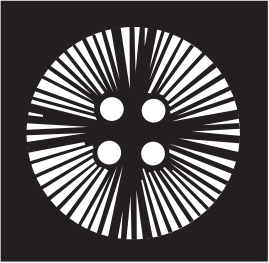


1905

Celebrating
100 Years of
Service!

2005



**SCHAEFER
BRUSH**TM
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1101 S. Prairie Ave. PO Box 148 Waukesha, WI 53187
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Fitting

Flue, Boiler &
Long Handletube

Furnace, Refrig.
& Radiator

Chimney

Indoor Air
Quality

Wash & Scrub

Accessories

Channel &
Beam Sweep

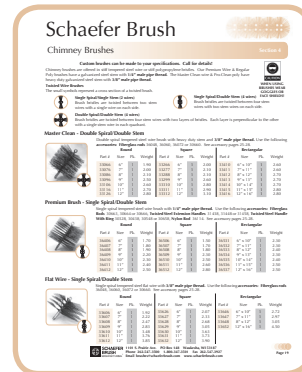
S-VECO

Tube

Paint Chip &
Parts Cleaning

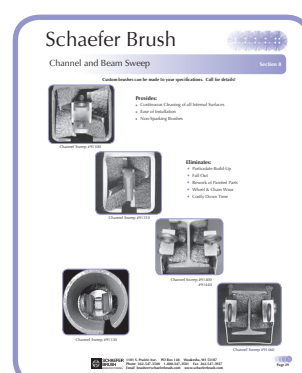
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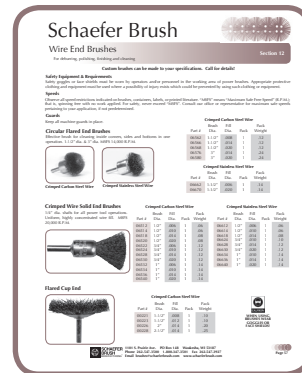
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Chimney Brushes



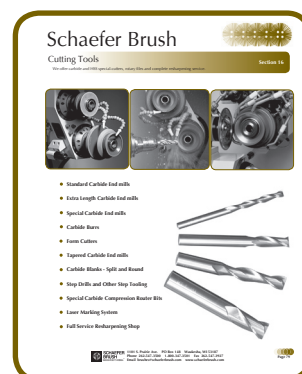
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Cutting Tools

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Call Schaefer Brush for your specific application 800-347-3501!

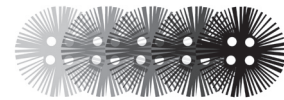


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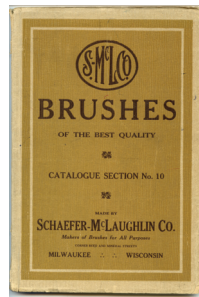
~Progression of Schaefer Brush (1905-current)~



1905



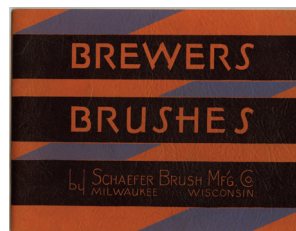
1905



1910



1915



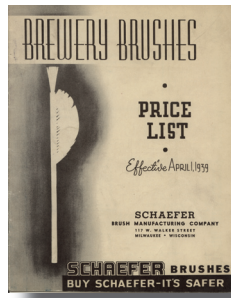
1920



1937



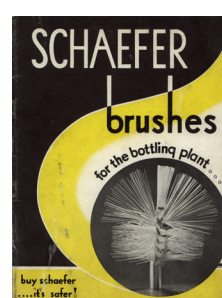
1938



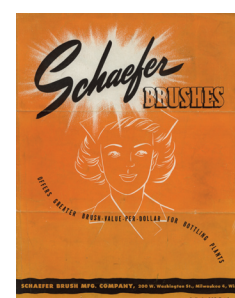
1939



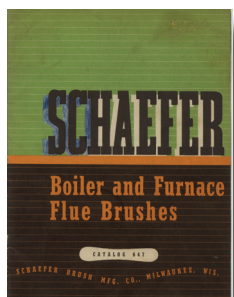
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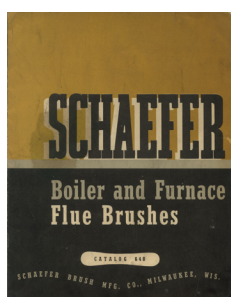
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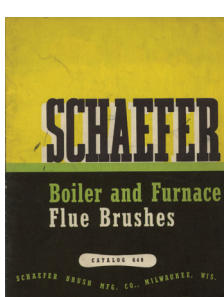
1946



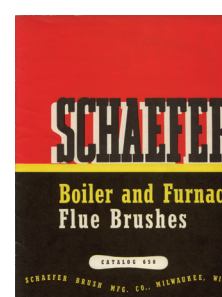
1947



1948



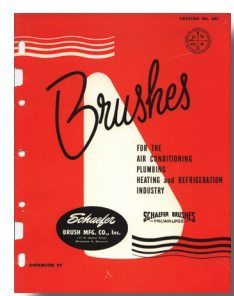
1949



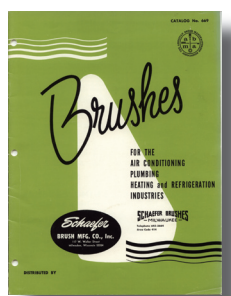
1950



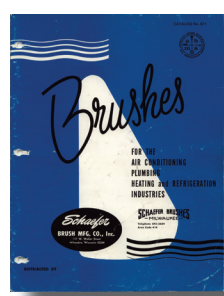
1959



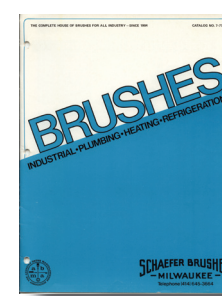
1961



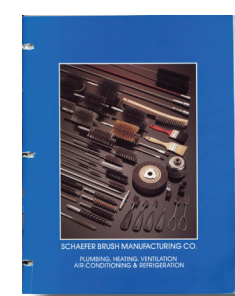
1969



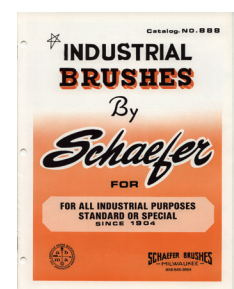
1971



1977



1984



1988



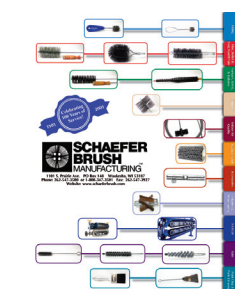
1990



1994



2000

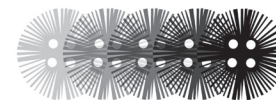


2005



Schaefer Brush Mfg. Co. Inc., Waukesha Wisconsin

~Serving the Industry for 100 Years~



Schaefer Brush was incorporated in Milwaukee, Wisconsin in 1905. Our fourth generation family owned and operated company has been dedicated to designing and manufacturing standard custom brushes and brushing systems for a variety of industries. What makes us so good? Experience! Dedication! Honesty! We've been providing quality service and affordable solutions for 100 years!

Our mission statement, "To provide the best quality products with competitive pricing and the highest level of service in the industry" holds true today. Accompanied by our vision statement, "Schaefer Brush continues to improve performance, processes and staff to exceed our customer's expectations and requirements. *Improvement* is the result of training, education, guidance and empowerment provided to our employees". These are the guidelines by which Schaefer Brush management and staff continue to operate.

Schaefer Brush is well known for employee retention and longevity. It is common to find staff that has been with Schaefer for 10, 20, or 30 years, in a variety of positions (a recent brush maker celebrated his 43rd anniversary!) We are not only a place of employment, we are a company who cares about the customer, our employees and our future together!

We believe in and focus strongly on developing a culture that encourages active participation by all employees. The training received in team building produced a spirit that has given us flexibility to make decisions to meet our customers' needs. Our highest achievements are measured in customer satisfaction and loyalty. We are committed to develop and maintain accounts by establishing close, long term relationships. This has been achieved by meeting our customers' needs through trust, commitment and excellent performance. Why go anywhere else? What you need is here, under our roof!

Schaefer Brush operates with honesty and integrity in all business conducted. We work in partnership toward win-win situations with our customers, team members and suppliers. Quality is an every day practice and belief that is instilled by pride...it will not be obtained by mediocre performance. Our ability to learn, adapt, change and continuously improve is our driving force, one that stays strong year after year.

While twisted-in-wire brushes continue to be our main focus, custom or specialty brushes, accompanied by development of complete brushing systems, are exclusively designed and made for many Schaefer customers. To complement our line of quality brushes, we now offer a quality line of carbide and special high speed steel cutting tools (solid carbide tapered end mills and step drills). This superior service represents a growing part of our business. We take great pride in our ability to work with customers in the development of a brush or patented cutting tool perfectly suited to a specific application.

Our "S-VECO" Linear Conveyor Cleaning Units have proven successful. These units fit well in many applications, from wood working, metal mills, to mining. Customers are finding value with this simple brushing system. The S-VECO has an ultra high linear brush speed. This creates centrifugal force which, combined with the opening of the brush pattern as the brush travels around the sheaves, aids by removing the particulate it has swept across the object being brushed. The debris captured can be released to a specific collection point, such as a dumpster or vacuum chute.

Schaefer Brush stands ready to assist you in evaluating your problems, quote on a standard or special brush, quote custom brushing applications or systems, or provide you with the highest quality of carbide and high speed cutting tools. At Schaefer, customer service is not a department, but a commitment!



Historic Catalogs

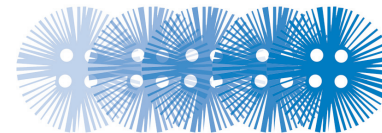
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Schaefer Brush



Fitting Brushes

Section 1

For cleaning, scoring and preparing copper fittings and tubes for soldering.

Custom brushes can be made to your specifications. Call for details!

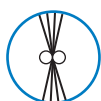
**Consider our Premium Fitting Brush when making your selection.
The Highest Quality, Finest Fitting Brush Available!**

- Spring tempered stainless steel wire bristles. Precision trimmed to ensure maximum contact of the bristle ends and cutting edges.
- Interlaced double spiral construction
- Quadruple galvanized steel stems
- Premium Fitting Brushes are individually boxed and bar coded.



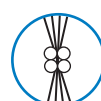
Twisted Wire Brushes

The small symbols represent a cross section of a twisted brush.



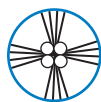
Single Spiral/Single Stem (2 wire)

Brush bristles are twisted between two stem wires with a single wire on each side.



Single Spiral/Double Stem (4 wire)

Brush bristles are twisted between four stem wires with two stem wires on each side.



Double Spiral/Double Stem (4 wire)

Brush bristles are twisted between four stem wires with two layers of bristle. Each layer is perpendicular to the other with a single stem wire in each quadrant.

Safety Equipment & Requirements

Safety goggles or face shields must be worn by operators and/or personnel in the working area of power brushes. Appropriate protective clothing and equipment must be used where a possibility of injury exists.



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Speeds

Observe all speed restrictions indicated on brushes, containers, labels, or printed literature. "MSFS" means "Maximum Safe Free Speed" (RPM); that is, spinning free with no work applied. For safety, never exceed "MSFS". Consult our office or representative for maximum safe speeds pertaining to your application.

