1/2"	1/4"	6228R250D14M*
1/4"	1-1/4"	3"	1/4"	6228R251D14
1/4"	1-1/2"	3-1/2"	1/4"	6228R252D14
1/4"	3/4"	2-1/2"	1/4"	6228R253D14
9/32"	1"	2-1/2"	3/8"	6228R281D38
9/32"	1"	2-1/2"	5/16"	6228R281D40
5/16"	1-1/8"	3"	5/16"	6228R312D12
5/16"	1"	3"	1/2"	6228R312D13
3/8"	1-1/4"	3"	3/8"	6228R375D12
3/8"	1"	3"	3/8"	6228R375D18
3/8"	2"	4"	3/8"	6228R375D28
3/8"	1-1/8"	3"	3/8"	6228R375D37
3/8"	1"	2-1/2"	3/8"	6228R375D38
3/8"	1"	2-1/2"	3/8"	6228R375D38M*
7/16"	1-1/4"	3"	1/2"	6228R437D12
1/2"	1"	2-1/2"	1/2"	6228R500D11
1/2"	1-1/4"	3"	1/2"	6228R500D12
1/2"	1-1/4"	3"	1/2"	6228R500D12M*
1/2"	1-1/2"	3-1/2"	1/2"	6228R500D13
1/2"	2"	4"	1/2"	6228R500D14
1/2"	1-5/8"	3-1/2"	1/2"	6228R500D15
1/2"	1-5/8"	3-1/2"	1/2"	6228R500D15M*
1/2"	1"	3"	1/2"	6228R500D11X**
17/32"	1-1/8"	3"	1/2"	6228R531D12
9/16"	1-1/4"	3-1/2"	1/2"	6228R563D12
5/8"	1-5/8"	3-1/2"	5/8"	6228R625D58
5/8"	2"	4"	5/8"	6228R625D60
3/4"	1-1/2"	3-1/2"	3/4"	6228R750D34
3/4"	2"	4"	3/4"	6228R750D60
3/4"	3"	6"	3/4"	6228R751D60
3/4"	3-1/4"	6"	3/4"	6228R752D60
3/4"	3-1/2"	6"	3/4"	6228R753D60
3/4"	2-1/2"	5"	3/4"	6228R755D60



*M = carbide grade best for composites

**X = carbide grade best for Melamine

3 Flute

CED	CEL	OAL	Shank	Part-No.
1/4"	1"	2-1/2"	1/4"	6227.250D14
3/8"	1-1/4"	3"	3/8"	6227.375D38
1/2"	1-1/4"	3"	1/2"	6227.500D12
1/2"	2"	4"	1/2"	6227.500D13
1/2"	1-5/8"	3-1/2"	1/2"	6227.500D14
5/8"	2"	4"	5/8"	6227.625D58
3/4"	2"	4"	3/4"	6227.750D75
3/4"	1-5/8"	4"	3/4"	6227.750D76
3/4"	3"	6"	3/4"	6227.750D77

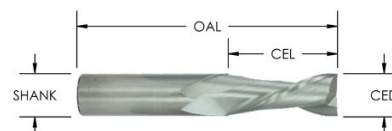
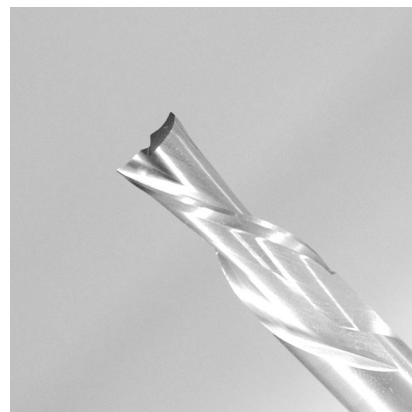
SOLID CARBIDE UP CUT BIT

Designed specifically for chip free cutting when machining in a face down position. Also good choice for solid surface materials. LH rotation on request.

6227 / 6228

2 Flute

CED	CEL	OAL	Shank	Part-No.
1/8"	1-1/16"	3"	1/8"	6228R125U18
3/32"	1/2"	2"	1/4"	6228R094U14
1/8"	1/2"	2"	1/4"	6228R125U14
1/8"	9/16"	2"	1/4"	6228R125U96
5/32"	3/4"	2"	1/4"	6228R156U14
3/16"	3/4"	2"	1/4"	6228R187U14
3/16"	1"	2-1/2"	1/4"	6228R187U15
7/32"	3/4"	2"	1/4"	6228R218U14
1/4"	1"	2-1/2"	1/4"	6228R250U14
1/4"	1-1/4"	3"	1/4"	6228R251U14
5/16"	1"	3"	5/16"	6228R312U12
5/16"	1"	3"	1/2"	6228R312U13
5/16"	1-1/8"	3"	1/2"	6228R312U14
3/8"	2"	4"	3/8"	6228R375U28
3/8"	1"	3"	3/8"	6228R375U38
3/8"	7/8"	2-1/2"	3/8"	6228R375U78
7/16"	1-1/4"	3"	1/2"	6228R437U12
1/2"	1-1/4"	3"	1/2"	6228R500U12
1/2"	1-1/2"	3-1/2"	1/2"	6228R500U13
1/2"	2"	4"	1/2"	6228R500U14
1/2"	1-5/8"	3-1/2"	1/2"	6228R500U15
1/2"	2-1/2"	5"	1/2"	6228R500U16
17/32"	1-1/8"	3"	1/2"	6228R531U12
9/16"	1-1/4"	3-1/2"	1/2"	6228R563U12
5/8"	1-1/2"	3-1/2"	5/8"	6228R625U58
5/8"	2"	4"	5/8"	6228R625U60
3/4"	1-5/8"	4"	3/4"	6228R750U34
3/4"	2"	4"	3/4"	6228R750U60
3/4"	3"	6"	3/4"	6228R751U60
3/4"	2-1/2"	5"	3/4"	6228R751U61
3/4"	3-1/4"	6"	3/4"	6228R752U60
3/4"	3-1/2"	6"	3/4"	6228R753U60

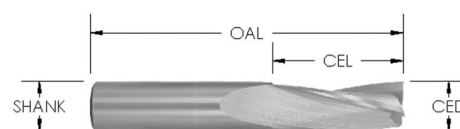


3 Flute

CED	CEL	OAL	Shank	Part-No.
3/8"	1-1/4"	3"	3/8"	6227.375U38
1/2"	1-1/4"	3"	1/2"	6227.500U12
1/2"	2"	4"	1/2"	6227.500U13
1/2"	1-5/8"	3-1/2"	1/2"	6227.500U14
3/4"	2"	4"	3/4"	6227.750U75
3/4"	1-1/2"	4"	3/4"	6227.750U76
3/4"	3"	6"	3/4"	6227.750U77

3 FLUTE LOW HELIX FOR SOLID SURFACE

CED	CEL	OAL	Shank	Part-No.
1/4"	1"	2-1/2"	1/4"	6227S250U14
3/8"	3/4"	3"	3/8"	6227S375U38
3/8"	1-1/4"	3"	3/8"	6227S375U12
1/2"	3/4"	3"	1/2"	6227S500U10
1/2"	1-1/8"	3"	1/2"	6227S500U11
1/2"	1-1/2"	4"	1/2"	6227S500U15
3/4"	2"	4"	3/4"	6227S750U78



6227

SOLID CARBIDE STRAIGHT BIT - 1 FLUTE

6209

CED	CEL	OAL	Shank	Part-No.
1/16"	1/4"	1-1/2"	1/4"	6209.116.00



SOLID CARBIDE STRAIGHT 2-FLUTE BIT

6210

CED	CEL	OAL	Shank	Part-No.
3/32"	5/16"	1-1/2"	1/4"	6210.332.00
1/8"	3/8"	1-1/2"	1/4"	6210.018.00
5/32"	3/8"	2"	1/4"	6210.532.00
3/16"	1/2"	2"	1/4"	6210.316.00
7/32"	3/4"	2"	1/4"	6210.732.00
1/4"	3/4"	2"	1/4"	6210.250.00
1/4"	1"	2-1/2"	1/4"	6210.251.00
5/16"	1"	2-1/2"	3/8"	6210.516.00
3/8"	1"	2-1/2"	3/8"	6210.375.00
1/2"	1-1/4"	3"	1/2"	6210.500.00
1/2"	1-5/8"	3-1/2"	1/2"	6210.501.00



SOLID CARBIDE ENGRAVING BIT

6208

CED	CEL	Angle	OAL	Shank	Part-No.
1/4"	7/32"	60 degree	1-1/2"	1/4"	6208.250.60
1/4"	1/8"	90 degree	1-1/2"	1/4"	6208.250.90



SINGLE FLUTE INSERT ROUTER BIT

6217

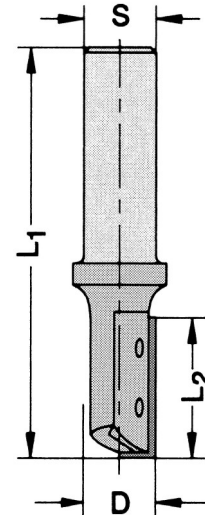
Constant cutting circle, mini reversible insert knife with abrasion resistant carbide. The insert has a cross-groove to insure perfect position and avoid any slipping during the cutting operation. 14mm diameter and larger will ramp-plunge only. Diameters up to 1/2" can plunge straight down.

For general routing operations such as grooving, jointing rebating in hardwood and various wood composite materials. For high-wear applications, please select cutters with high-density body material, designated by "HD" following the part number.

D	L2	S	OAL	Rotation	Part-No.
8mm	20mm	10mm x 40mm	70mm	RH	6217.081.20
8mm	20mm	12mm x 40mm	70mm	RH	6217.082.20
8mm	20mm	12mm x 40mm	80mm	RH	6217.082.22HD
9mm	20mm	10mm x 40mm	70mm	RH	6217.090.20
10mm	25mm	10mm x 40mm	75mm	RH	6217.101.20
10mm	25mm	12mm x 40mm	80mm	RH	6217.101.22HD
10mm	25mm	12mm x 40mm	75mm	RH	6217.102.20
12mm	30mm	10mm x 40mm	80mm	RH	6217.120.20
12mm	30mm	12mm x 40mm	80mm	RH	6217.120.30
12mm	30mm	12mm x 40mm	80mm	LH	6217.120.31
12mm	30mm	12mm x 40mm	90mm	RH	6217.120.33HD
12mm	30mm	12mm x 40mm	90mm	LH	6217.120.34HD
1/2"	30mm	1/2" x 40mm	80mm	RH	6217.127.30
1/2"	30mm	1/2" x 40mm	80mm	LH	6217.127.31
14mm	30mm	10mm x 40mm	80mm	RH	6217.140.20
14mm	30mm	12mm x 40mm	80mm	RH	6217.140.30
14mm	30mm	12mm x 40mm	80mm	LH	6217.140.31
16mm	50mm	12mm x 40mm	100mm	RH	6217.160.50

Replacement inserts:

- Item# 4201.021.11 (for Diameter 8,9mm and 3/8")
- Item# 4201.020.11 (for Diameter 12, 20mm)
- Item# 4201.025.11 (for Diameter 10, 11mm)
- Item# 4201.030.11 (for Diameter 12, 14mm and 1/2")
- Item# 4201.050.11 (for Diameter 16mm)



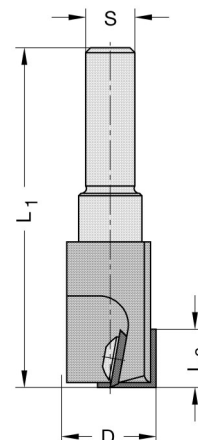
REBATE INSERT ROUTER BIT

6219

Carbide insert rebate cutter designed with one straight 4-sided insert knife cutting on the periphery and one insert tip for plunge cutting. Shear angle to produce a clean cut on laminated or coated surfaces. Z1+1 design.

D	L1	L2	Shank	Rotation	Part-No.
16mm	70mm	12mm	1/4" x 30mm	RH	6219.160.12
16mm	70mm	12mm	1/2" x 30mm	RH	6219.161.12
18mm	70mm	12mm	1/4" x 30mm	RH	6219.180.12
18mm	70mm	12mm	1/2" x 30mm	RH	6219.181.12
20mm	70mm	12mm	1/4" x 30mm	RH	6219.200.12
20mm	70mm	12mm	1/2" x 30mm	RH	6219.201.12
24mm	70mm	12mm	1/4" x 30mm	RH	6219.240.12
24mm	70mm	12mm	1/2" x 30mm	RH	6219.241.12

Replacement Inserts:
 Item# 4200.012.00 (peripheral insert)
 Item# 4200.008.00 (plunge insert for D=16, 18mm)
 Item# 4200.009.00 (plunge insert for D=20mm)
 Item# 4200.012.00 (plunge insert for D=24mm)



STRAIGHT INSERT ROUTER BIT

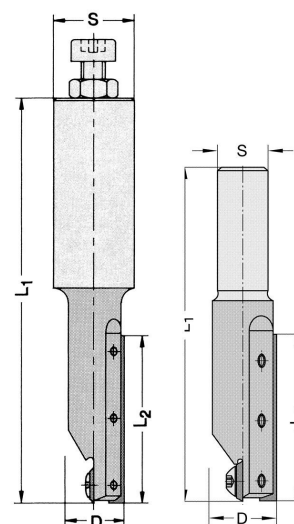
6219

For routing and jointing composite and solid surface materials. With plunging insert. Left-hand rotation is available on request.

D	L2	L1	Shank	Rotation	Part-No.
16mm	30mm	81mm	12x40mm	RH	6219.162.30
18mm	30mm	81mm	12x40mm	RH	6219.181.30
20mm	30mm	81mm	12x40mm	RH	6219.201.30
22mm	30mm	81mm	12x30mm	RH	6219.221.30

D	L2	L1	Shank	Rotation	Part-No.
18mm	50mm	116mm	25x55mm	RH	6219.180.50
3/4"	50mm	110mm	3/4"x50mm	RH	6219.190.50
20mm	50mm	116mm	25x55mm	RH	6219.200.50

Replacement inserts:
 Item# 4201.030.11 insert knife (for L2=30mm)
 Item# 4201.050.11 insert knife (for L2=50mm)
 Item# 4200.012.00 (plunge insert knife)



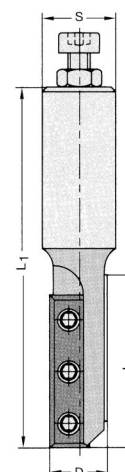
STRAIGHT INSERT ROUTER BIT

6225

For routing, sizing, rebating and jointing wood and composite materials requiring a finish without lines from overlapping inserts. Two offset solid carbide 4-sided inserts. This tool can be used for both mechanical and manual feed.

D	L2	L1	Shank	Rotation	Part-No.
16mm	55mm	125mm	3/4"	RH	6225.160.34
18mm	55mm	125mm	3/4"	RH	6225.180.34
18mm	55mm	125mm	3/4"	LH	6225.180.35
20mm	55mm	125mm	3/4"	RH	6225.200.34
20mm	55mm	125mm	3/4"	LH	6225.200.35

Replacement Parts:
 Item# 6419.050.00 insert knife
 Item# 39076-0-04000-R Torx Screw
 Item# 39077-0-04015-2 t15 Torx Wrench



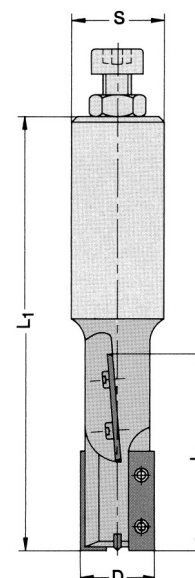
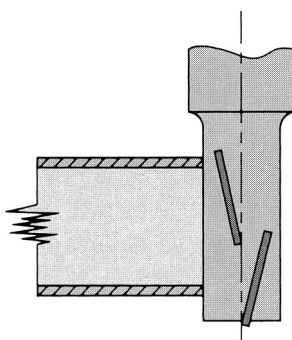
INSERT COMPRESSION ROUTER BIT

6243

Two flute compression style insert router bit with two solid carbide insert tips shearing downward and 2 inserts shearing upward. 4-sided plunge knife. Inserts are reversible. Bottom/Plunge and peripheral cutting. Right hand rotation. Provides a chip free surface finish on laminated panel products, but can also be used on solid wood for jointing, trimming and sizing.

D	L2	Shank	OAL	Part-No.
20mm	33mm	3/4"x55	110mm	6243.039.34
20mm	33mm	25x55	110mm	6243.039.25
20mm	53mm	3/4"x55	125mm	6243.029.34
20mm	53mm	25x55	125mm	6243.029.25

Replacement inserts: Item# 6243.195.00 for L2=33mm
Item# 6243.295.00 for L2=53mm



2 FLUTE INSERT ROUTER BIT

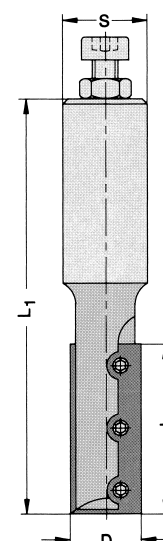
6218

Two Flute router bit with straight, reversible solid carbide insert tips. 3-hole insert design. Bottom cutting for plunge capability.

For jointing, trimming and rebating in solid wood and composite panels.

D	L1	L2	Shank	Turn	Part-No.
25mm	119mm	50mm	3/4"	RH	6218.250.34
30mm	118mm	50mm	3/4"	RH	6218.300.34
25mm	119mm	50mm	25mm	RH	6218.250.50
30mm	118mm	50mm	25mm	RH	6218.300.50

Replacement inserts: Item# 6419.050.00



PCD (DIAMOND) ROUTER BIT

6811-6814

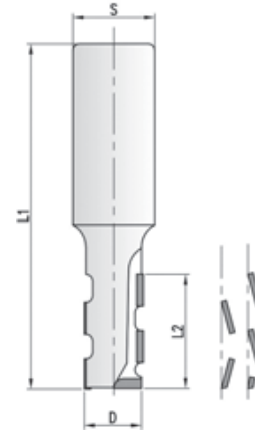
Economical polycrystalline diamond (PCD) router bit designed with a compression style shear and a carbide-tipped plunge point. Ideal for general routing of wood composite materials. Feed rate varies based on number of flutes. Can be sharpened one time.

Single and 2 Flute

D	L2	S	Flutes	OAL	Part-No.
1/2"	1"	1/2"	1+1	3"	6811.127.00
1/2"	27mm	1/2"	2+2	3"	6814.127.00
3/4"	1.5/8"	3/4"	1+1	3-3/4"	6812.190.10

Design	Material	RPM	Feed (meters)	Feed (inches)
Single Flute	MDF	18,000	4-6 m/min	150-230
	Particleboard	18,000	5-7 m/min	200-275
Two Flute	MDF	18,000	11-14 m/min	400-550
		24,000	14-19 m/min	550-750
	Particleboard	18,000	14-18 m/min	550-700
		24,000	19-24 m/min	750-900

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25-30%)



PCD (DIAMOND) ROUTER BIT

2 Flute

6815

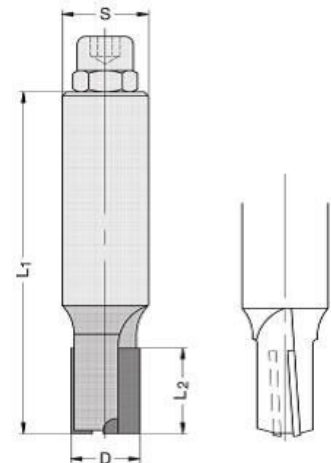
Exceptional performance on a wide array of materials, ranging from solid wood, particleboard, MDF, solid surface material and phenolics. Quiet running and great chip removal properties. Features a solid carbide body and a diamond plunge point. Can be sharpened.

Cutting geometry designed for abrasive and difficult-to-machine materials, for groove, rebate, jointing and sizing of MDF, HDF, HPL, CPL, Trespa, Corian, Duroplastics, Thermoplastics and fiber-reinforced composites. The PCD tips are positioned on opposite shear angles to provide an excellent finish top and bottom. Suitable for both axial and ramp plunging operations.

D	L2	S	Flutes	OAL	Part-No.
3/8"	22mm	10mm	2	70mm	6815.953.00
1/2"	22mm	1/2"	2	70mm	6815.127.00
1/2"	25mm	1/2"	2	70mm	6815.127.10
8mm	15mm	8mm	2	65mm	6815.080.00
10mm	15mm	10mm	2	75mm	6815.100.00
12mm	20mm	12mm	2	75mm	6815.120.00
16mm	20mm	20mm	2	80mm	6815.160.00
16mm	25mm	16mm	2	85mm	6815.160.10

Material	RPM	Feed (meters)	Feed (inches)
MDF/Particleboard	18-24,000	12-16 m/min	400-600
Plywood Veneer	18-24,000	6-9 m/min	230-350
Thermoplastics/Phenolics	15-18,000	1-5 m/min	40-195
Solid Surface	15-18,000	12-14 m/min	400-550

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25-30%)



HIGH SHEAR PCD (DIAMOND) ROUTER BIT

6816

High Shear (PCD) router bit for high feed speeds and excellent finish quality when cutting wood or composite material. Tool has a high quality steel body, 3 flute design. The unique 20° shear angle of the cutting tips delivers superior finish and the durability of polycrystalline diamond results in a very economic tool performance.

3 Flute

D	L2	S	Flutes	OAL	Part-No.
1/2"	1"	1/2"	3+3	3"	6816.127.00

Material	RPM	Feed (meters)	Feed (inches)
MDF/Particleboard	18,000	15-19 m/min	600-750

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25-30%)



PCD (DIAMOND) ROUTER BIT

6818

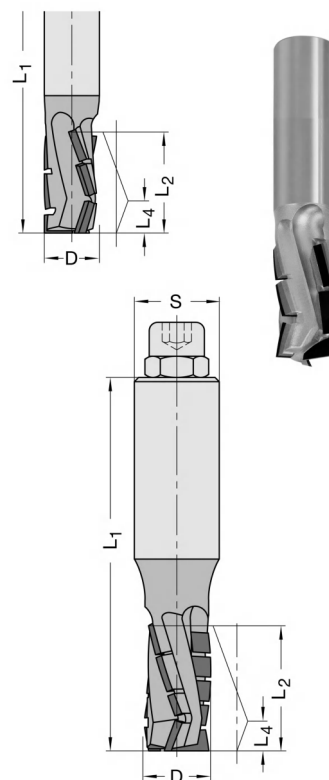
This 3-flute PCD Bit is designed for high speed nesting operations, for jointing, sizing, rebating and grooving in MDF, particleboard and OSB. This tool features a solid carbide tool body for demanding applications. Diamond-tipped plunge point.

3 Flute

D	L2	L4	L1	Shank	Part-No.
1/2"	28mm	7mm	85mm	1/2"	6818.127.00
12mm	22mm	7mm	75mm	12mm	6818.120.00
16mm	29mm	6.5mm	100mm	20mm	6818.160.00
18mm	52mm	13mm	130mm	20mm	6818.180.00

Material	RPM	Feed (meters)	Feed (inches)
MDF	18,000	16-21 m/min	600-850
	24000	21-28 m/min	850-1100
Particleboard	18,000	21-27 m/min	850-1100
	24000	28-36 m/min	400-550

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25-30%)



SOLID CARBIDE ROUGHER

6231

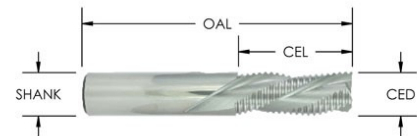
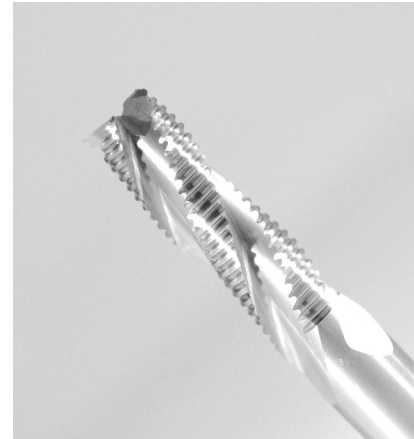
Hogging design for very high feed speeds. RH rotation. LH on request.

3-Flute Up Cut

D	CEL	OAL	Flutes	S	Part-No.
3/8"	7/8"	2-1/2"	3	3/8"	6231.375U38*
3/8"	1-1/4"	3"	3	3/8"	6231.375U12
1/2"	1-1/4"	3"	3	1/2"	6231.500U12
1/2"	1-1/2"	3-1/2"	3	1/2"	6231.500U13
1/2"	1-5/8"	3-1/2"	3	1/2"	6231.500U15
1/2"	1-3/4"	4"	3	1/2"	6231.500U14
1/2"	2"	4"	3	1/2"	6231.500U16
5/8"	2-1/8"	4"	3	5/8"	6231.625U60
3/4"	2"	4"	3	3/4"	6231.750U34
3/4"	2-1/2"	5"	3	3/4"	6231.754U34
3/4"	3"	6"	3	3/4"	6231.751U34
3/4"	3-1/4"	6"	3	3/4"	6231.752U34
3/4"	3-1/2"	6"	3	3/4"	6231.753U34
3/4"	4"	6"	3	3/4"	6231.755U34
3/4"	4"	6-1/2"	3	3/4"	6231.756U34

*) for Castle pocket

Low Helix Bits are available on request.



3-Flute Down Cut

D	CEL	OAL	Flutes	S	Part-No.
3/8"	7/8"	2-1/2"	3	3/8"	6231.375D13
3/8"	1-1/4"	3"	3	3/8"	6231.375D12
1/2"	1-1/4"	3"	3	1/2"	6231.500D11
1/2"	1-1/2"	3-1/2"	3	1/2"	6231.500D13
1/2"	1-5/8"	4"	3	1/2"	6231.500D15
1/2"	1-3/4"	4"	3	1/2"	6231.500D14
1/2"	2"	4"	3	1/2"	6231.500D16
5/8"	2"	4"	3	5/8"	6231.625D60
3/4"	2"	4"	3	3/4"	6231.750D34
3/4"	2-1/2"	5"	3	3/4"	6231.754D34
3/4"	3"	6"	3	3/4"	6231.751D34
3/4"	3-1/4"	6"	3	3/4"	6231.752D34
3/4"	3-1/2"	6"	3	3/4"	6231.753D34

SOLID CARBIDE CHIPBREAKER

6230

This bit is designed with offset chip breakers for high feed rates. Chip Breakers are available in 2 and 3 flute. Not recommended for a finish cut. RH rotation. LH on request.

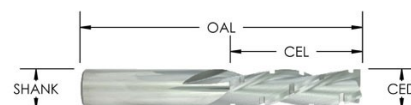
2 and 3-Flute Up Cut

D	CEL	OAL	Flutes	S	Part-No.
3/8"	1-1/4"	3"	3	3/8"	6230.375U38
1/2"	1-1/4"	3"	3	1/2"	6230.501U12
1/2"	1-1/2"	3-1/2"	2	1/2"	6230.500U13
1/2"	1-5/8"	3-1/2"	2	1/2"	6230.500U15
1/2"	1-5/8"	3-1/2"	3	1/2"	6230.501U15
1/2"	2"	4"	3	1/2"	6230.501U14
1/2"	2"	4"	2	1/2"	6230.500U16
5/8"	2"	4"	2	5/8"	6230.625U60
5/8"	2-1/2"	6"	2	5/8"	6230.625U70
3/4"	1-5/8"	3-1/2"	3	3/4"	6230.751U58
3/4"	2"	4"	3	3/4"	6230.750U60
3/4"	3"	6"	3	3/4"	6230.752U60



2 and 3-Flute Down Cut

D	CEL	OAL	Flutes	S	Part-No.
1/2"	1-1/4"	3"	3	1/2"	6230.501D12
1/2"	1-1/2"	3-1/2"	2	1/2"	6230.500D13
1/2"	1-5/8"	3-1/2"	3	1/2"	6230.501D15
1/2"	2"	4"	3	1/2"	6230.501D14
5/8"	2"	4"	3	5/8"	6230.625D60
3/4"	2"	4"	2	3/4"	6230.751D60
3/4"	2-1/2"	5"	3	3/4"	6230.750D61
3/4"	3"	6"	3	3/4"	6230.752D60

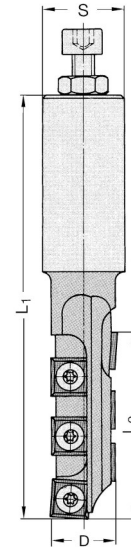


CARBIDE INSERT CHIPBREAKER BIT

This carbide insert bit is designed for faster feed rates and features compression style positioning of the inserts for clean cuts top and bottom of panel. Ideal for rough cutting and cut-outs in solid wood and panel products. This bit features 6 off-set inserts. Suitable for plunge cutting. RH rotation.

D	CEL	OAL	Flutes	S	Part-No.
22mm	60mm	131mm	1+1	3/4"	6223.221.34

Replacement Parts:
 Item# 4200.012.00 (four sided)
 Item# 39076-0-04000-R M4 Torx Screw
 Item# 39077-0-04015-2 Torx Wrench T15



CARBIDE / PCD INSERT ROUGHING BIT

This carbide insert bit is designed for roughing applications sizing, jointing, rebating of wood and a wide variety of composite panel products on CNC machines. High cutting performance and excellent chip removal resulting from helical positioning of the four-sided, special grind inserts. Ramp plunging is recommended when entering material. Solid tool construction and highly accurate and secure insert positioning. RH rotation.
 This tool is available with either PCD or solid carbide inserts, and both can be combined on the same tool, such as placing PCD inserts where abrasive laminate line is prevalent. This tool is a two-flute design (Z2), but bears mentioning that the uppermost 4mm toward the shank is Z1.

Both PCD and Tungsten Carbide inserts are 4-sided.
 PCD / Tungsten combination on the same tool is available on request.

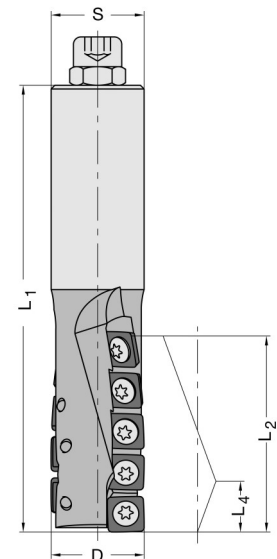
Recommended machining parameters:

RPM 18,000-24,000

Feed rate: 8-15m/min

D	CEL	L4	OAL	S	Inserts	Part-No.
25mm	54mm	13.9mm	120mm	25mm	10/TC	6248.250.25
25mm	54mm	13.9mm	120mm		10/PCD	6248.251.25

Replacement Parts:
 Item# 4200.098.98 4 sided solid carbide insert
 Item# 7.4200.098.98 4 sided PCD insert
 Item# 39081-0-04070-R M4x7, T15 Torx screw
 Item# 39077-0-04015-2 Torx Wrench T15



6248

NOVITEC INSERT ROUGHING BIT

6235

This insert router bit is designed for roughing/hogging composite materials and solid wood. Not designed for finish cuts although it does produce a very acceptable finish for many applications. Excellent results machining plywood. Tips are interchangeable as either straight, 8° up shear or 8° down shear cutting action. The Novitec is supplied with straight carbide knives unless otherwise specified. This tool is great for high feed rates!

Maximum rpm is 24,000

D	L ₂ /L ₃	Shank	OAL	Z / tips	Rotation	Part-No.
16mm	42mm/48mm	25mm	110mm	3/9	RH	6235.016.42
16mm	56mm/62mm	25mm	125mm	3/12	RH	6235.016.56
16mm	42mm/48mm	14mm	110mm	3/9	RH	6235.116.42
16mm	42mm/48mm	14mm	110mm	3/9	LH	6235.116.43
16mm	56mm/62mm	14mm	125mm	3/12	RH	6235.116.56
18mm	42mm/48mm	25mm	118mm	3/9	RH	6235.018.42
18mm	56mm/62mm	25mm	132mm	3/12	LH	6235.018.57
3/4"	56mm/62mm	3/4"	119mm	3/12	RH	6235.019.56
20mm	42mm/48mm	25mm	118mm	3/9	RH	6235.020.42
24mm	42mm/48mm	25mm	118mm	3/9	RH	6235.024.42
24mm	56mm/62mm	25mm	126mm	3/12	RH	6235.024.56
24mm	56mm/62mm	25mm	126mm	3/12	LH	6235.024.57
24mm	70mm/76mm	25mm	140mm	3/15	RH	6235.024.70
24mm	83mm/90mm	25mm	153mm	3/18	RH	6235.024.83

Replacement inserts:

For 16-20mm Diameter:

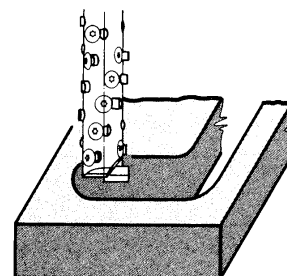
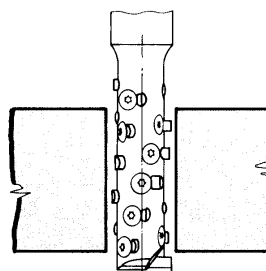
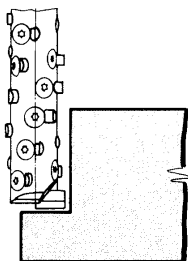
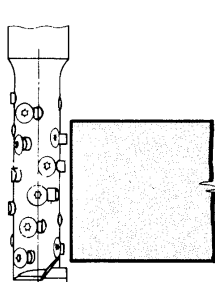
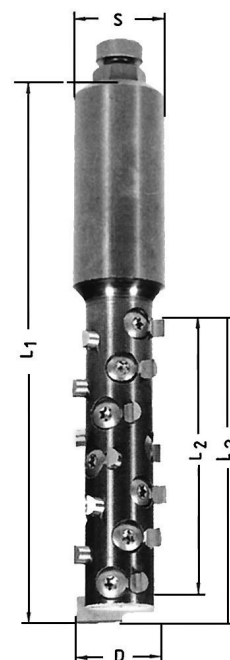
Item# 6235.055.00 (Straight)
Item# 6235.055.01 (Up Shear)
Item# 6235.055.02 (Down Shear)

For 24mm Diameter:

Item# 6235.070.00 (Straight)
Item# 6235.070.01 (Up Shear)
Item# 6235.070.02 (Down Shear)

Plunge Inserts

	RH	LH
For D=16mm	6235.000.16	6235.001.16
For D=18mm	6235.000.18	6235.001.18
For D=3/4"	6235.000.19	-
For D=20mm	6235.000.20	6235.001.20
For D=24mm	6235.000.24	6235.001.24



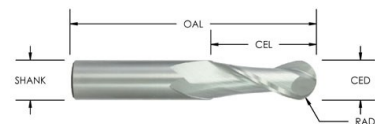
SOLID CARBIDE BALLNOSE BIT

6228B

2 Flute up cut ball-nose / cove bit. Suitable for carving, fluting and shallow concave radius cuts.

2 Flute

CED	CEL	OAL	Radius	Shank	Part-No.
1/8"	1/2"	2"	1/16"	1/4"	6228R125U14B
3/16"	3/4"	2"	3/32"	1/4"	6228R476U14B
1/4"	3/4"	2-1/2"	1/8"	1/4"	6228R250U14B
3/8"	1"	3"	3/16"	3/8"	6228R375U38B
1/2"	1-1/4"	3"	1/4"	1/2"	6228R500U12B
1/2"	2"	4"	1/4"	1/2"	6228R500U14B
3/4"	2"	4"	3/8"	3/4"	6228R750U60B



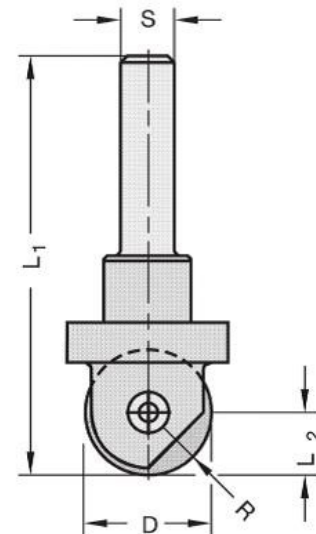
COVE / FLUTING INSERT BIT

Carbide insert router bit suitable for fluting and coves. The carbide insert is reversible and yields two run cycles per insert. Ideal for use in wood and wood composites.