Guards

Keep all machine guards in place.

Fitting Brush Sizes & Actual Brush Diameters

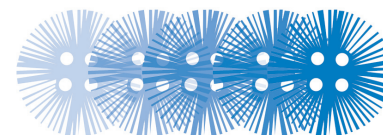
Fitting brushes are referred to by the size fitting they are designed to clean.

Plumbing ID Brush and Fitting Size	Refrigeration OD Brush and Fitting Size	Actual Brush Diameter	Plumbing ID Brush and Fitting Size	Refrigeration OD Brush and Fitting Size	Actual Brush Diameter
1/8"	1/4"	9/32"	1"	1-1/8"	1-3/16"
1/4"	3/8"	7/16"	1-1/4"	1-3/8"	1-7/16"
3/8"	1/2"	9/16"	1-1/2"	1-5/8"	1-3/4"
1/2"	5/8"	11/16"	2"	2-1/8"	2-1/4"
5/8"	3/4"	13/16"	2-1/4"	2-3/8"	2-1/2"
3/4"	7/8"	15/16"	2-1/2"	2-5/8"	2-3/4"

**Fitting brushes
also available in
larger packs.
Ask for pricing.**



Refrigeration Fitting Brushes



Premium Brush - 900 Series Double Spiral/Double Stem Stainless Steel Wire

The highest quality fitting brush, double spiral 4 wire construction. Solid plastic hand-fitting handle with convenient hole for hanging. Also sold in packs of 12 & 100.

OD Refrigeration Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00924-1	1/4"	.005	1	.04
00925-1	3/8"	.006	1	.08
00926-1	1/2"	.006	1	.08
00927-1	5/8"	.006	1	.08
00928-1	3/4"	.006	1	.08
00929-1	7/8"	.006	1	.08
00930-1	1"	.008	1	.08
00931-1	1-1/8"	.008	1	.08
00932-1	1-3/8"	.009	1	.08
00933-1	1-1/2"	.009	1	.08
00934-1	1-5/8"	.009	1	.08
00935-1	2-1/8"	.009	1	.08
00936-1	2-3/8"	.009	1	.10
00937-1	2-5/8"	.009	1	.10



Standard Brush - 800 Series Single Spiral/Single Stem Stainless Steel Wire

Single spiral 2 wire construction. Solid plastic hand-fitting handle with hole for hanging. Also sold in packs of 50 & 100.

OD Refrigeration Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00824-12	1/4"	.005	12	.72
00825-12	3/8"	.005	12	.96
00826-12	1/2"	.005	12	.96
00827-12	5/8"	.006	12	.96
00828-12	3/4"	.006	12	.96
00829-12	7/8"	.008	12	.96
00830-12	1"	.008	12	.96
00831-12	1-1/8"	.008	12	.96
00832-6	1-3/8"	.008	6	.48
00833-6	1-1/2"	.008	6	.48
00834-6	1-5/8"	.008	6	.48
00835-6	2-1/8"	.008	6	.48
00836-6	2-3/8"	.008	6	.60
00837-6	2-5/8"	.008	6	.60



Custom Labeling & Pad Printing Available.
See page 11 for more details!

Workhorse Single Spiral/Single Stem Stainless Steel Wire

Heavy duty Work Horse fitting brush line from 5/8" to 1-1/8" OD. Maximum amount of filament for optimum performance. Available in stainless steel wire. Extra heavy stem wire with large handle for easy grip!

OD Refrigeration Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00327-12	5/8"	.006	12	.96
00328-12	3/4"	.006	12	.96
00329-12	7/8"	.008	12	1.08
00330-12	1"	.008	12	1.08
00331-12	1-1/8"	.008	12	1.08



Call us today,
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Exclusive! 2-IN-1 Tool

A combination tool that fits your hand comfortably and really works. One end cleans the fitting; the other cleans the tube. **Stainless steel** bristles throughout.

US Patent No. 5566416



Part #	Refrig. OD Size	Fill Dia.	Pack	Pack Weight
009951	1/4"	.005	1	.12
009952	3/8"	.006	1	.12
009953	1/2"	.006	1	.12
009954	5/8"	.006	1	.12
009955	3/4"	.006	1	.12
009956	7/8"	.006	1	.12



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Plumbing Fitting Brushes

Premium Brush - 900 Series Double Spiral/Double Stem Stainless Steel Wire

The highest quality fitting brush, double spiral 4 wire construction. Solid plastic hand-fitting handle with convenient hole for hanging. Also sold in packs of 12 & 100.



ID Plumbing Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00943-1	1/8"	.005	1	.04
00944-1	1/4"	.006	1	.08
00945-1	3/8"	.006	1	.08
00946-1	1/2"	.006	1	.10
00947-1	5/8"	.006	1	.10
00948-1	3/4"	.006	1	.10
00949-1	1"	.008	1	.10
00950-1	1-1/4"	.008	1	.10
00951-1	1-1/2"	.009	1	.12
00952-1	2"	.009	1	.12
00953-1	2-1/4"	.009	1	.14
00954-1	2-1/2"	.009	1	.14

Standard Brush - 800 Series Single Spiral/Single Stem Stainless Steel Wire

Single spiral 2 wire construction. Solid plastic hand-fitting handle with hole for hanging. Also sold in packs of 50 & 100.

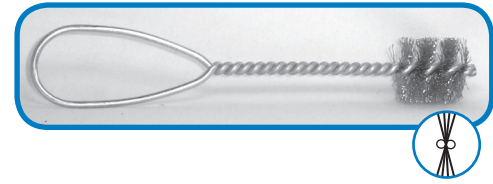


ID Plumbing Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00843-12	1/8"	.005	12	.72
00844-12	1/4"	.005	12	.96
00845-12	3/8"	.005	12	.96
00846-12	1/2"	.005	12	.96
00847-12	5/8"	.005	12	.96
00848-12	3/4"	.008	12	.96
00849-12	1"	.008	12	.96
00850-6	1-1/4"	.008	6	.48
00851-6	1-1/2"	.008	6	.48
00852-6	2"	.008	6	.48
00853-6	2-1/4"	.008	6	.60
00854-6	2-1/2"	.010	6	.60

Economy Brush - 700 Series Single Spiral/Single Stem Stainless Steel Wire

Single spiral 2 wire construction with tear drop wire handle. Also sold in packs of 50 or 100.



ID Plumbing Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00743-12	1/8"	.005	12	.24
00744-12	1/4"	.005	12	.48
00745-12	3/8"	.005	12	.48
00746-12	1/2"	.006	12	.48
00747-12	5/8"	.006	12	.48
00748-12	3/4"	.008	12	.48
00749-12	1"	.008	12	.48
00750-6	1-1/4"	.008	6	.36
00751-6	1-1/2"	.008	6	.36
00752-6	2"	.008	6	.36
00753-6	2-1/4"	.008	6	.36
00754-6	2-1/2"	.008	6	.36

Standard Brush - 600 Series Single Spiral/Single Stem Carbon Steel Wire

Single spiral 2 wire carbon steel wire construction. Solid plastic hand-fitting handle with convenient hole for hanging. Also sold in packs of 50 & 100.

ID Plumbing Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00643-12	1/8"	.005	12	.72
00644-12	1/4"	.005	12	.96
00645-12	3/8"	.006	12	.96
00646-12	1/2"	.007	12	.96
00647-12	5/8"	.007	12	.96
00648-12	3/4"	.008	12	.96
00649-12	1"	.010	12	.96
00650-6	1-1/4"	.010	6	.48
00651-6	1-1/2"	.010	6	.48
00652-6	2"	.010	6	.48
00653-6	2-1/4"	.010	6	.60
00654-6	2-1/2"	.010	6	.60



Economy Brush - 500 Series Single Spiral/Single Stem Carbon Steel Wire

Single spiral 2 wire carbon steel wire construction with oval wire handle. Also sold in packs of 50 & 100.

ID Plumbing Sizes

Part #	Size	Fill Dia.	Pack	Pack Weight
00543-12	1/8"	.005	12	.24
00544-12	1/4"	.005	12	.48
00545-12	3/8"	.006	12	.48
00546-12	1/2"	.007	12	.48
00547-12	5/8"	.007	12	.48
00548-12	3/4"	.007	12	.48
00549-12	1"	.008	12	.48
00550-6	1-1/4"	.010	6	.36
00551-6	1-1/2"	.010	6	.36
00552-6	2"	.010	6	.36
00553-6	2-1/4"	.010	6	.36
00554-6	2-1/2"	.010	6	.36

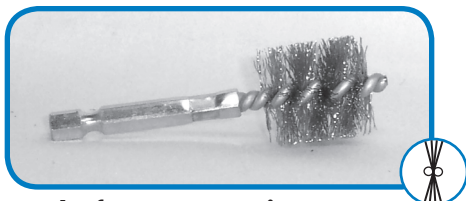


Power Fitting Brushes

Hex Shaft - 9700 Series

Stainless Steel - Single Spiral/Single Stem

Power fitting brush with hex shaft. Hex locks into all standard and quick lock type chucks for easy change over. MSFS 2,000 RPM w/o Hex chuck.



Part #	ID Size	OD Size	Fill Dia.	Pack	Pack Weight
09744-12	1/4"	3/8"	.005	12	.36
09745-12	3/8"	1/2"	.005	12	.36
09746-12	1/2"	5/8"	.006	12	.48
09747-12	5/8"	3/4"	.006	12	.48
09748-12	3/4"	7/8"	.008	12	.48
09749-12	1"	1-1/8"	.008	12	.60

Hex Shaft - 9500 Series

Carbon Steel - Single Spiral/Single Stem

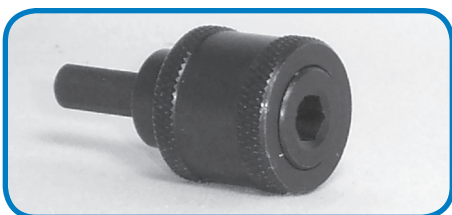
Power fitting brush with hex shaft. Hex locks into all standards and quick lock type chucks for easy change over. MSFS 2,000 RPM w/o Hex chuck.



Part #	ID Size	OD Size	Fill Dia.	Pack	Pack Weight
09544-12	1/4"	3/8"	.005	12	.36
09545-12	3/8"	1/2"	.006	12	.36
09546-12	1/2"	5/8"	.007	12	.48
09547-12	5/8"	3/4"	.007	12	.48
09548-12	3/4"	7/8"	.008	12	.48
09549-12	1"	1-1/8"	.010	12	.60

Keyless Hex Chuck

Converts standard power drill chucks to quick change keyless use. MSFS 600 RPM.



Part #	Pack	Weight
00900	12	.10

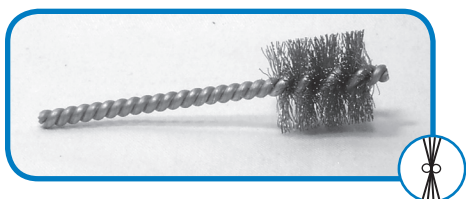


**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Twisted Stem - 8700 Series

Stainless Steel - Single Spiral/Single Stem

Power fitting brush with 2-1/2" twisted stem. MSFS 2,000 RPM.

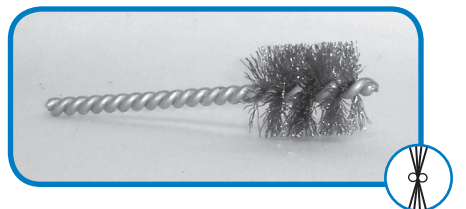


Part #	ID Size	OD Size	Fill Dia.	Pack	Pack Weight
08743-12	1/8"	1/4"	.005	12	.24
08744-12	1/4"	3/8"	.005	12	.24
08745-12	3/8"	1/2"	.005	12	.36
08746-12	1/2"	5/8"	.006	12	.36
08747-12	5/8"	3/4"	.006	12	.48
08748-12	3/4"	7/8"	.008	12	.48
08749-12	1"	1-1/8"	.008	12	.60

Twisted Stem - 8500 Series

Carbon Steel - Single Spiral/Single Stem

Power fitting brush with 2-1/2" twisted stem. MSFS 2,000 RPM.



Part #	ID Size	OD Size	Fill Dia.	Pack	Pack Weight
08543-12	1/8"	1/4"	.005	12	.24
08544-12	1/4"	3/8"	.005	12	.24
08545-12	3/8"	1/2"	.006	12	.36
08546-12	1/2"	5/8"	.007	12	.36
08547-12	5/8"	3/4"	.007	12	.48
08548-12	3/4"	7/8"	.008	12	.48
08549-12	1"	1-1/8"	.010	12	.60

Power fitting brushes available in larger packs. Ask for pricing.

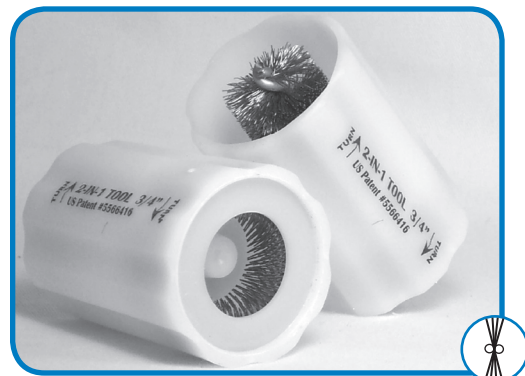


1101 S. Prairie Ave. PO Box 148 Waukesha, WI 53187
Phone 262-547-3500 1-800-347-3501 Fax 262-547-3927
Email brushes@schaeferbrush.com www.schaeferbrush.com

Exclusive! 2-IN-1 Tool

A combination tool that fits your hand comfortably and really works. One end cleans the fitting; the other cleans the tube. **Carbon steel** bristles throughout.

US Patent No. 5566416

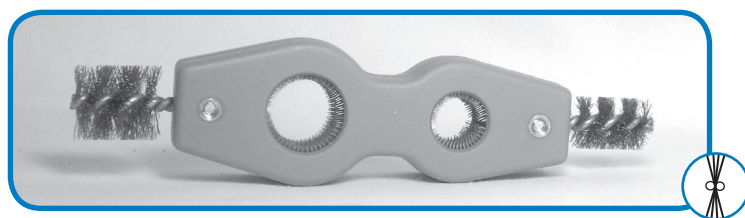


Part #	Plbg. ID Size	Fill Dia.	Pack	Pack Weight
00996-12	1/2"	.007	12	1.44
00998-12	3/4"	.008	12	1.44
00996-100	1/2"	.007	100	12.00
00998-100	3/4"	.008	100	12.00



4-IN-1 Tool

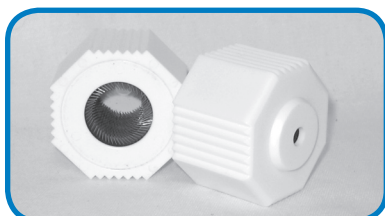
This tough high carbon steel wire brush cleans the outside of tubing or the inside of fittings in the two most common sizes. Replacement kit contains all four brushes.



Part #	Description	Fill Dia.	Pack	Pack Weight
00974	Replacement Kit	.007	6	3.50
00977	1/2" x 3/4" ID Tool	.007	12	3.50

Outside Tube Brushes

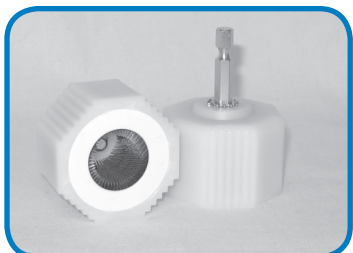
Outside Tube Cleaning Brush



Tough molded plastic holder with comfortable sure grip design, high carbon steel wire brush.

Part #	ID Size	OD Size	Pack	Pack Weight
00963-6	1/8"	1/4"	6	.24
00964-6	1/4"	3/8"	6	.24
00965-6	3/8"	1/2"	6	.24
00966-6	1/2"	5/8"	6	.24
00967-6	5/8"	3/4"	6	.48
00968-6	3/4"	7/8"	6	.48
00969-6	7/8"	1"	6	.48
00970-6	1"	1-1/8"	6	.48

Power Hex Shaft



Our same tough outside brush with hex shafts attached for power operation.

Part #	ID Size	OD Size	Pack	Pack Weight
00986	1/2"	5/8"	1	.06
00987	5/8"	3/4"	1	.10
00988	3/4"	7/8"	1	.10
00989	7/8"	1"	1	.10
00990	1"	1-1/8"	1	.10



"The Work Horse"

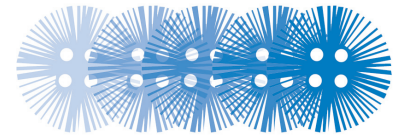
Schaefer Brush offers the heavy duty Work Horse fitting brush line from 1/2" to 4" ID.

Maximum amount of filament for optimum performance.

Available in stainless steel or carbon steel wire.

Extra heavy stem wire with large handle for easy grip.

Bonus! 1/2", 3/4" and 1" packed in sturdy plastic reusable boxes.



ID Plumbing Sizes - Carbon Steel

Part #	Size	Fill Dia.	Pack	Pack Weight
00276**	1/2"	.007	12	1.26
00278**	3/4"	.008	12	1.36
00279**	1"	.008	10	1.40
00280*	1/2", 3/4", 1"	N/A	12	1.36
00250	1-1/4"	.010	1	.10
00251	1-1/2"	.010	1	.10
00252	2"	.0118	1	.16
00253	2-1/4"	.0118	1	.18
00254	2-1/2"	.0118	1	.18
00255	3"	.0118	1	.20
00258	4"	.0118	1	.20

ID Plumbing Sizes - Stainless Steel

Part #	Size	Fill Dia.	Pack	Pack Weight
00376**	1/2"	.006	12	1.26
00378**	3/4"	.008	12	1.36
00379**	1"	.008	10	1.40
00380*	1/2", 3/4", 1"	N/A	12	1.36
00350	1-1/4"	.010	1	.10
00351	1-1/2"	.010	1	.10
00352	2"	.012	1	.16
00353	2-1/4"	.012	1	.18
00354	2-1/2"	.012	1	.18
00355	3"	.012	1	.20
00358	4"	.012	1	.20



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

**Only top three part #'s are available in the Reusable Boxes!

*00280 & 00380 is an assortment of six 1/2", four 3/4" and two 1". Available in the Reusable Boxes!



Custom Labeling/Packaging



**SCHAEFER
BRUSH**
MANUFACTURING™

Your Part # Here



Picture of Product Here

Brush Description Here

Customize your label to fit your
company's needs!
Many different sizes available.

Your Company Information Here

Your Logo Here!

- Custom Packaging
- All Series, All models
- Colored Labels
- Colored Plastic Fitting Brush Handles
- Custom Logo pad printed on Handles
- Reusable plastic containers available
- Call for details
- Samples available on request!



**SCHAEFER
BRUSH**
MANUFACTURING™

of Brushes

Part #:

Description 1

Description 2

MADE IN USA

Product Type

Size

Description 1 goes here

Part #:

Description 2 goes here



Picture of Product Here



**SCHAEFER
BRUSH**
MANUFACTURING™

MADE IN USA



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Phone 262-547-3500 1-800-347-3501 Fax 262-547-3927
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Schaefer Brush

Flue, Boiler & Long Handle Tube Brushes

For cleaning flues and boiler tubes, condensers and heat exchangers, boilers, furnaces, heaters, radiators, refrigerators and all types of tubes, holes and openings.

Section 2

Custom brushes can be made to your specifications. Call for details!

Twisted Wire Brushes

The small symbols represent a cross section of a twisted brush.



Single Spiral/Single Stem (2 wires)

Brush bristles are twisted between two stem wires with a single wire on each side.



Double Spiral/Double Stem (4 wires)

Brush bristles are twisted between four stem wires with two layers of bristle. Each layer is perpendicular to the other with a single stem wire in each quadrant.



Single Spiral/Double Stem (4 wires)

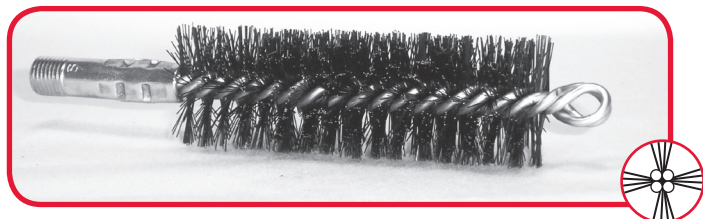
Brush bristles are twisted between four stem wires with two stem wires on each side.

Use the following **accessories** with the brushes below: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.

Spring Grade Tempered Wire

Double Spiral/Double Stem

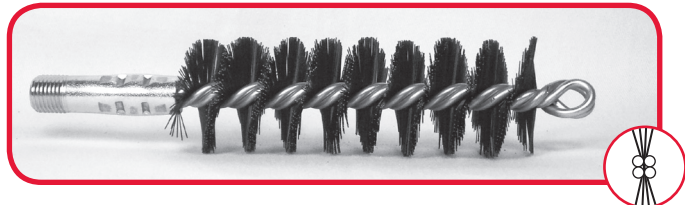
4-1/2" long tempered wire brush part, 1/4" male pipe thread.



Spring Grade Tempered Wire

Single Spiral/Double Stem

4-1/2" long tempered wire brush part, 1/4" male pipe thread.



All Flue Brushes are individually boxed & custom labels available. Call for details!

Extra Heavy Filled Flue Brushes

Single Spiral/Double Stem

Extra stiff black oil tempered wire heavily filled, 4-1/2" brush part with 3/8" male pipe threads. Use **accessories**: 36060, 36072, 30660.