4096

D	L1	L2	Shank (S)	Radius (R)	Part-No.
1/2"	57mm	1/4"	1/4" x 30mm	1/4"	4096.127.63
1/2"	57mm	1/4"	1/2" x 30mm	1/4"	4096.127.12
16mm	60mm	5/16"	1/2" x 30mm	5/16"	4096.160.12
19mm	63mm	3/8"	1/4" x 30mm	3/8"	4096.190.63
19mm	63mm	3/8"	1/2" x 30mm	3/8"	4096.190.12

Replacement inserts:
 Item# 4096.635.00 (1/4" R)
 Item# 4096.080.00 (5/16" R)
 Item# 4096.953.00 (3/8" R)

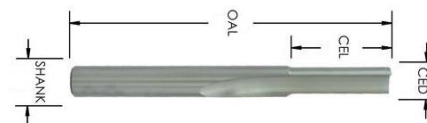


O-FLUTE STRAIGHT (FOR SOFT PLASTIC)

6201

Single Flute, with polished flute for Polycarbonate, ABS, Polystyrene, PVC and other soft and flexible plastics.

CED	CEL	Shank	OAL	Cut	Part Number
1/8"	1/2"	1/4"	2"	straight	6201F125.14
1/8"	5/8"	1/4"	4"	straight	6201F126.14
3/16"	5/8"	1/4"	2"	straight	6201F187.14
3/16"	1"	1/4"	4"	straight	6201F188.14
1/4"	3/4"	1/4"	3-1/4"	straight	6201F250.14
1/4"	1-1/4"	1/4"	4"	straight	6201F251.14
3/8"	1-5/8"	3/8"	6"	straight	6201F375.38
1/2"	1"	1/2"	3"	straight	6201F500.50
1/2"	2-1/8"	1/2"	6"	straight	6201F501.50

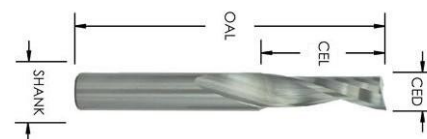


O-FLUTE UPCUT SPIRAL (FOR SOFT PLASTIC)

6201

Single Flute, with polished flute

CED	CEL	Shank	OAL	Cut	Part Number
1/8"	1/4"	1/4"	2"	Up	6201F125U14
1/8"	1/2"	1/4"	2"	Up	6201F126U14
3/16"	3/8"	1/4"	2"	Up	6201F187U14
3/16"	5/8"	1/4"	2"	Up	6201F188U14
1/4"	3/8"	1/4"	2"	Up	6201F250U14
1/4"	3/4"	1/4"	2-1/2"	Up	6201F251U14
1/4"	1-1/4"	1/4"	3"	Up	6201F252U14
3/8"	5/8"	3/8"	2-1/2"	Up	6201F375U38
3/8"	1-1/8"	3/8"	3"	Up	6201F376U38
3/8"	1-5/8"	3/8"	3-1/2"	Up	6201F377U38
1/2"	1-5/8"	1/2"	3-1/2"	Up	6201F500U12

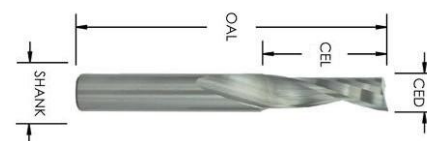


O-FLUTE UPCUT SPIRAL (FOR HARD PLASTIC)

6201

Single Flute, with polished flute for Acrylics, Nylons, Plexiglass and other rigid plastics.

CED	CEL	Shank	OAL	Cut	Part Number
1/8"	1/4"	1/4"	2"	Up	6201H125U14
1/8"	1/2"	1/4"	2"	Up	6201H126U14
3/16"	3/8"	1/4"	2"	Up	6201H187U14
3/16"	5/8"	1/4"	2"	Up	6201H188U14
1/4"	3/8"	1/4"	2"	Up	6201H250U14
1/4"	3/4"	1/4"	2-1/2"	Up	6201H251U14
1/4"	1-1/4"	1/4"	3"	Up	6201H252U14
3/8"	5/8"	3/8"	2-1/2"	Up	6201H375U38
3/8"	1-1/8"	3/8"	3"	Up	6201H376U38
3/8"	1-5/8"	3/8"	3-1/2"	Up	6201H377U38
1/2"	1-5/8"	1/2"	3-1/2"	Up	6201H500U12



ROUTER BIT FOR ACRYLIC

93103-96123

German-engineered and produced, these single and multi-flute solid carbide bits feature special cutting geometries that produce highest quality surface finish. With a polished flute and polished clearance for excellent chip removal, these bits provide an exceptionally good end result.

Suitable for machining (polishing, grooving, sizing) of Thermoplastics, such as PMMA (acrylic glass), PC (Polycarbonate), PE (Polyethylene), PP (Polypropylene) PS (Polystyrol), ABS and PVC.

Achieve an almost glass-clear finish by pre-routing in conventional cut mode and then making a final pass (with minimal material removal) in climb-cut mode.

Single Flute

CED	CEL	OAL	Shank	Part-No.
2mm	5mm	50mm	6mm	93103-020
4mm	15mm	50mm	6mm	93103-040
6mm	20mm	60mm	6mm	93103-060
8mm	25mm	70mm	8mm	93103-080
10mm	30mm	70mm	10mm	93103-100

Recommended machining parameters:

Precut (roughing) - conventional cut 18-24,000 rpm 2-6 m/min feed rate

Finish cut - climb-cut! 18-24,000 rpm , 0.1-0.4 m/min feed rate (.004-.012" material removal)

3-Flute

CED	CEL	OAL	Shank	Part-No.
6mm	20mm	50mm	6mm	93303-060

Recommended machining parameters:

Precut (roughing) - conventional cut 18-24,000 rpm 6-10m/min feed rate (Z3)

Finish cut - climb cut! 18-24,000 rpm , 0.3-0.8 m/min feed rate (.004-.012" material removal)



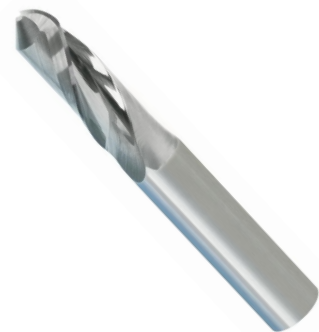
BALLNOSE BIT FOR ACRYLIC

CED	CEL	OAL	R	Shank	Part-No.
2mm	5mm	50mm	1	6mm	96113-020
4mm	15mm	50mm	2	6mm	96113-040
6mm	20mm	60mm	3	6mm	96113-060
8mm	25mm	70mm	4	8mm	96113-080
10mm	30mm	70mm	5	10mm	96113-100

Recommended machining parameters:

Precut (roughing) - conventional cut 16-24,000 rpm 2-6 m/min feed rate

Finish cut - climb-cut! 16-24,000 rpm , 0.3-0.6 m/min feed rate (.005-.010" material removal)



PCD ROUTER BIT FOR THERMOPLASTICS

6815

Exceptional performance on a wide array of materials, ranging from solid wood, particleboard, MDF, solid surface material, thermoplastics/phenolics to fiber reinforced (carbon and glass fiber) composites. Quiet running and great chip removal properties. Features a solid carbide body and a diamond plunge point. Can be sharpened.

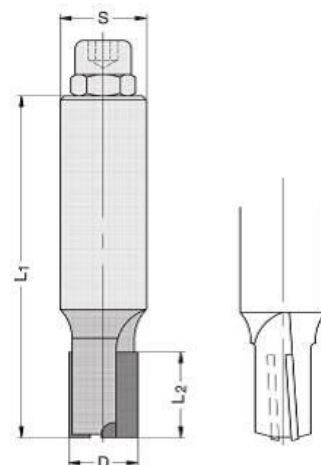
Cutting geometry designed for abrasive and difficult-to-machine materials, for groove, rebate, jointing and sizing of MDF, HDF, HPL, CPL, Trespa. Corian, Duroplastics, Thermoplastics and fiber-reinforced composites. The PCD tips are positioned on opposite shear angles to provide an excellent finish top and bottom. Suitable for both axial and ramp plunging

2 Flute

D	L2	S	Flutes	OAL	Part-No.
3/8"	23mm	10mm	2	70mm	6815.953.00
1/2"	22mm	1/2"	2	70mm	6815.127.00
1/2"	25mm	1/2"	2	70mm	6815.127.10
8mm	15mm	8mm	2	65mm	6815.080.00
10mm	15mm	10mm	2	75mm	6815.100.00
12mm	20mm	12mm	2	75mm	6815.120.00
16mm	20mm	20mm	2	80mm	6815.160.00
16mm	25mm	16mm	2	85mm	6815.160.10

Material	RPM	Feed (meters)	Feed (inches)
Thermoplastics/Phenolics	15-18,000	1-5 m/min	40-195
Solid Surface	15-18,000	12-14 m/min	400-550

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25-30%)



INSERT ROUTER BIT FOR THERMOPLASTICS

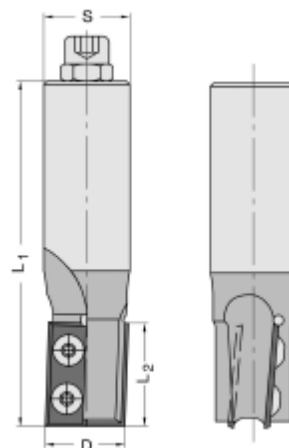
6233

For grooving, jointing, sizing and rebating Acrylic Glass (PMMA), Thermoplastics, Polyethylene (PE), Polycarbonate (PC), Polypropylene (PP). Tool body features two special carbide grade insert knives that are positioned on opposing shear angles to provide an excellent finish.

2 Flute

D	L2	S	Flutes	L1	Part-No.
25mm	30mm	25mm	2	100mm	6233.250.00

Replacement Parts: Item# 72014-6-03008-0 4-sided solid carbide insert



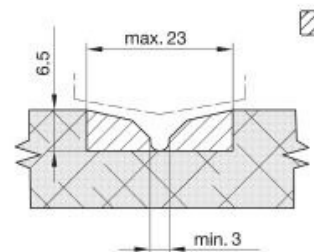
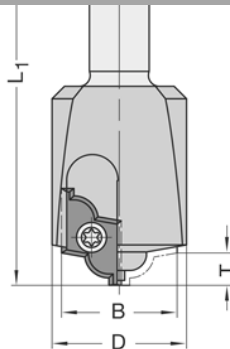
CUSTOM PROFILES FROM TOOL BLANKS

Our custom router tooling program is one of the most comprehensive and economical solutions in the industry! Our program includes an extensive selection of stock tool body blanks that can be quickly customized to specific profile needs. The following pages show some examples of how tool blanks can be transformed into edge profiles, raised panel, cope and stick, angled profiles, corner cut-outs, carving, engraving, rosettes, MDF Door profiles and much more! The process is very simple. We need a wood sample, a dimensioned sketch or a CAD drawing of the profile and we do the rest. After the tool is designed, a dimensioned drawing is provided for verification of tool detail, rotation and machine connection and two weeks later, the custom tooling is ready! It really is that simple!



Tool Body Blank Profile Example

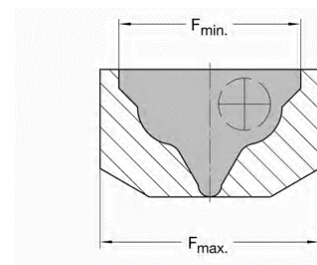
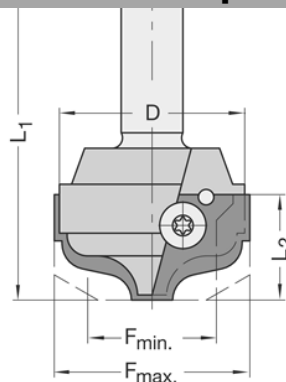
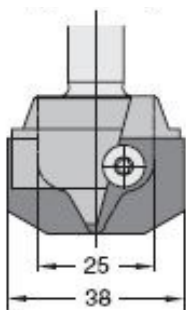
22451



D	B	L1	S	Part-No.
27mm	23mm	69mm	12mm	22451

Tool Body Blank Profile Example

22543

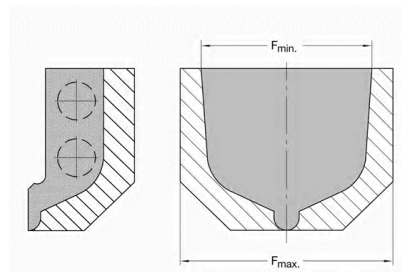
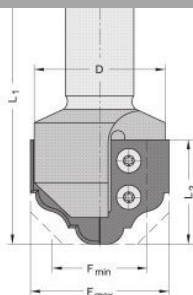
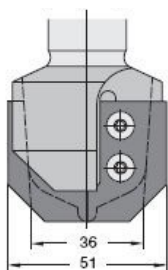


Fmax	D	L2	Fmin	L1	Shank	Part-No.
38mm	36mm	20.5mm	31.5mm	70mm	1/2"	22543

Tool Body Blank

Profile Example

22545

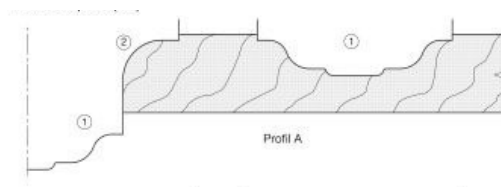
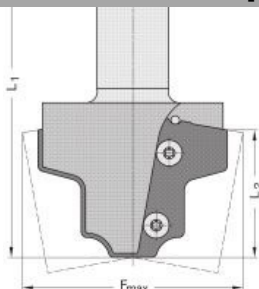
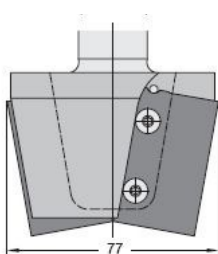


Fmax	D	L2	Fmin	L1	Shank	Part-No.
51mm	48mm	38.5mm	41mm	105mm	3/4" or 25mm	22545

Tool Body Blank

Profile Example

22546

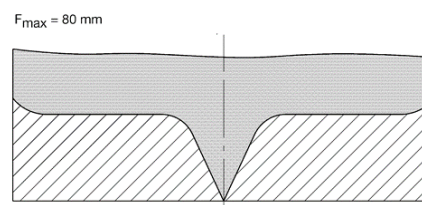
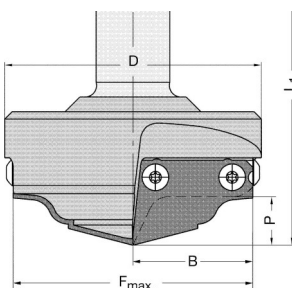
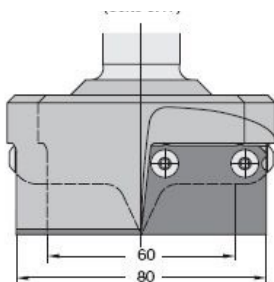


Fmax	D	L2	L1	Shank	Part-No.
77mm	74mm	43mm	115mm	3/4" or 25mm	22546

Tool Body Blank

Profile Example

22547

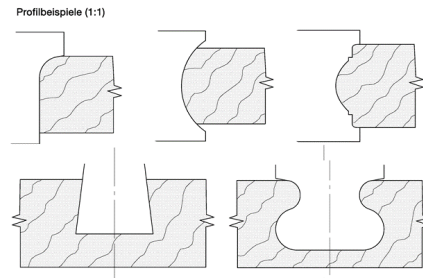
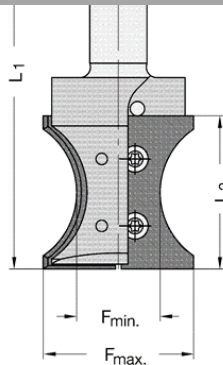
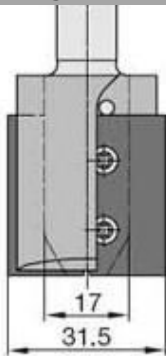


Fmax	D	B	P	L1	Shank	Part-No.
60mm	70mm	30mm	16mm	100mm	3/4" or 25mm	22547-1
80mm	90mm	40mm	16mm	105mm	3/4" or 25mm	22547-2

Tool Body Blank

Profile Example

22529

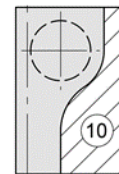
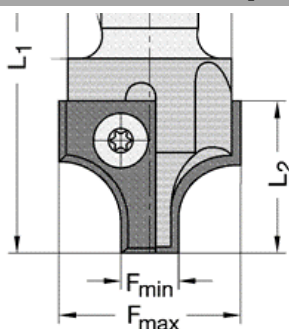
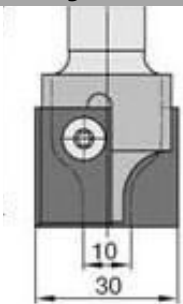


Fmax	L2	Fmin	L1	Shank	Part-No.
31.5mm	32mm	17mm	80mm	1/2" or 12mm	22529

Tool Body Blank

Profile Example

22534

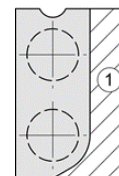
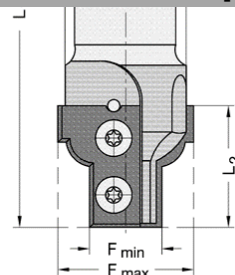
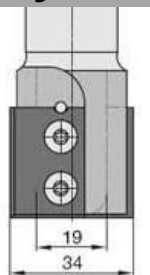


Fmax	D	L2	L1	Shank	Part-No.
30mm	28mm	25mm	86mm	3/4" or 25mm	22534

Tool Body Blank

Profile Example

22532-1

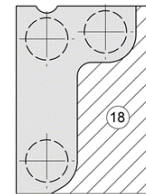
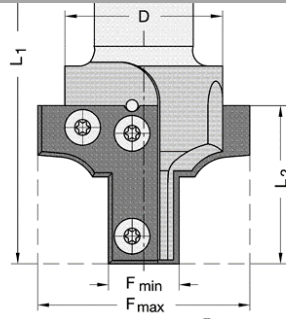
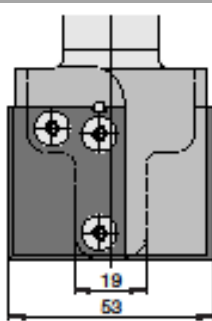


Fmax	D	L2	L1	Shank	Part-No.
34mm	31mm	30mm	96mm	3/4" or 25mm	22532-1

Tool Body Blank

Profile Example

22532-2

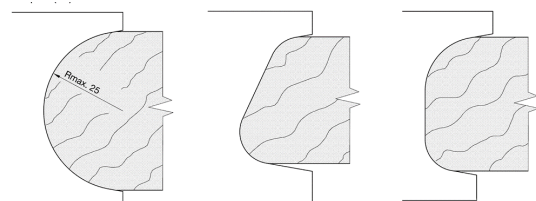
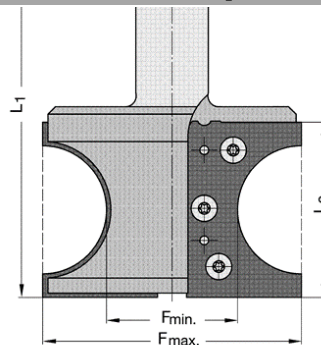
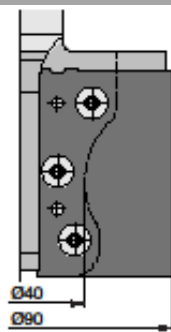


Fmax	D	L2	L1	Shank	Part-No.
53mm	50mm	40mm	80mm	1/2" or 12mm	22532-2

Tool Body Blank

Profile Example

22530-90

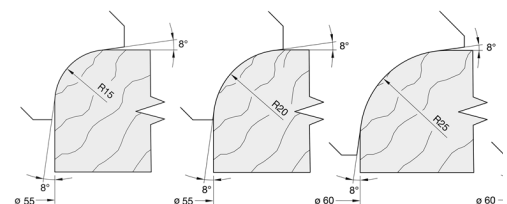
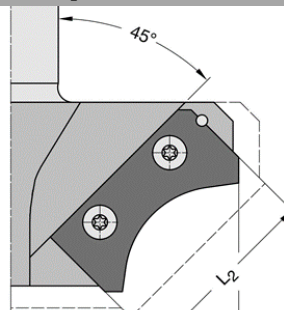
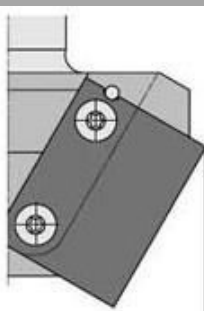


Fmax	Fmin	L2	L1	Shank	Part-No.
90mm	40mm	60mm	125mm	3/4" or 25mm	22530-90

Tool Body Blank

Profile Example

22538-45

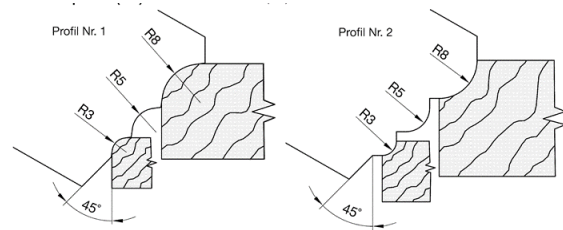
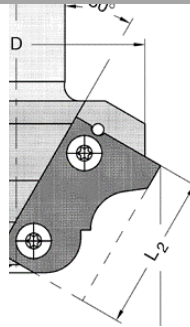
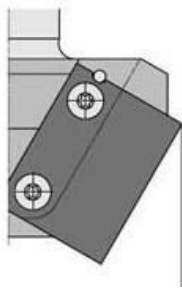


Fmax	D	L2	L1	Shank	Part-No.
34mm	31mm	30mm	96mm	3/4" or 25mm	22532-1

Tool Body Blank

Profile Example

22538-30

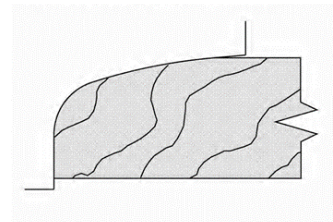
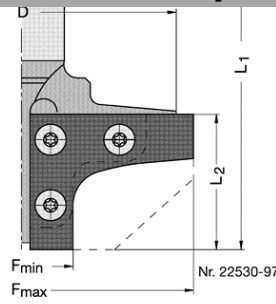
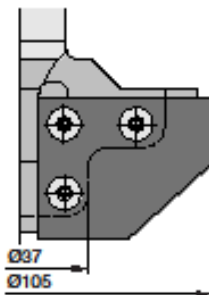


Fmax	L2	L1	Shank	Part-No.
82/87mm	40mm	104mm	3/4" or 25mm	22538-30

Tool Body Blank

Profile Example

22530-97

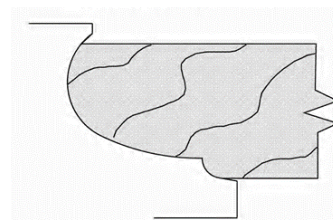
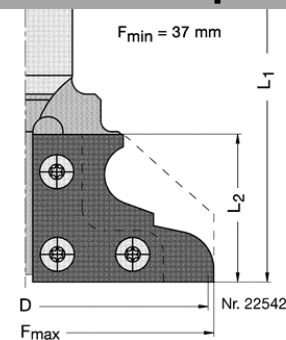
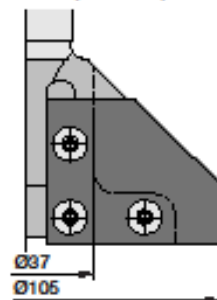


Fmax	D	F min	L2	L1	Shank	Part-No.
105mm	102mm	37mm	36mm	104mm	3/4" or 25mm	22530-97

Tool Body Blank

Profile Example

22542



Fmax	D	F min	L2	L1	Shank	Part-No.
105mm	102mm	37mm	36mm	104mm	3/4" or 25mm	22542

CUSTOM TOOLING—QUICK AND EASY

Custom tooling is an easy process when partnering with GDP | GUHDO. From concept to design, production and delivery, the process takes no longer than 4 weeks. With a sample profile, a CAD file or a dimensioned sketch, we design precision profile tools with safety and accuracy that will deliver exceptional performance. Our customer's complete satisfaction is our goal and we are perfectionists! Below are some examples of the end result, from drawing to tooling completion.



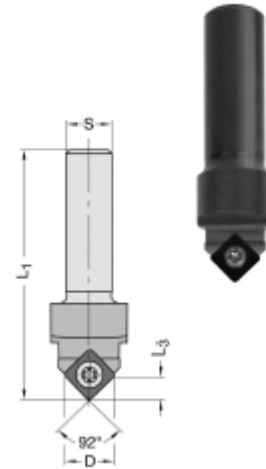
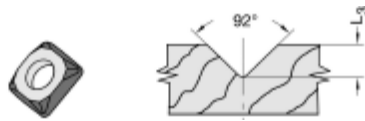
PCD (DIAMOND) INSERT GROOVING BIT

4389

Diamond Insert decorative grooving, lettering, beveling and edge chamfering bit. Extremely economical when machining abrasive materials. This tool is designed with a shear effect, pulling inward and down for excellent finish.

D	L3	Shank	OAL	Part-No.
12.9	5.6	12mm	65mm	4389.176.00

Replacement inserts: Item# 4389.098.00



PCD (DIAMOND) CUSTOM PROFILE ROUTER TOOLING



Profiled diamond tools are made to order per exact customer needs and specifications. All tools are designed with consideration of preferred machining parameters in mind. The process is simple. With either a wood sample, a dimensioned sketch or a dxf file, we prepare a detailed tool design drawing for approval. Once any revisions are noted and final drawing is approved, the lead time for the new tool to be shipped is generally 4 weeks.

We highly recommend all DIAMOND tools are ordered with a heat shrink tool holder, which yields up to 30% longer tool life and better surface finish.

CORRUGATED KNIFE HOLDER

4524

This corrugated head tool holder features a steel body design and offers a great option for short production runs and proto-type needs. It comes on an HSK heat shrink tool holder (sold separately). Maximum knife length is 80mm. RH rotation. (LH on request)
For safety reasons, maximum profile depth should not exceed 16mm and maximum Knife height should not exceed 40mm.

CED	CEL	OAL	Knife thickness	Shank	Part-No.
100mm	40mm	110mm	1/4"	25mm	4524.040.63
100mm	40mm	110mm	5/16"	25mm	4524.040.79
100mm	60mm	130mm	1/4"	25mm	4524.060.63
100mm	60mm	130mm	5/16"	25mm	4524.060.79
100mm	80mm	150mm	1/4"	25mm	4524.080.63



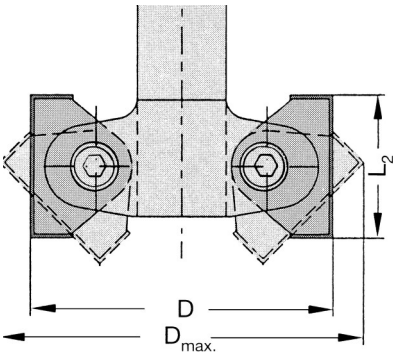
VARI-ANGLE INSERT ROUTER BIT

4099

For jointing and for producing angled cuts in solid wood or composite materials. Adjustable 0 to 45° up or 0—90

D	L2	Shank	OAL	Part-No.
85mm-102mm max	40mm	20mm	95mm	4099.085.20
110mm-135mm max	50mm	25mm	114mm	4099.110.25

Replacement inserts:
Item# 4200.040.00 (beveled 2 sides) for L2=40mm
Item# 6419.040.00 (beveled 4 sides) for L2=40mm
Item# 4200.050.00 (beveled 2 sides) for L2=50mm
Item# 6419.051.00 (beveled 2 sides) for L2=50mm



FOURCUT SURFACING FINISH BIT

6247

Best solution for surface cleanout on MDF shaker-style cabinet doors. Provides an excellent finish, reduces machining time and is extremely economical due to 4 sided inserts edges. Replacement inserts are available either in solid carbide, or polycrystalline diamond.

Diameter	Cut Length	OAL	Shank	Rotation	Part-No.
40mm	9.2mm	90mm	3/4"	RH	6247.400.34
122mm	9.2mm	90mm	25mm	RH	6247.122.25

Replacement inserts:
 Item# 72014-0-09800-0 4-sided solid carbide
 Item# 72014-9-09800-4 4-sided PCD-tipped insert



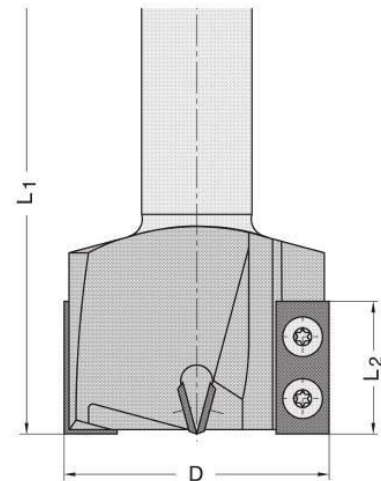
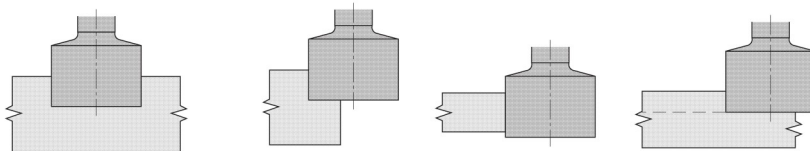
SURFACING / REBATE / JOINTING BIT

6245

Multi-use router bit for boring, grooving, rebating, jointing and surface planing. When boring over 10mm depth, RPM must be 12,000. Great tool for clean surfacing finish due to design and geometry of bottom cutting inserts. For applications requiring more than just surface planing, this tool has much versatility and provides excellent finish!
 Maximum rpm: 12,000 Z=2+2.

D	L2	L1	Shank	Rotation	Part-No.
40mm	30mm	90mm	3/4" x 55mm	RH	6245.400.34
40mm	30mm	90mm	25 x 55mm	RH	6245.400.30
60mm	30mm	105mm	3/4" x 55mm	RH	6245.600.34
60mm	30mm	105mm	25 x 55mm	RH	6245.600.30
80mm	12mm	78mm	3/4" x 55mm	RH	6245.800.34
80mm	12mm	78mm	25 x 55mm	RH	6245.800.30

Replacement inserts:
 Item# 4200.012.00 peripheral insert D=80mm
 Item# 6419.030.00 peripheral insert for D=35, 40, 60mm
 Item# 4200.012.00 plunge insert for D=35 and 40mm
 Item# 4200.020.00 plunge insert for D=60mm
 Item# 4200.030.00 plunge insert for D=80mm



SPOIL BOARD / FLY CUTTER

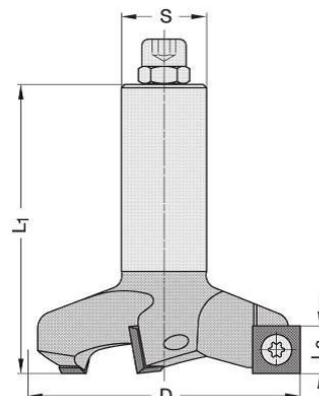
3-wing **Insert** router bit for planing and CNC spoil board surfacing.

6246

D	Z	L2	Shank	Part-No.
45mm	3	12mm	1/2"	6246.450.12
80mm	3	12mm	3/4"	6246.800.34
100mm	3	12mm	25mm	6246.100.25*

Replacement inserts: Item# 4200.012.00

*) D=100mm is supplied on an HSK63F Heat Shrink tool holder



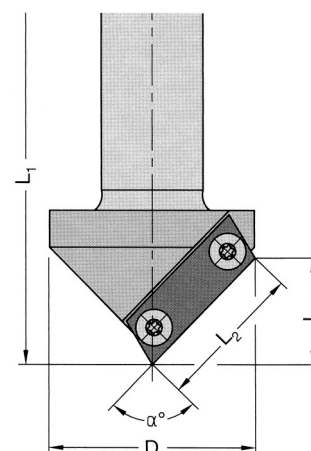
V-GROOVE MITER FOLD INSERT BIT

Insert miter-fold bit for V-grooving, beveling and folding. A true 90 degree is used for solid surface and phenolic material, a 91 degree for wood and wood composites which allows for natural expansion of the wood and glue space.

4320

Degree	D	Shank	L1	L2	L3	Part-No.
45°	43mm	3/4"	115mm	36.4mm	25mm	4320.043.34
60°	41.5mm	3/4"	118mm	41.5mm	35mm	4320.415.34
90°	50mm	3/4"	93mm	36.4mm	25mm	4320.050.34S
91°	50mm	3/4"	93mm	36.4mm	25mm	4320.050.34
91°	71mm	20mm	105mm	50mm	35mm	4320.071.20

Replacement inserts: Item# 4320.040.00 (90/91deg.) (for wood, plywood, solid surface)
 Item# 4320.041.00 (90/91deg.) (for MDF, particleboard)
 Item# 4320.495.00 (91deg x 71mm)
 Item# 4320.050.00 (60deg.)
 Item# 4320.060.00 (45deg.)



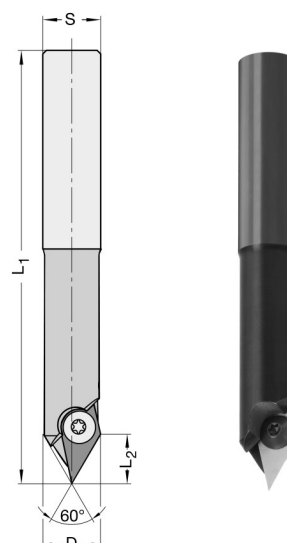
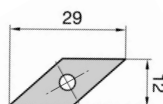
60 DEGREE V-GROOVE INSERT BIT

Insert V-grooving bit with 2-sided insert, excellent for corner cleanup in door production and is also suitable for decorative grooving and lettering applications.

4321

Degree	D	Shank	L1	L2	Rot.	Part-No.
60°	16mm	16mm	120mm	13.7mm	RH	4321.060.16
60°	16mm	16mm	120mm	13.7mm	LH	4321.061.16

Replacement inserts: Item# 4321.029.00 (60°) 2-sided



DECORATIVE INSERT ROUTER BIT

4319

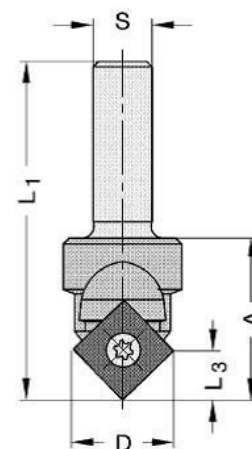
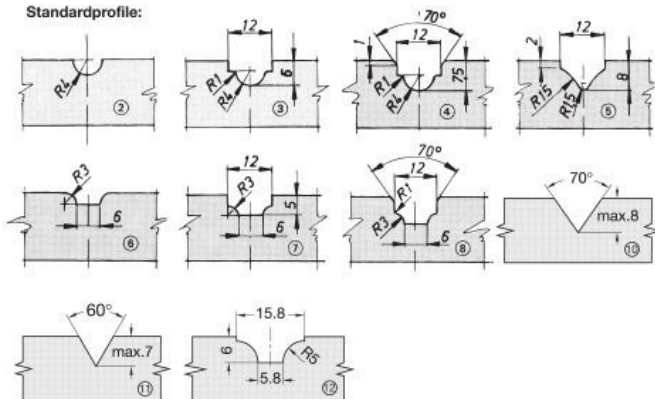
A multi-use decorative insert router bit designed for versatility in grooving, lettering, round-over and engraving. This tool can also be supplied with small custom profiles that fit within the profiling parameters of the insert blank (shown below, right). Great tool for inside edge bevel on MDF shaker doors.