Part #	Flue Size	Brush Dia.	Fill Dia.	Pack	Pack Weight
43306	1"	3/4"	.0118	1	.30
43308	1-1/4"	1"	.0118	1	.32
43312	1-1/2"	1-1/4"	.0128	1	.34
43314	1-3/4"	1-1/2"	.0128	1	.36
43316	2"	1-3/4"	.0128	1	.38
43318	2-1/4"	2"	.0128	1	.40
43322	2-1/2"	2-1/4"	.0128	1	.42
43324	2-3/4"	2-1/2"	.0128	1	.44
43326	3"	2-3/4"	.0140	1	.46
43328	3-1/4"	3"	.0140	1	.48
43332	3-1/2"	3-1/4"	.0140	1	.50
43334	3-3/4"	3-1/2"	.0181	1	.52
43336	4"	3-3/4"	.0181	1	.54
43338	4-1/4"	4"	.0181	1	.56

Part #	Flue Size	Brush Dia.	Fill Dia.	Pack	Pack Weight
43206	1"	3/4"	.0118	1	.28
43208	1-1/4"	1"	.0118	1	.30
43212	1-1/2"	1-1/4"	.0128	1	.32
43214	1-3/4"	1-1/2"	.0128	1	.34
43216	2"	1-3/4"	.0128	1	.36
43218	2-1/4"	2"	.0128	1	.38
43222	2-1/2"	2-1/4"	.0128	1	.40
43224	2-3/4"	2-1/2"	.0128	1	.42
43226	3"	2-3/4"	.0140	1	.44
43228	3-1/4"	3"	.0140	1	.46
43232	3-1/2"	3-1/4"	.0140	1	.48
43234	3-3/4"	3-1/2"	.0181	1	.50
43236	4"	3-3/4"	.0181	1	.52
43238	4-1/4"	4"	.0181	1	.54

Part #	Flue Size	Brush Dia.	Fill Dia.	Pack	Pack Weight
43282	2"	1-3/4"	.0128	1	.80
43283	2-1/4"	2"	.0128	1	.82
43284	2-1/2"	2-1/4"	.0128	1	.84
43285	2-3/4"	2-1/2"	.0128	1	.87
43286	3"	2-3/4"	.0181	1	.92
43288	3-1/2"	3-1/4"	.0230	1	.98
43289	3-3/4"	3-1/2"	.0230	1	1.02
43290	4"	3-3/4"	.0230	1	1.08



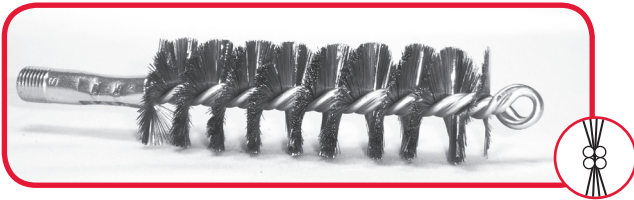
Flue & Boiler Brushes

Use the following **accessories** with the brushes below: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.

Stainless Steel - Flue Brushes

Single Spiral/Double Stem

4-1/2" long brush part, 1/4" male pipe thread.



Part #	Flue Size	Brush Dia.	Fill Dia.	Pack	Pack Weight
43536	1-1/2"	1-1/4"	.009	1	.36
43539	1-3/4"	1-1/2"	.009	1	.38
43542	2"	1-3/4"	.009	1	.40
43545	2-1/4"	2"	.009	1	.42
43548	2-1/2"	2-1/4"	.009	1	.44
43551	2-3/4"	2-1/2"	.009	1	.46
43553	3"	2-3/4"	.013	1	.48
43556	3-1/4"	3"	.013	1	.50
43559	3-1/2"	3-1/4"	.013	1	.52
43562	3-3/4"	3-1/2"	.013	1	.54
43565	4"	3-3/4"	.016	1	.56
43568	4-1/4"	4"	.016	1	.58
43571	4-1/2"	4-1/4"	.016	1	.60
43573	4-3/4"	4-1/2"	.016	1	.62
43576	5"	4-3/4"	.016	1	.64
43579	5-1/4"	5"	.016	1	.66

Stainless Steel - Flue Brushes

Double Spiral/Double Stem

4-1/2" long brush part, 1/4" male pipe thread.

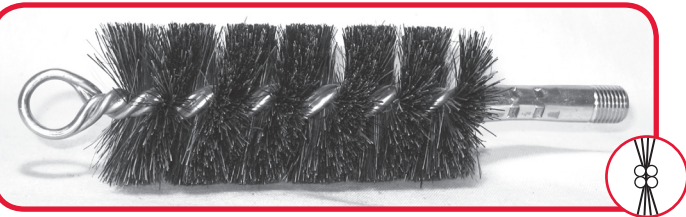


Part #	Flue Size	Brush Dia.	Fill Dia.	Pack	Pack Weight
43836	1-1/2"	1-1/4"	.007	1	.38
43839	1-3/4"	1-1/2"	.007	1	.40
43842	2"	1-3/4"	.007	1	.42
43845	2-1/4"	2"	.009	1	.44
43848	2-1/2"	2-1/4"	.009	1	.46
43851	2-3/4"	2-1/2"	.009	1	.48
43853	3"	2-3/4"	.012	1	.50
43856	3-1/4"	3"	.013	1	.52
43859	3-1/2"	3-1/4"	.013	1	.54
43862	3-3/4"	3-1/2"	.013	1	.56
43865	4"	3-3/4"	.016	1	.58
43868	4-1/4"	4"	.016	1	.60
43871	4-1/2"	4-1/4"	.016	1	.62
43873	4-3/4"	4-1/2"	.016	1	.64
43876	5"	4-3/4"	.016	1	.66
43879	5-1/4"	5"	.016	1	.68

Fibre Flue Brushes

Single Spiral/Double Stem

Heavily filled double spiral natural tampico fibre, 4-1/2" long brush part, 1/4" male pipe thread.

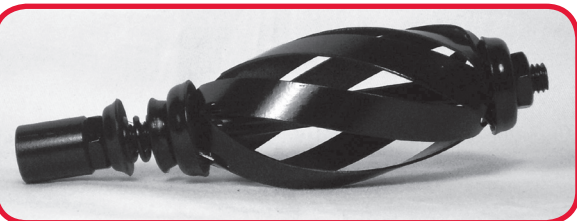


Part #	Flue Size	Brush Dia.	Pack	Pack Weight
42933	1-1/4"	1"	1	.32
42939	1-3/4"	1-1/2"	1	.34
42945	2-1/4"	2"	1	.38
42950	2-3/4"	2-1/2"	1	.40
42956	3-1/4"	3"	1	.42
42960	3-3/4"	3-1/2"	1	.44
42964	4-1/4"	4"	1	.46
42974	5-1/4"	5"	1	.50
42982	6-1/4"	6"	1	.55

Flue Scrapers

Elliptical Scrapers

1-3/4" to 2-3/4" flue size have a 1/4" female pipe thread. (Use accessories as listed above). 3" to 4" flue size have a 1/2" female pipe thread.

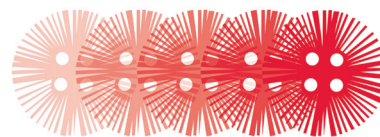


Part #	Flue Size	Brush Dia.	Pack	Pack Weight
45214	1-3/4"	1-1/2"	1	.50
45216	2"	1-3/4"	1	.50
45218	2-1/4"	2"	1	.50
45222	2-1/2"	2-1/4"	1	.60
45224	2-3/4"	2-1/2"	1	.62
45226	3"	2-3/4"	1	1.40
45228	3-1/4"	3"	1	1.42
45232	3-1/2"	3-1/4"	1	1.76
45234	3-3/4"	3-1/2"	1	1.70
45236	4"	3-3/4"	1	1.80



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Flue Scrapers

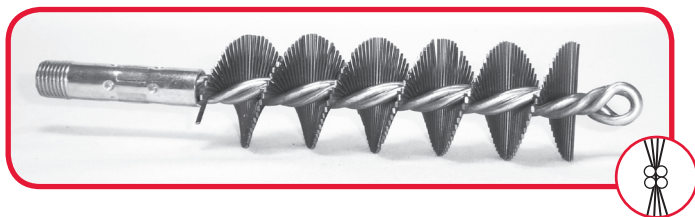


Use the following **accessories** with the brushes below: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.

Flat Tempered Steel Wire

Single Spiral/Double Stem

The most aggressive flat wire fill makes these a compromise between a scraper and a brush. 4-1/2" long brush part with 1/4" male pipe thread.



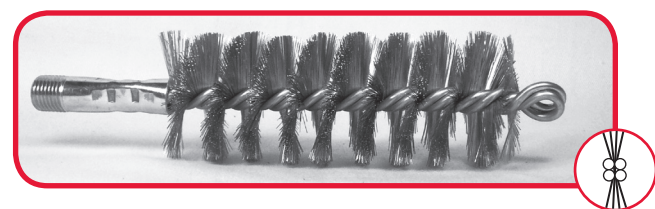
Part #	Flue Size	Brush Dia.	Fill Dia.	Pack	Pack Weight
43012	1-1/2"	1-1/4"	.031 x .069	1	.30
43014	1-3/4"	1-1/2"	.031 x .069	1	.30
43016	2"	1-3/4"	.031 x .069	1	.34
43018	2-1/4"	2"	.031 x .069	1	.36
43022	2-1/2"	2-1/4"	.031 x .069	1	.38
43024	2-3/4"	2-1/2"	.031 x .069	1	.40
43026	3"	2-3/4"	.030 x .093	1	.50
43028	3-1/4"	3"	.030 x .093	1	.52
43032	3-1/2"	3-1/4"	.030 x .093	1	.56
43034	3-3/4"	3-1/2"	.030 x .093	1	.58
43036	4"	3-3/4"	.030 x .093	1	.62

Large Brass & Nylon Tube Brushes

Brass Tube Brushes

Single Spiral/Double Stem

Double Stem 1/4" male pipe thread. Brush length 4-1/2".



Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
43636	1-1/4"	.006	1	.30
43639	1-1/2"	.006	1	.32
43642	1-3/4"	.006	1	.32
43645	2"	.008	1	.32
43648	2-1/4"	.008	1	.36
43651	2-1/2"	.008	1	.40
43653	2-3/4"	.008	1	.42
43656	3"	.008	1	.44
43658	3-1/4"	.008	1	.44
43660	3-1/2"	.012	1	.54
43662	3-3/4"	.012	1	.56
43664	4"	.012	1	.56

Nylon Tube Brushes

Single Spiral/Double Stem

Double Stem 1/4" male pipe thread. Brush length 5".



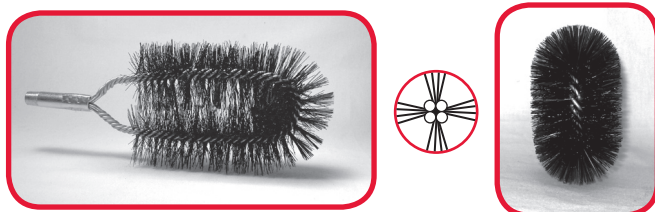
Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
43736	1-1/4"	.018	1	.18
43739	1-1/2"	.020	1	.24
43742	1-3/4"	.022	1	.24
43745	2"	.025	1	.26
43748	2-1/4"	.025	1	.26
43751	2-1/2"	.028	1	.32
43753	2-3/4"	.036	1	.32
43756	3"	.036	1	.32
43758	3-1/4"	.036	1	.34
43760	3-1/2"	.036	1	.38
43762	3-3/4"	.036	1	.44
43764	4"	.036	1	.44

Boiler Brushes

Horseshoe Boiler Brush

Double Spiral/Double Stem

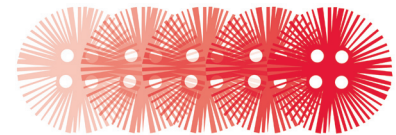
Double stem spring grade tempered wire brush part with 1/4" male pipe thread.



Part #	Brush Size	Fill Dia.	Pack	Pack Weight
13382	1-1/2" x 4" x 5"	.013	1	.48
13393	1-3/4" x 4" x 5-1/2"	.013	1	.66
13384	2" x 4-1/2" x 5"	.013	1	.54
13386	2-1/2" x 5" x 5"	.013	1	.76
13390	1-5/8" x 4"	.013	1	.60
13394	2-1/2" x 6" x 6-1/2"	.018	1	.84
13395	3-1/2" x 6" x 6-1/2"	.018	1	.98



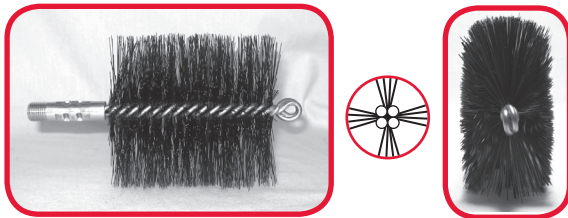
Boiler Brushes



Use the following **accessories** with the brushes below: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.

Rectangular or Oval Boiler Brush - Double Spiral/Double Stem

Double spiral, 4-1/2" long black oil tempered wire brush part with 1/4" male pipe thread. Oval shaped brushes have a rounded edge.



Part #	Brush Size	Fill Dia.	Pack	Pack Weight
13417	2" x 4"	.014	1	.52
13418	2-1/2" x 4-1/2"	.018	1	.66
13419	3" x 5"	.018	1	.56

Flat Baffle Boiler Brush - Double Spiral/Double Stem

Double spiral, spring grade tempered wire brush part with 1/4" male pipe thread.



Part #	Brush Size	Brush Length	Fill Dia.	Pack	Pack Weight
41218	1"	4-1/2"	.008	1	.16
41228	2"	4-1/2"	.0128	1	.30
41238	3"	4-1/2"	.014	1	.38
41248	4"	4-1/2"	.023	1	.44

Flat Style Columbia Boiler Brush - Single Spiral/Single Stem

Bristles stick out to the 1" dimension. The round brush is flattened after being made.



Part #	Brush Size	Overall Length	Fill Dia.	Pack	Pack Weight
46302	1/2" x 1" x 4-1/2"	27"	.008	6	2.80
46304	1/2" x 1" x 4-1/2"	48"	.008	6	4.80

Light Weil McLain Boiler Brush - Single Spiral/Single Stem

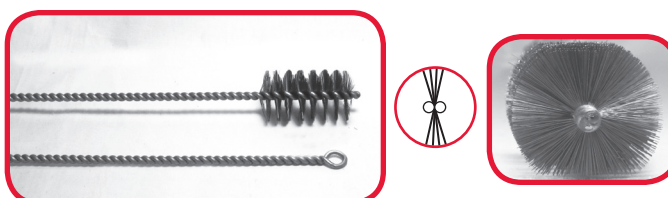
This is a lighter smaller Weil McLain Brush. It has a 1-1/2" x 1-1/8" oval shape but has a shorter 2-3/4" brush part filled with .006 straight fine wire. Stem diameter .25.



Part #	Material	Overall Length	Fill Dia.	Pack	Pack Weight
14461	Straight Wire	30"	.006	6	2.50
14462	Straight Wire	42"	.006	6	3.10

Weil McLain Boiler Brush - Single Spiral/Single Stem

1-1/2" x 1-1/8" x 4" oval shaped brush with crimped "Tiger Claw" carbon steel wire and long twisted wire handles. Also offered in a bristle brush for dusting.



Part #	Material	Handle Dia.	Overall Length	Fill Dia.	Pack	Pack Weight
14465	Crimped Wire	.20	30"	.006	6	3.80
14466	Crimped Wire	.25	30"	.006	6	3.80
14467	Bristle	.20	30"	N/A	6	3.60
14468	Crimped Wire	.25	46"	.006	6	4.20
14476	Crimped Wire	.135	30"	.006	6	2.00
14477	Bristle	.135	30"	N/A	12	2.40

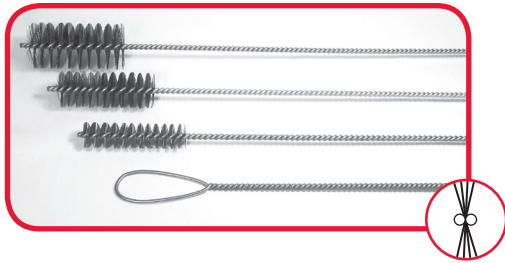


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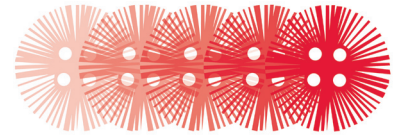
Boiler & Furnace Brushes

Extra Long Handle/Stiff Wire Brushes - Single Spiral/Single Stem

Fine wire brush part 4" long, twisted in wire handle with loop end.

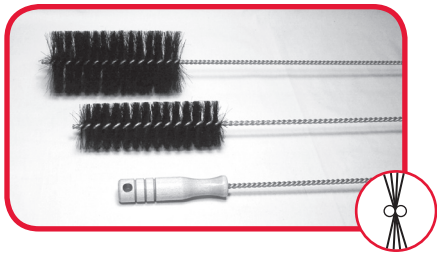


Part #	Brush Dia.	Fill Dia.	Overall Length	Pack	Pack Weight
76252	1/2"	.006	42"	12	5.40
76253	3/4"	.007	42"	12	5.50
76254	1"	.007	42"	12	6.00
76255	1-1/2"	.008	42"	12	6.50
76256	2"	.0128	42"	12	6.70
76257	2-1/2"	.0128	42"	12	6.90
76258	3"	.014	42"	12	7.50



Fibre/Hair Mix Furnace & Boiler Brushes - Single Spiral/Single Stem

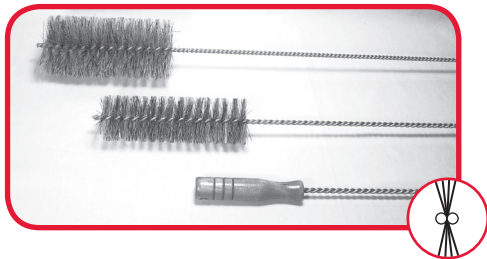
Extra heavy fill 6" long brush part with wooden handle.



Part #	Brush Dia.	Overall Length	Pack	Pack Weight
76242	2"	27"	12	4.00
76243	3"	27"	6	2.40
76245	2"	42"	12	5.40
76246	3"	42"	6	3.80

Fibre Filled Furnace & Boiler Brushes - Single Spiral/Single Stem

Extra heavy fill, 6" long brush part with wooden handle.



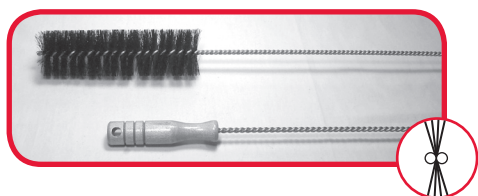
Part #	Brush Dia.	Overall Length	Pack	Pack Weight
76232	2"	27"	12	4.00
76233	3"	27"	6	2.40
76235	2"	42"	12	5.40
76236	3"	42"	6	3.80



CAUTION
WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!

Furnace Brush - Single Spiral/Single Stem

7" long brush part with twisted wire stem and wood handle.



Part #	Material	Brush Dia.	Fill Dia.	Overall Length	Pack	Pack Weight
76200	Cr. Brass Wire	2-1/8"	.008	48"	6	4.70
76210	Stainless Steel	2-1/8"	.009	48"	6	4.70
76220	Black Tampico	2-1/8"	N/A	48"	6	4.70

Radiator Cleaning Brush - Single Spiral/Single Stem

Black natural bristle, with wooden handle.



Part #	Material	Brush Length	Brush Dia.	Overall Length	Pack	Pack Weight
76221	Bristle or Hair	7"	2"	27"	12	4.00
76324	Black Horsehair	7"	2-1/2"	27"	12	4.00
76524	HH/Poly Mix	7"	2-1/2"	27"	12	4.00

Slant Fin Furnace/Radiator Brush - Single Spiral/Single Stem

Tapered tip soft nylon brush.



Part #	Material	Brush Length	Brush Dia.	Overall Length	Pack	Pack Weight
14595	.008 Cr. Nylon Soft	4"	2-1/4"	20"	12	2.50
14596	.012 Nylon Med	4"	2-1/4"	20"	12	2.50

Schaefer Brush

Furnace, Refrigerator & Radiator Brushes

Section 3

Custom brushes can be made to your specifications. Call for details!

Twisted Wire Brushes

The small symbols represent a cross section of a twisted brush.



Single Spiral/Single Stem (2 wire)

Brush bristles are twisted between two stem wires with a single wire on each side.



Single Spiral/Double Stem (2 wire)

Brush bristles are twisted between four stem wires with two stem wires on each side.



Double Spiral/Double Stem (4 wire)

Brush bristles are twisted between four stem wires with two layers of bristle. Each layer is perpendicular to the other with a single stem wire in each quadrant.

Safety Equipment & Requirements

Safety goggles or face shields must be worn by operators and/or personnel in the working area of power brushes. Appropriate protective clothing and equipment must be used where a possibility of injury exists.

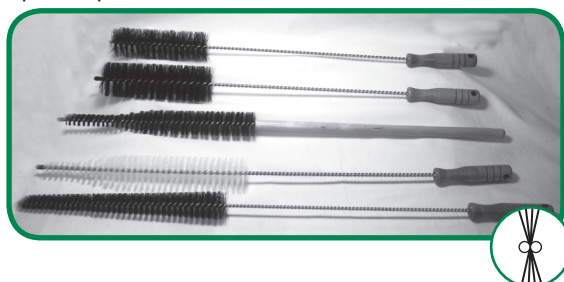


**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Refrigerator Coil Cleaning

Single Spiral/Single Stem

Used to clean refrigerator coils, fan blades and areas under and behind appliances. Natural bristle available upon request.

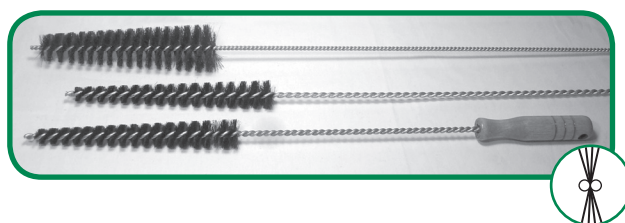


Part #	Material	Stem Dia.	Description	Fill Dia.	Pack	Pack Weight
00402	Bristle	.200	2" x 6" Br. x 24" OAL	N/A	36	8.2
00403	Black Poly	.225	2-1/4" x 7" Br. x 24" OAL	.008	36	9.2
00405	Synthetic	.200	3/4" & 1-1/2" x 12"	N/A	36	8.2
00406	Polypropylene	.225	15" Wood Hdl. 28" OAL 3/4" & 1-1/2" x 12" BR	.010	36	9.8
00408	Synthetic	.200	4-1/2" Wood Hdl. 28" OAL 2" x 6" Br. x 24" OAL 4-1/2" Wood Hdl. 27" OAL	N/A	36	9.2

Long Handle Furnace Brushes

Single Spiral/Single Stem

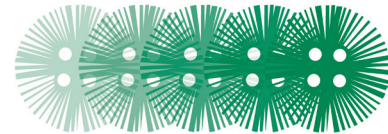
Black natural bristle, twisted in wire.