D	L3	A	L1	Shank	Part-No.
17mm	8.5mm	27mm	57.5mm	10x30mm	4319.012.00

Replacement inserts:

Item# 4200.012.00 (V-Groove)
 Item# 4319.012.02 (Profile 2,3 and 4)
 Item# 4319.012.05 (Profile 5)
 Item# 4319.012.06 (Profile 6,7 and 8)
 Item# 4319.012.09 (Profile 9)
 Item# 4319.012.10 (Profile 10)
 Item# 4319.012.11 (Profile 11)
 Item# 4319.012.12 (Profile 12)

Standard profile:



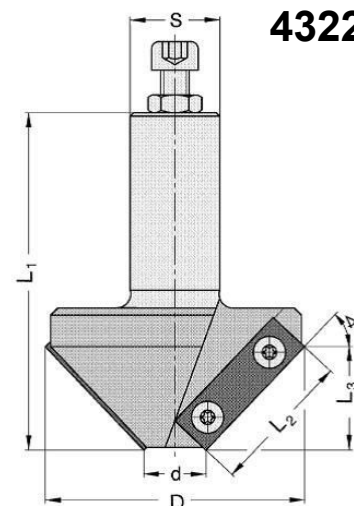
Insert blank is 12x12mm
 Profilable Area (lines)
 Scale 1:1

45 DEGREE BEVEL INSERT ROUTER BIT

Insert Router Bit to produce 45 degree angled cuts. **Maximum RPM 12,000**

Degree	D	Shank	L1	L2	L3	Part-No.
45	74mm	3/4"	95mm	40mm	28mm	4322.074.34
45	74mm	20mm	95mm	40mm	28mm	4322.074.20
45	74mm	25mm	95mm	40mm	28mm	4322.074.25

Replacement inserts: Item# 4200.040.00



4322

MORTISE BITS

6107

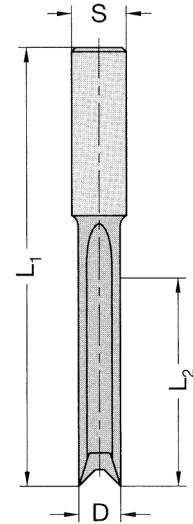
Carbide tipped slot mortise bit for hardwood and exotic wood.

D	L2	L1	S	Flutes	Part-No.
10mm	50mm	105mm	13x40mm	2	6107.300.20

High quality steel slot mortise bit

D	L2	L1	S	Flutes	Part-No.
6mm	50mm	73mm	10mm	4	6107.060.10
1/4"	50mm	73mm	10mm	4	6107.635.10
7mm	50mm	73mm	10mm	4	6107.070.10
5/16"	50mm	73mm	10mm	4	6107.793.10
8mm	50mm	73mm	10mm	4	6107.080.10
3/8"	50mm	73mm	10mm	4	6107.953.10
6mm	50mm	90mm	13mm	4	6107.060.13
10mm	65mm	105mm	13mm	4	6107.100.13
12mm	75mm	115mm	13mm	4	6107.120.13
14mm	85mm	125mm	13mm	4	6107.140.13
16mm	90mm	130mm	13mm	4	6107.160.13
6mm	45mm	90mm	13mm	2	6107.062.13
8mm	50mm	95mm	13mm	2	6107.082.13
10mm	60mm	105mm	13mm	2	6107.102.13
12mm	70mm	115mm	13mm	2	6107.121.13
1/4"	50mm	73mm	1/2"	4	6107.635.12
3/8"	6mm	100mm	1/2"	4	6107.953.12

Custom Sizes Available On Request. Minimum Order Quantity = 10 pieces



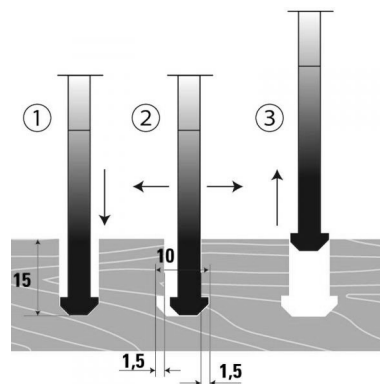
SOLID CARBIDE BIT FOR LAMELLO CLAMEX P® CONNECTORS

Solid carbide profile bit for machining grooves for the Clamex® connector system. For more abrasive materials and longer tool life, the diamond coated version is recommended.

For Clamex Groover, see Page 43

D	Small Dia.	L1	Shank	Flutes	Part-No.
9.8mm	7mm	80mm	12mm	2	20535-6-10001-R*
9.8mm	7mm	80mm	12mm	2	20535-6-10002-R

*) diamond coated



DEEP POCKET MORTISE BIT

6236

Insert tool for use when drilling/routing deep mortise pockets in composite and solid wood. This tool is primarily used for cutting lock pockets. Tool requires one Form A insert and one Form B insert (see below) per setup. The tool body is made of a special, high-density material that provides rigidity and reduces the risk of breakage. Provides vibration-free machining.

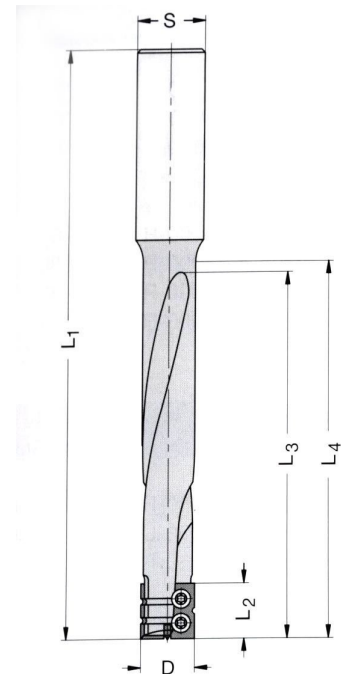
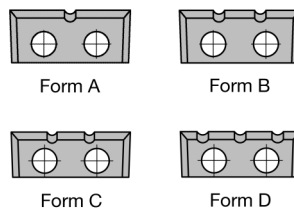
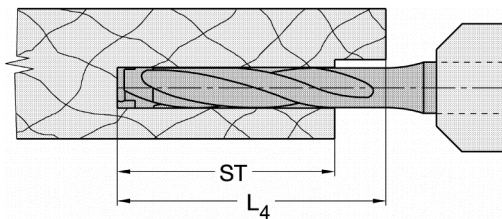
Recommended RPM: 12,000-18,000

Gradual Plunge Feed: 12m/minute (up/down)

Max. Cut Progression: 8-10mm solid wood, 15mm composites

D	L2	Shank	L1	L3	L4	Part-No.
14mm	16mm	16mm x 60mm	170mm	96mm	96mm	6236.140.16
16mm	16mm	16mm x 45mm	150mm	105mm	105mm	6236.160.16
16mm	16mm	16mm x 55mm	170mm	105mm	113mm	6236.161.16
16mm	16mm	20mm x 55mm	170mm	105mm	110mm	6236.161.20
16mm	16mm	16mm x 55mm	180mm	105mm	123mm	6236.162.16
16mm	16mm	25mm x 65mm	210mm	105mm	134mm	6236.160.25
18mm	16mm	20mm x 55mm	170mm	105mm	110mm	6236.181.20

Replacement inserts:
 Item# 6236.000.10 (Form A)
 Item# 6236.000.20 (Form B)
 Item# 6236.000.11 for 14mm Diameter (Form C)
 Item# 6236.000.21 for 14mm Diameter (Form D)



HELICAL PLANING CUTTER

4339

Ideal for trimming, jointing, rebating, hogging and copying operations on solid wood and wood composite materials. For use on all CNC machining centers, this cutter has a maximum rpm of 18,000. Insert knives are 4-sided to yield 4 cycles per tool-up. The bottom of the cutter features 2 reversible spurs for clean corners and rebate cuts. Cutter cuts flush on the bottom. Cutter head mounted on HSK-F 63 arbor adapter sold as one unit.

D	Cut Length	Bore	Inserts	Part-No.
80mm	80mm	30mm	2/16	4339.800.31
100mm	100mm	30mm	2/24	4339.100.30

Replacement inserts:
80mm Item# 72023-6-01500-0 (peripheral inserts) - For old style (prior to 2019)
 Item# 72023-6-01380-0 (peripheral Inserts)
 Item# 72020-6-01420-0 (spurs on bottom)
100mm Item# 72023-6-01515-0 (peripheral inserts)
 Item# 72019-6-01900-0 (spurs on bottom)

Special Advantages:

- High performance and better chip removal through helical positioned inserts
- Optimum division of cut and shear angles for high feed rates
- Perfect finish, no visible marks due to convex ground tips, precisely positioned
- Reduced noise level
- Perfect tool for pre-cutting arches in window production and other millwork tasks



HSK-F 63 TOOL HOLDER

Manufactured of high quality, polished, anti-corrosive steel. All tool holders come with ball bearing collet nut. Balanced to ISO G2.5 specification.

D	A	Collet Style	Part-No.
50mm	70mm	ER32	6375.630.10
50mm	70mm	ER32	6375.632.10*
50mm	100mm	ER32	6375.630.87
60mm	75mm	RDO35/SYOZ25	6375.630.00
60mm	115mm	RDO35/SYOZ25	6375.630.18
63mm	76mm	ER40	6375.630.40
63mm	90mm	ER40	6375.630.90
63mm	115mm	ER40	6375.630.41

*) without data chip hole in cone



6375

HSK85WS TOOL HOLDER

A	Collet Style	Part-No.
76mm	ER40	6375.850.00

PREZISO HSK-F 63 HIGH PRECISION CHUCK

This **highest precision** tool holder is used in combination with high precision collets which together provide a repeat accuracy of **0.003mm (0.0001")** Metric size collets are available from 3-25mm, and inch dimension collets available as shown below. Special sizes can be ordered with 25pc minimum quantity. **Increase tool life by 30% and more!**

A1	A	Item No.
18mm	75mm	6675.630.00
Collets:		
Diameter	Length	Item No.
1/4"	52mm	21049-635
3/8"	52mm	21049-953
1/2"	52mm	21049-127
3/4"	52mm	21049-195
Spanner Wrench	Length	Item No.
C-Spanner	50x5mm	39155-0-50000-0



6675

HYDRO HSK-F 63 TOOL HOLDER

Compact design hydro tool holders. Built-in safety device prevents the tool from falling out when tool holder is not pressurized. Safe and easy tool changes with perfect accuracy and repeatability. Balanced to G2.5 at 25.000 rpm. Collet reducers available on request!

D (i.d)	A	Part-No.
12mm	68mm	6390.120.00
16mm	74mm	6390.160.00
20mm	80mm	6390.200.00
25mm	87.5mm	6390.250.00
3/8"	68mm	6390.953.00
1/2"	69.5mm	6390.130.00
3/4"	78.5mm	6390.190.00
1"	87.5mm	6390.254.00

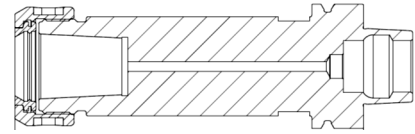


6390

HSK-F 63 TOOL HOLDERS FOR 5-AXIS USE

Long reach tool holders for 5-axis machining.

D	A	Collet Style	Part-No.
60mm	178mm	RDO35/SYOZ25	6379.630.17
60mm	200mm	RDO35/SYOZ25	6379.630.20
60mm	250mm	RDO35/SYOZ25	6379.630.25


6379

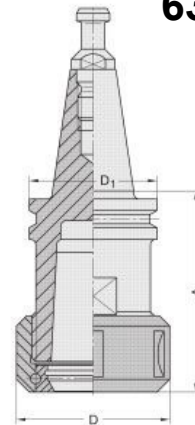
ISO / BT / SK TOOL HOLDER

D	A	Collet Style	Part-No.
50mm	50mm	ER32	6369.350.00***
50mm	60mm	ER32	6369.351.00**
70mm	60mm	RDO35/SYOZ25	6369.364.00
70mm	70mm	RDO35/SYOZ25	6369.371.00
50mm	65mm	ER32	6369.400.00
50mm	55mm	ER32	6370.355.00*
70mm	115mm	RDO35/SYOZ25	6370.370.00*

*) for SCM Routech/Morbidelli

**) for Colombo Spindle

***) for HSD Spindle


6369/6370

COLLET NUTS

Nut Size	Nut Type	Collet Style	Slots	Part-No.
M40x1.5 (50)	Bearing	ER32	Closed	6366.020.00
M40x1.5 (50)	Bearing	ER32	Open	6366.021.00
M48x1.5 (60)	Bearing	RDO35/SYOZ25	Closed	6366.025.00
M50x1.5 (63)	Bearing	ER40	Open	6366.023.00
M50x1.5 (63)	Bearing	ER40	Closed	6366.024.00
M40x1.5 (50)	Static	ER32	Open	6366.015.00



Static Nut

Ball Bearing Nut

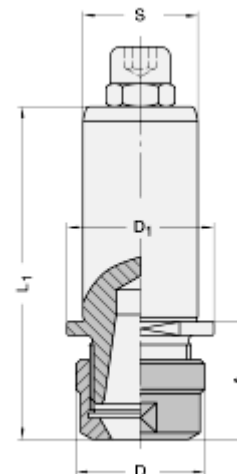
6366

TOOL HOLDER FOR WEEKE BHX

Hardened, ground and precision balanced, this tool holder accepts ER16 collets (available up to 10mm diameter) and is designed for use with Weeke BHX machines that have a hydro clamping system.

This holder has also found popularity for clamping extremely small diameter drills (less than 1mm) since ER16 collets are available as small as 1/32". This tool holder can be mounted like any tool shank in an HSK Heat shrink chuck on any machine using HSK tool holders or ISO30/ER40 collet style.

D	D1	L1	A	Shank	For Collet Style	Part-No.
28mm	32mm	75mm	28,5mm	25mm	ER16	6365.020.25



HSK-F 63 HEAT SHRINK TOOL HOLDER

6378

Heat shrink tool holders provide the most accurate, high precision clamping option for CNC machining. Improved surface quality through exact concentricity.(0.0002" / .003mm). HSK-E and HSK-A available on request.

Highly recommended for use with PCD (Diamond) and Insert Tooling!

D	A	Part-No.
1/4"	75mm	6378.635F63
3/8"	75mm	6378.953F63
1/2"	75mm	6378.127F63
5/8"	75mm	6378.160F63
3/4"	75mm	6378.195F63
20mm	75mm	6378.200F63
25mm	75mm	6378.250F63



LONG REACH FOR 5-AXIS MACHINING

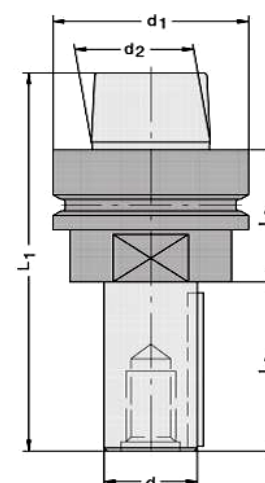
D	A	Part-No.
20mm	108mm	6378.201F63
25mm	108mm	6378.251F63

HSK-F 63 ARBOR ADAPTER

Tempered steel arbor adapter, for mounting single or multi-piece cutters on a CNC machine. Higher clamping power and safety due to double-threaded end retaining screw. Can be used for CW or CCW rotation. Always consult your machine handbook to assure that total weight of arbor and cutters does not exceed spindle limit.

D	L1	L2	L3	Keyway	Part-No.
20mm	110mm	40mm	45mm	6x1.5	6377.721.40
20mm	125mm	55mm	45mm	6x1.5	6377.721.55
20mm	140mm	70mm	45mm	6x1.5	6377.721.70
30mm	125mm	55mm	45mm	8x2	6377.730.55
30mm	150mm	70mm	45mm	8x2	6377.731.80
1-1/4"	160mm	80mm	45mm	drive holes	6377.730.76
1-1/4"	135mm	55mm	45mm	drive holes	6377.731.76
1-1/4"	180mm	100mm	45mm	drive holes	6377.735.10

Custom sizes and styles are available on request!



6377

TORQUE WRENCH

Correct torque is important to maximize tool life and prevent tool slippage and breakage. ER32 Torque = 100 ft/lbs., ER40 Torque = 130 ft/lbs., RDO35/SYOZ Torque = 90 ft/lbs.

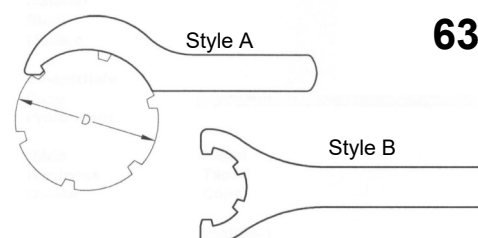
Description	Part-No.
200 TH Torque Wrench	6367.200.00
Collet Key for ER16 collet style	6367.016.00
Collet Key for ER 32 collet style	6367.032.00
Collet Key for ER40 collet style	6367.040.00
Collet Key for RDO35 / SYOZ 25 collet style	6367.035.00
Collet Key for 100mm Dust Nut	6367.100.00C
Collet Key for 80mm Dust Nut	6367.080.00C



6367

COLLET NUT WRENCH

Nut Size	Collet Style	Slots/Style	Part-No.
M40x1.5	ER32	Closed (A)	6366.000.20
M40x1.5	ER32	Open (B)	6366.000.21
M48x1.5	RDO35/SYOZ25	Closed (A)	6366.000.25
M50x1.5	ER40	Open (B)	6366.000.22

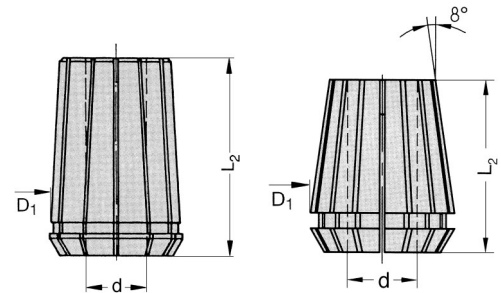


6366

PRECISION COLLET

6360/6363

L2	40mm	46mm	52mm
D	ER32	ER40	RDO35/SYOZ25
1/16"	6363.158.00	-	-
3mm	6363.030.00	-	-
1/8"	6363.032.00	6363.032.10	6360.032.10
4mm (5/32")	6363.040.00	6363.040.10	6360.040.10
3/16"	6363.476.00	6363.187.10	6360.187.10
1/4"	6363.635.00	6363.635.10	6360.635.10
8mm (5/16")	6363.080.00	6363.080.10	6360.080.10
3/8"	6363.953.00	6363.953.10	6360.953.10
10mm	6363.100.00	6363.100.10	6360.100.10
7/16"	6363.437.00	6363.111.10	6360.111.10
12mm	6363.120.00	6363.120.10	6360.120.10
1/2"	6363.130.00	6363.130.10	6360.130.10
14mm	6363.140.00	6363.140.10	6360.140.10
16mm (5/8")	6363.160.00	6363.160.10	6360.160.10
3/4"	6363.190.00	6363.190.10	6360.195.10
20mm	6363.200.00	6363.200.10	6360.200.10
25mm	-	6363.250.10	6360.250.10
1"	-	6363.254.10	6360.254.10



CYCLONE DUST CONTROL COLLET NUT

6363

The Cyclone Dust Extraction Nut is designed to more efficiently remove dust chips in nested router operations. Manufactured from lightweight alloy, balanced to G2.5 and rated for up to 20,000 RPM. When using the Cyclone dust nut, the cutting edge should not be any longer than necessary for optimum results. This keeps the shroud as close to the work surface as possible, thereby creating the best vacuum.

The Cyclone is designed to work with any tool holder that accepts standard ER32, ER40 or RDO35 (SYOZ25) collets and comes complete with tightening wrench.



Collet Style	Part-No.	D
ER32	6363.001.32	100
ER32	6363.008.32	80
ER40	6363.001.40	100
ER40	6363.008.40	80
RDO35	6363.001.25	100
RDO35	6363.008.25	80
Cyclone Torque Key	6367.100.00C	100
Cyclone Torque Key	6367.100.00C	80

HSK 63F CALIBRATION BAR / TEST BAR

6375

This maintenance tool offers a quick and easy way to test your CNC machine for accuracy and alignment after a crash, machine installation, relocation or simply as a periodic performance test.

It helps identify excessive runout or axial play early on, a factor that will greatly reduce machine performance and contribute to rapid tool wear and breakage. Regular spindle inspection and calibration will ultimately reduce down time and prevent costly repairs of spindle and bearings in the long term. Custom sizes on request!

Style	Part-No.
HSK63F	6375.300.00



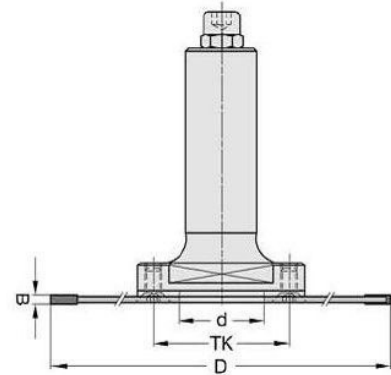
SAW BLADE ADAPTER

6374

Arbor for mounting groovers and saw blades for horizontal grooving and sawing.
Maximum kerf width to 10mm. Kerf width of 3.5mm and below require an additional clamping ring (included). Maximum blade diameter is 200mm (8") for a maximum depth of cut of 65mm. It is recommended that this adapter be purchased with a heat shrink tool holder where possible for maximum accuracy.

d	L1	L2	TK	Shank	Part-No.
22mm	90mm	4mm	36mm	3/4"x65mm	6374.022.34
22mm	90mm	4mm	36mm	25x65mm	6374.022.04
30mm	74mm	4mm	48mm	16x60mm	6374.030.16
30mm	90mm	4mm	48mm	3/4"x65mm	6374.030.34
30mm	90mm	4mm	48mm	25x65mm	6374.030.04

Additional Parts: Item# 39541-0-04000-3 Clamping Ring 60x4x30 (d=30mm)
Item# 39541-0-04022-3 Clamping Ring 50x4x22 (d=22mm)
Item# 39125-0-06016-R M6x16 screw
Item# 39140-0-00302-0 Wrench SW3



SAW BLADE FLANGE ASSEMBLY

6373

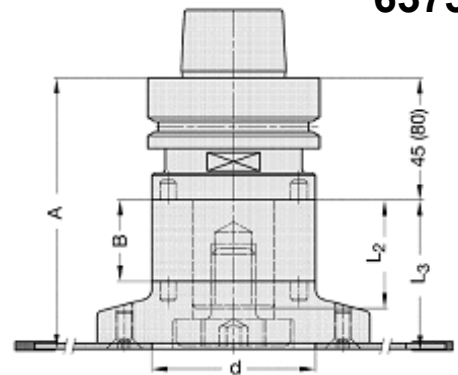
Two-piece saw blade arbor/flange assembly for mounting saw blades for horizontal sawing on CNC machines.

Maximum blade diameter is 350mm with a maximum depth of cut being 170mm.

Also available for machines utilizing SK30, SK40, or HSK-E

Saw blade sold separately.

A	L2	B	L3	Style	Part-No.
100mm	40mm	30mm	55mm	HSK63-F	6373.100.00
115mm	55mm	45mm	70mm	HSK63-F	6373.115.00
140mm	80mm	75mm	95mm	HSK63-F	6373.140.00



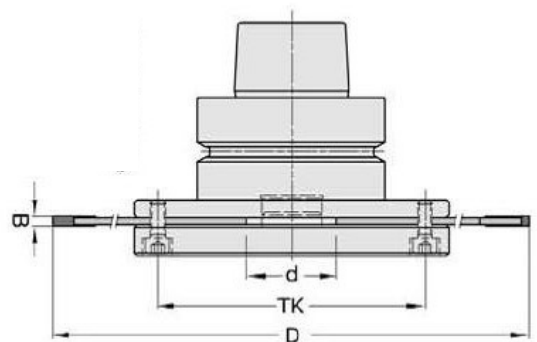
Tempered saw blade clamping flange consisting of flange shank HSK63F and 8 counter-sunk screws. Optional counter flange with 8 socket head cap screws available. For precise mounting of saw blades on CNC machines.

For use with saw blades up to 400mm diameter!

Saw blade sold separately.

D	d	A	TK	Style	Part-No.
Up to 400mm	30mm	40mm	90mm	with counter flange	6373.106.00
Up to 400mm	30mm	40mm	90mm	without counter flange	6373.106.10
Up to 400mm	30mm	50mm	90mm	with counter flange	6373.107.00
Up to 400mm	30mm	50mm	90mm	without counter flange	6373.107.10

The flange diameter (saw collar) on this adapter is 106mm.



SAW BLADE TOOL HOLDER FOR 5-AXIS MACHINING

6372

5 Axis machining can present special requirements when the standard length of a tool holder is too short. We offer solutions to this problem, with both longer length collet chucks, long length heat shrink chucks, which feature a narrow design that doesn't obstruct reach, and our long reach saw blade tool adapter.

D	S	A	Max. Blade Dia.	Part-No.
30mm	HSK 63F	105mm	260mm	6372.105.00
30mm	HSK 63F	130mm	350mm	6372.130.00
30mm	HSK63F	160mm	350mm	6372.160.00



UNIVERSAL BORING CHUCK

6380

This Universal CNC Boring Chuck is the optimum solution for drilling with high precision concentricity on a CNC machining center. Tempered jaws provide special protection from wood chips and dust entering into the unit. Variable adjustment of chucking capacity. With extremely high clamping and retention strength, this holder can be used in CW or CCW rotation.

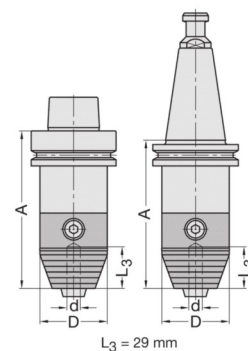
Note: Drills and boring bit used in this item must have a minimum clamping length of 20mm. (0.78")

For SK30 HSD Spindles use 6380.200.00

For SK30 Colombo Spindles use 6380.300.00

For HSK 63 F use 6380.700.00 or 6380.800.00

D	S	A	d	Part-No.
50mm	HSK 63F	97	1-13mm	6380.700.00
57mm	HSK 63F	97	3-16mm	6380.800.00
50mm	SK 30	90	1-13mm	6380.200.00
50mm	SK 30	90	1-13mm	6380.300.00



CNC TOOL SET-UP FIXTURE

6355

Make tool setup a snap! When firmly clamped to a work bench, our set up fixtures offer a safe and effective way to check and prepare tooling for use. Tool locks into position with ball bearing seat.

Setup fixtures are also available for HSK-E 40, SK30 / HSK-F 50 / HSK-E 50, SK40 / BT40, SK30 with serrated collar (Morbidelli), ISO30 / BT30 and HSK-W 85 (Weinig) on request.

Chuck Style	Type	Part-No.
HSK-F63	Basic	6355.630.01
HSK-F63	Plus	6355.630.00

The "Plus" tool setup fixture can be turned into a complete measuring system by purchasing the optional Digitec measuring gauges below. (sold separately)



Basic



Plus

MEASURING GAUGE

21175

Chuck Style	Measuring Type	Part-No.
HSK-F63	Height Gauge	21175-0-13500-0
HSK-F63	Height and Diameter Gauge	21175-0-00000-0

DIGITEC TOOL MEASURING SYSTEM

Efficient and economical tool measuring system. Maximum height measurement is 270mm as measured from the HSK shoulder to the end of the tool. Optional diameter gauge (above).

Chuck Style	Part-No.
HSK-F63 / HSK-E63	6355.630.10
HSK-E40	6355.630.11
SK40 / BT40	6355.630.12
SK30 w. gear (SCM/Morbidelli)	6355.630.13
ISO30 (CMS) BT30	6355.630.14
HSK 85W (Weinig)	6355.630.15



TOOL HOLDER FORKS

Tool Holder Style	Part-No.	For Machines
HSK-F63	6375.999.01	Biesse, Onsrud, Gannomat, Laguna, Multicam
ISO30	6375.999.02	Various



GROOVING BLADE

3008

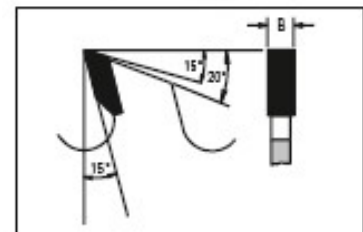
Carbide-tipped, flat top grind, for grooving wood or panel products. Use in conjunction with arbors on Page 40. **Also available in polycrystalline diamond for longer tool life.**

D	B	d	# of Teeth	Part-No.
100mm	2mm	20mm	6	3008.100.20
100mm	3mm	20mm	6	3008.100.30
100mm	4mm	20mm	6	3008.100.40
100mm	5mm	20mm	6	3008.100.50
100mm	7mm	30mm	6	3008.101.70
120mm	4.0mm	35mm (2/6/46+4/5.5-10/50)	30	3008.120.40*
125mm	2mm	30mm	12	3008.125.20
125mm	2.5mm	30mm	12	3008.125.25
125mm	3mm	30mm	12	3008.125.30
125mm	4mm	30mm	12	3008.125.40
125mm	5mm	30mm	12	3008.125.50
125mm	6mm	30mm	12	3008.125.60
125mm	7mm	30mm	12	3008.125.70
125mm	8mm	30mm	12	3008.125.80
125mm	10mm	30mm	12	3008.125.10
150mm	2.5mm	30mm	12	3008.150.25
150mm	3mm	30mm	12	3008.150.30
150mm	3.5mm	30mm	12	3008.150.35
150mm	4mm	30mm	12	3008.150.40
150mm	5mm	30mm	12	3008.150.50
150mm	6mm	30mm	12	3008.150.60
150mm	8mm	30mm	12	3008.150.80
150mm	10mm	30mm	12	3008.150.10
180mm	4.0mm	30mm (2/6/42+4/5.5-10/50)	42	3008.180.40**

Maximum RPM: 12,000 (100mm diameter)
10,000 (125mm diameter)
8,000 (150mm diameter)

*) for Biesse, Felder
**) for Felder

Other sizes are available on request.



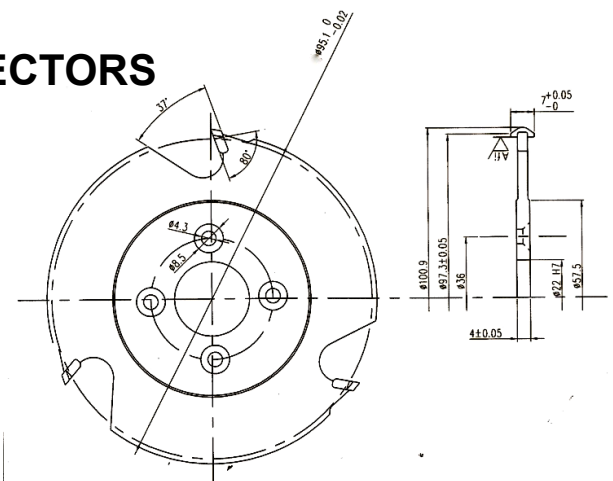
GROOVING BLADE FOR CLAMEX CONNECTORS

PCD tipped grooving blade for Lamello-Clamex System on CNC machining centers and angled aggregate heads.

*) for Lamello Zeta P2 Joiner

D	B (mm)	D (mm)	Pinholes	Part No.
100.4mm	7.0	22	4/4.5/36	40190-9-00001-V*
100.4mm	7.0	22	4/6.5/36	40190-9-00003-V
100.4mm	7.0	30	4/6.5/48	40190-9-00002-V

For CNC arbor adapters for Clamex cutter, see Style 6374 on Page 40
For Clamex Router Bit Style, please see Page 34



AGGREGATE HEADS

CNC Aggregate Heads come in a variety of standard designs for drilling, routing, grooving, sawing, planing, moulding, sanding and many other specialty application executions. Lending 5-axis capability to 3 axis machines, these precision machine adapters make difficult-to-machine challenges a breeze. Manufactured in Germany by highly skilled technicians, they are assembled, tested and delivered in either grease or oil lubrication version, depending on the intended application and frequency of use. CNC Aggregate Heads are available with HSK, ISO/SK and other machine interfaces and individualized torque arm ring based on specific machine need.

Special Application Examples:

- Multi-head Boring Block
- Oscillating Lock Recess Head
- Floating Head Aggregate
- Cutter Head Aggregate
- Multi-saw Aggregate
- Sanding Aggregates
- Creasing Tool Aggregates
- Custom Aggregates for difficult jobs!



SAW BLADES FOR AGGREGATE HEADS

2062

Carbide-tipped saw blades for use with aggregate heads. Note the standard configuration of pinholes specific to the brand/model aggregate. Can be modified as needed.

D	B	d	Pinholes	# of Teeth	Grind	Machine	Part-No.
100mm	3.2mm	30mm	-	20	F	Weeke	2062.100.30
120mm	3.2mm	30mm	4/6/48	24	ATB		2062.120.24
120mm	3.2mm	20mm	3/4.5/35	24	ATB	SCM	2062.121.24
125mm	3.2mm	30mm	4+4/6/48	36	ATB	Weeke	2062.125.32
150mm	3.2mm	30mm	4/6/48	36	ATB		2062.150.36
180mm	3.2mm	30mm	4/6/52	30	ATB	Homag, Weeke	2062.180.30
180mm	3.2mm	30mm	4/6/52	42	ATB	Homag, Weeke	2062.180.42
180mm	3.2mm	30mm	4/6/52	56	ATB	Homag, Weeke	2062.180.56
180mm	3.2mm	35mm	1/6/50	30	ATB	Biesse	2062.181.35
220mm	2.8mm	30mm	4/6.5/60	36	ATB	IMA	2062.220.36
250mm	3.2mm	30mm	2/6/42	60	ATB	Homag	2062.250.60
250mm	3.2mm	30mm	2/6/42	60	TCG	Homag	2062.251.60

TCG = Triple Chip Grind, ATB = Alternate Top Grind, F = Flat Top Grind
Other sizes are available on request.



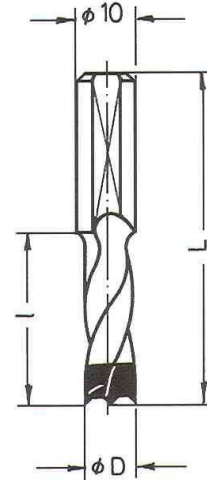
BRAD POINT BITS - CARBIDE TIPPED

6024

Carbide tipped drill bits for blind holes. 10mm shank with height adjustment set screw.
Flat landing on shank.

57mm Overall Length

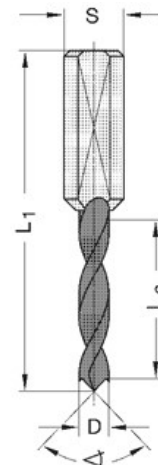
D	L1	L2	Shank	RH	LH
4mm	57mm	27mm	10x30	6024.040.00	6024.040.01
4.76mm (3/16")	57mm	27mm	10x30	6024.476.00	6024.476.01
5mm	57mm	27mm	10 x 30	6024.050.00	6024.050.01
5.1mm	57mm	27mm	10 x 30	6024.051.00	6024.051.01
5.2mm	57mm	27mm	10 x 30	6024.052.00	6024.052.01
5.5mm (7/32")	57mm	27mm	10 x 30	6024.555.00	6024.555.01
6mm	57mm	27mm	10 x 30	6024.060.00	6024.060.01
6.35mm (1/4")	57mm	27mm	10 x 30	6024.635.00	6024.635.01
7mm	57mm	27mm	10 x 30	6024.070.00	6024.070.01
7.14mm (9/32")	57mm	27mm	10 x 30	6024.714.00	6024.714.01
7.5mm	57mm	27mm	10 x 30	6024.075.00	6024.075.01
8mm	57mm	27mm	10 x 30	6024.080.00	6024.080.01
8.2mm	57mm	27mm	10 x 30	6024.082.00	6024.082.01
8.5mm	57mm	27mm	10 x 30	6024.085.00	6024.085.01
9mm	57mm	27mm	10 x 30	6024.090.00	6024.090.01
9.5mm (3/8")	57mm	27mm	10 x 30	6024.953.00	6024.953.01
10mm	57mm	27mm	10 x 30	6024.100.00	6024.100.01
11mm	57mm	27mm	10 x 30	6024.110.00	6024.110.01
11.1mm (7/16")	57mm	27mm	10 x 30	6024.111.00	6024.111.01
12mm	57mm	27mm	10 x 30	6024.120.00	6024.120.01
12.7mm (1/2")	57mm	27mm	10 x 30	6024.127.00	6024.127.01
13mm	57mm	27mm	10 x 30	6024.130.00	6024.130.01
14mm	57mm	27mm	10 x 20	6024.140.00	6024.140.01
15mm	57mm	27mm	10 x 20	6024.150.00	6024.150.01
15.8mm (5/8")	57mm	27mm	10 x 20	6024.158.00	6024.158.01
16mm	57mm	27mm	10 x 20	6024.160.00	6024.160.01



BRAD POINT BITS - SOLID CARBIDE

57mm Overall Length

D	L1	L2	Shank	RH	LH
3mm	57mm	25mm	10 x 30	6024.030.00SC	6024.030.01SC
4mm	57mm	25mm	10 x 30	6024.040.00SC	6024.040.01SC
5mm	57mm	25mm	10 x 30	6024.050.00SC	6024.050.01SC
6mm	57mm	25mm	10 x 30	6024.060.00SC	6024.060.01SC
6.35mm (1/4")	57mm	25mm	10 x 30	6024.635.00SC	6024.635.01SC
7mm	57mm	25mm	10 x 30	6024.070.00SC	6024.070.01SC
8mm	57mm	25mm	10 x 30	6024.080.00SC	6024.080.01SC
10mm	57mm	25mm	10 x 30	6024.100.00SC	6024.100.01SC

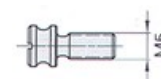


6024

LEITZ QUICK CHANGE ADAPTER SCREW*

Description	Dimensions	Item#
Length Adjusting Screw	M5x17	39075-0-05017-R

*for Weeke

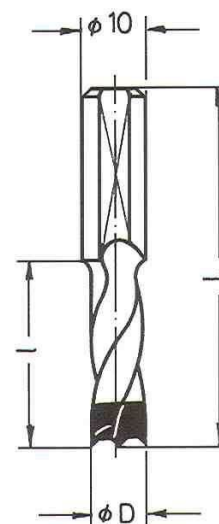


BRAD POINT BITS - CARBIDE TIPPED

Carbide tipped drill bits for blind holes. 10mm shank with height adjustment set screw.
Flat landing on shank.

70mm Overall Length

D	L1	L2	Shank	RH	LH
4mm	70mm	35mm	10 x 30	6024.040.10	6024.040.11
4.5mm	70mm	35mm	10 x 30	6024.045.10	6024.045.11
4.76mm (3/16")	70mm	35mm	10 x 30	6024.476.10	6024.476.11
5mm	70mm	35mm	10 x 30	6024.050.10	6024.050.11
5.1mm	70mm	35mm	10 x 30	6024.051.10	6024.051.11
5.2mm	70mm	35mm	10 x 30	6024.052.10	6024.052.11
5.5mm (7/32")	70mm	35mm	10 x 30	6024.055.10	6024.055.11
6mm	70mm	35mm	10 x 30	6024.060.10	6024.060.11
6.35mm (1/4")	70mm	35mm	10 x 30	6024.635.10	6024.635.11
6.5mm	70mm	35mm	10 x 30	6024.065.10	6024.065.11
6.7mm	70mm	35mm	10 x 30	6024.067.10	6024.067.11
7mm	70mm	35mm	10 x 30	6024.070.10	6024.070.11
7.14mm (9/32")	70mm	35mm	10 x 30	6024.714.10	6024.714.11
7.5mm	70mm	35mm	10 x 30	6024.075.10	6024.075.11
8mm (5/16")	70mm	35mm	10 x 30	6024.080.10	6024.080.11
8.1mm	70mm	35mm	10 x 30	6024.081.10	6024.081.11
8.2mm	70mm	35mm	10 x 30	6024.082.10	6024.082.11
8.5mm	70mm	35mm	10 x 30	6024.085.10	6024.085.11
8.7mm	70mm	35mm	10 x 30	6024.087.10	6024.087.11
9mm	70mm	35mm	10 x 30	6024.090.10	6024.090.11
9.52mm (3/8")	70mm	35mm	10 x 30	6024.953.10	6024.953.11
10mm	70mm	35mm	10 x 30	6024.100.10	6024.100.11
10.4mm	70mm	35mm	10 x 30	6024.104.10	6024.104.11
11mm	70mm	35mm	10 x 30	6024.110.10	6024.110.11
11.1mm (7/16")	70mm	35mm	10 x 30	6024.111.10	6024.111.11
12mm	70mm	35mm	10 x 30	6024.120.10	6024.120.11
12.7mm (1/2")	70mm	35mm	10 x 30	6024.127.10	6024.127.11
13mm	70mm	35mm	10 x 20	6024.130.10	6024.130.11
14mm	70mm	35mm	10 x 20	6024.140.10	6024.140.11
15mm	70mm	35mm	10 x 20	6024.150.10	6024.150.11
15.8 (5/8")	70mm	35mm	10 x 20	6024.158.10	6024.158.11
16mm	70mm	35mm	10 x 20	6024.160.10	6024.160.11
19mm	70mm	35mm	10 x 20	6024.190.10	6024.190.11
20mm	70mm	35mm	10 x 20	6024.200.10	6024.200.11



Recommended feed rate for drill bits:

RPM	Feedrate m/min
3000	1-2
4500	1.5-2.5
6000	2-3.5
9000	2.5-5.5

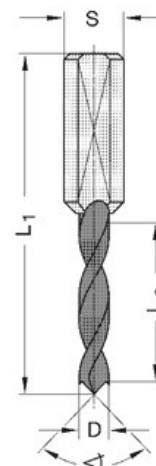
Depending on the material, the feed speed should be fine-tuned within the above parameters.

BRAD POINT BITS - SOLID CARBIDE

70mm Overall Length

D	L1	L2	Shank	RH	LH
3mm	70mm	35mm	10 x 30	6024.030.10SC	6024.030.11SC
4mm	70mm	35mm	10 x 30	6024.040.10SC	6024.040.11SC
5mm	70mm	35mm	10 x 30	6024.050.10SC	6024.050.11SC
6mm	70mm	35mm	10 x 30	6024.060.10SC	6024.060.11SC
6.35mm (1/4")	70mm	35mm	10 x 20	6024.635.10SC	6024.635.11SC
7mm	70mm	35mm	10 x 20	6024.070.10SC	6024.070.11SC
8mm (5/16")	70mm	35mm	10 x 20	6024.080.10SC	6024.080.11SC
10mm	70mm	35mm	10 x 20	6024.100.10SC	6024.100.11SC

Special sizes are available (10 pc minimum quantity).



6024

V-POINT DRILLS - CARBIDE TIPPED

6028

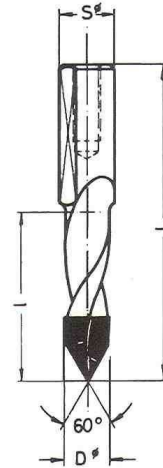
Carbide tipped drill bits for through holes. 10mm shank with height adjustment set screw.
Flat landing on shank.

57mm Overall Length

D	L1	L2	Shank	RH	LH
4mm	57mm	27mm	10 x 24	6028.040.20	6028.040.21
4.76mm (3/16")	57mm	27mm	10 x 24	6028.476.20	6028.476.21
5mm	57mm	27mm	10 x 24	6028.050.20	6028.050.21
5.1mm	57mm	27mm	10 x 24	6028.051.20	6028.051.21
5.55mm (7/32")	57mm	27mm	10 x 24	6028.555.20	6028.555.21
6mm	57mm	27mm	10 x 24	6028.060.20	6028.060.21
6.35mm (1/4")	57mm	27mm	10 x 24	6028.635.20	6028.635.21
8mm	57mm	27mm	10 x 24	6028.080.20	6028.080.21
9.53mm (3/8")	57mm	27mm	10 x 24	6028.953.20	6028.953.21
11.1mm (7/16")	57mm	27mm	10 x 24	6028.111.20	6028.111.21
12mm	57mm	27mm	10 x 24	6028.120.20	6028.120.21
12.7mm (1/2")	57mm	27mm	10 x 24	6028.127.20	6028.127.21

70mm Overall Length

D	L1	L2	Shank	RH	LH
4mm	70mm	35mm	10 x 24	6028.040.30	6028.040.31
4.76mm (3/16")	70mm	35mm	10 x 24	6028.476.30	6028.476.31
5mm	70mm	35mm	10 x 24	6028.050.30	6028.050.31
5.1mm	70mm	35mm	10 x 24	6028.051.30	6028.051.31
5.2mm	70mm	35mm	10 x 24	6028.052.30	6028.052.31
5.5mm	70mm	35mm	10 x 24	6028.055.30	6028.055.31
6mm	70mm	35mm	10 x 24	6028.060.30	6028.060.31
6.5mm	70mm	35mm	10 x 24	6028.065.30	6028.065.31
6.35mm (1/4")	70mm	35mm	10 x 24	6028.635.30	6028.635.31
7mm	70mm	35mm	10 x 24	6028.070.30	6028.070.31
7.14mm (9/32")	70mm	35mm	10 x 24	6028.714.30	6028.714.31
8mm	70mm	35mm	10 x 24	6028.080.30	6028.080.31
8.2mm	70mm	35mm	10 x 24	6028.082.30	6028.082.31
8.5mm	70mm	35mm	10 x 24	6028.085.30	6028.085.31
9mm	70mm	35mm	10 x 24	6028.090.30	6028.090.31
9.53mm (3/8")	70mm	35mm	10 x 24	6028.953.30	6028.953.31
10mm	70mm	35mm	10 x 24	6028.100.30	6028.100.31
10.2mm	70mm	35mm	10 x 24	6028.102.30	6028.102.31
11.1mm (7/16")	70mm	35mm	10 x 24	6028.111.30	6028.111.31
12mm	70mm	35mm	10 x 24	6028.120.30	6028.120.31
12.7mm (1/2")	70mm	35mm	10 x 24	6028.127.30	6028.127.31
15mm	70mm	35mm	10 x 24	6028.150.30	6028.150.31
15.8 (5/8")	70mm	35mm	10 x 24	6028.158.30	6028.158.31



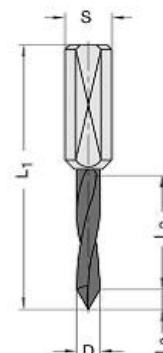
V-POINT DRILL BITS - SOLID CARBIDE

6028

57mm and 70mm Overall Length

D	L1	L2	Shank	RH	LH
3mm	57mm	27mm	10 x 24	6028.030.20SC	6028.030.21SC
4mm	57mm	27mm	10 x 24	6028.040.20SC	6028.040.21SC
5mm	57mm	27mm	10 x 24	6028.050.20SC	6028.050.21SC
3mm	70mm	35mm	10 x 24	6028.030.30SC	6028.030.31SC
4mm	70mm	35mm	10 x 24	6028.040.30SC	6028.040.31SC
5mm	70mm	35mm	10 x 24	6028.050.30SC	6028.050.31SC

Special sizes are available (10 pc minimum quantity).



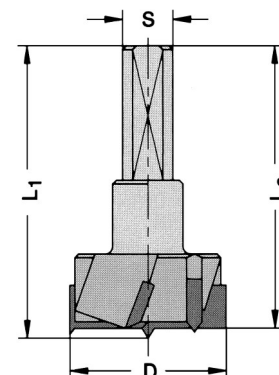
HINGE BORING BITS - CARBIDE TIPPED

6017

Carbide tipped hinge boring bits for hinge hardware. 10mm shank with flat and height adjustment screw. **RPM: 3000-8000**

57mm Overall Length

CED	OAL	Shank	RH	LH
15mm	57mm	10 x 26	6017.150.00	6017.150.01
16mm	57mm	10 x 26	6017.160.00	6017.160.01
18mm	57mm	10 x 26	6017.180.00	6017.180.01
19mm	57mm	10 x 26	6017.190.00	6017.190.01
19.7mm	57mm	10 x 26	6017.197.00	6017.197.01
20mm	57mm	10 x 26	6017.200.00	6017.200.01
22mm	57mm	10 x 26	6017.220.00	6017.220.01
24mm	57mm	10 x 26	6017.240.00	6017.240.01
25mm	57mm	10 x 26	6017.250.00	6017.250.01
26mm	57mm	10 x 26	6017.260.00	6017.260.01
28mm	57mm	10 x 26	6017.280.00	6017.280.01
30mm	57mm	10 x 26	6017.300.00	6017.300.01
32mm	57mm	10 x 26	6017.320.00	6017.320.01
35mm	57mm	10 x 26	6017.350.00	6017.350.01
38mm	57mm	10 x 26	6017.380.00	6017.380.01
40mm	57mm	10 x 26	6017.400.00	6017.400.01



70mm Overall Length

CED	OAL	Shank	RH	LH
15mm	70mm	10 x 26	6017.150.10	6017.150.11
16mm	70mm	10 x 26	6017.160.10	6017.160.11
16.5mm	70mm	10 x 26	6017.165.10	6017.165.11
19mm	70mm	10 x 26	6017.190.10	6017.190.11
19.7mm	70mm	10 x 26	6017.197.10	6017.197.11
20mm	70mm	10 x 26	6017.200.10	6017.200.11
22mm	70mm	10 x 26	6017.220.10	6017.220.11
25mm	70mm	10 x 26	6017.250.10	6017.250.11
26mm	70mm	10 x 26	6017.260.10	6017.260.11
30mm	70mm	10 x 26	6017.300.10	6017.300.11
35mm	70mm	10 x 26	6017.350.10	6017.350.11
40mm	70mm	10 x 26	6017.400.10	6017.400.11

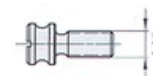
77mm Overall Length

CED	OAL	Shank	RH	LH
20mm	77mm	10 x 26	6017.200.40	6017.200.41
25mm	77mm	10 x 26	6017.250.40	6017.250.41
30mm	77mm	10 x 26	6017.300.40	6017.300.41
35mm	77mm	10 x 26	6017.350.40	6017.350.41

LEITZ QUICK CHANGE ADAPTER SCREW*

Description	Dimensions	Item#
Length Adjusting Screw	M5x17	39075-0-05017-R

*for Weeke

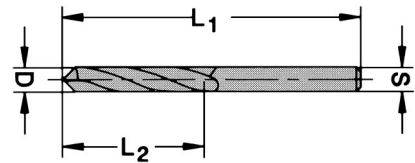


SOLID CARBIDE DRILL BITS

6001

Solid carbide twist drill with parallel shank and center point. For use with drill holder 6003 below.

D	L1	L2	RH	LH
2mm	49mm	18mm	6001.020.00	6001.020.01
2.4mm	55mm	22mm	6001.024.00	6001.024.01
2.5mm	55mm	22mm	6001.025.00	6001.025.01
2.8mm	55mm	22mm	6001.028.00	6001.028.01
3mm	55mm	22mm	6001.030.00	6001.030.01
1/8"	55mm	22mm	6001.032.00	6001.032.01
3.5mm	55mm	25mm	6001.035.00	6001.035.01

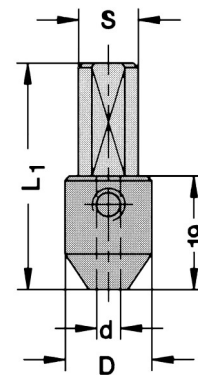


DRILL HOLDER

Holder for solid carbide drills. Shank with flat for use in quick release adapters and reducing chucks. Overall length with drill holder is equivalent to dowel drills of 56/57mm.

d	L1	S	Item#
2mm	40mm	10mm	6003.020.00
2.4mm	40mm	10mm	6003.024.00
2.5mm	40mm	10mm	6003.025.00
2.8mm	40mm	10mm	6003.028.00
3mm	40mm	10mm	6003.030.00
1/8"	40mm	10mm	6003.032.00
3.5mm	40mm	10mm	6003.035.00

6003

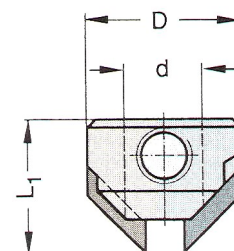


TCT COUNTERSINK

For use with dowel and v-point drills. Countersink clamps on the spiral portion of the drill bit.

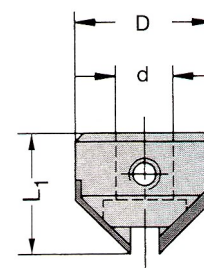
d	D	RH	LH
4mm	20mm	6030.040.00	6030.040.01
5mm	20mm	6030.050.00	6030.050.01
6mm	20mm	6030.060.00	6030.060.01
1/4"	20mm	6030.635.00	6030.635.01
7mm	20mm	6030.070.00	6030.070.01
8mm	25mm	6030.080.00	6030.080.01
9mm	25mm	6030.090.00	6030.090.01
10mm	25mm	6030.100.00	6030.100.01
12mm	25mm	6030.120.00	6030.120.01

6030/6034



For use with dowel and v-point drills. Countersink clamps on the shank of the drill bit.

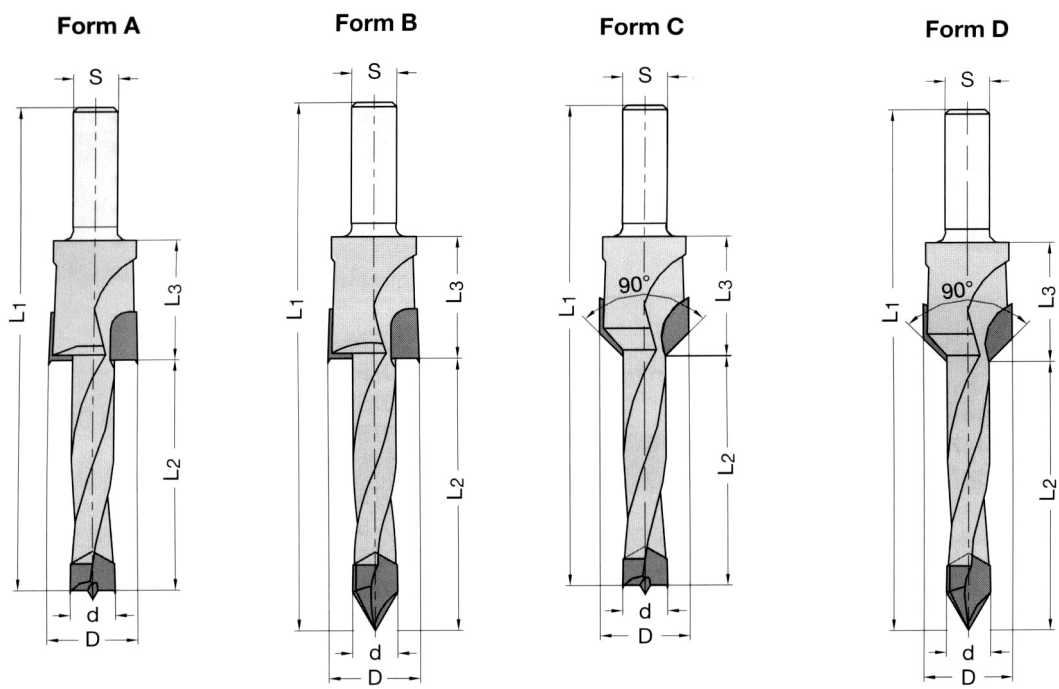
d	D	For Drills	RH	LH
5-10mm	20mm	5-10mm	6034.010.00	6034.010.01
11-12mm	22mm	11 and 12mm	6034.020.00	6034.020.01



CUSTOM COUNTERBORE / COUNTERSINK BITS

6012

Custom Counterbore and Countersink bits are manufactured to customer specification. A minimum quantity of 6 pcs (same size) is required. To request a quotation simply provide quantity, style (Form A, B, C or D) and L1, L2, L3, d, D and S dimensions required and indicate whether carbide tipped or polycrystalline diamond tipped is required.



DRILL BIT ADAPTER FOR CNC COLLET

6381

Using a drill bit with a flat set-screw land on the shank in a CNC collet can create runout, wobble or oval holes! This adapter has a cylindrical 10mm shank (no flat land) that fits snug into a 10mm collet, while the drill bit is secured into the adapter with set screws.

d/D	Shank	Overall Length	LH
10mm/19mm	10mm	55mm	6381.250.00

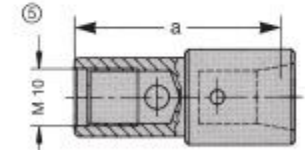
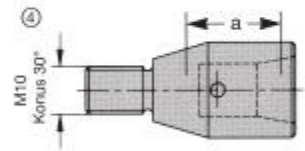
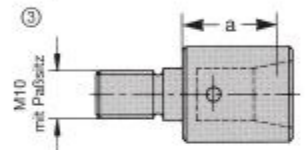
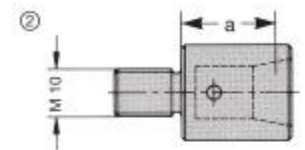
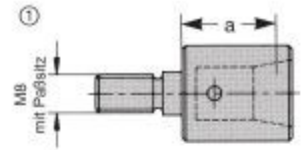
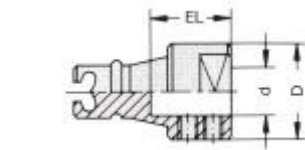


QUICK CHANGE ADAPTER

6042/6043

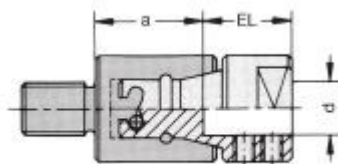
For converting multi-spindle boring machines from using threaded-shank boring bits to standard boring bits with 10mm shanks. Consisting of two parts, the machine adapter and the drill holder offers quick and easy tool changes.

Drill Holder	Part#
Fits all adapters below	6042.000.10



Machine Adapter	Style	RH	LH
Nottmeyer (new) Breda	1	6043.010.10	6043.010.11
Ayen, Holzma, Mayer, Torwegge etc.	2	6043.002.10	6043.002.11
Biesse, Morbidelli, Torwegge, Weeke	3	6043.009.10	6043.009.11
Alberti, Balestrini, Bilek, Schleicher, Vitap	4	6043.004.10	6043.004.11
Scheer	5	6043.100.10	6043.100.11

This two-piece design, consisting of machine adapter and drill holder which are both coned for increased concentricity and improved quality of drill holes. Quick release design. Includes two clamping screws for drill bits. This system accepts the standard metric drill bits that have a 10mm shank with a flat land for set screw positioning.



QUICK CHANGE ADAPTER

6050



Biesse
6050.003.10 (37mm)
6050.003.30 (30mm)



Maggi/Griggio/Masterwood
6050.012.10



Vitap
6050.011.10



Morbidelli
6050.008.10



Busellato
6050.007.10

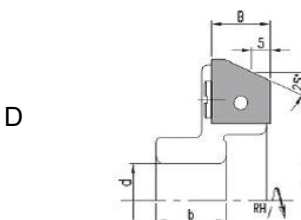
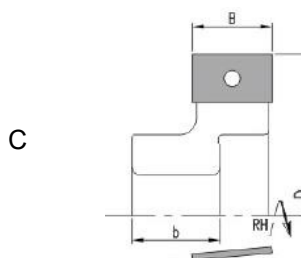
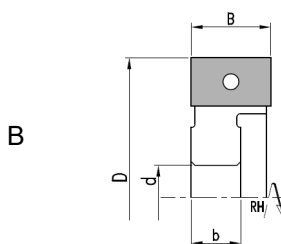
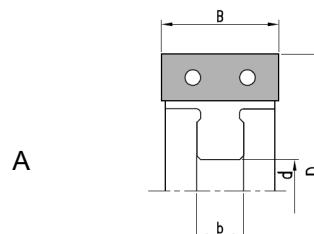


Weeke
6050.006.10

STRAIGHT INSERT TRIMMING CUTTERS

4048

D	B / b	d	Z	Style	Rotation	Insert	DKN	Part-No.
Biesse								
70mm	20/22mm	20mm	6	C	RH	5	6x2.8	4048.510.03
70mm	20/22mm	20mm	6	C	LH	5	6x2.8	4048.520.03
80mm	20/22mm	20mm	6	C	RH	5	6x2.8	4048.511.03
80mm	20/22mm	20mm	6	C	LH	5	6x2.8	4048.521.03
80mm	30/22mm	20mm	6	C	RH	6	6x2.8	4048.512.03
80mm	30/22mm	20mm	6	C	LH	6	6x2.8	4048.522.03
70mm	16/19mm	16mm	6	D	RH	4	5x2.3	4048.513.03
70mm	16/19mm	16mm	6	D	LH	4	5x2.3	4048.523.03
Brandt								
70mm	12/10mm	16mm	4	A	Both	1	5x2.3	4048.301.02
70mm	12/10mm	16mm	6	A	Both	1	5x2.3	4048.302.02
70mm	20/12.5mm	20mm	4	B	RH	5	6x3.5	4048.301.03
70mm	20/12.5mm	20mm	4	B	LH	5	6x3.5	4048.302.03
70mm	20/12.5mm	20mm	6	B	RH	5	6x3.5	4048.303.03
70mm	20/12.5mm	20mm	6	B	LH	5	6x3.5	4048.304.03
Fraval								
70mm	20/11.5mm	20mm	6	B	RH	5	6x3.5	4048.311.03
70mm	20/11.5mm	20mm	6	B	LH	5	6x3.5	4048.310.03
80mm	30/25.5mm	20mm	6	B	RH	6	6x3.5	4048.313.03
80mm	30/25.5mm	20mm	6	B	LH	6	6x3.5	4048.312.03
HolzHer								
50mm	12/10mm	16mm	2	A	Both	1	5x2.3	4048.101.02
50mm	15/10mm	16mm	2	A	Both	3	5x2.3	4048.102.02
70mm	20/11mm	20mm	4	A	Both	5	6x3.5	4048.309.02
80mm	40/25mm	30mm	4	A	Both	7	6x3.5	4048.502.02
Homag/IMA/Raimann								
50mm	12/10mm	16mm	2	A	Both	1	5x2.3	4048.101.02
50mm	15/10mm	16mm	2	A	Both	3	5x2.3	4048.102.02
70mm	12/10mm	16mm	4	A	Both	1	5x2.3	4048.301.02
70mm	12/10mm	16mm	6	A	Both	1	5x2.3	4048.302.02
70mm	20/10mm	16mm	6	A	Both	5	6x3.5	4048.307.02
70mm	20/11mm	20mm	4	A	Both	5	6x3.5	4048.309.02
70mm	20/11mm	16mm	4	A	Both	5	5x2.3	4048.306.02
70mm	20/12.5mm	16mm	4	B	RH	5	5x2.3	4048.101.03
70mm	20/12.5mm	16mm	4	B	LH	5	5x2.3	4048.102.03
70mm	20/12.5mm	20mm	4	B	RH	5	6x3.5	4048.301.03
70mm	20/12.5mm	20mm	4	B	LH	5	6x3.5	4048.302.03
70mm	20/12.5mm	20mm	6	B	RH	5	6x3.5	4048.303.03
70mm	20/12.5mm	20mm	6	B	LH	5	6x3.5	4048.304.03
IDM								
70mm	12/10mm	16mm	4	A	Both	1	5x2.3	4048.301.02
70mm	12/10mm	16mm	6	A	Both	1	5x2.3	4048.302.02
70mm	20/11mm	16mm	4	A	Both	5	5x2.3	4048.306.02
70mm	20/10mm	16mm	6	A	Both	5	6x3.5	4048.307.02
Olimpic								
70mm	20/10mm	16mm	6	A	Both	5	6x3.5	4048.307.02
70mm	30/12mm	16mm	4	A	Both	6	6x3.5	4048.311.02
70mm	40/20mm	16mm	4	A	Both	7	6x3.5	4048.312.02

Maximum RPM 18,000
Other sizes are available on request.
For replacement Inserts see following page.


STRAIGHT INSERT TRIMMING CUTTERS

4048

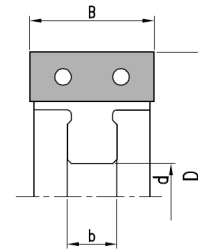
D	B/b	d	Z	Style	Rotation	Insert	DKN	Item-No.
SCM								
48mm	14.6/20mm	16mm	2	E	RH	2	5x2.3	4048.400.03
48mm	14.6/20mm	16mm	2	E	LH	2	5x2.3	4048.401.03
52.8mm	14.6/20mm	16mm	2	F	RH	2	5x2.3	4048.410.03
52.8mm	14.6/20mm	16mm	2	F	LH	2	5x2.3	4048.411.03
72mm	30/12mm	16mm	4	B	RH	6	6x3.5	4048.315.03
72mm	30/12mm	16mm	4	B	LH	6	6x3.5	4048.314.03
Stefani								
70mm	12/10mm	16mm	4	A	Both	1	5x2.3	4048.301.02
70mm	12/10mm	16mm	6	A	Both	1	5x2.3	4048.302.02
70mm	15/10mm	16mm	4	A	Both	3	6x3.5	4048.313.02
72mm	20/11mm	16mm	4	A	Both	5	6x3.5	4048.314.02
72mm	30/12mm	16mm	4	B	RH	6	6x3.5	4048.315.03
72mm	30/12mm	16mm	4	B	LH	6	6x3.5	4048.314.03
75mm	20/11mm	16mm	4	A	Both	5	6x3.5	4048.401.02
75mm	30/11mm	16mm	4	A	Both	6	6x3.5	4048.402.02
80mm	20/11mm	16mm	4	A	Both	5	5x2.3	4048.503.02
80mm	30/11mm	16mm	4	A	Both	6	5x2.3	4048.504.02

Maximum RPM 18,000

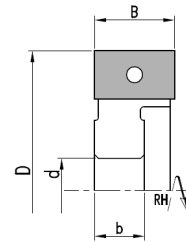
Other sizes are available on request.



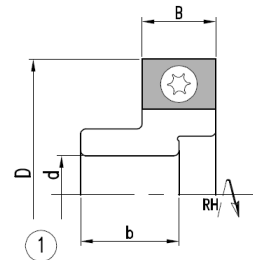
A



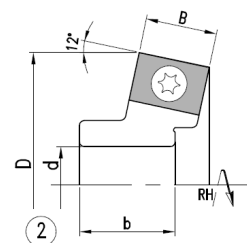
B



E



F



REPLACEMENT INSERTS

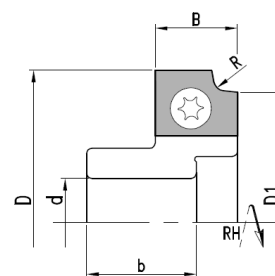
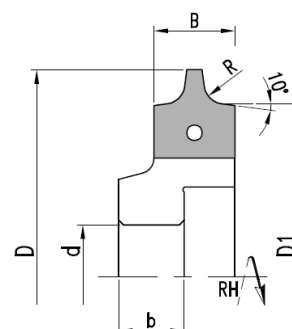
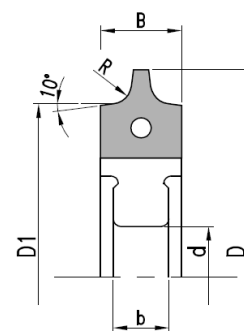
Please refer to the corresponding "Insert" designation in the preceding tables to identify the correct insert for respective cutters.

Dimensions	Insert	Item-No.
12x12x1.5mm	1	4200.012.00
14.6x9x1.5mm	2	4200.146.09
15x12x1.5mm	3	4200.015.00
16x17.5x2mm	4	4200.016.17
20x12x1.5mm	5	4200.020.00
30x12x1.5mm	6	4200.030.00
40x12x1.5mm	7	4200.040.00

RADIUS INSERT TRIMMING CUTTERS

4047

D	D1	B/b	d	DKN	Style	R	Z	Part-No.
Homag								
73mm	61mm	16/11mm	16mm	5x2.3	A	2	3	4047.102.56
	61mm	16/11mm	16mm	5x2.3	A	3	3	4047.103.56
HolzHer								
73mm	61mm	16/11mm	20mm	6x3.5	A	2	3	4047.202.56
	61mm	16/11mm	20mm	6x3.5	A	3	3	4047.203.56
IDM								
73.3mm	61.3mm	16/10mm	16mm	5x2.3	A	2	3	4047.306.56
	61.3mm	16/10mm	16mm	5x2.3	A	3	3	4047.307.56
IMA								
82mm	70mm	16/11mm	20mm	6x3.5	A	2	4	4047.302.56
	70mm	16/11mm	20mm	6x3.5	A	3	4	4047.303.56



Replacement inserts: Item# 765.101 16x17.5x2 (R2)
Item# 765.102 16x17.5x2 (R3)

D	D1	B/b	d	DKN	R	Z	Rot.	Part-No.
IMA								
82mm	70mm	16/13mm	20mm	6x3.5	2	4	RH	4047.102.57
	70mm	16/13mm	20mm	6x3.5	2	4	LH	4047.103.57
	70mm	16/13mm	20mm	6x3.5	3	4	RH	4047.104.57
	70mm	16/13mm	20mm	6x3.5	3	4	LH	4047.105.57

Replacement inserts: Item# 765.101 16x17.5x2 (R2)
Item# 765.102 16x17.5x2 (R3)

D	D1	B/b	d	DKN	R	Z	Rot.	Part-No.
SCM								
55.5mm	47.5mm	15/20mm	16mm	5x2.3	1	2	RH	4047.200.57
	47.5mm	15/20mm	16mm	5x2.3	1	2	LH	4047.210.57
	47.5mm	15/20mm	16mm	5x2.3	1.5	2	RH	4047.201.57
	47.5mm	15/20mm	16mm	5x2.3	1.5	2	LH	4047.211.57
	47.5mm	15/20mm	16mm	5x2.3	2	2	RH	4047.202.57
	47.5mm	15/20mm	16mm	5x2.3	2	2	LH	4047.212.57
	47.5mm	15/20mm	16mm	5x2.3	2.5	2	RH	4047.203.57
	47.5mm	15/20mm	16mm	5x2.3	2.5	2	LH	4047.213.57
	47.5mm	15/20mm	16mm	5x2.3	3	2	RH	4047.204.57
	47.5mm	15/20mm	16mm	5x2.3	3	2	LH	4047.214.57

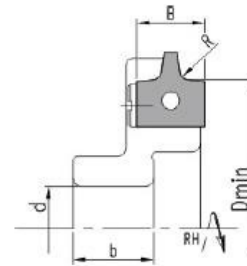
Replacement inserts: Item# 765.250LH/765.260RH 15x12x1.5 (R1)
Item# 765.251LH/765.261RH 15x12x1.5 (R1.5)
Item# 765.252LH/765.262RH 15x12x1.5 (R2)
Item# 765.253LH/765.263RH 15x12x1.5 (R2.5)
Item# 765.254LH/765.264RH 15x12x1.5 (R3)

RADIUS INSERT TRIMMING CUTTERS

4047

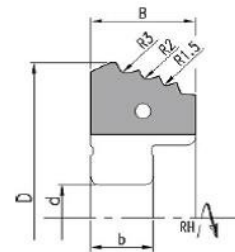
D	D1	B/b	d	DKN	R	Z	Rot.	Part-No.
Biesse								
70mm	62mm	16/19mm	16mm	5x2.3	2	4	RH	4047.302.57
	62mm	16/19mm	16mm	5x2.3	2	4	LH	4047.303.57
	62mm	16/19mm	16mm	5x2.3	3	4	RH	4047.304.57
	62mm	16/19mm	16mm	5x2.3	3	4	LH	4047.305.57

Replacement inserts: 3401E0201 (765.2 (R2)
3401E0202 (R3)



D	D1	B/b	d	DKN	R	Z	Rot.	Part-No.
Biesse								
75mm	25mm	20mm	6x3.5	1.5/2/3	4		RH	4047.310.57
	25mm	20mm	6x3.5	1.5/2/3	4		LH	4047.311.57

Replacement inserts: Item# 765.101 16x17.5x2 (R2)
Item# 765.102 16x17.5x2 (R3)



HSK-25R STRAIGHT INSERT TRIMMER

4049

Straight Cutter with 4-sided carbide inserts

D	B/b	d	Z	Part-No. RH	Part-No. LH
Homag/IMA					
70mm	14.3/23mm	HSK25R	4	4049.101.99	4049.102.99

Replacement inserts: 4200.143.14

Straight Cutter with shear, uses 2-sided carbide inserts.