Part #	Stem Dia.	Brush Dia.	Overall Length	Brush Length	Pack	Pack Weight
00438	.225	1/2" to 1"	21"	7"	12	2.40
00448	.200	1/2" to 1"	21"	7"	12	1.68
00439	.225	1/2" to 1"	30"	7"	12	3.12
00449	.200	1/2" to 1"	30"	7"	12	2.40
00440	.225	1/2" to 1"	36"	7"	12	3.84
00450	.200	1/2" to 1"	36"	7"	12	3.36
00442	.225	1" to 2"	42"	7"	12	4.56
00443	.200	1" to 2"	42"	7"	12	3.60
00444	.225	1" to 2"	21"	7"	12	2.40



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Radiator/Furnace Cleaning Brush Single Spiral/Single Stem

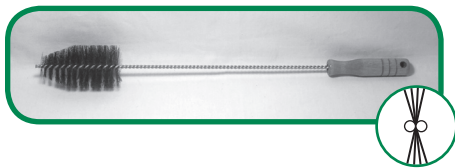
Black natural bristle, twisted in wire with wooden handle.



Part #	Material	Brush Length	Brush Dia.	Overall Length	Stem Dia.	Pack	Pack Weight
76221	Horsehair	7"	2"	27"	.190	12	4.00
76324	Horsehair	7"	2-1/2"	27"	.190	12	4.00
76524	HH/Poly Mix	7"	2-1/2"	27"	.190	12	4.00

Slant Fin Radiator/Furnace Brush Single Spiral/Single Stem

Tapered tip soft nylon brush, with wooden handle.



Part #	Material	Brush Length	Brush Dia.	Overall Length	Stem Dia.	Fill Dia.	Pack	Pack Weight
14595	Cr. Nylon - Soft	4"	2-1/4"	20"	.190	.008	12	2.50
14596	Nylon - Med Soft	4"	2-1/4"	20"	.190	.012	12	2.50

Long Wood Handle Dusting Brush

Single row, wooden handle.



Part #	Material	Brush Length	Brush Dia.	Overall Length	Pack	Pack Weight
76020	Horsehair	9"	2-1/4"	24"	12	3.75
76030	Black Fiber	9"	2-1/4"	24"	12	3.75

Long Plastic Handle Dusting Brush w/ Flared Tip

Single row, curved plastic handle.



Part #	Material	Brush Length	Brush Dia.	Overall Length	Pack	Pack Weight
76026	Horsehair	10"	2-1/4"	24"	12	4.40



Schaefer Brush

Chimney Brushes

Section 4

Custom brushes can be made to your specifications. Call for details!

Chimney brushes are offered in stiff tempered steel wire or stiff polypropylene bristles. Our Premium Wire & Regular Poly brushes have a galvanized steel stem with **1/4" male pipe thread**. The Master Clean wire & Pro-Clean poly have heavy duty galvanized steel stem with **3/8" male pipe thread**.

Twisted Wire Brushes

The small symbols represent a cross section of a twisted brush.



Single Spiral/Single Stem (2 wires)

Brush bristles are twisted between two stem wires with a single wire on each side.



Single Spiral/Double Stem (4 wires)

Brush bristles are twisted between four stem wires with two stem wires on each side.



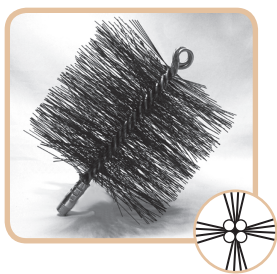
Double Spiral/Double Stem (4 wires)

Brush bristles are twisted between four stem wires with two layers of bristles. Each layer is perpendicular to the other with a single stem wire in each quadrant.



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Master Clean - Double Spiral/Double Stem



Double spiral tempered steel wire brush with heavy duty stem and **3/8" male pipe thread**. Use the following accessories: **Fiberglass rods** 36048, 36060, 36072 or 30660. See accessory pages 25-28.

Round				Square				Rectangular			
Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight
33066	6"	1	1.90	33266	6"	1	2.00	33410	6" x 10"	1	2.60
33076	7"	1	2.00	33277	7"	1	2.10	33411	7" x 11"	1	2.60
33086	8"	1	2.10	33288	8"	1	2.10	33412	8" x 12"	1	2.70
33096	9"	1	2.50	33299	9"	1	2.60	33413	9" x 13"	1	2.70
33106	10"	1	2.60	33310	10"	1	2.80	33414	10" x 14"	1	2.70
33116	11"	1	2.70	33311	11"	1	2.90	33415	11" x 15"	1	2.80
33126	12"	1	2.80	33312	12"	1	3.10	33416	12" x 16"	1	2.80

Premium Brush - Single Spiral/Double Stem



Single spiral tempered steel wire brush with **1/4" male pipe thread**. Use the following accessories: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.

Round				Square				Rectangular			
Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight
36406	6"	1	1.70	36506	6"	1	1.50	36531	6" x 10"	1	2.30
36407	7"	1	1.80	36507	7"	1	1.70	36532	7" x 11"	1	2.30
36408	8"	1	1.90	36508	8"	1	1.80	36533	8" x 12"	1	2.40
36409	9"	1	2.20	36509	9"	1	2.30	36534	9" x 13"	1	2.30
36410	10"	1	2.30	36510	10"	1	2.50	36535	10" x 14"	1	2.40
36411	11"	1	2.40	36511	11"	1	2.60	36536	11" x 15"	1	2.50
36412	12"	1	2.50	36512	12"	1	2.80	36537	12" x 16"	1	2.50

Flat Wire - Single Spiral/Double Stem

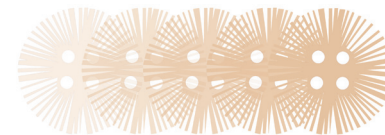


Single spiral tempered steel flat wire with **3/8" male pipe thread**. Use the following accessories: **Fiberglass rods** 36048, 36060, 36072 or 30660. See accessory pages 25-28.

Round				Square				Rectangular			
Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight
33606	6"	1	1.92	33626	6"	1	2.07	33646	6" x 10"	1	2.72
33607	7"	1	2.22	33627	7"	1	2.33	33647	7" x 11"	1	2.97
33608	8"	1	2.47	33628	8"	1	2.68	33648	8" x 12"	1	3.05
33609	9"	1	2.83	33629	9"	1	3.05	33652	12" x 16"	1	4.50
33610	10"	1	3.48	33630	10"	1	3.63				
33611	11"	1	3.76	33631	11"	1	3.73				
33612	12"	1	3.85	33632	12"	1	3.90				

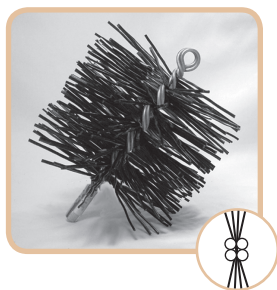


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Pro-Clean Poly - Single Spiral/Double Stem

Single spiral polypropylene bristle brush with heavy duty stem and **3/8" male pipe thread**. Use the following accessories: **Fiberglass rods** 36048, 36060, 36072 or 36060. See accessory pages 25-28.



Round				Square				Rectangular			
Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight
33166	6"	1	1.10	33256	6"	1	1.10	33282	7" x 11"	1	1.60
33176	7"	1	1.10	33257	7"	1	1.10	33284	8" x 12"	1	1.60
33186	8"	1	1.10	33258	8"	1	1.20	33286	12" x 16"	1	2.10
33196	9"	1	1.60	33259	9"	1	1.55				
33206	10"	1	1.70	33260	10"	1	1.60				
33216	11"	1	1.75	33270	12"	1	1.60				
33226	12"	1	1.80								

Regular Poly - Single Spiral/Double Stem

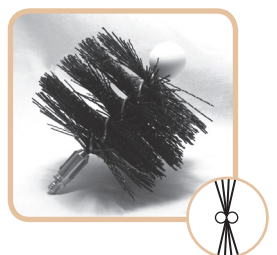
Single spiral polypropylene bristles brush with our **1/4" male pipe threads**. Use the following accessories: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.



Round				Square				Rectangular			
Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight	Part #	Size	Pk.	Weight
36166	6"	1	1.10	36256	6"	1	1.10	36282	7" x 11"	1	1.60
36176	7"	1	1.10	36257	7"	1	1.10	36284	8" x 12"	1	1.60
36186	8"	1	1.10	36258	8"	1	1.20	36286	12" x 16"	1	2.10
36196	9"	1	1.60	36259	9"	1	1.55				
36206	10"	1	1.70	36260	10"	1	1.60				
36216	11"	1	1.75	36270	12"	1	1.60				
36226	12"	1	1.80								

Pellet Stove Brush - Single Spiral/Single Stem

36126 and 36128 have a ball tip with a **5/16"-18 male thread** connector (use with 36112 nylon rods). 36133 and 36134 regular tips (suitable for straighter runs) with **1/4" male pipe threads**. 36143 and 36144 have **45" twisted handles**. (Suitable for short runs). Use the following accessories: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.



Part #	Brush Size	Fill Dia.	Thread Size	Handle Size	Pack	Pack Weight
36126	3"	.020	5/16"-18	N/A	1	.10
36128	4"	.025	5/16"-18	N/A	1	.12
36133	3"	.020	1/4"	N/A	1	.14
36134	4"	.025	1/4"	N/A	1	.18
36143	3"	.020	N/A	45"	1	.40
36144	4"	.025	N/A	45"	1	.42



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Pipe Dusting Brushes

Use the following accessories: **Wooden Threaded Handles** 69015, 69055 or 69017, **Fiberglass Handles** 69061 or 69063, **Wooden Handles With Metal Threads** 69025 or 69026, **Steel** 69075. See accessory pages 25-28.

These brushes are shaped to reach over the top of pipes and ducts where dirt and dust naturally accumulate. Brushes are threaded to fit standard broom and extension handles. 6" wide x 12" long brush. 5-1/2" plastic handle.



Part #	Material	Pack	Pack Weight
90213	Poly	1	.80
90214	Fibre	1	.90
90215	Poly/Fibre	1	.90



Schaefer Brush

Indoor Air Quality Brushes

For cleaning ducts, vents, pipes and chimneys

Section 5

Custom brushes can be made to your specifications. Call for details!

Twisted Wire Brushes

The small symbols represent a cross section of a twisted brush.



Single Spiral/Single Stem (2 wires)

Brush bristles are twisted between two stem wires with a single wire on each side.



Double Spiral/Double Stem (4 wires)

Brush bristles are twisted between four stem wires with two layers of bristles. Each layer is perpendicular to the other with a single stem wire in each quadrant.



Single Spiral/Double Stem (4 wires)

Brush bristles are twisted between four stem wires with two stem wires on each side.

Round Duct Brushes - Single Spiral/Double Stem

Available with soft, medium, or stiff poly bristles, in brush part lengths of 3" short, 6" regular, 9" brush part lengths also available. Call for details. All brushes have a **1/4" male pipe thread** that fasten to our flexible nylon rods or fiberglass rods. We have listed only the most popular sizes, please call for additional sizes. Rectangle and square brushes are available upon request. Use the following **accessories**: **Fiberglass Rods** 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114. See accessory pages 25-28.