D	B/b	d	Z	Part-No. RH	Part-No. LH
Homag/IMA					
70mm	24mm	HSK25R	4	4049.101.98	4049.102.98

Replacement inserts: 4200.247.12

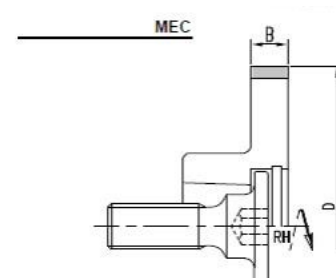
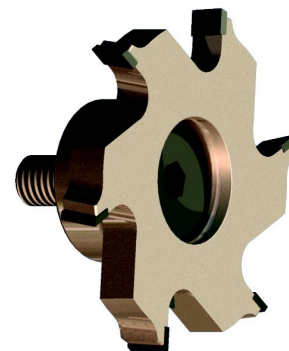


HSK-25R STRAIGHT DIAMOND TRIMMER

4949

Polycrystalline Diamond (PCD) straight trimming cutter

D	B/b	d	Z	Part-No. RH	Part-No. LH
Homag/IMA					
70mm	8/23mm	HSK25R	4	4949.070.18	4949.070.08
70mm	8/23mm	HSK25R	6	4949.070.28	4949.070.38
70mm	15/23mm	HSK25R	4	4949.070.05	4949.070.15
70mm	15/23mm	HSK25R	6	4949.070.25	4949.070.35



HSK-25R RADIUS INSERT TRIMMER

4049

D	B/b	d	Z	R	Part-No. RH	Part-No. LH
Homag/IMA						
79mm	23mm	HSK25R	4	2	4049.101.86	4049.102.86
79mm	23mm	HSK25R	4	3	4049.103.86	4049.104.86

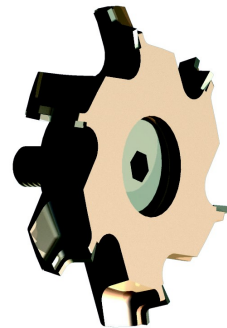


HSK-25R RADIUS DIAMOND TRIMMER

Polycrystalline Diamond (PCD) radius trimming cutter

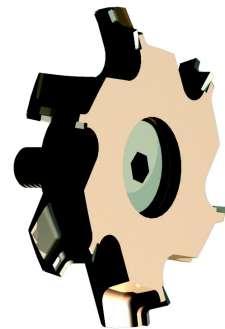
4949

D	B/b	d	Z	R	Part-No. RH	Part-No. LH
Homag/IMA						
79	23	HSK25R	4	1	4949.101.97	4949.001.97
79	23	HSK25R	4	2	4949.102.97	4949.002.97
79	23	HSK25R	6	2	4949.202.97	4949.302.97
79	23	HSK25R	4	3	4949.103.97	4949.003.97
79	23	HSK25R	6	3	4949.203.97	4949.303.97



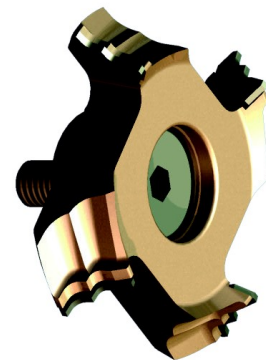
HSK-32 RADIUS DIAMOND (PCD) TRIMMER

D	d	Z	R	Part-No. RH	Part-No. LH
Homag/IMA					
75	HSK32	4	1	4949.101.96	4949.001.96
75	HSK32	4	2	4949.102.96	4949.002.96
75	HSK32	6	2	4949.202.96	4949.302.96
75	HSK32	4	3	4949.103.96	4949.003.96
75	HSK32	6	3	4949.203.96	4949.303.96



HSK-25R MULTI-RADIUS PCD TRIMMER

D	d	Z	R	Part-No. RH	Part-No. LH
Homag/IMA					
85	HSK25R	4	2/3	4949.104.97	4949.004.97
85	HSK25R	6	2/3	4949.106.97	4949.006.98



DIAMOND PREMILL CUTTERS

Diameter	Width	Bore	Keyway	Wings	Item No. RH	Item No. LH
Biesse						
80mm	48/25mm	20mm	6.5x3.5	2+2	7809.148.20	7809.048.20
80mm	65/53mm	30mm	8x3.3	3+3	3401E0225	3401E0225
80mm	65/53mm	30mm	8x3.3	2+2	3401A0412	3401A0412
80mm	75/53mm	30mm	8x3.3	3+3	3401E0224	3401E0224
100mm	30/75mm	30mm	8x3.3	4+4	3401E0131	3401E0131
100mm	45/75mm	30mm	8x3.3	4+4	3401E0148	3401E0148
100mm	65/75mm	30mm	8x3.3	3+3	3401E0136	3401E0136
100mm	70mm	30mm	8x3.3	3+3	3401E0128	3401E0128
125mm	42/47mm	30mm	8x3	3+3	3401N0226	3401N0226
125mm	63mm	30mm	8x3	3+3	3401N0227	3401N0227
125mm	64/49mm	30mm	8x3.2	3+3	CSEN350087	CSEN350087
SCM						
50mm	59mm	16mm		3+3	0533720822G	0533720822G
80mm	27-52mm	30mm		3+3+3+3	99-003061-2488	99-003061-2488
80mm	65/67mm	30mm	8x3	3+3	0756021096C	0756021096C
100mm	49mm	30mm		3+3	99-003062-2488	99-003062-2488
100mm	49mm	30mm		2+2	0777160010D	0777160009C
100mm	64/40.6mm	30mm	8x3	3+3	0777160001E	0777160001E
Cehisa						
100mm	50/25mm	20mm	6x3	2	7809.100.150	7809.100.050
Brandt - IMA						
100mm	34/34mm	30mm	8x3	3+3	7809.100.134	7809.100.034
100mm	44.5/40.6mm	30mm	8x3	3+3	7809.100.143	7809.100.043
100mm	63mm	30mm	8x3	3+3	7809.100.163	7809.100.063
IMA						
125mm	34/34mm	30mm	8x3	3(x3)	7809.125.134	7809.125.034
125mm	43/42mm	30mm	8x3	3(x4)	7809.125.143	7809.125.043
125mm	63/42mm	30mm	8x3	3(x6)	7809.125.163	7809.125.063
Griggio						
80mm	65/25mm	20mm	6.5x3.5	2+2	7809.080.465	7809.080.365
HolzHer						
70mm	48mm	30mm	8x3	2+2	7809.070.148	7809.070.048
70mm	54/31mm	30mm	8x3	2+2	7809.070.154	7809.070.054
70mm	64/39mm	30mm	8x3	2+2	7809.070.164	7809.070.064
100mm	48/25mm	30mm	8x3	2+2	7809.100.148	7809.100.048
100mm	63/25mm	30mm	8x3	3+3	7809.100.163	7809.100.063
Homag						
125mm	34/36mm	30mm	8x3	3 (x2)	7809.125.234	7809.125.234
125mm	63/40mm	30mm	8x3	3(x6)	7809.125.263	7809.125.263
180mm	43/58.5mm	35mm	10x3.3	4(x4)	7809.180.143	7809.180.043
180mm	63/58.5mm	35mm	10x3.3	4(x4)	7809.180.163	7809.180.063



**WE SHARPEN
ALL DIAMOND
PREMILL
CUTTERS**

**FAST
TURNAROUND
GUARANTEED**



INSERT DIAMOND PREMILL CUTTERS

Edgebander Premill Cutter with replaceable, resharpenable Diamond (PCD) Insert tips. Tool body is aluminum construction. Replacement tips also fit select Leitz Whispercut premill models.

Diameter	Width	Bore	Keyway	Wings	Machine	Item No. RH
80mm	64mm	30mm	8x3	3+3	Biesse	4.893.080.64
100mm	48mm	30mm	8x3	3+3	IMA/Brandt/Stefani	4.893.100.48
125mm	34mm	30mm	8x3	3+3	Homag	4.893.125.34
125mm	64mm	30mm	8x3	3+3	Homag	4.893.125.64

Replacement inserts: 91052-G PCD Inserts

BIESSE RADIUS INSERTS

Width	Height	Thickness	R	Style	Item No. RH	Item No. LH
25mm	19.6mm	2mm	1.5/2/3	B	3402N0036	3402N0035
35mm	18mm	2mm	1/1.5	C	3402N0159	3402N0160
35mm	18mm	2mm	2/3	C	3402N0167	3402N0168
35mm	16.9mm	2mm	1.5/3	C	CSEN700030	CSEN700029
35mm	16.9mm	2mm	2/3	C	CSEN700031	CSEN700032
35mm	16.9mm	2mm	2/3	C	3402A0099	3402A0100
40mm	17mm	2mm	2/3	C	3402E0018	3402E0019
40mm	17mm	2mm	2	C	3402N0140	3402N0143
40mm	17mm	2mm	3	C	3402N0139	3402N0142
20mm	8mm	1.5mm	2	D	3401E0041	3401E0041
20mm	8mm	1.5mm	3	D	3401E0020	3401E0020
20mm	17.4mm	2mm	1	W	3401E0073	3401E0073
20mm	17.4mm	2mm	1.5	W	3401E0092	3401E0092
20mm	17.4mm	2mm	2	W	3401E0040	3401E0040
20mm	10mm	2mm	3	D	3401E0020	3401E0020
20mm	16.2mm	2mm	2	D	3402N0125	3401N0125
20mm	16.2mm	2mm	3	W	3401E0018	3401E0018
20mm	16.2mm	2mm	3	W	3402N0126	3402N0126
16mm	16.5mm	2mm	1	D	3402A0087	3402A0087
15.92mm	17.29mm	2mm	2	D	3401E0011	3401E0011
16mm	16.5mm	2mm	2	D	3402A0084	3402A0084
16mm	17mm	2mm	2	D	3401E0201	3401E0201
15.92mm	17.29mm	2mm	3	D	3401E0012	3401E0012
16mm	16.5mm	2mm	3	D	3402A0085	3402A0085
16mm	17.5mm	2mm	3	D	3402N0002	3402N0002
16mm	17mm	2mm	3	D	3401E0202	3401E0202
22.86mm	22.86mm	2.5mm	Triangle	F	3401E0117	
12.7mm	12.7mm	3.18mm	1	G	3402N0056	3402N0056
12.7mm	12.7mm	3.18mm	1.5	G	3402N0055	3402N0055
12.7mm	12.7mm	3.18mm	1.5	G	3402E0017	3402E0017
12.7mm	12.7mm	3.18mm	1.5/1.5	G	3402E0008	3402E0008
12.7mm	12.7mm	3.18mm	2	G	3402E0016	3402E0016
12.7mm	12.7mm	3.18mm	2	G	3402N0054	3402N0054
12.7mm	12.7mm	3.18mm	2/2	G	3402E0003	3402E0003
12.7mm	12.7mm	3.18mm	3	G	3402E0004	3402E0004
12.7mm	12.7mm	3.18mm	3	G	3402N0053	3402N0053
12.7mm	12.7mm	3.18mm	25 deg	G	3402N0097	3402N0097
14.13mm	11mm	3mm	1	G	3402A0124	3402A0124
13.90mm	11mm	3mm	1.5	G	3402A0125	3402A0125
13.67mm	11mm	3mm	2	G	3402A0126	3402A0126
13.21mm	11mm	3mm	3	G	3402A0082	3402A0082
20mm	20mm	2mm	2	4xR	3401E0042	3401E0042
34mm	12.7mm	3mm	1.5/2/3/Bevel	H	CSEN750002	CSEN750002
34mm	12.7mm	3mm	1.5/2/3/Bevel	H	3402N0026	3402N0026

Images are **not to scale** and only serve to identify the general shape of an insert. **Final determination of correct insert is confirmed when ordered.**

Style B



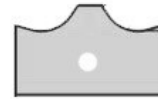
Style C



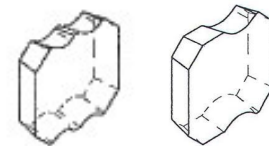
Style D



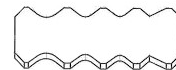
Style W



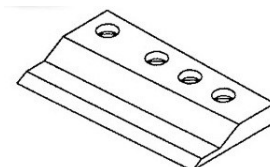
Style G



Style H



Style F



BIESSE HSS GUILLOTINE / MOBILE KNIFE

Width	Height	Thickness	Item No.
90mm	49.5mm	9mm	E0814E0401

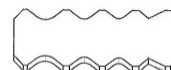
HOLZHER RADIUS INSERTS

Style	Item No. RH	Item No. LH
Form 1 (mod.Style H)	209.8172	209.8121
Form 8 (mod.Style H)	209.8741	209.8709
Form 11 (mod.Style H)	209.9063	209.9071
Form 20 (md. Style H)	209.8172	209.8121

Width	Height	Thickness	R	Style	Item No. RH	Item No. LH
12mm	12mm	1.5mm	3	N	4202.012.14	4202.012.15
16mm	17.5mm	2mm	2	D	4107.016.02	4107.016.02
16mm	17.5mm	2mm	3	D	4107.016.03	4107.016.03
19.6mm	15.2mm	2mm	3	N	4202.196.14	4202.196.15
20mm	12mm	1.5mm	2	P	4108.020.02	Scraping
20mm	12mm	1.5mm	3	P	4108.020.03	Scraping

Images are **not to scale** and serve only to identify the general shape of an insert. **Final determination of correct insert is confirmed when ordered.**

Style H



Style L



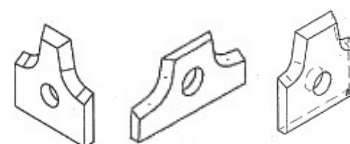
SCM RADIUS INSERTS

Width	Height	Thickness	R	Style	Item No. RH	Item No. LH
30mm	12mm	1.5mm	2	L	0333724141B	0333724140L
15mm	12mm	1.5mm	3	L	0333724139H	0333724138F
15mm	12mm	1.5mm	2	L	0367140072A	0367140073C
15mm	12mm	1.5mm	3	L	0367140069E	0367140071H
16mm	13mm	2mm	1.5	D	0738160125F	0738160125F
16mm	13mm	2mm	2	D	0738160127A	0738160127A
16mm	14mm	2mm	3	D	0738160129E	0738160129E
16mm	14.2mm	2mm	2	W	0369806413E	0369806413E
16mm	14.4mm	2mm	1.5	W	0369806411A	0369806411A
16mm	14.4mm	2mm	2	W	0369924071B	0369924071B
16mm	14.4mm	2mm	3	W	0369924076C	0369924076C
16mm	14.4mm	2mm	3	W	0369924555L	0369924555L
16mm	17.5mm	2mm	1.5	D	0757901216F	0757901216F
16mm	17.5mm	2mm	2	D	0757900911L	0757900911L
16mm	17.5mm	2mm	3	D	0357901207H	0357901207H
16mm	14.4mm	2mm	R1.5/Flat	W	0369924625H	0369924625H
16mm	14.4mm	2mm	R2/Flat	W	0369924564H	0369924564H
20mm	14.4mm	2mm	R3/Flat	W	0369934669B	0369934669B
20mm	12mm	1.5mm	3	L	0356218776E	0356218776D
30mm	12mm	1.5mm			99-005161-0578	Glue scraper
12.7mm	12.7mm	3.18mm	1	G	0375150359L	SCRAPE
12.7mm	12.7mm	3.18mm	1.5	G	0337424621F	SCRAPE
12.7mm	12.7mm	3.18mm	2	G	0337424622H	SCRAPE
12.7mm	12.7mm	3.18mm	3	G	0337424601D	SCRAPE

Style N



Style D



Style W



Style G



Style P



BRANDT RADIUS INSERTS

Width	Height	Thickness	R	Style	Item No. RH	Item No. LH
12mm	14.5mm	2mm	3	N	4202.012.14	4202.012.15
15mm	14.5mm	2mm	2	N	4202.015.13	4202.015.12
15mm	14.5mm	2mm	3	N	4202.015.14	4202.015.15
19.6mm	15.2mm	2mm	3	N	4202.196.14	4202.196.15
20.5mm	14mm	2mm	2	S	4202.124.02	4202.124.03
20.5mm	14mm	2mm	3	S	4202.124.00	4202.124.01
20mm	12mm	2mm	2	P	4108.020.02	Scraping
20mm	12mm	2mm	3	P	4108.020.03	Scraping

Style S



FRAVOL RADIUS INSERTS

Width	Height	Thickness	R	Style	Item No. RH	Item No. LH
16mm	17.5mm	2mm	2	M	102.0015	102.0016
16mm	17.5mm	2mm	3	M	102.0014	102.0013
16mm	17.5mm	2mm	2	S	102.0022	102.0023
16mm	17.5mm	2mm	3	S	102.0011	102.0012

Style M



Style S



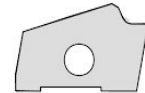
HOMAG/IMA/IDM RADIUS INSERTS

Width	Height	Thickness	R	Style	Item No. RH	Item No. LH
16mm	17.5mm	2mm	2	D	4202.016.02	4202.016.02
16mm	17.5mm	2mm	3	D	4202.016.03	4202.016.03
20.5mm	14mm	2mm	2	S	4202.124.02	4202.124.03
20.5mm	14mm	2mm	3	S	4202.124.00	4202.124.01
20mm	12mm	1.5mm	2	P	4108.020.02	Scraping
20mm	12mm	1.5mm	3	P	4108.020.03	Scraping

Style D



Style S



Style P



Style N



CEHISA RADIUS INSERTS

Width	Height	Thickness	R	Style	Item No. RH	Item No. LH
20mm	16mm	2mm	3	N	4202.020.03R	4202.020.03L

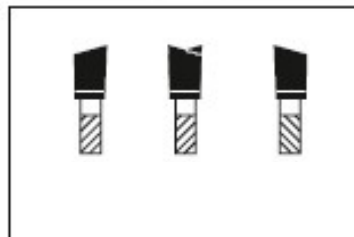
UNIVERSAL STRAIGHT TRIMMER INSERTS

Width (B)	Height	Thickness	R	Item No.
12mm	12mm	1.5mm	Various	4200.012.00
12mm	12mm	1.5mm	SCM	T1030
14.3mm	14.3mm	2.5mm	Various	4200.143.14
14.6mm	9mm	1.5mm	SCM	99-146920-0659
15mm	12mm	1.5mm	Various	4200.015.00
15mm	12mm	1.5mm	SCM	0369924734L
20mm	12mm	1.5mm	Biesse	3402N0040
20mm	12mm	1.5mm	Biesse	3401E0066
20mm	12mm	1.5mm	Various	4200.020.00
20mm	12mm	1.5mm	SCM	T4032
25mm	12mm	1.5mm	Biesse	3402N0127
30mm	12mm	1.5mm	Biesse	3402N0011
30mm	12mm	1.5mm	Various	4200.030.00
30mm	12mm	1.5mm	SCM	T4033
40mm	12mm	1.5mm	Various	4200.040.00
50mm	12mm	1.5mm	Various	4200.050.00



Looking for an oddball size? We routinely manufacture insert knives to customer specifications!

CARBIDE-TIPPED END TRIM BLADES



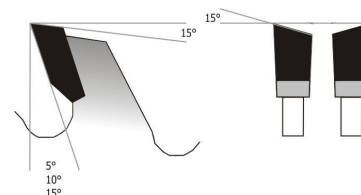
D	Kerf	Bore	Pinholes	Z	Tooth Style	Item No. RH	Item No. LH
Biesse							
115mm	3.2mm	52mm	3 C/S	30	pos. single bevel	3402E0007	3402E0002
115mm	3.2mm	56mm	3 C/S	30	pos. single bevel	3402E0009	3402E0010
120mm	3.6mm	40mm	4 C/S	16+4	pos. single bevel	3401N0209	3401N0210
130mm	3.6mm	30mm	4 C/S	20+4	pos. single bevel	3401N0302	3401N0303
130mm	3.6mm	30mm	4	20	pos. alternate bevel	3401N0301	3401N0301
140mm	3.6mm	30mm	3+3 C/S	36	pos. alternate bevel	3401N0503	3401N0503
140mm	3.2mm	30mm		36	pos. single bevel	3402E0001	3402E0006
150mm	3.6mm	30mm	3 C/S	36+4		3401E0025	3401A0024
160mm	3.2mm	20mm		48	pos.alternate bevel	3401E0007	3401E0007
SCM/IDM/Stefani							
90mm	3.0mm	30mm		20	pos. single bevel	0356005042L	0356005041G
100mm	2.4mm	30mm		30	pos.alternate bevel	2092.100.30	2092.100.30
100mm	2.4mm	30mm		30	pos.alternate bevel	0533725633B	0533725633B
110mm	3.0mm	32mm		20	pos.alternate bevel	0756020604A	0756020604A
115mm	2.6mm	30mm		30	pos.alternate bevel	0533725662C	0533725662C
125mm	3.2mm	20mm		36	pos. single bevel	0000620052A	0000620053C
125mm	3.2mm	20mm		30	pos. single bevel	2060.125.20	2060.125.21
125mm	3.0mm	30mm		18	pos. single bevel	0356019319E	0356019320F
125mm	4.5mm	30mm		20	pos.alternate bevel	0533750121F	0533750121F
140mm	3.0mm	30mm		16+4	pos. single bevel	0356006524D	0356006523B
150mm	3.2mm	20mm		24	pos. single bevel	0535451820B	0535451821D
150mm	3.2mm	30mm		36	pos. single bevel	0000620065H	0000620066A
150mm	3.2mm	35mm		24+6	pos.single bevel	2060.150.35	2060.151.35
160mm	3.2mm	20mm		24	pos. single bevel	0535451823H	0535451822F
170mm	3.2mm	20mm		36	pos. single bevel	0369924007G	0369924006E
180mm	2.8mm	20mm		40	pos. single bevel	0369804825G	0369804824E
Homag/Brandt							
100mm	3.0mm	32mm		20	pos. single bevel	2060.101.32	2060.100.32
100mm	2.6mm	32mm		30	pos.alternate bevel	2092.100.32	2092.100.32
100mm	3.2mm	22mm		20	pos. single bevel	2060.100.23	2060.100.24
100mm	3.0mm	32mm		20	neg. single bevel	2060.103.32	2060.102.32
100mm	3.6mm	32mm		20	pos.alternate bevel	2060.104.32	2060.104.32
100mm	3.0mm	32mm		30	pos. single bevel	2060.105.32	2060.106.32
110mm	3.6mm	32mm		20	pos.alternate bevel	2060.110.32	2060.110.32
120mm	3.2mm	32mm		24	pos.alternate bevel	2060.120.32	2060.120.32
120mm	3.6mm	40mm		24	pos.alternate bevel	2060.120.40	2060.120.40
HolzHer							
90mm	3.2mm	30mm		20	pos.alternate bevel	2060.090.30	2060.090.30
110mm	3.6mm	22mm		20	pos.alternate bevel	2060.110.22	2060.110.22
120mm	3.2mm	20mm		24	pos.alternate bevel	2060.120.20	2060.120.20
160mm	2.6mm	30mm		24	pos.alternate bevel	2060.160.30	2060.160.30
IMA							
100mm	3.0mm	22mm		20	pos. single bevel	2060.100.22	2060.101.22
150mm	3.5mm	22mm		48	pos.alternate bevel	2060.154.22	2060.154.22
160mm	3.5mm	22mm		48	pos.alternate bevel	2060.160.22	2060.160.22
Cehisa							
100mm	3.0mm	32mm		20	pos. single bevel	2060.100.32	2060.101.32
110mm	3.2mm	32mm		30	pos. single bevel	2060.110.50	2060.110.51

STANDARD CUT-OFF BLADES (FOR TABLE SAWS)

2000A

Universal application for cutting with or across the grain in solid wood and plywood.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
8"	.110"	.070"	5/8"	15°	40	2000.220A40
8"	.110"	.070"	1"	15°	40	2000.221A40
8"	.118"	.078"	5/8"	10°	60	2000.220A60
9"	.128"	.087"	5/8"	10°	60	2000.230A60
10"	.126"	.087"	5/8"	10°	40	2000.250A40
10"	.126"	.087"	1"	15°	40	2000.251A40
10"	.126"	.087"	5/8"	10°	60	2000.250A60
10"	.126"	.087"	1"	10°	60	2000.251A60
10"	.126"	.087"	5/8"	5°	80	2000.250A80
12"	.126"	.087"	1"	15°	48	2000.300A48
12"	.126"	.087"	1"	10°	60	2000.300A60
12"	.126"	.087"	1"	10°	72	2000.300A72
12"	.126"	.087"	1"	5°	100	2000.300A10
14"	.155"	.109"	1"	10°	60	2000.350A60
14"	.150"	.109"	1"	5°	80	2000.350A80
14"	.150"	.109"	1"	5°	100	2000.350A10
16"	.155"	.110"	1"	15°	40	2000.400A40
16"	.155"	.110"	1"	15°	60	2000.400A60
16"	.155"	.110"	1"	15°	80	2000.400A80
18"	.180"	.134"	1"	10°	60	2000.450A60
18"	.180"	.134"	1"	10°	80	2000.450A80

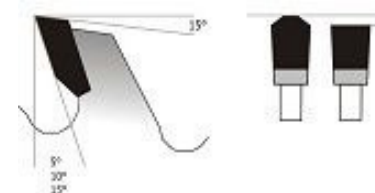


SPECIAL CUT-OFF BLADES (FOR TABLE SAWS)

2000T

For sizing and finishing cuts in plywood, veneer, laminated composite materials such as particleboard and MDF.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
8"	.110"	.070"	5/8"	15°	40	2000.220T40
8"	.110"	.078"	5/8"	10°	60	2000.220T60
10"	.126"	.087"	5/8"	15°	40	2000.250T40
10"	.126"	.087"	5/8"	10°	60	2000.250T60
10"	.126"	.087"	5/8"	5°	80	2000.250T80
12"	.126"	.087"	1"	10°	60	2000.300T60
12"	.126"	.087"	1"	10°	72	2000.300T72
12"	.126"	.087"	1"	5°	100	2000.300T10
14"	.155"	.109"	1"	10°	60	2000.350T60
14"	.137"	.100"	1"	10°	84	2000.350T84
14"	.150"	.109"	1"	5°	100	2000.350T10
16"	.155"	.110"	1"	15°	80	2000.400T80
18"	.180"	.134"	1"	10°	80	2000.450T80
18"	.180"	.134"	1"	10°	100	2000.450T10



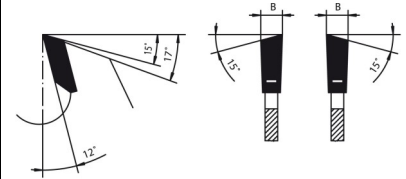
STANDARD CUT-OFF BLADES (FOR SLIDING TABLE SAWS)

2020-2024

Universal application for cutting with or across the grain in solid wood and plywood.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60, KNL = Combination Pinholes 2/10/60 + 2/7/42

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Pinholes	Teeth (Z)	Part-No.
150mm	2.6mm	1.6mm	30mm	12°	-	36	2023.150.30
150mm	2.6mm	1.6mm	30mm	8°	-	48	2024.150.30
180mm	2.6mm	1.6mm	30mm	12°	2/7/42	36	2022.180.30
180mm	2.6mm	1.6mm	30mm	8°	2/7/42	56	2024.180.30
200mm	2.8mm	1.8mm	30mm	8°	2/7/42	64	2024.200.30
250mm	3.2mm	2.2mm	30mm	15°	CNL	30	2020.250.30
250mm	3.2mm	2.2mm	30mm	12°	CNL	42	2121.250.31 (PP)
250mm	3.2mm	2.2mm	30mm	12°	CNL	48	2022.250.30
250mm	3.2mm	2.2mm	30mm	12°	CNL	60	2023.250.30
250mm	3.2mm	2.2mm	30mm	12°	CNL	60	2123.250.31 (PP)
250mm	3.2mm	2.2mm	30mm	8°	CNL	80	2024.250.30
250mm	3.2mm	2.2mm	30mm	8°	CNL	80	2124.250.31 (PP)
280mm	3.2mm	2.2mm	30mm	12°	CNL	48	2021.280.30
280mm	3.2mm	2.2mm	30mm	12°	KNL	68	2023.280.30
300mm	3.2mm	2.2mm	30mm	15°	CNL	36	2020.300.30
300mm	3.2mm	2.2mm	30mm	12°	CNL	48	2021.300.30
300mm	3.2mm	2.2mm	30mm	12°	CNL	48	2121.300.31 (PP)
300mm	3.2mm	2.2mm	30mm	12°	CNL	60	2022.300.30
300mm	3.2mm	2.2mm	30mm	12°	KNL	72	2023.300.30
300mm	3.2mm	2.2mm	30mm	12°	CNL	72	2123.300.31 (PP)
315mm	3.2mm	2.2mm	30mm	12°	CNL	48	2021.315.30
315mm	3.2mm	2.2mm	30mm	12°	CNL	72	2023.315.30
330mm	3.2mm	2.2mm	30mm	8°	2/10/60	100	2024.330.30
350mm	3.5mm	2.5mm	30mm	15°	CNL	42	2020.350.30
350mm	3.5mm	2.5mm	30mm	12°	CNL	54	2021.350.30
350mm	3.5mm	2.5mm	30mm	12°	CNL	54	2121.350.31 (PP)
350mm	3.5mm	2.5mm	30mm	12°	CNL	72	2022.350.30
350mm	3.5mm	2.5mm	30mm	12°	CNL	84	2023.350.30
350mm	3.5mm	2.5mm	30mm	12°	CNL	84	2123.350.31 (PP)
350mm	3.5mm	2.5mm	30mm	8°	CNL	108	2024.350.30
350mm	3.5mm	2.5mm	30mm	8°	CNL	108	2124.350.31 (PP)
400mm	3.5mm	2.5mm	30mm	15°	CNL	48	2020.400.30
400mm	3.5mm	2.5mm	30mm	12°	CNL	60	2021.400.30
400mm	3.5mm	2.5mm	30mm	12°	CNL	84	2022.400.30
400mm	3.5mm	2.5mm	30mm	12°	2/10/60	96	2023.400.30
400mm	3.5mm	2.5mm	30mm	8°	CNL	120	2024.400.30
450mm	4.0mm	2.8mm	30mm	12°	CNL	66	2021.450.30
450mm	4.0mm	2.8mm	30mm	12°	KNL	108	2023.450.30
450mm	4.0mm	2.8mm	30mm	8°	CNL	132	2024.450.30
500mm	4.0mm	2.8mm	30mm	5°	CNL	72	2024.500.31F
500mm	4.0mm	2.8mm	30mm	5°	CNL	144	2024.500.30F
550mm	4.2mm	3.2mm	30mm	5°	CNL	84	2024.550.31F
550mm	4.2mm	3.2mm	30mm	5°	CNL	120	2024.550.30F



(PP) = Piano Plus Version
Extra Quiet Running

SPECIAL CUT-OFF BLADES (FOR SLIDING TABLE SAW)

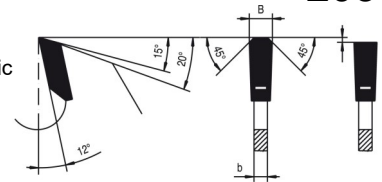
2039

TCT blades for clean cuts in thermoplastic panels up to 10mm thick, phenolic resin bonded paper and phenolic laminated panels up to 6mm thick. Also for clean cuts in veneered or laminated composite materials such as particleboard and MDF, preferably in combination with the use of a scoring blade (see item #2055).

Triple Chip Tooth design and quiet running design with copper plugs.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60, KNL = Combination Pinholes 2/10/60 + 2/7/42

PP = Piano Plus Version is a special plate design for very quiet running blades.



Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Pinholes	Teeth (Z)	Machine	
220mm	3.2mm	2.2mm	30mm	12°	2/7/42	64	HolzHer	2039.220.30
250mm	3.2mm	2.2mm	30mm	12°	CNL	60		2139.250.31 (PP)
250mm	3.2mm	2.2mm	30mm	12°	CNL	80		2039.250.30
280mm	3.2mm	2.2mm	30mm	12°	CNL	60		2039.280.30
300mm	3.2mm	2.2mm	30mm	12°	CNL	72	Altendorf, Lazari,	2039.300.30
300mm	3.2mm	2.2mm	1"	12°	CNL	72	SCM	2000.300T72
303mm	3.2mm	2.2mm	30mm	12°	KNL	60		2139.303.31 (PP)
303mm	3.2mm	2.2mm	30mm	12°	KNL	72		2139.303.32 (PP)
303mm	3.2mm	2.2mm	30mm	12°	KNL	96		2139.303.33 (PP)
305mm	3.2mm	2.2mm	30mm	12°	CNL	60		2039.305.30
305mm	3.2mm	2.2mm	30mm	12°	CNL	96		2039.301.30
350mm	3.4mm	2.4mm	1"	12°	CNL	84	SCM	2000.350T84
350mm	3.5mm	2.4mm	30mm	12°	CNL	84		2139.350.30 (PP)
350mm	3.5mm	2.5mm	30mm	12°	CNL	108		2039.350.30

PANEL SAW BLADES (FOR COMPOSITE WOOD)

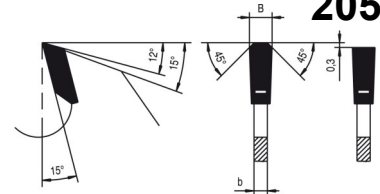
2052

Carbide-tipped, Triple Chip Grind (TCG) for sizing and finishing cuts in laminated composite panels, MDF and particleboard.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/10/60 + 2/7/42

PP = Piano Plus Version is a special plate design for very quiet running blades.



Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Machine	Part-No.
250mm	3.2mm	2.2mm	30mm	60	CNL		2139.250.31 (PP)
280mm	3.2mm	2.2mm	30mm	60	CNL	Panhans	2039.280.30
300mm	4.4mm	3.2mm	75mm	72		Homag Espana	2052.300.76
303mm	3.2mm	2.2mm	30mm	60	CNL	Scheer	2139.303.31 (PP)
303mm	3.2mm	2.2mm	30mm	72	CNL	Scheer	2139.303.32 (PP)
303mm	3.2mm	2.2mm	30mm	96	CNL	Scheer	2139.303.33 (PP)
305mm	3.2mm	2.2mm	30mm	60	CNL	Scheer	2039.305.30
305mm	4.4mm	3.2mm	30mm	60	2/10/60	Mayer, Pnhans, SCM	2052.305.31
320mm	4.4mm	3.2mm	30mm	72	2/9/110+3/13/95	Mayer, Felder	2052.320.30
320mm	4.4mm	3.2mm	50mm	72	2/9/110+3/13/95	Giben	2052.320.50
320mm	4.4mm	3.2mm	65mm	72	2/9/110	Selco	2052.320.65
320mm	4.4mm	3.2mm	75mm	72	2/9/110+3/13/95	Giben	2052.320.75
320mm	4.4mm	3.2mm	80mm	72	2/9/110+3/13/95		2052.320.80
350mm	4.4mm	3.2mm	30mm	72	2/10/60	Mayer, SCM, Scheer, Schelling	2052.350.30
350mm	4.4mm	3.2mm	60mm	72	2/14/100	Holzma HPP 72	2052.350.60
350mm	4.4mm	3.2mm	75mm	54		Giben, Homag Espana	2052.350.76
350mm	4.4mm	3.2mm	75mm	72		Giben, Homag Espana	2052.350.75
350mm	4.4mm	3.2mm	80mm	72	2/7/110+4/8.5/100+2/14/110	Gabbiani, SCM	2052.350.80
355mm	4.4mm	3.2mm	30mm	72	2/10/60+2/14/110+4/9/100+2/9/130	Mayer, SCM, Scheer, Schelling	2152.355.31 (PP)
355mm	4.4mm	3.2mm	75mm	72	2/10/60+2/14/110+4/9/100+2/9/130	Giben, Homag Espana	2152.355.75 (PP)
355mm	4.4mm	3.2mm	80mm	72	2/10/60+2/14/110+4/9/100+2/9/130	Gabbiani, SCM, Selco	2152.355.80 (PP)
360mm	4.4mm	3.2mm	65mm	72	2/9/110+2/9/100	Selco	2052.360.65
370mm	4.4mm	3.2mm	30mm	72	2/10/60	Panhans, Schelling	2052.370.30
380mm	4.4mm	3.2mm	60mm	72	2/14/100	Holzma	2052.380.61
380mm	4.4mm	3.2mm	60mm	72	2/14/100	Holzma	2152.381.61 (PP)
380mm	4.8mm	3.5mm	60mm	72	2/14/100	Holzma	2152.380.62 (PP)
380mm	4.8mm	3.5mm	60mm	72	2/14/100	Holzma	2052.380.60
380mm	4.8mm	3.5mm	60mm	84	2/14/100	Holzma	2052.380.62

2052 PANEL SAW BLADES.....CONTINUED

2052

Diameter	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Machine	Part-No.
380mm	4.4mm	3.2mm	80mm	72	2/14/110	SCM Sigma	2052.380.80
380mm	4.4mm	3.2mm	65mm	72	2/9/110	Selco	2052.380.65F
400mm	4.25mm	3.2mm	30mm	72		Scheer Postforming, Schelling	2052.401.30
400mm	4.25mm	3.2mm	30mm	72		Scheer Postforming, Schelling	2152.401.31 (PP)
400mm	4.4mm	3.2mm	30mm	72	2/11/85	Scheer, Schelling	2052.400.30
400mm	4.4mm	3.2mm	30mm	72		Scheer Schelling	2152.400.31 (PP)
400mm	4.4mm	3.2mm	75mm	72	4/15/105	Giben, Homag Espana	2052.400.75
400mm	4.4mm	3.2mm	80mm	72	2/7/110+4/8.5/100+2/14/110	Gabbiani, SCM	2052.400.80
400mm	4.4mm	3.2mm	80mm	72	2/9/130+4/19/120	Irion, Selco, S.M.A	2052.400.81F
420mm	4.8mm	3.5mm	60mm	72	2/14/125+2/19/120	Holzma	2052.421.60
420mm	4.8mm	3.5mm	60mm	72	2/14/125+2/19/120	Holzma	2152.420.61 (PP)
420mm	4.8mm	3.5mm	60mm	84	2/10/80+2/14/125+2/19/120	Holzma	2052.420.60
430mm	4.4mm	3.2mm	30mm	72			2052.430.30
430mm	4.4mm	3.2mm	75mm	96	4/15/105	Giben	2052.431.75
430mm	4.4mm	3.2mm	80mm	72	2/9/130+4/19/120	Selco, S.M.A	2052.430.80
450mm	4.4mm	3.2mm	30mm	72	2/9/60+4/15/105+4/19/120+2/9/130	Mayer, Panhans, Scheer, Schelling	2052.450.30
450mm	4.4mm	3.2mm	75mm	72	2/9/60+4/15/105+4/19/120+2/9/130	Giben Prisma	2052.450.75
450mm	4.4mm	3.2mm	80mm	96	2/9/130+4/19/120	Irion, Selco, S.M.A	2052.450.81
450mm	4.8mm	3.5mm	60mm	72	2/14/125+2/19/120	Holzma	2052.451.60
460mm	4.4mm	3.2mm	30mm	72	2/13/94+4/15/105	Schelling FH-6	2052.460.30
480mm	4.4mm	3.2mm	30mm	80		Schelling	2052.480.30
480mm	4.4mm	3.2mm	30mm	72	2/19/120+2/9/130	Schelling	2052.480.31
480mm	4.4mm	3.2mm	60mm	72	2/19/120+2/9/130		2052.480.60
480mm	4.4mm	3.2mm	80mm	72	2/19/120+2/9/130+2/11/115		2052.480.80
500mm	4.8mm	3.5mm	60mm	60	1/11/85+2/11/115	Anthon, Holzma	2052.500.60
520mm	4.8mm	3.5mm	30mm	72	2/13/94+2/11/115+2/19/120+4/11/130	Schelling	2052.520.31
520mm	4.8mm	3.5mm	60mm	60	2/11/115+2/19/120	Holzma	2052.520.60
520mm	4.8mm	3.5mm	60mm	72	2/13/94+2/11/115+2/19/120+4/11/130	Holzma	2052.520.61
520mm	4.8mm	3.5mm	70mm	72	2/13/94+2/11/115+2/19/120+4/11/130	Selco	2052.520.71
420mm	4.8mm	3.5mm	75mm	72	2/13/94+2/11/115+2/19/120+4/11/130	Selco	2052.520.76
550mm	5.0mm	3.5mm	80mm	60		S.M.A. Teutomatic	2052.550.80
565mm	5.0mm	3.5mm	100mm	72		Giben	2052.565.10
600mm	5.8mm	4.2mm	60mm	72	2/11/115+2/19/120	Holzma	2052.600.60
720mm	6.4mm	4.4mm	40mm	60		Schelling	2052.720.40

PANEL SAW BLADES (FOR SOLID WOOD)

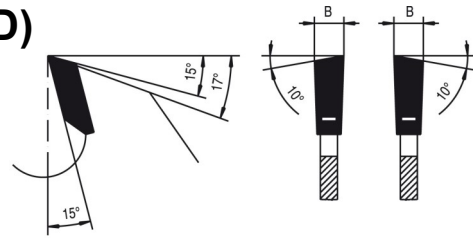
Carbide-tipped, Alternate Top Grind (ATB) for sizing and finishing cuts in wood and plywood.

15° hook angle. Micrograin carbide grade.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/10/60 + 2/7/42

PP = Piano Plus Version is a special plate design for very quiet running blades.



2050

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Machine	Part-No.
305mm	4.4mm	3.0mm	30mm	54	2/10/60	Mayer, Panhans, SCM	2050.305.30
350mm	4.4mm	3.0mm	30mm	54	2/10/60	Panhans, SCM, Scheer	2050.350.30
350mm	4.4mm	3.0mm	30mm	72	2/10/60	Panhans, Schelling, SCM, Scheer	2050.350.31
355mm	4.4mm	3.0mm	75mm	54	4/15/105	Giben	2050.355.75
355mm	4.4mm	3.0mm	30mm	72		Panhans, SCM	2050.355.31
355mm	4.4mm	3.0mm	80mm	72	4/9/100+2/14/110	Gabbiani, SCM, S.M.A	2050.355.81
380mm	4.8mm	3.5mm	60mm	40	2/14/100	Holzma	2050.380.60
400mm	4.4mm	3.0mm	30mm	60		Mayer, Irion, Schelling	2050.400.30
400mm	4.4mm	3.0mm	30mm	72		Mayer, Irion, Schelling	2050.400.31
430mm	4.4mm	3.0mm	80mm	60	2/9/130+4/19/120	S.M.A, Selco	2050.430.80
450mm	4.4mm	3.0mm	30mm	72	2/9/60	Irion, Panhans, Scheer, Schelling	2050.450.31
450mm	4.4mm	3.0mm	80mm	72	2/9/130+4/19/120	S.M.A. Selco, Irion	2050.450.81
500mm	4.4mm	3.0mm	30mm	72		Schelling, Irion	2050.500.31
550mm	5.0mm	3.5mm	80mm	60		S.M.A. Teutomatic	2050.550.82
620mm	6.2mm	4.0mm	40mm	70	2/14/113	Schelling	2052.620.40
670mm	6.2mm	4.0mm	40mm	72	2/13/114+2/13/140	Schelling	2052.670.40
730mm	6.2mm	4.0mm	60mm	60	2/11/120+2/11/148	Holzma	2052.730.60

SCORING SAW BLADES

2055

Carbide-tipped scoring saw blades for panel saws and sliding table saws.

V/W = 2-piece Adjustable / Alternate Top Bevel

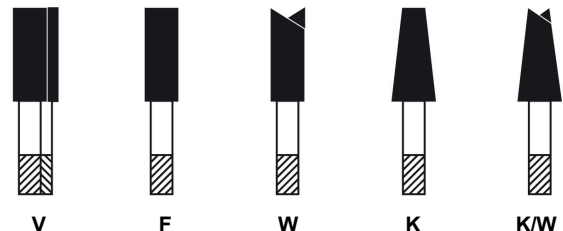
V/F = 2-piece Adjustable / Flat Top

F = Flat Top

W = Alternate Top Bevel

K = Conic

K/W = Conic/Alternate Top Bevel



Diameter	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Machine	Part-No.
80mm	3.10mm	2.2mm	20mm	12 (W)		Striebig Compact	2055.081.20
80mm	3.38mm	2.2mm	20mm	16 (W)		Striebig, Felder	2155.080.20
80mm	2.8-3.6mm		20mm	10x2 (V)		GEA, Felder, Striebig	2055.080.20
100mm	2.8-3.6mm		22mm	12x2 (V)		Altendorf, Martin, Striebig	2055.100.22
100mm	2.8-3.6mm		20mm	12x2 (V)		Robland, Schelling, SCM	2055.101.20
100mm	3.10mm	2.2mm	22mm	16 (W)		Striebig	2055.101.22
100mm	3.38mm	2.4mm	22mm	24 (W)		Holz-Her, Striebig	2155.100.22
100mm	3.0-3.7mm	2.2mm	20mm	20 (K)		Schelling	2055.100.20
120mm	2.8-3.6mm		22mm	12x2 (V)		Altendorf, Martin	2055.120.22
120mm	2.8-3.6mm		20mm	12x2 (V)		Holz-Her, MAK, SCM, Lazzari	2055.120.20
120mm	2.8-3.6mm		22mm	12x2 (V)		Altendorf, Martin	2055.120.22
120mm	3.2-4.5mm		20mm	12x2 (V)		SCM	2055.121.20
120mm	2.8-3.6mm		3/4"	12x2 (V)		SCM	2055.120.75
120mm	2.8-3.6mm		50mm	12x2 (V)	2x4 CS	System GUHDO Ritzmatic	2055.120.51
120mm	2.8-3.6mm		50mm	12x2 (V)	2x4 CS	Leuco Rapido (Altendorf)	2055.120.50
120mm	2.8-3.6mm		57mm	12x2 (V)	6 CS	System GUHDO RitzFix	2055.122.22
120mm	3.2-3.9mm	2.4mm	20mm	24 (K)		SCM	2055.122.20
125mm	2.8-3.6mm		20mm	12x2 (V)		Panhans	2055.125.21

SCORING SAW BLADES.....CONTINUED

2055

Diameter	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Machine	Part-No.
125mm	2.8-3.6mm		22mm	12x2 (V)		Panhans	2055.127.22
125mm	2.8-3.6mm		50mm	12x2 (V)	2x4 CS	System GUHDO Ritzmatic	2055.125.51
125mm	3.2-3.9mm	2.4mm	20mm	24 (K)		Panhans, Paolini	2055.125.20
125mm	4.4-5.1mm	3.2mm	20mm	24 (K)		Panhans	2055.126.20
125mm	4.4-5.1mm	3.2mm	45mm	24 (K/W)		Giben, Mayer, Homag Espana	2055.125.45
127mm	4.4-5.1mm	3.2mm	45mm	24 (K)		Giben, Mayer	2055.127.45
150mm	4.4-5.1mm	3.2mm	30mm	24 (K)		Irion, Mayer, SCM	2055.150.30
150mm	4.4-5.1mm	3.2mm	45mm	24 (K/W)		Homag Espana	2055.150.45
160mm	4.4-5.1mm	3.2mm	55mm	36 (K/W)	3/7/66+2/14/110	Gabbiani, SCM	2055.160.55
180mm	4.4-5.1mm	3.5mm	30mm	30 (K/W)	2/10/60	Panhans, Teutomatic	2055.180.31
180mm	4.4-5.1mm	3.5mm	45mm	30 (K/W)		Holzma, Homag Espana	2055.180.46
180mm	4.4-5.1mm	3.5mm	45mm	36 (K/W)		Holzma, Homag Espana	2055.181.45
180mm	4.8-5.5mm	3.5mm	45mm	36 (K)		Holzma	2055.180.45
200mm	3.2-3.8mm	2.5mm	30mm	60 (K/W)		Scheer	2055.200.31
200mm	4.4-5.1mm	3.5mm	20mm	34 (K/W)		Schelling	2055.200.20
200mm	4.4-5.1mm	3.5mm	30mm	34 (K)	2/9/60	Scheer, Teutomatic, SMA	2055.200.32
200mm	4.4-5.1mm	3.5mm	45mm	36 (K)		Holzma, Homag Espana	2055.200.47
200mm	4.4-5.1mm	3.5mm	65mm	34 (K/W)	2/9/110+2/9/100	Selco	2055.200.65
200mm	4.4-5.1mm	3.5mm	80mm	36 (K)	2/14/110	Gabbiani, SCM	2055.200.80
200mm	4.8-5.5mm	3.5mm	20mm	36 (K)		Schelling	2055.200.21
200mm	4.8-5.5mm	3.5mm	45mm	36 (K/W)		Holzma	2055.200.46
200mm	5.2-5.9mm	3.5mm	20mm	36 (K/W)		Schelling	2055.200.22
200mm	5.2-5.9mm	3.5mm	40mm	36 (K)		S.M.A	2055.200.40
200mm	5.8-6.5mm	3.5mm	45mm	34 (K)		Holzma	2055.201.45
215mm	4.4-5.1mm	3.5mm	50mm	42 (K/W)	3/15/80	Giben, Prismatic	2055.215.50
220mm	6.4-7.4mm	4.4mm	20mm	36 (K/W)		Schelling	2055.221.20
300mm	4.4-5.1mm	3.5mm	50mm	48 (K/W)	3/15/80	Giben, Prismatic	2055.300.50
300mm	4.4-5.1mm	3.5mm	65mm	48 (K/W)	2/9/100+2/9/110	Selco EB70	2055.301.65
300mm	4.4-5.1mm	3.5mm	65mm	72 (K/W)	2/9/100+2/9/110	Selco	2055.300.65
340mm	5.0mm	3.5mm	45mm	108 (W)	3/14/65	Holzma Postforming	2055.342.45

SPACERLESS SCORING SAW BLADE SYSTEM

Ritz-Quick takes the guesswork out of adjusting and re-adjusting your scoring blades. The system's patented, adjustable scoring eliminates the need for spacers, endless measuring, testing and adjusting to obtain the required kerf width.

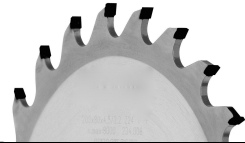
- Adjusts easily
- Fits most machines
- Fits for all main blades 2.8-3.6mm
- Saves time and money!


5055

Diam. (D)	Kerf (B)	Bore (d)	Teeth (Z)	For machine	Part-No.
100mm	2.8-3.6mm	20mm	2x12	Striebig, Martin	5055.100.20
120mm	2.8-3.36mm	20mm	2x12		5055.120.20
120mm	2.8-3.6mm	22mm	2x12	Altendorf, Casolin, Casadei Lazzari, Shark	5055.120.22
120mm	2.8-3.6mm	3/4"	2x12	SCM	5055.120.75
Saw Blades:					
100mm	2.8-3.6mm	57mm	2x12		2055.100.00
120mm	2.8-3.6mm	57mm	2x12		2055.120.00

DIAMOND-TIPPED PANEL SAW BLADES

PCD (Polycrystalline Diamond) cutting edges provide considerably longer tool life when machining extremely abrasive materials. Particularly suitable when machining homogeneous materials such as MDF, particleboard, gypsum board, cement-fiber board, high pressure laminate, solid surface material, phenolic, FR-4 and fiber-glass reinforced panels.



Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	For machine	Part-No.
250mm	3.2mm	2.2mm	30mm	2/7/42+2/10/60	80		7.2039.250.30
300mm	3.2mm	2.2mm	30mm	2/7/42+2/10/60	72		7.2039.300.30
300mm	3.2mm	2.2mm	30mm	2/7/42+2/10/60	84		7.2039.301.30
300mm	3.2mm	2.2mm	30mm	2/7/42+2/10/60	96		7.2039.302.30
350mm	4.4mm	3.2mm	60mm	2/14/100	72	Holzma	7.2052.350.60
350mm	4.4mm	3.2mm	80mm	4/9/100+2/9/110+2/14/110	72	Gabbiani	7.2052.350.80
380mm	4.8mm	3.5mm	60mm	2/14/100+2/14/125	72	Holzma	7.2052.380.60
400mm	4.4mm	3.2mm	80mm	4/9/100+2/9/110+2/14/110	72	Gabbiani	7.2052.400.80
400mm	4.4mm	3.2mm	80mm	4/19/120+2/9/130	72	Selco	7.2052.400.81
450mm	4.8mm	3.5mm	60mm	2/17/100+2/14/125	72	Holzma	7.2052.451.60

DIAMOND-TIPPED SCORING SAW BLADES

Diam. (D)	Kerf (B)	Bore (d)	Pinholes	Teeth (Z)	For machine	Part-No.
80mm	2.8-3.6mm	20mm		20	Felder	7.2055.080.20
100mm	2.8-3.6mm	22mm		24	Striebig	7.2055.100.22
120mm	2.8-3.6mm	50mm		24	Altendorf (Rapido)	7.2055.120.50
160mm	4.4-5.3mm	55mm	3/7/66	36	SCM/Gabbiani	7.2055.160.55
180mm	4.4-5.3mm	45mm		36	Holzma	7.2055.180.46
180mm	4.8-5.6mm	45mm		36	Holzma	7.2055.180.45
200mm	4.4-5.3mm	45mm		36	Holzma	7.2055.200.47
200mm	4.4-5.6mm	65mm	2/9/110+2/9/100	36	Selco	7.2055.200.65

SPECIAL CUT-OFF BLADES FOR CEMENT FIBER BOARD

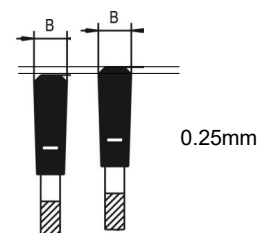
Diam. (D)	Kerf (B)	Bore (d)	Teeth (Z)	Part-No.
7.1/4"	.094"	5/8"	10	2887.184.58
250mm	2.6mm	30mm	16	2887.250.30
10"	.102"	5/8"	16	2887.250.58
300mm	2.8mm	30mm	20	2887.300.30
12"	.110"	1"	20	2887.300.01



SOLID SURFACE / PLASTIC BLADES

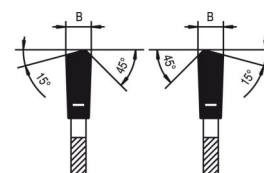
Great option for chip free cut top and bottom for solid surface materials. Also suitable for cutting double-sided melamine and laminate panels. For use on radial arm and table saws. Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
7.1/4"	.102"	.072"	5/8"	0°	60	2000S185T60
8"	.106"	.072"	5/8"	0°	60	2000S220T60
10"	.115"	.085"	5/8"	-5°	80	2000S250T80
10"	.115"	.085"	5/8"	0°	80	2000S251T80
12"	.126"	.095"	1"	-5°	100	2000S300T10
12"	.126"	.095"	1"	0°	100	2000S301T10
14"	.150"	.110"	1"	-2°	100	2000S350T10
16"	.150"	.110"	1"	-2°	120	2000S400T10


2000S

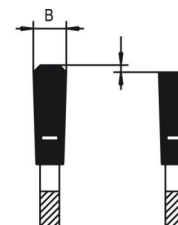
For clean cutting of homogeneous plastic panels, solid surface material, thermoplastics, phenolic resin, plexiglass, phenolic bonded paper sheets etc. Carbide-tipped.
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Pinholes	Teeth (Z)	Part-No.
250mm	2.8mm	2.0mm	30mm	0°	CNL	80	2044.251.30
300mm	3.0mm	2.2mm	30mm	0°	CNL	96	2044.300.30
350mm	3.3mm	2.5mm	30mm	0°	CNL	108	2044.350.30


2044

For clean cutting of thermoplastic panels (acrylics, polyethylene etc. up to 10mm thick, and duro-plastic panels, phenolic resin bonded panels up to 6mm thick. Also suitable for clean cutting of double sided plastic laminated panels, preferably with use of a scoring blade.
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60 Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Pinholes	Teeth (Z)	Part-No.
160mm	3.0mm	2.0mm	20mm	10°	2/6/32	36	2089.160.21
190mm	3.0mm	2.0mm	30mm	10°	2/7/42	42	2089.190.31
216mm	3.0mm	2.0mm	30mm	10°	-	48	2089.216.31
225mm	3.0mm	2.0mm	30mm	10°	-	50	2089.225.31
250mm	3.0mm	2.0mm	30mm	10°	CNL	56	2089.250.31
303mm	3.2mm	2.2mm	30mm	10°	CNL	68	2089.303.31


2089

DIAMOND-TIPPED BLADE FOR SOLID SURFACE

PCD (Polycrystalline Diamond) cutting edges provide considerably longer tool life when machining solid surface materials and provide an excellent finish.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
220mm	3.0mm	2.0mm	30mm	0°	64	7.2039N220T64
250mm	3.0mm	2.0mm	30mm	0°	80	7.2039N250T80
300mm	3.2mm	2.2mm	30mm	0°	96	7.2039N300T96

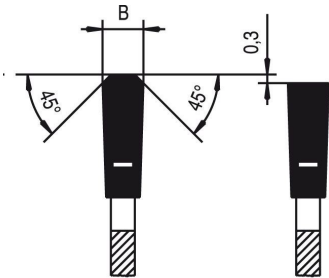


NON-FERROUS METAL / PLASTIC CUTTING BLADES

2000N

For cutting aluminum and plastic extrusion profiles and panels on chop/miter saws and other special machines. The negative tooth shape prevents the gullets from filling up. Use coolant or lubricant and clamp the material firmly. Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
7.1/4"	.112"	.087"	5/8"	-5°	60	2000N185T60
10"	.126"	.102"	5/8"	-5°	60	2000N250T60
10"	.126"	.102"	5/8"	-5°	80	2000N250T80
10"	.126"	.102"	5/8"	-5°	100	2000N250T10
12"	.128"	.102"	1"	-5°	72	2000N300T72
12"	.128"	.102"	1"	-5°	80	2000N300T80
12"	.128"	.102"	5/8"	-5°	100	2000N300T10
12"	.128"	.102"	1"	-5°	100	2000N301T10
14"	.138"	.110"	1"	-5°	108	2000N350T18
14"	.150"	.126"	5/8"	-2° (Pistorius)	100	2000N350T10
15"	.120"	.098"	1"	-2° (Hitachi)	100	2000N380T10
16"	.150"	.126"	1"	-2°	100	2000N400T10
18"	.165"	.134"	1"	-2°	100	2000N450T10
20"	.174"	.134"	1"	0°	100	2000N500T10
20"	.174"	.134"	1"	0°	120	2000N500T12
20"	.174"	.134"	1"	0°	140	2000N500T14



2085

Negative hook tooth geometry for sizing non-ferrous and plastic extrusion profiles and panels and sizing non-ferrous metal and sandwich panels.

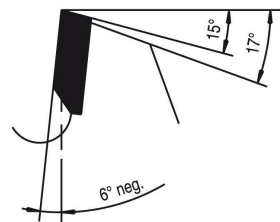
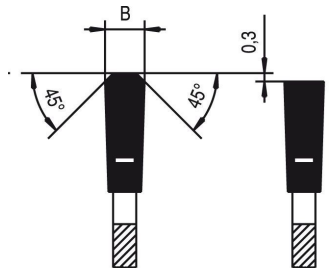
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/10/60 + 2/7/42

Low noise (Piano Plus) version.

For use on Elu, Haffner, Baier, Fezer, Kaltenbach, Trennjaeger, Ulmia, Rapid, Graule, Eisele, DeWalt,

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
216mm	2.8mm	2.8mm	30mm		48	2085.216.30
216mm	2.8mm	2.2mm	30mm		64	2085.217.30
220mm	2.8mm	2.2mm	30mm	KNL	80	2085.221.30
250mm	3.1mm	2.4mm	30mm	CNL	60	2085.250.30
250mm	3.1mm	2.4mm	30mm	CNL	80	2185.251.31 (PP)
250mm	3.1mm	2.4mm	32mm		80	2185.251.32
300mm	3.2mm	2.6mm	30mm		72	2085.300.30
300mm	3.2mm	2.6mm	30mm		96	2185.301.31 (PP)
300mm	3.2mm	2.6mm	32mm		96	2085.301.32
300mm	3.2mm	2.6mm	40mm	4/12/64+2/9/55	72	2085.300.40
330mm	3.4mm	2.8mm	30mm		84	2085.330.30
330mm	3.4mm	2.8mm	30mm		100	2185.331.31 (PP)
330mm	3.4mm	2.8mm	32mm		100	2085.331.32
350mm	3.6mm	3.0mm	30mm		84	2085.350.30
350mm	3.6mm	3.0mm	30mm		108	2085.351.30
350mm	3.5mm	3.0mm	30mm		108	2185.351.31 (PP)
350mm	3.6mm	3.0mm	40mm	4/12/64+2/9/55	84	2085.350.40
350mm	3.6mm	3.0mm	40mm	4/12/64+2/9/55	108	2085.351.40
370mm	3.6mm	3.0mm	30mm		90	2085.370.30
370mm	3.6mm	3.0mm	50mm	4/15/80	90	2085.370.50
380mm	3.6mm	3.0mm	32mm		108	2085.381.32
400mm	3.8mm	3.2mm	30mm		96	2085.400.30
400mm	3.8mm	3.2mm	40mm	4/12/64+2/9/55	96	2085.400.40
400mm	3.8mm	3.2mm	50mm	4/15/80	96	2085.401.50
420mm	3.8mm	3.2mm	30mm		96	2085.420.30
420mm	3.8mm	3.2mm	40mm		96	2085.420.40
450mm	4.1mm	3.5mm	30mm		96	2085.450.30
500mm	4.1mm	3.5mm	30mm		120	2085.501.30



NON-FERROUS METAL / PLASTIC CUTTING ...CONTINUED

2080

Positive hook tooth geometry for sizing non-ferrous and plastic extrusion profiles and panels and sizing non-ferrous metal panels.

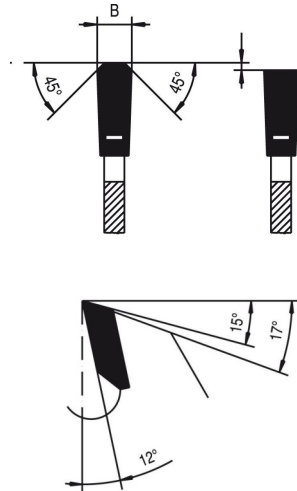
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/10/60 + 2/7/42

Low noise (Piano Plus) version.

For use on Elu, Haffner, Baier, Fezer, Kaltenbach, Trennjaeger, Ulmia, Rapid, Graule, Eisele, DeWalt, Pfeiffer, Weidmann, Elumatec, Festo and others. Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
225mm	2.5mm	1.8mm	30mm	-	68	2080.225.30
250mm	3.4mm	2.4mm	30mm	2/10/60	40	2080.252.30
250mm	3.4mm	2.4mm	30mm	2/10/60	60	2080.250.30
250mm	3.4mm	2.4mm	30mm	2/10/60	80	2080.251.30
300mm	3.8mm	2.8mm	30mm	CNL	72	2080.300.30
300mm	3.8mm	2.8mm	30mm	CNL	96	2080.301.30
350mm	4.0mm	3.0mm	30mm	CNL	60	2080.352.30
350mm	4.0mm	3.0mm	30mm	CNL	84	2080.350.30
350mm	4.0mm	3.0mm	30mm	CNL	96	2180.353.31 (PP)
350mm	4.0mm	3.0mm	30mm	CNL	108	2080.351.30
400mm	4.2mm	3.2mm	30mm	-	60	2080.401.30
400mm	4.2mm	3.2mm	30mm	-	96	2080.400.30
420mm	4.2mm	3.2mm	30mm	-	96	2080.420.30
500mm	4.6mm	3.5mm	30mm	-	120	2080.501.30



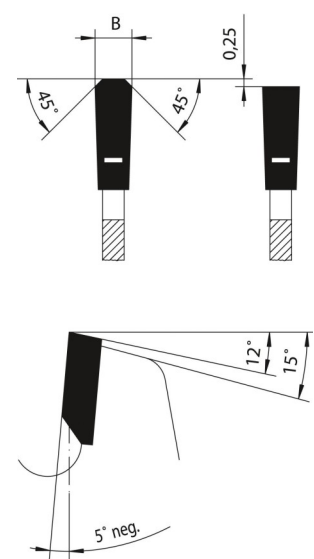
NON-FERROUS METAL/PLASTIC CUTTING BLADE

For sizing non-ferrous and plastic extrusion profiles and panels and sizing non-ferrous metal panels.

Universally suited for cutting a diverse variety of materials.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60 Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
150mm	2.8mm	2.2mm	30mm	-	42	2286.150.30
160mm	2.8mm	2.2mm	20mm	2.6/32	42	2286.160.20
160mm	2.8mm	2.2mm	30mm	2/7/42	42	2286.160.30
170mm	2.8mm	2.2mm	30mm	2/7/42	48	2286.170.30
180mm	2.8mm	2.2mm	20mm	2/6/32	48	2286.180.20
190mm	2.8mm	2.2mm	30mm	2/7/42	54	2286.190.30
200mm	2.8mm	2.2mm	30mm	2/7/42	54	2286.200.30
210mm	2.8mm	2.2mm	30mm	2/7/42	54	2286.210.30
216mm	2.8mm	2.2mm	30mm	-	60	2286.216.30
230mm	2.8mm	2.2mm	30mm	2/7/42	64	2286.230.30
250mm	3.2mm	2.4mm	30mm	CNL	80	2286.250.30
260mm	2.4mm	1.8mm	30mm	CNL	68	2286.260.30

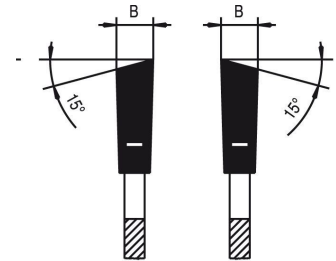
2286


MITRE SAW BLADES

2000M

For clean cuts on wood mouldings and framing, designed to help prevent kickback. Negative hook.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.110"	.080"	5/8"	-2°	60	2000M250A60
10"	.102"	.072"	5/8"	0°	80	2000M251A80
10"	.102"	.072"	5/8"	-5°	80	2000M250A80
12"	.110"	.080"	1"	0°	60	2000M300A60
12"	.110"	.080"	1"	0°	80	2000M300A80
12"	.122"	.095"	1"	0°	80	2000M301A80
12"	.128"	.098"	5/8"	-5°	100	2000M300A10
12"	.128"	.098"	1"	-5°	100	2000M301A10
12"	.128"	.098"	5/8"	0°	100	2000M302A10
14"	.150"	.120"	5/8"	-5° (Pistorius)	100	2000M350A10
15"	.120"	.098"	1"	-2° (Hitachi)	100	2000M380A10



RADIAL ARM SAW BLADES

2109

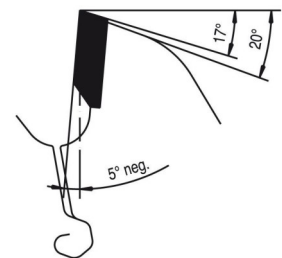
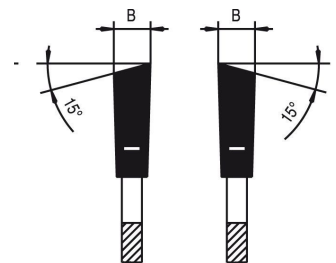
For cross-grain cutting both seasoned and unseasoned hard and softwood.

Alternate top bevel grind, 5° negative hook.

Low noise (Piano Plus) version.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
210mm	2.8mm	1.8mm	30mm	34	2/7/42	2109.210.30
216mm	2.8mm	1.8mm	30mm	36		2109.216.30
216mm	2.8mm	1.8mm	30mm	48		2109.217.30
216mm	2.8mm	1.8mm	30mm	64		2109.218.30
250mm	3.0mm	2.0mm	30mm	42	CNL	2109.250.30
260mm	3.2mm	2.2mm	30mm	48	1/7/44	2109.260.30
260mm	2.5mm	1.8mm	30mm	48		2109.261.30
260mm	3.2mm	2.2mm	30mm	60	1/7/44	2109.260.31
305mm	3.2mm	2.2mm	30mm	48	CNL	2109.305.30
305mm	3.2mm	2.2mm	30mm	60	CNL	2109.305.31
350mm	3.6mm	2.2mm	30mm	42	CNL	2109.350.31
400mm	3.9mm	2.5mm	30mm	48	CNL	2109.400.31
420mm	4.2mm	2.8mm	30mm	54	2/10/60	2109.420.31
420mm	4.2mm	2.8mm	40mm	54		2109.420.41
450mm	4.2mm	2.8mm	30mm	54	CNL	2109.450.31
500mm	4.4mm	3.0mm	30mm	60	CNL	2109.500.31
520mm	4.6mm	3.2mm	50mm	60		2109.520.51
550mm	4.8mm	3.4mm	30mm	64	2/10/60	2109.550.31
600mm	5.2mm	3.8mm	30mm	72	2/10/60	2109.600.31

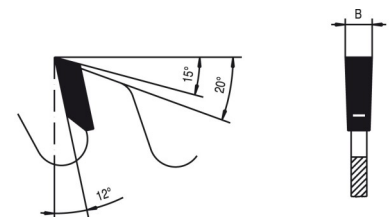


TENONER SCORING SAW BLADES

2033

Carbide-tipped, for scoring (on the underside) double-sided coated panels on double-end tenoners.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Hook	Pinholes	Part-No.
150mm	3.2mm	2.0mm	30mm	36	12°	4/6/48+4/5.5/52	2033.150.30
200mm	3.2mm	2.0mm	30mm	48	12°		2033.200.30



CONSTRUCTION SITE SAW BLADES

For all materials used on construction sites, such as wood with nails, staples, concrete residues, clips and similar unexpected inclusions. Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.126"	.087"	5/8"	-5°	20	2000.250T20
12"	.126"	.087"	1"	-5°	24	2000.300T24
14"	.137"	.098"	1"	-5°	28	2000.350T28
18"	.165"	.110"	1"	-5°	36	2000.450T36

For universal cutting applications on construction sites.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60 Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
300mm	3.4mm	2.2mm	30mm	CNL	20	2301.300.30
315mm	3.4mm	2.2mm	30mm	2/7/42	20	2301.315.30
350mm	3.6mm	2.5mm	30mm	CNL	24	2301.350.30
400mm	3.6mm	2.5mm	30mm	CNL	28	2301.400.30
450mm	3.8mm	2.6mm	30mm	CNL	32	2301.450.30
500mm	4.4mm	2.8mm	30mm	CNL	36	2301.500.30

STEEL CUTTING SAW BLADES

For dry cutting of mild steel (S237), metal clad pieces such as sandwich panels, cable ducts, sheet metal, brass and copper. Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
8"	2.2mm	1.8mm	1"	0°	40	2000S220A40
10"	2.4mm	2.0mm	1"	0°	48	2000S250A48
12"	2.4mm	2.0mm	1"	0°	60	2000S300A60
12"	2.7mm	2.4mm	1"	0°	84	2000S300A84
14"	2.8mm	2.5mm	1"	0°	84	2000S350A84
14"	2.8mm	2.5mm	1"	0°	102	2000S350A12

For cutting steel, cast and sheet steel (non-Vanadium), copper, aluminum, brass and rigid plastics.

For use on Jepson Dry Cutter. Carbide-tipped.

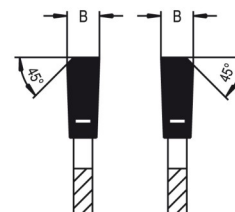
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
305mm	2.2mm	1.85mm	1"		60	2049.305.25
305mm	2.2mm	1.85mm	1"		80	2049.306.25
305mm	2.2mm	1.85mm	30mm	CNL	80	2049.306.30
355mm	2.5mm	2.15mm	1"		80	2049.356.25

For sizing rigid foam and wood-based panels with a thin sheet steel layer on one or both sides.

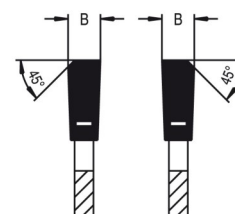
Smaller diameter blades 160-230mm can be used on portable and small table saws. Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
160mm	2.8mm	1.8mm	20mm	2/6/32	42	2048.161.20
190mm	2.8mm	1.8mm	30mm	2/7/42	56	2048.191.30
210mm	2.8mm	1.8mm	30mm	2/7/42	60	2048.210.30
230mm	3.2mm	2.2mm	30mm	2/7/42	64	2048.231.30
300mm	3.4mm	2.4mm	30mm		60	2048.300.30
350mm	4.2mm	3.0mm	30mm		72	2048.350.30
410mm	3.0mm	2.5mm	30mm	CNL	84	2048.410.30
500mm	4.2mm	3.0mm	30mm		96	2048.500.30
500mm	4.2mm	3.2mm	110mm		100	2048.500.10
550mm	4.2mm	3.2mm	110mm		100	2048.550.10
660mm	4.2mm	3.0mm	30mm		108	2048.660.30

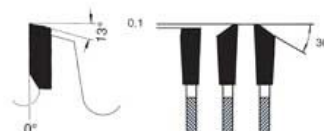
2000T



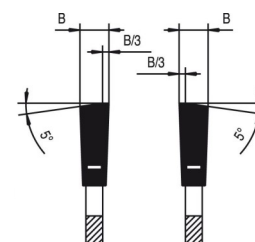
2301



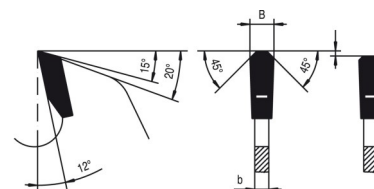
2000S



2049



2048

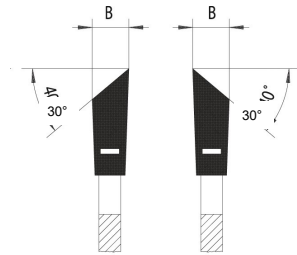


LAMINATE BLADES — HI ANGLE ATB

2000N

For cutting double-sided laminated panels (without using a scoring blade) and avoid tear-out on the bottom exit cut. Carbide-tipped, High Angle, ATB, carbide-tipped.
*) for HolzHer

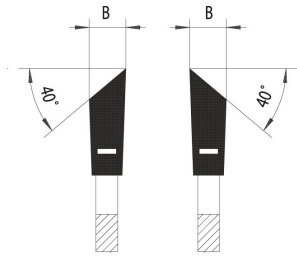
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.126"	.087"	5/8"	-5°	80	2000N250A80
12"	.126"	.087"	30mm	-5°	96	2000N300A96
12"	.126"	.087"	1"	-5°	96	2000N301A96
14"	.148"	.118"	1"	-2°	100	2000N350A10
220mm*)	3.2mm	2.2mm	30mm	-5°	64	2000N220A64



2195

For cleanest cut in laminated panels, cross and miter cuts in solid wood, MDF, chipboard plywood, glued laminate, veneers and beading. Carbide-tipped. 40° high angle, (35° on the 160/190mm diameter), 5° pos. hook. ATB.
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60
Very quiet running, Piano Plus version.