Soft Filament - Short 3"

Part #	Size	Fill Dia.	Pack	Pack Weight
40006	6"	.016	1	.50
40008	8"	.016	1	.60
40010	10"	.016	1	.70
40012	12"	.016	1	.80
40014	14"	.016	1	1.00

Soft Filament - Regular 6"

Part #	Size	Fill Dia.	Pack	Pack Weight
400066	6"	.016	1	.70
400086	8"	.016	1	.80
400106	10"	.016	1	.90
400126	12"	.016	1	1.00
400146	14"	.016	1	1.20

Medium Filament-Short 3"

Part #	Size	Fill Dia.	Pack	Pack Weight
40306	6"	.030	1	.60
40308	8"	.030	1	.70
40310	10"	.030	1	.80
40312	12"	.030	1	.90
40314	14"	.030	1	1.10

Medium Filament-Regular 6"

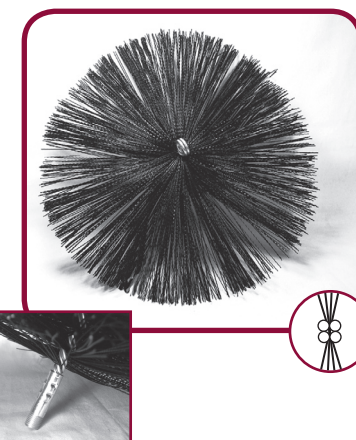
Part #	Size	Fill Dia.	Pack	Pack Weight
403066	6"	.030	1	.80
403086	8"	.030	1	.90
403106	10"	.030	1	1.00
403126	12"	.030	1	1.10
403146	14"	.030	1	1.30

Stiff Filament-Short 3"

Part #	Size	Fill Dia.	Pack	Pack Weight
40606	6"	.060	1	.60
40608	8"	.060	1	.70
40610	10"	.060	1	.80
40612	12"	.060	1	.90
40614	14"	.060	1	1.10

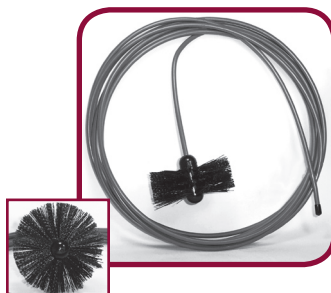
Stiff Filament-Regular 6"

Part #	Size	Fill Dia.	Pack	Pack Weight
406066	6"	.060	1	.80
406086	8"	.060	1	.90
406106	10"	.060	1	1.00
406126	12"	.060	1	1.10
406146	14"	.060	1	1.30



Dryer Vent Brushes

Unique brush design with one piece flexible handle that cleans around bends without damaging vents. Made with a double domed molded block to prevent hang up! Filled with plastic filament.

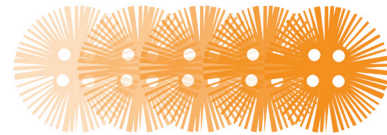


Part #	Brush Size	Handle Length	Pack	Pack Weight
37309	3"	10'	10	3.00
37310	4"	10'	10	3.00
37320	4"	20'	10	6.00
37410	4"	10'	1/box	.40
37420	4"	20'	1/box	.80



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Schaefer Brush



Wash & Scrub Brushes

Section 6

Custom brushes can be made to your specifications. Call for details!

Use the following **accessories**: **Wooden Threaded Handles** 69015, 69055 or 69017, **Fiberglass Handles** 69061 or 69063, **Wooden Handles With Metal Threads** 69025 or 69026, **Steel** 69075. See accessory pages 25-28.

Sure-Surface Brushes

The Sure-Surface Brush design, with 220 degrees of bristle, allows the user to move in a natural motion.



Old Way



New Way



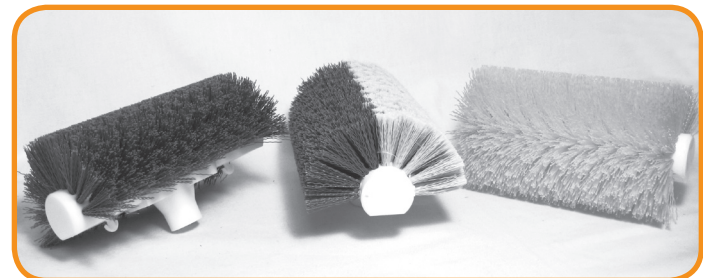
Eliminate unnecessary motion and bending with Sure-Surface's ergonomically proven principles.

8" Blocks

Part #	Fill	Fill Dia	Desc.	Pack	Pack Weight
66308	Poly	.008	Ultra Soft	4	4.40
66312	Poly	.012	Soft	4	4.40
66314	Poly	.018	Stiff	4	4.40
66317	Poly	.025	Very Stiff	4	4.40
66318	1/2 & 1/2 Poly	.012/.018	Soft & Stiff	4	4.40
66331	Fibre/Poly	.012/.030	Stiff	4	4.40

10" Blocks

Part #	Fill	Fill Dia.	Desc.	Pack	Pack Weight
66408	Poly	.008	Ultra Soft	4	8.40
66412	Poly	.012	Soft	4	8.40
66414	Poly	.018	Stiff	4	8.40
66417	Poly	.025	Very Stiff	4	8.40
66418	1/2 & 1/2 Poly	.012/.018	Soft & Stiff	4	8.40
66431	Fibre/Poly	.012/.030	Stiff	4	8.40



Bright White Nylon Sure-Surface Brushes



Bright White Nylon Bristle is FDA approved for all "Food Grade" applications.

Wash Brushes With Bumpers



Multi-purpose wash brushes, Flow-Thru Design. Our conventional line of Scrub and Wash brushes incorporate a heavy rubber bumper, which is recessed into the molded block. The bumpers are guaranteed to stay on and have no staples or fasteners.

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
66370	8"	.012	12	12.50
66373	8"	.018	12	12.50
66377	8"	.025	12	12.50
66473	10"	.018	12	15.00
66477	10"	.025	12	15.00

Part #	Size	Material	Fill Dia.	Desc.	Trim	Pack	Pack Weight
90510	8"	Poly	.008	Ultra Soft	2-1/2"	12	12.00
90514	8"	Poly	.012	Soft	2-1/2"	12	12.00
90516	8"	Poly	.018	Stiff	2"	12	12.00
90530	10"	Poly	.008	Ultra Soft	2-1/2"	12	15.00
90534	10"	Poly	.012	Soft	2-1/2"	12	15.00
90536	10"	Poly	.018	Stiff	2"	12	15.00

Scrub Brushes

Scrub brushes without bumpers. Use the following **accessories**: **Wooden Threaded Handles** 69015, 69055 or 69017, **Fiberglass Handles** 69061 or 69063, **Wooden Handles With Metal Threads** 69025 or 69026, **Steel** 69075. See accessory pages 25-28.



Part #	Size	Material	Fill Dia.	Stiffness	Trim	Pack	Pack Weight
90517	8"	Poly	.018	Stiff	2"	12	12.00
90519	8"	Poly	.025	Very Stiff	2"	12	12.00
90537	10"	Poly	.018	Stiff	2"	12	15.00
90539	10"	Poly	.025	Very Stiff	2"	12	15.00



Bi-Level Brushes

Available in soft, stiff, and very stiff bristles. This 10" brush has a flow thru block. Use the following **accessories**: **Wooden Threaded Handles** 69015, 69055 or 69017, **Fiberglass Handles** 69061 or 69063, **Wooden Handles With Metal Threads** 69025 or 69026, **Steel** 69075. See accessory pages 25-28.



Part #	Fill Material	Fill Dia.	Pack	Pack Weight
90484	Soft - Poly	.012	12	16.00
90486	Stiff - Poly	.018	12	16.00
90488	Very Stiff - Poly	.025	12	16.00

Spoke Brushes

Originally designed for spoke wheels, these brushes work well for cleaning many hard to reach areas.



Part #	Material	Fill Dia.	Brush Length	Overall Length	End	Pack	Pack Weight
90422	Tampico	N/A	9"	14"	Blunt	12	3.60
90426	Poly	.020	9"	14"	Blunt	12	3.60

Short or Long Handle Kettle/Wheel Brush

Short or long handle brushes for many applications.



Part #	Handle Length	Brush Block	Material	Fill Dia.	Trim	Pack	Pack Weight
27704	Short	8-1/2" x 3-1/2"	Tampico	N/A	2"	12	6.00
27709	Short	8-1/2" x 3-1/2"	Poly	.018	2"	12	6.00
27712	Short	8-1/2" x 3-1/2"	Nylon	.020	2"	12	6.00
27740	Long	20" x 3-1/8"	Tampico	N/A	2"	12	10.00
27790	Long	20" x 3-1/8"	Poly	.018	2"	12	10.00
27780	Long	20" x 3-1/8"	Nylon	.020	2"	12	10.00

Plastic Handle Utility Scrub

Synthetic fiber resists mold, bacteria and mild chemicals.



Part #	Brush Block	Material	Fill Dia.	Trim	Pack	Pack Weight
27810	8-1/2" x 2-1/2"	Poly	.020	1-1/8"	12	4.00

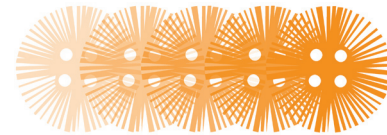


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Twisted Bowl Brush

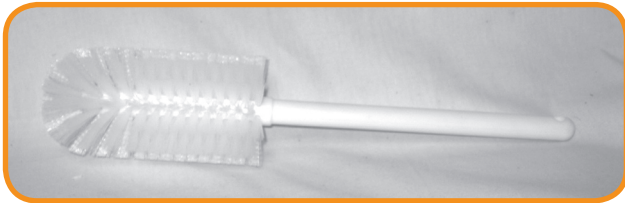
Industrial sanitary bowl brush with wood handle. Shaped to fit under rim.



Part #	Material	Fill Dia.	Overall Length	Pack	Pack Weight
66151	Tampico	N/A	20"	12	4.50
66152	Black Poly	.012	20"	12	4.50

Goblet Brush

Nylon bristle with stainless steel staples in a plastic handle. For use in most cleaning solutions.



Part #	Brush Dia.	Material	Fill Dia.	Overall Length	Trim	Pack	Pack Weight
66190	3"	Nylon	.012	15-1/2"	3-1/4"	12	4.47
66195	2.75"	Nylon	.012	15-1/2"	3-1/4"	12	4.47

Nail Brushes

Hardwood block filled with absorbent tampico or non-absorbent poly.



Part #	Brush Block	Fill Material	Fill Dia.	Trim	Pack	Pack Weight
28302	1-1/2" x 4-3/4"	Tampico	N/A	5/8"	36	5.00
28303	1-1/2" x 4-3/4"	Poly	.012	5/8"	36	5.00

Hand Scrub Brushes

Comfortable Swiss style block is easy to hold and fits into tight places. 2-1/2" wide by 6" long with 1-5/8" trim.



Part #	Fill Material	Fill Dia.	Trim	Pack	Pack Weight
90466	Stiff - Poly	.018	1"	24	7.95

Bench Duster

Tough and durable brush available in tampico and horsehair.



Part #	Material	Brush Face	Overall Length	Trim	Pack	Pack Weight
62034	Tampico	2" x 8"	14"	2-5/8"	12	9.00
62035	H. Hair	3" x 9"	14-1/2"	2-3/8"	12	10.00



Schaefer Brush

Accessories

Section 7

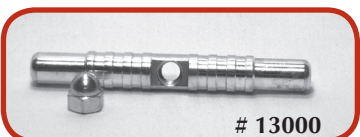
T-Handle with 12-24 Female Threads



"T" hand grip handle with **12-24 screw**. Use with Part #13002 and Part #13003 aluminum rods.

Part #	Thread	Pack	Pack Weight
13001	12-24	6	1.00

T-Handle with 1/4"-28 Male Threads



"T" hand grip handle with **1/4-28 cap nut**. Use with Part #13010 steel rods.