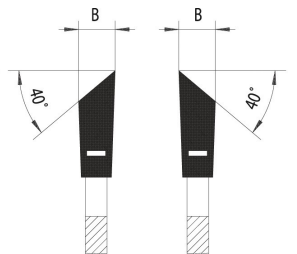
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
160mm	3.0mm	2.2mm	20mm	2/6/32	54	2195.160.21
190mm	3.0mm	2.2mm	30mm	-	60	2195.190.31
216mm	2.9mm	2.0mm	30mm	-	60	2195.216.31
225mm	2.8mm	2.0mm	30mm	-	68	2195.225.31
250mm	3.2mm	2.2mm	30mm	CNL	76	2195.250.31
303mm	3.2mm	2.2mm	30mm	CNL	90	2195.303.31
350mm	3.5mm	2.5mm	30mm	CNL	96	2195.350.31



2196

For cutting thicker panels, 20-80mm (3/4" - 3"), cross and miter cuts in solid wood, plywood, double-sided laminated panels, glued up panels, foil and paper coated panels and also light-weight sandwich panels. 40° high angle (35° on the 160/190mm diameter), 5° pos. hook. ATB.
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60
Very quiet running, Piano Plus version. Carbide-tipped.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
250mm	3.0mm	2.0mm	30mm	CNL	46	2196.250.30
303mm	3.2mm	2.2mm	30mm	CNL	56	2196.303.30
350mm	3.5mm	2.4mm	30mm	CNL	56	2196.350.30



LAMINATE BLADES — HOLLOW-FACE

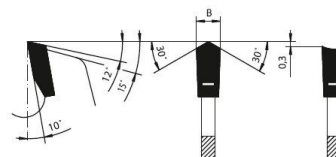
2037

Excellent finish cutting double-sided laminated panels (without using a scoring blade) and prevention of tear-out on the bottom exit cut. Carbide-tipped. Hollow-face sawblades require special sharpening to maintain the excellent finish quality. Tooth must be face ground with a grinding pin every time the blade is sharpened. For use on sliding table saws and vertical panel saws.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

PP = Very quiet running, Piano Plus version.

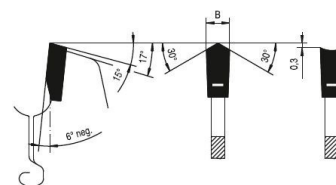
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
220mm	3.2mm	2.2mm	30mm	2/7/42	42	2037.220.30
250mm	3.2mm	2.2mm	30mm	CNL	48	2037.250.30
303mm	3.2mm	2.2mm	30mm	CNL	60	2037.300.30
303mm	3.2mm	2.2mm	30mm	CNL	60	2137.303.31 (PP)
303mm	2.9mm	2.0mm	30mm	CNL	72	2137.303.33 (PP)
350mm	3.5mm	2.5mm	30mm	CNL	72	2037.350.30



2138

Same application as Series 2037 above, except **negative hook** design.

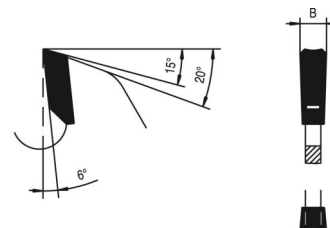
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
250mm	3.2mm	2.2mm	30mm	CNL	48	2138.250.31
303mm	3.2mm	2.2mm	30mm	CNL	60	2138.303.31



2041

Same application as Series 2037, except modified/alternative hollow face design with more teeth.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Pinholes	Teeth (Z)	Part-No.
160mm	2.9mm	2.0mm	20mm	2/6/32	36	2041.160.20
300mm	2.9mm	2.0mm	30mm	CNL	72	2141.300.31
303mm	3.2mm	2.2mm	30mm	CNL	56	2141.303.31

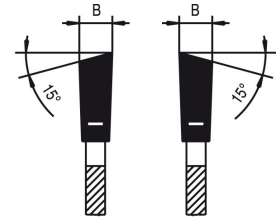


THIN KERF SAW BLADES

2000T

Designed to minimize cutting waste when sizing exotic and expensive wood and other materials. ATB Grind for cutting solid wood, plywood and veneers. TCG for cutting plastic, PVC and plexiglass.

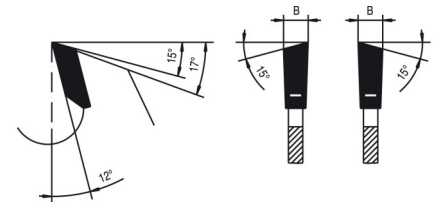
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
8"	.090"	.063"	5/8"	10°	60 ATB	2000T220A60
8"	.090"	.063"	5/8"	10°	60 TCG	2000T220T60
10"	.098"	.071"	5/8"	20°	24 ATB	2000T250A24
10"	.090"	.063"	5/8"	15°	40 ATB	2000T250A40
10"	.090"	.063"	5/8"	5°	80 ATB	2000T250A80
10"	.090"	.063"	5/8"	5°	80 TCG	2000T250T80
12"	.090"	.063"	1"	5°	100 ATB	2000T300A10
12"	.090"	.063"	1"	5°	100 TCG	2000T300T10



For ripping exotic and expensive solid wood and books of veneers.
15° hook, ATB Grind.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

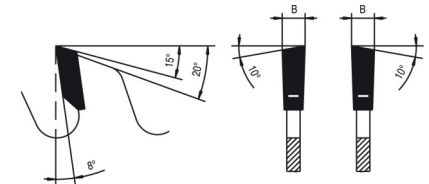
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Hook	Pinholes	Part-No.
150mm	2.0mm	1.2mm	30mm	24	15°		2025.150.30
180mm	2.0mm	1.3mm	30mm	30	15°		2025.180.30
180mm	2.0mm	1.3mm	30mm	56	12°		2027.180.30
200mm	2.0mm	1.35mm	30mm	34	15°		2025.200.30
200mm	2.0mm	1.35mm	30mm	64	12°		2027.200.30
250mm	2.1mm	1.6mm	30mm	42	15°	CNL	2025.250.30
250mm	2.1mm	1.6mm	30mm	80	12°	CNL	2027.250.30
300mm	2.2mm	1.6mm	30mm	48	15°	CNL	2025.300.30
300mm	2.2mm	1.6mm	30mm	96	12°	CNL	2027.300.30
350mm	2.4mm	1.6mm	30mm	54	15°	CNL	2025.350.30
350mm	2.4mm	1.6mm	30mm	108	12°	CNL	2027.350.30



For clean cutting of thin-wall plastic and aluminum profiles, phenolic resin bonded paper and cork.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

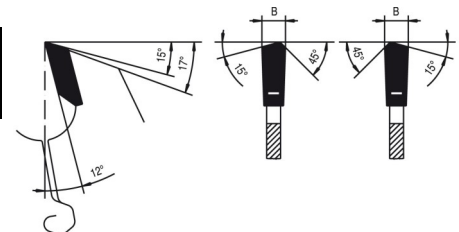
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Hook	Pinholes	Part-No.
200mm	2.2mm	1.6mm	30mm	80	8°		2028.200.30
250mm	2.2mm	1.6mm	30mm	100	8°	CNL	2028.250.30
300mm	2.2mm	1.6mm	30mm	120	8°	CNL	2028.300.30



2030

For clean cutting of homogeneous plastic panels, laminate, plexiglass, phenolic resin bonded paper, phenolic laminated cotton fiber panels, phenolic resin impregnated paper etc.
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

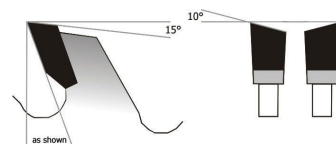
Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Hook	Pinholes	Part-No.
250mm	2.1mm	1.6mm	30mm	80	12°	CNL	2030.250.30
300mm	2.2mm	1.6mm	30mm	96	12°	CNL	2030.300.30



RIP SAW BLADES (FOR TABLE SAWS)

Carbide-tipped, for ripping and cross-cutting solid wood and panels on table saws.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.126"	.087"	5/8"	20°	24	2000R250A24
12"	.126"	.087"	1"	20°	28	2000R300A28
14"	.138"	.098"	1"	20°	32	2000R350A32

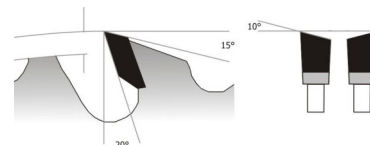


2000RA

RIP SAW BLADES (ANTI-KICKBACK)

Carbide-tipped, for ripping and cross-cutting solid wood and panels on table saws, this blade features chip limiters to reduce the chance of material kick-back.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.126"	.087"	5/8"	20°	24	2000RA250A24
12"	.126"	.087"	1"	20°	28	2000RA300A28
14"	.138"	.098"	1"	20°	32	2000RA350A32

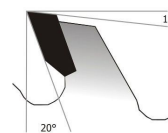


2000RA

RIP SAW BLADES (HEAVY DUTY)

Carbide-tipped, for heavy-duty ripping hard and softwoods.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.145"	.095"	5/8"	20°	24	2000R250F24
12"	.160"	.110"	1"	20°	28	2000R300F28
14"	.170"	.120"	1"	20°	32	2000R350F32
16"	.170"	.120"	1"	20°	36	2000R400F36
18"	.184"	.134"	1"	20°	40	2000R450F40

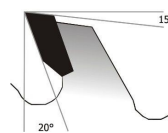


2000RF

GLUE LINE RIP BLADES

Carbide-tipped, provides cleanest cutting requirements for glue line applications in hard/soft woods.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.145"	.095"	5/8"	20°	30	2000G250T30
12"	.150"	.110"	3.1/8"	20° (*)	36	2000G300T36
12"	.160"	.110"	1"	20°	36	2000G301T36
12"	.150"	.110"	3.1/8"	20° (*)	36	2000G302T36
12"	.160"	.110"	3.1/8"	20° (*)	36	2000G304T36
14"	.170"	.120"	1"	20°	40	2000G350T40
14"	.169"	.120"	2"	20° (+)	36	2000G350T36
16"	.170"	.120"	1"	20°	36	2000G400T36
300mm	4.2mm	2.8mm	70mm	20° (^)	36	2000G303T36



2000G

*) For Meehan Johnson w/ keyway 1/4"x1/4" round style + 2 keyways 1/2" x 1/4"

+) For Diehl machine w/ pinhole 9/16" on 5" bolt circle

^*) For European brand Rip Saws w/ 20x5mm double keyway

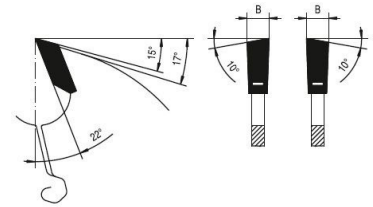
RIP SAW BLADES (SLIDING TABLE SAWS)

2104

Carbide-tipped, for ripping and cross cutting solid wood on sliding table saws. Also suitable for trimming panel products with single-sided laminate or veneer. Alternate Top Bevel Grind, 22° positive hook. Low noise (Piano Plus) version.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Part-No.
250mm	3.2mm	2.2mm	30mm	24	2104.250.31
300mm	3.2mm	2.2mm	30mm	28	2104.300.31
350mm	3.5mm	2.4mm	30mm	34	2104.350.31
400mm	4.0mm	2.8mm	30mm	36	2104.400.31
450mm	4.2mm	3.0mm	30mm	40	2104.450.31



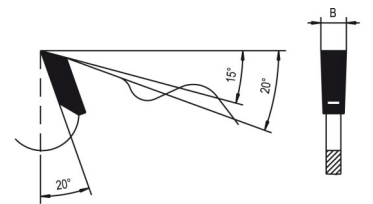
RIP SAW BLADES

2001

Carbide-tipped, for ripping solid hard- and softwood. Flat tooth grind with 20° hook. With chip limiter.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
250mm	3.2mm	2.2mm	30mm	12	CNL	2001.250.30
300mm	3.4mm	2.2mm	30mm	12	CNL	2001.300.30
315mm	3.4mm	2.2mm	30mm	12	CNL	2001.315.30
350mm	3.8mm	2.5mm	30mm	10	CNL	2001.351.30
350mm	3.8mm	2.5mm	30mm	16	CNL	2001.350.30
400mm	4.1mm	2.8mm	30mm	12	CNL	2001.401.30
400mm	3.8mm	2.5mm	30mm	18	CNL	2001.400.30
450mm	4.2mm	2.8mm	30mm	20	CNL	2001.450.30
500mm	4.5mm	3.0mm	30mm	22	CNL	2001.500.30

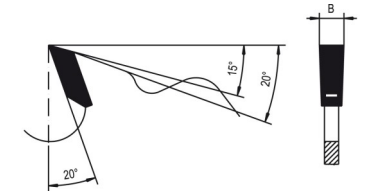


2002

Carbide-tipped, for ripping and occasional cross-cutting of solid hard- and softwood. Flat tooth grind with 20° hook and chip limiter design.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
300mm	3.4mm	2.2mm	30mm	20	CNL	2002.300.30
350mm	3.7mm	2.5mm	30mm	24	CNL	2002.350.30
400mm	4.0mm	2.8mm	30mm	28	CNL	2002.400.30
450mm	4.0mm	2.8mm	30mm	32	CNL	2002.450.30



2003

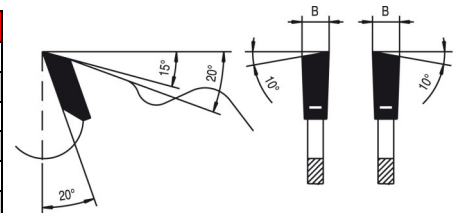
Carbide-tipped, for ripping and cross-cutting solid hard- and softwood. Also suitable for sizing single-sided veneered or plastic coated panels. Alternate top bevel grind with 20° hook and chip limiter design.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/7/42 + 2/10/60

*) with cooling slots

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
240mm	3.2mm	2.2mm	30mm	24	2/7/42	2003.240.30
250mm	3.2mm	2.2mm	30mm	24	CNL	2003.250.30
270mm	3.2mm	2.2mm	30mm	24		2003.270.30
280mm	3.4mm	2.2mm	30mm	28	CNL	2003.280.30
300mm	3.4mm	2.2mm	30mm	28	CNL	2003.300.30
315mm	3.4mm	2.2mm	30mm	28	CNL	2003.315.30
350mm	3.7mm	2.5mm	30mm	32	CNL	2003.350.30
355mm	3.7mm	2.5mm	30mm	32	CNL	2003.355.30
400mm	4.0mm	2.8mm	30mm	36	CNL	2003.400.30
450mm*)	4.0mm	2.0mm	30mm	40	CNL	2003.450.30
500mm	4.0mm	2.8mm	30mm	44	CNL	2003.500.30
550mm	4.6mm	3.2mm	30mm	48	KNL	2003.550.30



RIP SAW BLADES - CONTINUED

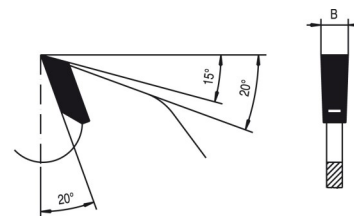
Carbide-tipped, for ripping unseasoned solid hard- and softwood. Use on bench saws and gang rip saws. Flat top grind with 20° hook and chip limiter design.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

DKN = double keyway

*) with cooling slots

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
250mm	3.2mm	2.0mm	30mm	18	CNL	2005.250.30
300mm	3.5mm	2.2mm	30mm	20	CNL	2005.300.30
300mm	3.5mm	2.2mm	70mm	20	DKN20x6	2005.300.70
400mm	4.2mm	2.8mm	30mm	28	CNL	2005.400.30
450mm*)	4.2mm	2.8mm	30mm	32	CNL	2005.450.30



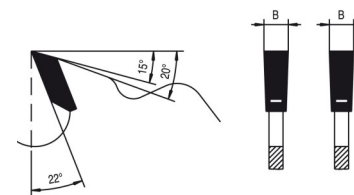
2007

Carbide-tipped, for ripping and cross-cutting hard- and softwood. For use on panel sizing saws.

Flat top or alternate top grind (as specified) with 22° hook, 4 interior wiper/raker teeth and chip limiter design.

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
300mm	3.2mm	2.2mm	30mm	18 Flat	CNL	2007.300.30
350mm	3.6mm	2.5mm	30mm	20 Flat	CNL	2007.350.30
400mm	4.0mm	2.8mm	30mm	24 Flat	CNL	2007.400.30

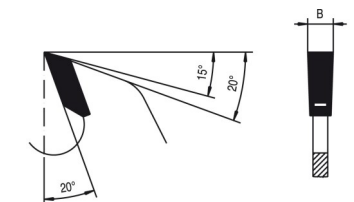


2012

Carbide-tipped, for ripping solid hardwood. Flat grind with 20° hook and chip limiter design.

DKN = double keyway. For SCM Rip Saw.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
300mm*)	3.2mm	2.2mm	70mm	24	DKN20x6	2012.301.70



2015

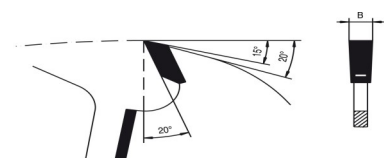
Carbide-tipped, for ripping unseasoned solid hard- and softwood (deep cuts).

Flat grind with 20° hook

Features two carbide-tipped interior, and two exterior wiper/raker teeth.

DKN = double keyway, CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
300mm	3.2mm	2.2mm	30mm	24+2+2	CNL	2015.300.30
300mm	3.2mm	2.2mm	70mm	18+2+2	13x5+20x6.5	2015.300.70
300mm	3.2mm	2.2mm	80mm	18+2+2	14x5+22x6.5	2015.300.80
350mm	3.6mm	2.5mm	30mm	20+2+2	CNL	2015.350.30
350mm	3.6mm	2.5mm	70mm	20+2+2	13x5+20x6.5	2015.350.70
350mm	3.6mm	2.5mm	80mm	20+2+2	14x5+22x6.5	2015.350.80
400mm	4.0mm	2.8mm	30mm	24+4+2	CNL	2015.400.30
400mm	4.0mm	2.8mm	70mm	24+2+2	13x5+20x6.5	2015.400.70
400mm	4.0mm	2.8mm	80mm	24+2+2	14x5+22x6.5	2015.400.80
450mm	4.4mm	3.2mm	30mm	20+2+2	CNL	2015.450.30
450mm	4.4mm	3.2mm	70mm	28+2+2	13x5+20x6.5	2015.450.70
450mm	4.4mm	3.2mm	80mm	28+2+2	14x5+22x6.5	2015.450.80
500mm	4.4mm	3.2mm	30mm	22+2+2	CNL	2015.500.30
500mm	4.4mm	3.2mm	70mm	28+2+2	13x5+20x6.5	2015.500.70



OPTIMIZING SAW BLADES

2018

Carbide-tipped optimizing saw blades for cross-cutting/ optimizing saws. Alternate top bevel grind.

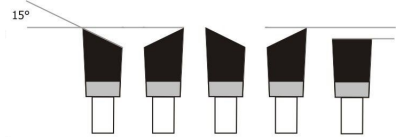
Diam. (D)	Kerf (B)	Bore (d)	Teeth (Z)	Pinholes	Part-No.
400mm	3.5mm	30mm	Z100	2/10/60	2018.400.30F
450mm	4.8mm	30mm	Z138	2/10/60	2018.450.30F
500mm	4.8mm	30mm	Z144	2/10/60	2018.500.30F
520mm	4.6mm	30mm	Z144	2/10/60	2018.520.30F
600mm	5.4mm	30mm	Z172	2/10/60	2018.600.30F

COMBINATION SAW BLADES

Carbide-tipped, this blade is designed for ripping and cross-cutting in solid wood, plywood and composite panels. Best choice for an all-round blade for a variety of materials.

Diam. (D)	Kerf (B)	Plate (b)	Bore (d)	Hook	Teeth (Z)	Part-No.
10"	.126"	.087"	5/8"	15°	50	2000.250C50
12"	.150"	.110"	1"	15°	60	2000.300C60
14"	.155"	.110"	1"	15°	70	2000.350C70
16"	.165"	.120"	1"	15°	80	2000.400C80

2000C



STACKABLE DADO BLADE SET

Standard Dado set consists of right and left hand saws, 4 flat top chippers and shims that allow fine width adjustment. Clean cutting for both rip and cross-cut.

Diam. (D)	Kerf (B)	Bore (d)	Teeth (Z)	Part-No.
8"	1/8" to 13/16"	5/8"	40	2500.240.10
10"	1/8" to 13/16"	5/8"	40	2500.250.10

2500



GROOVING BLADES

3008

Carbide-tipped, flat top grind, for grooving wood or panel products.
Also available in polycrystalline diamond for longer tool life.

D	B	d	# of Teeth	Part-No.
100mm	2mm	20mm	6	3008.100.20
100mm	3mm	20mm	6	3008.100.30
100mm	4mm	20mm	6	3008.100.40
100mm	5mm	20mm	6	3008.100.50
100mm	6mm	20mm	6	3008.100.60
100mm	7mm	20mm	6	3008.100.70
100mm	7mm	30mm	6	3008.101.70
100mm	8mm	20mm	6	3008.100.80
125mm	2mm	30mm	12	3008.125.20
125mm	2.5mm	30mm	12	3008.125.25
125mm	3mm	30mm	12	3008.125.30
125mm	4mm	30mm	12	3008.125.40
125mm	5mm	30mm	12	3008.125.50
125mm	6mm	30mm	12	3008.125.60
125mm	7mm	30mm	12	3008.125.70
125mm	8mm	30mm	12	3008.125.80
125mm	10mm	30mm	12	3008.125.10
150mm	2.5mm	30mm	12	3008.150.25
150mm	3mm	30mm	12	3008.150.30
150mm	3.5mm	30mm	12	3008.150.35
150mm	4mm	30mm	12	3008.150.40
150mm	5mm	30mm	12	3008.150.50
150mm	6mm	30mm	12	3008.150.60
150mm	8mm	30mm	12	3008.150.80
150mm	10mm	30mm	12	3008.150.10

Maximum RPM: 12,000 (100mm diameter)
10,000 (125mm diameter)
8,000 (150mm diameter)



GROOVING BLADES

3009

Carbide-tipped grooving blades, Designed for mechanical feed. Thinner blades, (1.5mm—2.5mm kerf) are limited to a grooving depth of 20mm due to the blades center hub reinforcement.

150mm diameter blades should run at 5000-8000 rpm

180mm diameter blades should run at 4500-7000 rpm

D	B	d	# of Teeth	Part-No.
150mm	1.5mm	30mm	18	3009.150.15
150mm	2.0mm	30mm	18	3009.150.20
150mm	2.5mm	30mm	18	3009.150.25
150mm	3.0mm	30mm	18	3009.150.30
150mm	3.5mm	30mm	18	3009.150.35
150mm	4.0mm	30mm	18	3009.150.40
150mm	5.0mm	30mm	18	3009.150.50
150mm	6.0mm	30mm	18	3009.150.60
150mm	7.0mm	30mm	18	3009.150.70
150mm	8.0mm	30mm	18	3009.150.80
150mm	10mm	30mm	18	3009.150.01
180mm	4.0mm	30mm	18	3009.180.40
180mm	5.0mm	30mm	18	3009.180.50
180mm	6.0mm	30mm	18	3009.180.60
180mm	8.0mm	30mm	18	3009.180.80
180mm	10mm	30mm	18	3009.180.01



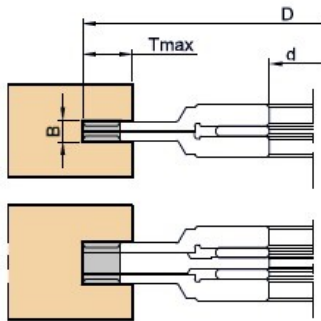
ADJUSTABLE INSERT GROOVING CUTTER

4.538/4.546

This grooving cutter, which is designed with very economical solid carbide insert knives, can accommodate a range of kerf widths by adding or removing the precision spacers (0.1mm increments) which are included with the tool. Excellent for use on hard- and softwoods cutting with and cross-grain. Also suitable for use on wood composites, plywood, etc. The tool body is steel construction.

Diam. (D)	Kerf (B)	Bore (d)	Z	V	T-max	Part-No.
160mm	4-7.5mm	Specify	8	4	32mm	4.538.160.75
	4-15mm	Specify	8	4	32mm	4.538.160.15
	8-15mm	Specify	4	4	32mm	4.546.160.15
	12.6-24mm	Specify	4	4	32mm	4.546.160.24
180mm	4-7.5mm	Specify	8	4	38mm	4.538.180.75
	4-15mm	Specify	8	4	38mm	4.538.180.15
	8-15mm	Specify	4	4	38mm	4.546.180.15
	12.6-24mm	Specify	4	4	38mm	4.546.180.24

Replacement Inserts: Item# 4200.008.00 7.5x12x1.5mm (B=4-15mm)
 item# 4200.018.20 18x18x1.95mm (B=4-7.5mm)
 Item# 4200.014.12 14x14x1.2 Spur



4.538



4.546

INSERT GROOVING CUTTER

4.518/4.551

This grooving cutter design has a fixed grooving width and uses economical solid carbide insert knives to produce precision groove cuts. Excellent for use on hard- and softwoods cutting with and cross-grain. Also suitable for use on wood composites, plywood, etc. The tool body is steel construction.

Diam. (D)	Kerf (B)	Bore (d)	Z	V	T-max	Part-No.
120mm	4mm	Specify	4	4	27mm	4.551.120.04
	5mm	Specify	4	4	27mm	4.551.120.05
	6mm	Specify	4	4	27mm	4.551.120.06
140mm	4mm	Specify	4	4	32mm	4.551.140.04
	5mm	Specify	4	4	32mm	4.551.140.05
	6mm	Specify	4	4	32mm	4.551.140.06
	8mm	Specify	4	4	32mm	4.518.140.08
	10mm	Specify	4	4	32mm	4.518.140.10
	12mm	Specify	4	4	32mm	4.518.140.12
	15mm	Specify	4	4	32mm	4.518.140.15

Replacement Inserts: Item# 4200.018.20 18x18x1.95mm (B=4mm)
 item# 4200.018.25 18x18x2.45mm (B=5mm)
 Item# 4200.018.30 18x18x2.95mm (B=6mm)
 Item# 4200.008.00 7.5x12x1.5mm (B=8mm)
 Item# 4200.096.00 9.5x12x1.5mm (B=10mm)
 Item# 4200.11.6.00 11.6x12x1.5mm (B=12mm)
 Item# 4200.146.00 14.6x12x1.5mm (B=15mm)
 Item# 4200.014.12 14x14x1.2mm Spur (B4-6mm)
 Item# 4200.014.04 14x14x2.0mm Spur (B8-15mm)



4.551



4.518

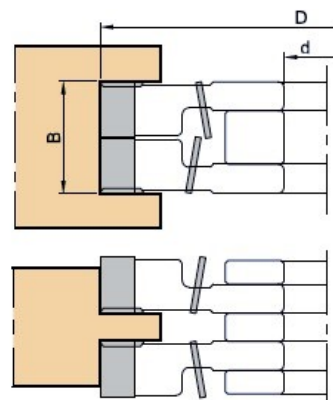
ADJUSTABLE REBATE CUTTER

4.530

Adjustable insert groove and rebate cutter suitable for use on solid wood (hard- and soft-woods) as well as other wood composite materials such as particleboard and MDF. Cutter body is steel construction and utilizes reversible solid carbide insert knives which guarantee constant cutting diameter and accuracy of cut. Exceptionally cost-efficient in operation. This tool features an opposite shear angle design to provide superior surface finish quality. The cutting width is adjustable by 0.1mm increments by adding or removing spacers that are supplied with the tool. This tool is a 4 wing design with 2 spur knives top and bottom for clean inside corners.

Diam. (D)	Kerf (B)	Bore (d)	Z	V	T-max	Part-No.
160mm	16-30mm	Specify	4	4	37mm	4.530.160.30
160mm	21-40mm	Specify	4	4	37mm	4.530.160.40
160mm	31-60mm	Specify	4	4	37mm	4.530.160.60
160mm	51-100mm	Specify	4	4	37mm	4.530.160.10

Replacement Inserts: Item# 4200.015.00 15x12x1.5mm (B=16-30mm)
 item# 4200.020.00 20x12x1.5mm (B=21-40mm)
 Item# 4200.030.00 30x12x1.5mm (B=31-60mm)
 Item# 4200.050.00 50x12x1.5mm (B=51-100mm)
 Item# 4200.014.04 14x14x2 Spur (all sizes)



JOINTING AND REBATING CUTTER

4.513/4.536

Insert jointing and rebate cutter suitable for solid wood and wood composite materials. The tool body is steel, and features reversible solid carbide insert knives for very economical machining. 2 spurs on the top and bottom assure clean inside corners on rebate cuts. 4.513 cutting edges are positioned axial straight, while 4.536 has a opposite shear effect to help improve surface finish on materials that are more challenging to get a clean edge. Available in 2 and 4 wing style.

Diam. (D)	Kerf (B)	Bore (d)	Z	V	RPM	Part-No.
100mm	50mm	Specify	2	4	7800-13300	4.513.100.50
100mm	50mm	Specify	4	4	7800-13300	4.513.100.51
125mm	30mm	Specify	2	4	6200-10600	4.513.125.30
125mm	30mm	Specify	4	4	6200-10600	4.513.125.31
125mm	50mm	Specify	2	4	6200-10600	4.513.125.50
125mm	50mm	Specify	4	4	6200-10600	4.513.125.51
125mm	60mm	Specify	2	4	6200-10600	4.513.125.60
125mm	50mm	Specify	4	4	6200-10600	4.536.125.50
140mm	50mm	Specify	4	4	5500-9500	4.536.140.50
147mm	50mm	40mm	4	4	5200-9000	4.536.147.50

Replacement Inserts: Item# 4200.030.00 30x12x1.5mm (B=30mm)
 Item# 4200.050.00 50x12x1.5mm (B=50mm)
 Item# 4200.014.04 14x14x2 Spur (all sizes)



4.513



4.536

JOINTING/PLANING CUTTER

4.505

Stackable insert jointing/planing cutter suitable for machining solid wood (hard- and soft-wood) as well as other wood composite boards. For use on moulders and shapers. Steel body construction and reversible solid carbide insert knives make this a very economical tool to run in production. Suitable for manual or automatic feed machines. When stacking tools, they are secured via locking pins to prevent spinning on the shaft.



Diam. (D)	Kerf (B)	Bore (d)	RPM	Z	Part-No.
80mm	50mm	45mm	9600-16000	4	4.505.080.50
100mm	30mm	Specify	7800-13300	4	4.505.100.30
100mm	50mm	Specify	7800-13300	4	4.505.100.50
125mm	30mm	Specify	6200-10600	4	4.505.125.30
125mm	50mm	Specify	6200-10600	4	4.505.125.50
125mm	60mm	Specify	6200-10600	4	4.505.125.60
125mm	80mm	Specify	6200-10600	4	4.505.125.80

Replacement Inserts: Item# 4200.030.00 30x12x1.5mm (B=30mm)
 Item# 4200.050.00 50x12x1.5mm (B=50mm)
 Item# 4200.060.00 60x12x1.5mm (B=60mm)
 Item# 4200.080.00 80x13x2.2mm (B=80mm)

JOINTING/PLANING CUTTER WITH SHEAR

4.535

Insert jointing/planing cutter suitable for machining solid wood (hard- and softwood) as well as other wood composite boards, particularly those where surface finish is critical. The opposite shear design of this tool provides a clean, compression style cut to deliver excellent finish quality on both sides of laminated panels. For use on moulders and shapers. Steel body construction and reversible solid carbide insert knives make this a very economical tool to run in production. Suitable for manual or automatic feed machines. Cutter features a double keyway



Diam. (D)	Kerf (B)	Bore (d)	RPM	Z	Part-No.
100mm	56mm	30mm	7800-13300	3+3	4.535.100.56
125mm	56mm	Specify	6200-10600	3+3	4.535.125.56
150mm	56mm	Specify	5200-8900	3+3	4.535.150.56
180mm	56mm	Specify	4300-7400	3+3	4.535.180.56

Replacement Inserts: Item# 4200.030.00 30x12x1.5mm

LAMELLO BISCUIT JOINT CUTTER

Grooving cutter for biscuit joiners in soft and hardwood. Provides excellent finish cutting both with grain and cross grain in soft and hardwoods. For production of door frames, picture frames and other miter joint connections. Solid carbide replacement insert design provides very economical use in production.

Diam. (D)	Kerf (B)	Bore (d)	Z	V	Pinholes	Part-No.
100mm	3.97mm	22mm	4	4	4/4.5/36	3020.100.22

Replacement Inserts: Item# 4200.018.20 18x18x1.95mm
Item# 4200.014.12 14x14x1.2 Spur

See Page 40 for Item 6374 Shank Adapter to use on CNC machines.

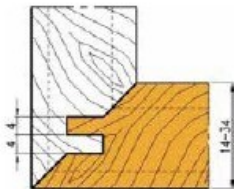


MITER JOINT CUTTER

Insert Glue Joint cutter for use in hard and softwoods cutting with and cross grain, and also suitable for other wood composite panel products. Tool body is steel construction and profile solid carbide insert knives provide constant profile accuracy and perfect match. Suitable for both manual and automatic feed machines.

Diam. (D)	Kerf (B)	Bore (d)	RPM	Z	Groove	Part-No.
180mm	35mm	Specify	4300-7400	2	2	4.534.180.35

Replacement Inserts: Item# 768.601 50x12x1.5



4.534



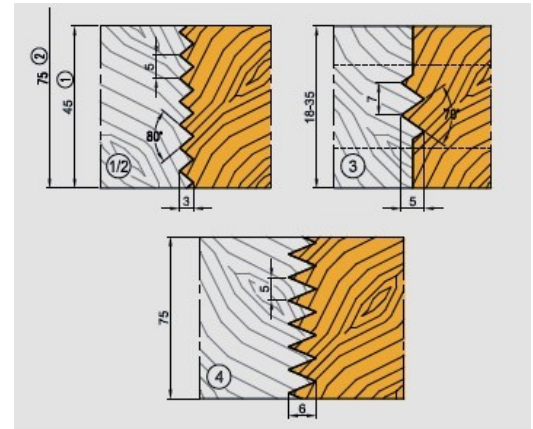
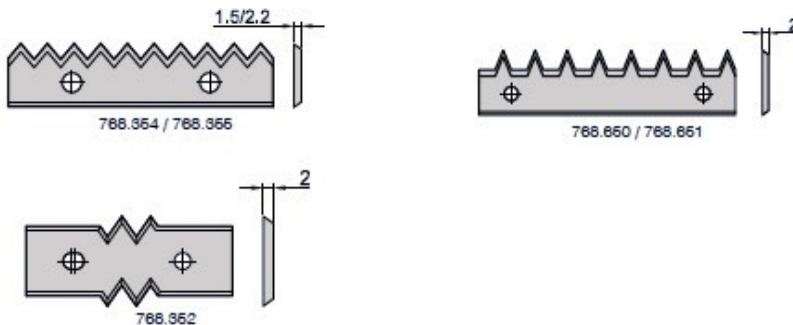
GLUE JOINT CUTTER

4.532

Insert Glue Joint cutter for use in hard and softwoods cutting with the grain. Tool body is steel construction and profile solid carbide insert knives provide constant profile accuracy and perfect match. Suitable for both manual and automatic feed machines.

Nr.	Diam. (D)	Kerf (B)	Bore (d)	RPM	Z	Part-No.
1	125mm	50mm	Specify	6200-10600	2	4.532.125.50
1	125mm	50mm	Specify	6200-10600	3	4.532.125.51
2	125mm	80mm	Specify	6200-10600	3	4.532.125.80
3	125mm	50mm	Specify	6200-10600	3	4.532.125.52
4	125mm	80mm	Specify	6200-10600	3	4.532.125.81

Replacement Inserts: Item# 768.354 50x12x1.5 (Nr. 1)
 Item# 768.355 80x13x2.2 (Nr. 2)
 Item# 768.352 50x22x2 (Nr. 3)
 Item# 768.650 80x20x2 (Nr. 4)
 Item# 768.651 80x20x2 (Nr. 4)



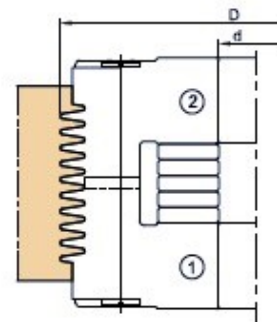
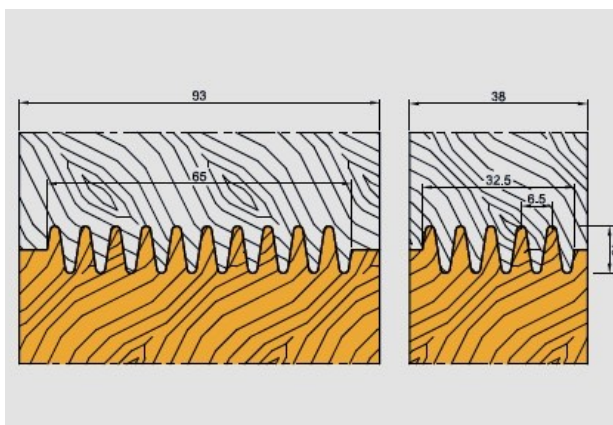
ADJUSTABLE GLUE JOINT CUTTER

4.594

Insert Glue Joint cutter for use in hard and softwoods cutting cross grain. Tool body is steel construction and profile solid carbide insert knives provide constant profile accuracy and perfect match. Suitable for both manual and automatic feed machines.

Diam. (D)	Kerf (B)	Bore (d)	RPM	Z	Part-No.
160mm	100mm	Specify	4800-8300	3	4.594.160.10

Replacement Inserts: Item# 768.403 50x25x2 (1)
 Item# 768.404 50x25x2 (2)



EDGE CHAMFERING/CORNER ROUNDING CUTTER

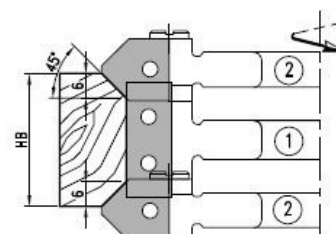
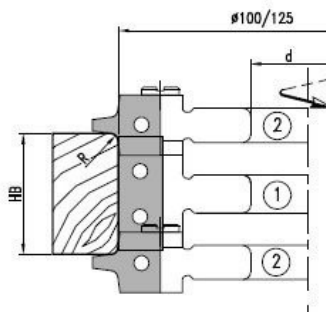
4.524

This adjustable jointing, chamfering and round over cutter head is suitable for use on soft and hardwood, cutting either with or cross grain. The tool body is constructed of steel with top and bottom optional chamfering (7mmx45°) or radius round-over insert knives available in a variety of radius sizes shown below. Offers great versatility in edge machining.

Nr.	D	B	d	Z	Part-No.
1	100mm	30mm	Specify	2	4.524.100.30
1	100mm	50mm	Specify	2	4.524.100.50
2	113mm	16mm	Specify	2	4.524.113.16
1	125mm	30mm	Specify	3	4.524.125.30
1	125mm	50mm	Specify	3	4.524.125.50
2	137mm	16mm	Specify	3	4.524.137.16
2	146mm	25mm	Specify	3	4.524.146.25

Nr.	Radius/Bevel	HB min-max
1	R2-6/45°	14-33mm
1	R8-10/45°	21-44mm
2	R2-6/45°	18-53mm
2	R8-10/45°	25-64mm

Insert	Part-No.	Insert	Part-No.
30mm	4200.030.00	R6	765.105
50mm	4200.050.00	R8	765.107
R2	765.101	R10	765.109
R3	765.102	7x45°	765.501
R4	765.103	10x45°	765.502
R5	765.104		



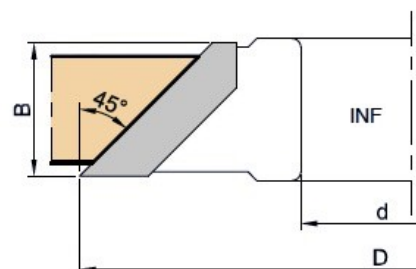
EDGE CHAMFERING CUTTER

4.544

This chamfering cutter is suitable for use on soft and hardwoods, cutting either with or cross grain. Also suitable for use on wood composites such as MDF, plywood and particleboard.

Diameter	Width	Bore	# of wings	Part-No.
175mm	50mm	Specify	4	4.544.175.50

Replacement Inserts: Item# 4200.050.00 50x12x1.5mm



VARI-ANGLE INSERT CUTTER

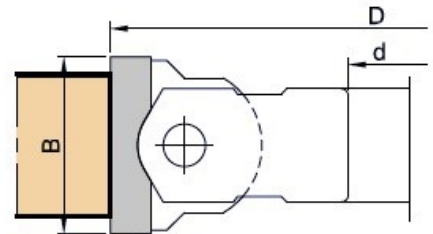
4.510

This adjustable angle jointing/chamfering insert cutter is suitable for cutting soft and hard woods either with or cross-grain. Steel or Aluminum body construction (M) with two and three wing design (Z), featuring reversible solid carbide cutting edges. Exceptionally economical production tool.

Available in various diameters, Cut Lengths (Kerf) and varying increments of adjustment capability (I) and maximum adjustment options ranging from 45-90°(T).

D	D max	Kerf	Bore (d)	Z	I	T	M	Rpm min-max	Part-No.
110mm	127mm	40mm	Specify	2	7.5°	45°	S	7000-9000	4.056.110.30
120mm	137mm	40mm	Specify	2	7.5°	45°	A	6400-8500	4.056.120.30
130mm	155mm	50mm	Specify	2	7.5°	67°	S	5000-8500	4.056.130.50
140mm	163mm	50mm	Specify	2	1°	60°	S	5500-7500	4.510.140.50
150mm	173mm	50mm	Specify	2	7.5°	90°	S	5100-7400	4.056.150.50
160mm	183mm	50mm	Specify	2	INF	90°	A	4800-6000	4.058.160.50
170mm	193mm	50mm	Specify	2	1°	60°	S	4500-6000	4.510.170.50
170mm	193mm	60mm	Specify	2	INF	90°	A	4500-6000	4.058.170.60
170mm	218mm	80mm	Specify	3	1°	60°	S	4500-6000	4.510.170.80

Replacement Inserts: Item# 4200.040.00 40x12x1.5mm (for Kerf=40mm)
 Item# 4200.050.00 50x12x1.5mm (for Kerf=50mm)
 Item# 4200.060.00 60x12x1.5mm (for Kerf=60mm)
 Item# 4200.080.00 80x13x2.2mm (for Kerf=80mm)



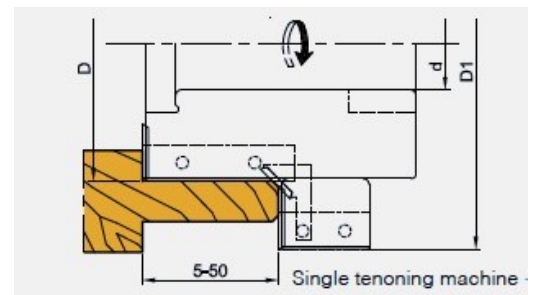
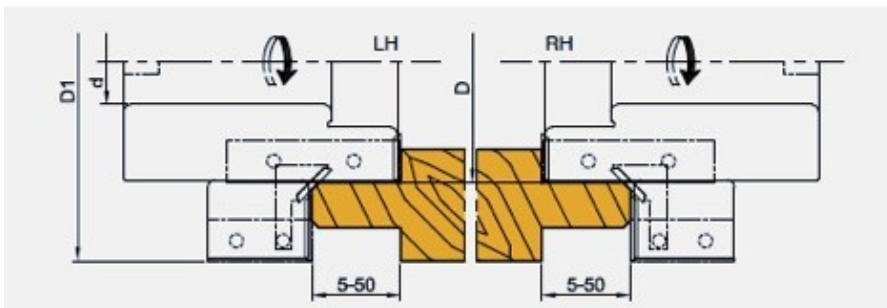
TENON INSERT CUTTER

4.560

This insert tenon cutter features a steel body designed with reversible solid carbide insert knives and 4-sided solid carbide spurs. Constant cutting diameter and cutting height, as well as very economical operational cost is provided by incorporating standard inserts into the design of this tool. The tenon length can be adjusted from 5 to 50mm. For use on single and double end tenoners such as Bacci, Greda, Pade, Balestrini etc.

D	D1	B	Bore (d)	Z	V	rpm max	Part-No.
60mm	80mm	10-35mm	25mm	3/6	3/6	11,600	4.560.060.35
70mm	115mm	5-50mm	25mm	3/6	3/6	11,600	4.560.070.50
90mm	135mm	5-50mm	30mm	3/6	3/6	10200	4.560.090.50

Replacement Inserts: Item# 4200.030.00 30x12x1.5mm
 Item# 4200.050.00 50x12x1.5mm
 Item# 4200.014.04 14x14x2mm

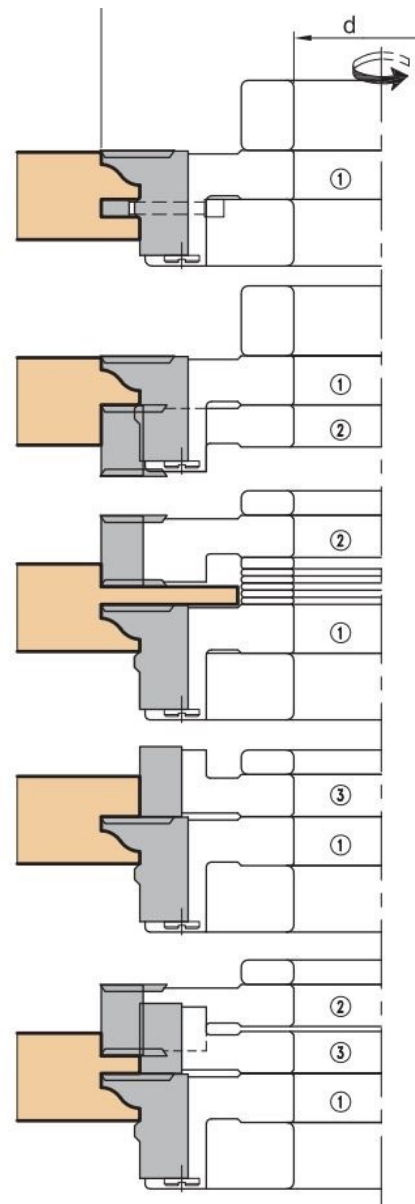
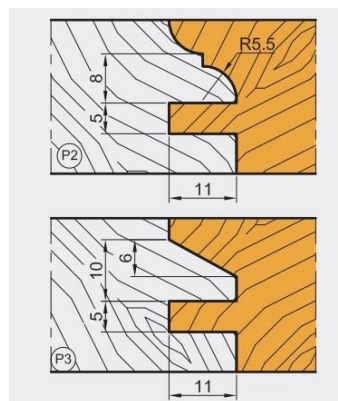
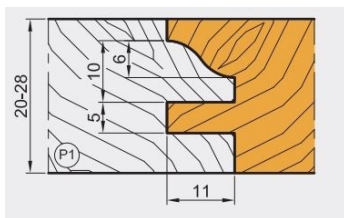


COPE AND STICK PROFILE INSERT TOOLS

4.520

Multiple tool body cutter sets to produce 3 different cope and stick (stile and rail) cabinet door profiles utilizing solid carbide reversible insert knives. Excellent finish when cutting with- or cross grain solid wood. Tool body is steel construction and insert design provides constant cutting diameter and exact profile match with every setup. Standard profiles are shown below, but we also manufacture these tooling sets to meet customer's exact specification of diameter, bore and profile detail. For use on moulders, shapers, etc. these cutters can also be supplied on a CNC Arbor Adapter (sold separately) for use on CNC Machining Centers. Profile Inserts for Tool#1 are not included and sold separately. For Custom Profiles, please send a drawing, sketch or sample to obtain price and lead time. Rpm: 4800 - 8300.

Tool#	Diam. (D)	Width	Bore (d)	Z	Part-No.
1+2+3 Set	160mm		Specify	3	4.520.160.00
Individual Cutters:					
1	160mm	30mm	Specify	3	4.520.160.30
2	160mm	20mm	Specify	3	4.520.160.20
3	138mm	20mm	Specify	3	4.520.138.20
Insert Knives					
P1	30x25x2				4.520.201
P2	30x25x2				4.520.102
P3	30x25x2				4.520.103



TONGUE AND GROOVE INSERT CUTTERS

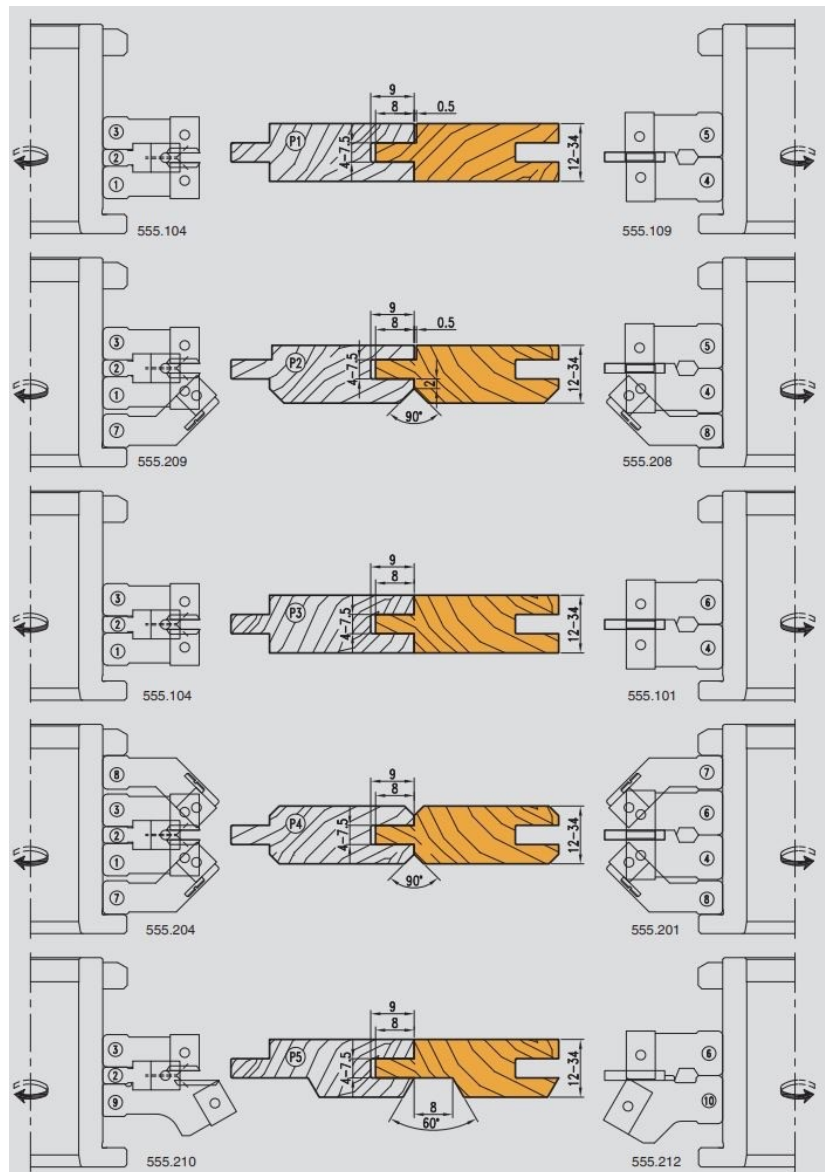
4.555

Multi-tool T&G cutter sets to produce tongue and groove flooring profiles in solid wood. Also suitable for use on wood composite materials. Five standard profile solutions offer an adjustable material thickness from 12 to 34mm in thickness. For use on moulders, tenoners and shapers. Steel body construction with reversible solid carbide insert knives produce exact profile matches with every tool change. Tools are supplied on a 60mm diameter sleeve for easy installation (shown below). Specify i.d. required. Max. rpm 8000

Nr.	D	B	d	Z	Groover	V+C	Part-No.
1	140mm	15mm	60mm	4		2+2	4.555.105
2	124mm	12mm	60mm	2			4.555.107
3	140mm	15mm	60mm	4		2+2	4.555.106
4	140mm	20mm	60mm	4	2		4.555.103
5	141mm	20mm	60mm	4	2		4.555.207
6	140mm	20mm	60mm	4	2		4.555.102
7	154.4mm	11.6mm	60mm	2			4.555.202
8	154.4mm	11.6mm	60mm	2			4.555.203
9	171mm	15mm	60mm	4		2+2	4.555.120
10	159mm	20mm	60mm	4	2		4.555.121

Replacement Inserts: Item# 4200.116.00
Item# 4200.012.00
Item# 4200.015.00
Item# 4200.020.00
Item# 783.101 (Groove Knife)

Item numbers shown on diagram to the right are for a tool set as shown comprised of 3, 4 or 5 tools respectively.



PLANING CUTTER

4.506

Planing cutter for use on planers and moulders. Tool body constructed of light alloy material to reduce weight and stress on motor bearings. Standard HSS or Tungsten Carbide (TCT) planer knives 30mm high x 3mm thick can be used with this cutter. Max rpm 9000. Also available in steel body execution and different bore sizes (special order).

Diameter	B	Bore	Z	Part-Nr.
125mm	80mm	40mm	4	4.506.125.80
125mm	100mm	40mm	4	4.506.125.10
125mm	120mm	40mm	4	4.506.125.12
125mm	130mm	40mm	4	4.506.125.13
125mm	150mm	40mm	4	4.506.125.15
125mm	180mm	40mm	4	4.506.125.18
125mm	220mm	40mm	4	4.506.125.22
125mm	230mm	40mm	4	4.506.125.23
125mm	240mm	40mm	4	4.506.125.24



HELICAL INSERT PLANING CUTTER

4.539

Helical Insert Planing cutter for use on planers and moulders. Tool body constructed of light alloy material to reduce weight and stress on motor bearings. Helical design improves chip clearance and runs smoother and quieter. Utilizes four-sided solid carbide insert knives that are forced into proper position when the insert is tightened onto the tool body. Excellent performance and cost-effectiveness. Max rpm 9000. Also available in steel body execution and different bore sizes (special order). The 80mm cutter is a perfect fit for copy shapers!

Diameter	B	Bore	Z	Part-Nr.
80mm	100mm	1.1/4"	3/24	4.539.080.10
125mm	100mm	40mm	3/30	4.539.125.10
125mm	130mm	40mm	3/36	4.539.125.13
125mm	180mm	40mm	3/48	4.539.125.18
125mm	230mm	40mm	3/60	4.539.125.23

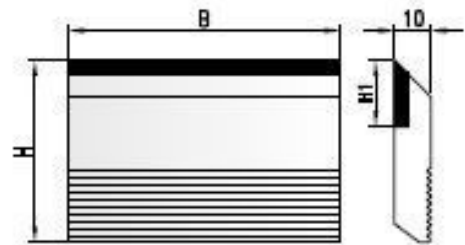


CARBIDE-TIPPED CORRUGATED KNIFE BARS

1090

Carbide-tipped knife stock bars for cut-to-size profile knife needs feature a standard 60° corrugation and a "Weinig" bevel on the bottom of the knife. For use on standard moulder and hydro heads as well as CNC corrugated profile knife adapter. Bars are available in carbide inlay height from 15mm for shallow profiles, to 20, 25 and 35mm inlay (TCT Height) to accommodate deeper profiles. As these knives are profiled, they are supplied with an unsharp edge. 90° corrugations and special sizes are available on request!

Length (B)	Height (H)	Thickness	TCT Height (H1)	Part-No.
25"	.1-1/2"	.5/16"	15mm	1090S635I15
25"	.2"	.5/16"	20mm	1090U635I20
25"	.2"	.5/16"	25mm	1090U635I25
25"	2-1/2"	.5/16"	35mm	1090C635I35
635mm	40mm	10mm	15mm	1090L635K15
635mm	50mm	10mm	20mm	1090V635K20
635mm	60mm	10mm	25mm	1090W635K25
635mm	70mm	10mm	35mm	1090X635K35

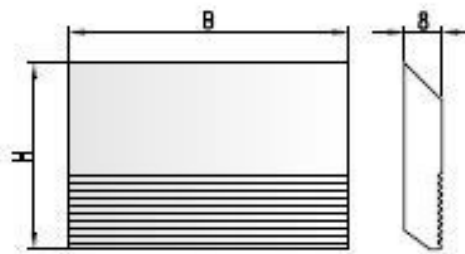


HIGH SPEED STEEL CORRUGATED KNIFE BARS

1590

HSS knife stock bars for cut-to-size profile knife needs feature a standard 60° corrugation and a "Weinig" bevel on the bottom of the knife. For use on standard moulder and hydro heads as well as CNC corrugated profile knife adapter.

Length	Height	Thickness	Part-No.
25"	.1-1/2"	.5/16"	1590S635I60
25"	.1-3/4"	.5/16"	1590T635I60
25"	.2"	.5/16"	1590U635I60
25"	2-1/4"	.5/16"	1590Z635I60
25"	2-1/2"	.5/16"	1590G635I60
25"	2-3/4"	.5/16"	1590C635I60

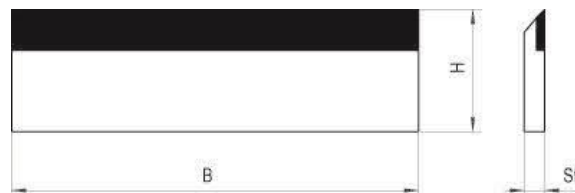


CARBIDE-TIPPED PLANER KNIVES

1001

Carbide-tipped planer knives for all hard woods (especially exotics), pressboard, phenolic resin bonded paper etc. Available in knife height 25, 30 and 35mm.

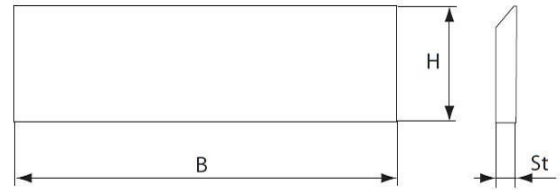
Length (B)	Height (H)	Thickness (St)	Part-No.
60mm	30mm	3mm	1001.060.30
80mm	30mm	3mm	1001.080.30
100mm	25mm	3mm	1001.100.25
100mm	30mm	3mm	1001.100.30
110mm	25mm	3mm	1001.110.25
110mm	30mm	3mm	1001.110.30
120mm	25mm	3mm	1001.120.25
120mm	30mm	3mm	1001.120.30
130mm	25mm	3mm	1001.130.25
130mm	30mm	3mm	1001.130.30
140mm	25mm	3mm	1001.140.25
140mm	30mm	3mm	1001.140.30
150mm	25mm	3mm	1001.150.25
150mm	30mm	3mm	1001.150.30
160mm	30mm	3mm	1001.160.30
170mm	30mm	3mm	1001.170.30
180mm	30mm	3mm	1001.180.30
200mm	30mm	3mm	1001.200.30
210mm	30mm	3mm	1001.210.30
230mm	25mm	3mm	1001.230.25
230mm	30mm	3mm	1001.230.30
250mm	30mm	3mm	1001.250.30
260mm	25mm	3mm	1001.260.25
260mm	30mm	3mm	1001.260.30
300mm	30mm	3mm	1001.300.30
310mm	25mm	3mm	1001.310.25
310mm	35mm	3mm	1001.310.35
350mm	35mm	3mm	1001.350.35
400mm	35mm	3mm	1001.400.35
410mm	25mm	3mm	1001.410.25
410mm	30mm	3mm	1001.410.30
410mm	35mm	3mm	1001.410.35
450mm	30mm	3mm	1001.450.30
450mm	35mm	3mm	1001.500.35
500mm	30mm	3mm	1001.500.30
500mm	35mm	3mm	1001.500.35
510mm	25mm	3mm	1001.510.25
510mm	30mm	3mm	1001.510.30
510mm	35mm	3mm	1001.510.35
530mm	30mm	3mm	1001.530.30
530mm	35mm	3mm	1001.530.35
600mm	30mm	3mm	1001.600.30
600mm	35mm	3mm	1001.600.35
610mm	30mm	3mm	1001.610.30
610mm	35mm	3mm	1001.610.35
630mm	30mm	3mm	1001.630.30
630mm	35mm	3mm	1001.630.35
640mm	30mm	3mm	1001.640.30
640mm	35mm	3mm	1001.640.35
710mm	30mm	3mm	1001.710.30
710mm	35mm	3mm	1001.710.35
810mm	25mm	3mm	1001.810.25
810mm	30mm	3mm	1001.810.30
810mm	35mm	3mm	1001.810.35
860mm	30mm	3mm	1001.860.30
860mm	35mm	3mm	1001.860.35



HIGH SPEED STEEL PLANER KNIVES

1501

Length (B)	Height (H)	Thickness (St)	Part-No.
60mm	30mm	3mm	1501.060.30
60mm	35mm	3mm	1501.060.35
80mm	30mm	3mm	1501.080.30
80mm	35mm	3mm	1501.080.35
100mm	30mm	3mm	1501.100.30
100mm	35mm	3mm	1501.100.35
110mm	30mm	3mm	1501.110.30
120mm	30mm	3mm	1501.120.30
120mm	35mm	3mm	1501.120.35
130mm	30mm	3mm	1501.130.30
130mm	35mm	3mm	1501.130.35
150mm	30mm	3mm	1501.150.30
150mm	35mm	3mm	1501.150.35
160mm	30mm	3mm	1501.160.30
160mm	35mm	3mm	1501.160.35
170mm	30mm	3mm	1501.170.30
180mm	30mm	3mm	1501.180.30
210mm	30mm	3mm	1501.210.30
230mm	30mm	3mm	1501.230.30
240mm	30mm	3mm	1501.240.30
260mm	30mm	3mm	1501.260.30
300mm	30mm	3mm	1501.300.30
310mm	30mm	3mm	1501.310.30
310mm	35mm	3mm	1501.310.35
350mm	30mm	3mm	1501.350.30
350mm	35mm	3mm	1501.350.35
400mm	30mm	3mm	1501.400.30
400mm	35mm	3mm	1501.400.35
410mm	30mm	3mm	1501.410.30
410mm	35mm	3mm	1501.410.35
450mm	30mm	3mm	1501.450.30
450mm	35mm	3mm	1501.450.35
500mm	30mm	3mm	1501.500.30
500mm	35mm	3mm	1501.500.35
510mm	30mm	3mm	1501.510.30
510mm	35mm	3mm	1501.510.35
520mm	30mm	3mm	1501.520.30
530mm	30mm	3mm	1501.530.30
530mm	35mm	3mm	1501.530.35
600mm	30mm	3mm	1501.600.30
600mm	35mm	3mm	1501.600.35
610mm	30mm	3mm	1501.610.30
610mm	35mm	3mm	1501.610.35
630mm	30mm	3mm	1501.630.30
630mm	35mm	3mm	1501.630.35
640mm	30mm	3mm	1501.640.30
640mm	35mm	3mm	1501.640.35
710mm	30mm	3mm	1501.710.30
710mm	35mm	3mm	1501.710.35
810mm	30mm	3mm	1501.810.30
810mm	35mm	3mm	1501.810.35
820mm	30mm	3mm	1501.820.30
860mm	30mm	3mm	1501.860.30
860mm	35mm	3mm	1501.860.35



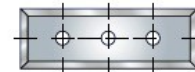
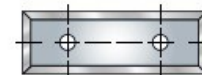
Tersa
Centrolock
Terminus
Centrofix
AVAILABLE ON REQUEST

STANDARD INSERT KNIVES

4200/4201/6419

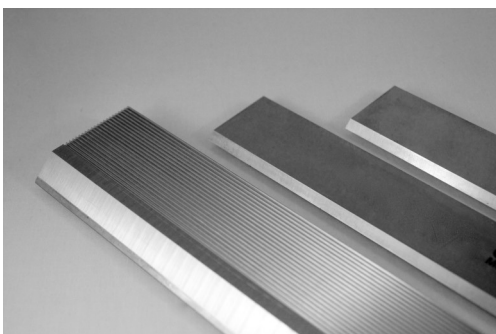
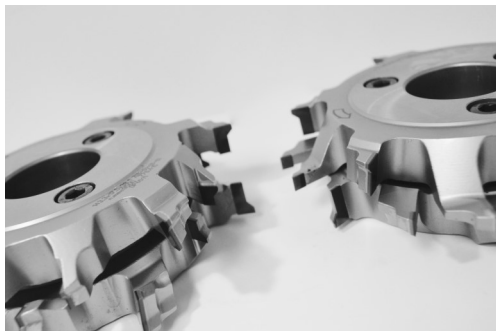
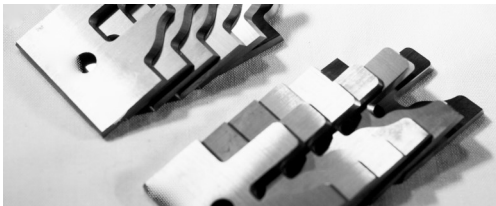
Solid Carbide Insert Knives for use on insert router bits and cutter heads. C/E denotes the number of cutting edges on the insert. Sold in boxes of 10 pcs.

Length (B)	Height (H)	Thickness	C/E	Special Remarks	Part-No.
7.5mm	12mm	1.5mm	2		4200.008.00
9mm	12mm	1.5mm	2		4200.009.00
9.6mm	12mm	1.5mm	2		4200.096.00
10.5mm	12mm	1.5mm	2		4200.105.00
11mm	12mm	1.5mm	2		4200.011.00
13mm	12mm	1.5mm	2		4200.013.00
15mm	12mm	1.5mm	2		4200.015.00
17mm	12mm	1.5mm	2		4200.017.00
18mm	12mm	1.5mm	2		4200.018.00
19mm	12mm	1.5mm	2		4200.019.00
20mm	12mm	1.5mm	2		4200.020.00
25mm	12mm	1.5mm	2		4200.025.01
25mm	12mm	1.5mm	2		4200.025.00
30mm	12mm	1.5mm	2		4200.030.00
40mm	12mm	1.5mm	2		4200.040.00
50mm	12mm	1.5mm	2		4200.050.00
60mm	12mm	1.5mm	2		4200.060.00
80mm	13mm	2.2mm	2		4200.080.00
100mm	13mm	2.2mm	2		4200.100.00
120mm	13mm	2.2mm	2		4200.120.00
20mm	12mm	1.5mm	4		6419.020.00
30mm	12mm	1.5mm	4		6419.030.00
40mm	12mm	1.5mm	4		6419.040.00
50mm	12mm	1.5mm	4		6419.050.00
60mm	12mm	1.5mm	4		6419.060.00
50mm	12mm	1.5mm	4		6419.050.00
20mm	5.5mm	1.1mm	4		4201.020.11
30mm	5.5mm	1.1mm	4		4201.030.11
40mm	5.5mm	1.1mm	4		4201.040.11
50mm	5.5mm	1.1mm	4		4201.050.11
9mm	9mm	1.5mm	4		4200.009.09
10.5mm	10.5mm	1.5mm	4		4200.105.15
12mm	12mm	1.5mm	4		4200.012.00
13mm	13mm	2.5mm	4		4200.013.25
17mm	17mm	2.0mm	4	3mm hole	4200.017.77
17mm	17mm	2.0mm	4	4mm hole	4200.017.17
10.5mm	10.5mm	1.5mm	4		4200.105.15
13mm	13mm	2.5mm	4		4200.013.25
14mm	14mm	1.2mm	4	HolzHer	4200.014.12
14mm	14mm	2.0mm	4		4200.014.04
15mm	15mm	2.5mm	4	Corner Radius, R150 Edge Radius	4200.015.11
15mm	15mm	2.5mm	4	R100 Edge Radius (Byrd Shelix)	4200.015.13
15mm	15mm	2.5mm	4	R100 Edge Radius 6.2mm hole	4200.015.14
15mm	15mm	2.5mm	4	Square Corner R50 Edge Radius	4200.015.17



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GDP | GUHDO tools are guaranteed against defects in design, workmanship and materials. They come with a performance and satisfaction guarantee, provided the tool has not been incorrectly used, misused, modified or serviced.

Shipping Procedures: All shipments are shipped via UPS unless otherwise specified.

Return Merchandise:

- Merchandise may be returned only with advance approval and RMA
- There is a 15% restocking fee on returned stock items
- Non-stock items will have a 25% restocking charge if approved for return
- Custom tooling is not returnable, neither are discontinued items.
- No merchandise may be returned after 6 months from the date of purchase.
- All return merchandise must be shipped freight prepaid.

Cancellation Policy By Order Type:

Standard (stock item) Orders can be cancelled without charge if they have not left our warehouse.

Non-stock items can be cancelled providing no cost has been incurred when the order is cancelled. Otherwise, a 25% restocking charge applies.

Custom orders can be cancelled but all costs incurred to the point of cancellation will be billed. If a custom order is cancelled and the order is already complete, the customer will be obligated to accept the tool.

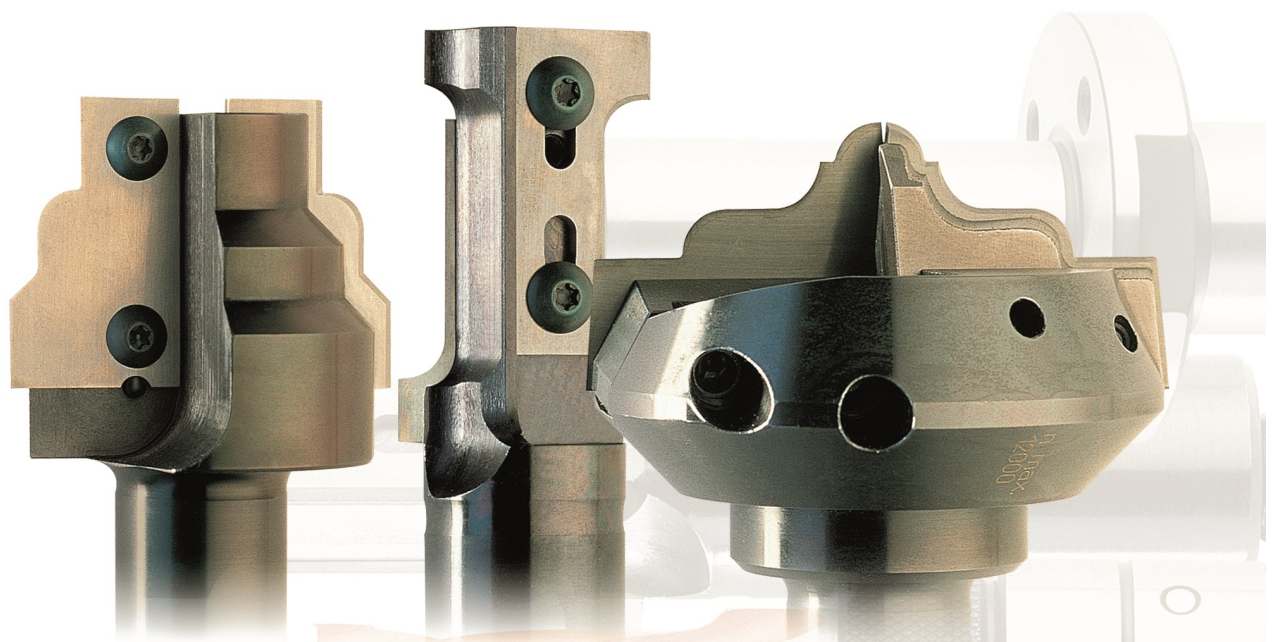
Terms:

All new accounts are shipped with credit card prepayment, unless a credit line has been established. Open accounts (net 30) are due 30 days from date of invoice. Past due accounts are subject to a finance charge at the periodic rate of 1.5% per month. Delinquent accounts will be subject to additional collection/legal costs.

All prices are FOB Marietta, GA.

All prices are subject to change without notice.





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