Part #	Thread	Pack	Pack Weight
13000	1/4"-28	6	1.00

Adaptors with 8-32 Female Threads



Wire formed handle with **8-32 male thread**. Use with #13042 wire rod.

Part #	Thread	Pack	Pack Weight
13041	8-32	6	.80

Steel Rod with 8-32 Male Thread

48" x .162" diameter rod with **8-32 male thread one end, formed handle other end**.



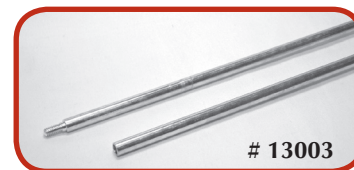
Brushes that can be used with #13044 Steel Rod:

Part #	Page	Part #	Page
43482	48	93482	48
43502 thru 43503	47	93502 thru 93504	47
43602 thru 43603	47	93602 thru 93604	47
43702 thru 43703	47	93702 thru 93704	47
43802 thru 43803	46		

Part #	Thread	Overall Length	Pack	Pack Weight
13044	8-32	48"	6	2.30

Aluminum Rods with 12-24 Female Threads

24" & 36" aluminum rod, 5/16" diameter with **12-24 male thread one end & female thread other end**. Use with 3/8" through 1" diameter female thread condenser brushes.



Brushes that can be used with the 24" & 36" Aluminum Rods:

Part #	Page	Part #	Page
43484 thru 43488	48	43704 thru 43733	47
43504 thru 43533	47	43804 thru 43833	46
43604 thru 43633	47		

Part #	Thread	Overall Length	Pack	Pack Weight
13002	12-24	24"	6	1.50
13003	12-24	36"	6	2.20

Steel Rod with 1/4"-28 Male Threads

36" galvanized steel rod with **1/4"-28 male thread on one end & female thread other end**. Use with 7/16" through 1" diameter male thread condenser brushes.



Brushes that can be used with 36" Steel Rod

Part #	Page	Part #	Page
93484 thru 93488	48	93607 thru 93633	47
93507 thru 93533	47	93707 thru 93733	47

Part #	Thread	Overall Length	Pack	Pack Weight
13010	1/4"-28	36"	6	2.20

Steel Rod with 8-32 Female Threads

24" x .162" diameter rod with **8-32 male thread one end & female thread other end**.



Brushes that can be used with #13042 Steel Rod

Part #	Page	Part #	Page
43482	48	93482	48
43502 thru 43503	47	93502 thru 93504	47
43602 thru 43603	47	93602 thru 93604	47
43702 thru 43703	47	93702 thru 93704	47
43802 thru 43803	46		

Part #	Thread	Overall Length	Pack	Pack Weight
13042	8-32	24"	6	1.30



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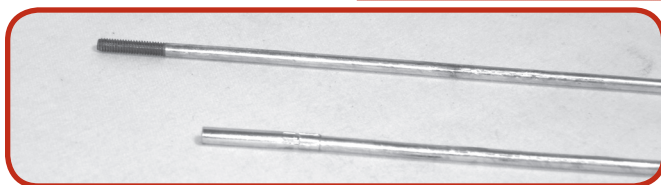
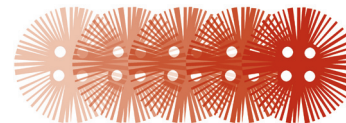


Aluminum Rod with 12-24 Female Thread

Aluminum 5/16" diameter rod with a 5/16-18 male thread one end and 12-24 female nipple on the other.

Use with the following brushes.

Part #	Page
43404 thru 43411	46



Part #	Thread	Overall Length	Pack	Pack Weight
13005	5/16"-18	24"	6	1.32

Fiberglass Rods

Strong fiberglass rods in a variety of diameters provide the proper stiffness for most jobs. We recommend using these nonconducting fiberglass rods whenever possible.

Rods 30663-30666 use with the following brushes;

Part #	Page	Part #	Page
13382 thru 13419	14	42602 thru 42630	45
13417 thru 13419	15	42933 thru 42982	13
36133 thru 36134	20	43012 thru 43036	14
36166 thru 36226	20	43206 thru 43238	12
36256 thru 36270	20	43306 thru 43338	12
36282 thru 36286	20	43536 thru 43579	13
36406 thru 36412	19	43636 thru 43664	14
36506 thru 36512	19	43736 thru 43764	14
36531 thru 36537	19	43836 thru 43879	13
40006 thru 40014	21	45214 thru 45224	13
40606 thru 40314	21	400066 thru 400146	21
40606 thru 40614	21	403066 thru 403146	21
41218 thru 41248	15	406066 thru 406146	21
42502 thru 42530	45		

Rods 36048-30660 use with the following brushes;

Part #	Page	Part #	Page
33066 thru 33126	19	33410 thru 33416	19
33166 thru 33226	20	33606 thru 33612	19
33256 thru 33270	20	33626 thru 33632	19
33266 thru 33312	19	33646 thru 33652	19
33282 thru 33286	20	43282 thru 43290	12



Part #	Dia.	Overall Length	Pipe Thread	Pack	Pack Weight
30663	.350	3'	1/4"	6	2.75
30664	.350	4'	1/4"	6	3.90
30666	.350	6'	1/4"	6	4.50
36048	.440	4'	3/8"	6	4.40
36060	.440	5'	3/8"	6	5.80
36072	.440	6'	3/8"	6	6.40
30660	.480	6'	3/8"	6	8.30

Adaptors with 12-24 Male Thread

Part #	Male Thread	Male Thread	Pack	Pack Weight
13006	1/4"-28	12-24	6	.35

Part #	Female Thread	Male Thread	Pack	Pack Weight
13008	1/4"-28	12-24	6	.35

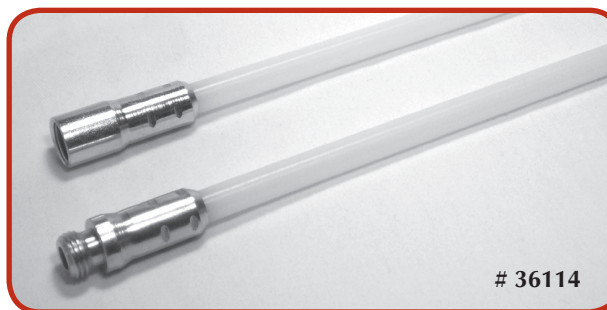


Nylon Brush Rods

Flexible rods for ducts and radical bends. Nylon rods with 1/4" pipe threads may be used in conjunction with fiberglass rods. Stainless Steel fittings available for food grade applications (36114S).

Rods 36114 and 36114S use with the following brushes;

Part #	Page	Part #	Page
13382 thru 13419	14	42602 thru 42630	45
13417 thru 13419	15	42933 thru 42982	13
36133 thru 36134	20	43012 thru 43036	14
36166 thru 36226	20	43206 thru 43238	12
36256 thru 36270	20	43282 thru 43290	12
36282 thru 36286	20	43306 thru 43338	12
36406 thru 36412	19	43536 thru 43579	13
36506 thru 36512	19	43636 thru 43664	14
36531 thru 36537	19	43736 thru 43764	14
40006 thru 40014	21	43836 thru 43879	13
40606 thru 40314	21	45214 thru 45224	13
40606 thru 40614	21	400066 thru 400146	21
41218 thru 41248	15	403066 thru 403146	21
42502 thru 42530	45	406066 thru 406146	21



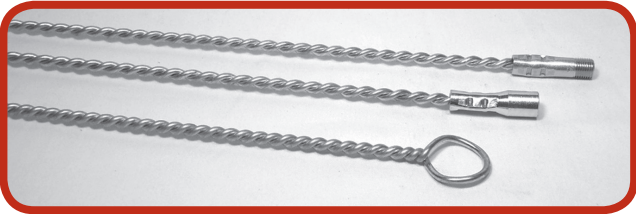
Part #	Dia.	Length	Thread	Pack	Pack Weight
36114	3/8"	4'	1/4"	1	2.50
36114-4	3/8"	4'	1/4"	4	3.25
36114S	3/8"	4'	1/4"	1	2.50
36114S-4	3/8"	4'	1/4"	4	3.25
36112	5/16"	4'	5/16"-18	1	2.50

Rod 36112 use with brush part #'s 36126 & 36128 page 20.



Twisted Steel Handles/Ring End

Semi-flexible, twisted galvanized steel wire with 1" round ring on one end and a 1/4" female pipe thread on the other end.



Part #	Overall Length	Female Thread	Pack	Pack Weight
30328	3'	1/4"	6	3.90
30438	4'	1/4"	6	5.00
30548	5'	1/4"	6	6.25
30658	6'	1/4"	6	7.20

Rods 30328-30658 & 31438-31458 can be used with the following brushes;

Part #	Page	Part #	Page
13382 thru 13419	14	42933 thru 42982	13
13417 thru 13419	15	43012 thru 43036	14
36133 thru 36134	20	43206 thru 43238	12
36166 thru 36226	20	43306 thru 43338	12
36256 thru 36270	20	43536 thru 43579	13
36406 thru 36412	19	43636 thru 43664	14
36506 thru 36512	19	43736 thru 43764	14
36531 thru 36537	19	43836 thru 43879	13
40006 thru 40014	21	45214 thru 45224	13
40606 thru 40314	21	400066 thru 400146	21
40606 thru 40614	21	403066 thru 403146	21
41218 thru 41248	15	406066 thru 406146	21
42602 thru 42630	45		

Twisted Steel Extension Handles

Semi-flexible, twisted galvanized steel wire with 1/4" male pipe thread one end & female thread on the other end.



Part #	Overall Length	Pipe Thread	Pack	Pack Weight
31438	4'	1/4"	6	5.00
31448	5'	1/4"	6	6.25
31458	6'	1/4"	6	7.20

CAUTION: Stay away from electrical power lines!
Because of the ability to connect many rods together, always be aware of the potential to come in contact with electrical lines.

T-Handles



T-Handles connect to the end of rods for easy handling and better grip.

Part #	Pipe Thread	Pack	Pack Weight
30599	1/4"	6	1.60
30600	3/8"	6	1.70

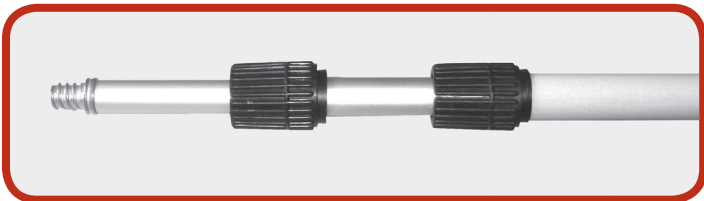
Adaptor/Pull Rings



Part #	Desc.	Pipe Thread	Pack	Pack Weight
36350	Pull Ring	Loop to 1/4"	12	.75
36351	Heavy Duty Pull Ring	Loop to 3/8"	12	.75
36352	Adaptor	1/4" to 3/8"	12	1.4

Aluma-Glass Telescopic Handles

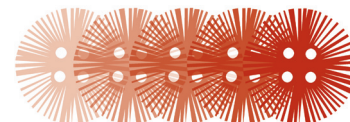
Aluminum insert with fiberglass holder, standard aluminum broom thread.



Part #	Extension Length	Handle Dia.	Handle Material	Pack	Pack Weight
69046	6-12'	1-1/8" x 1-1/4"	Aluminum	6	17.00
69047	6-18'	1-1/8" x 1-1/4"	Aluminum & Fiberglass	6	22.00



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Wooden Threaded Handles

Hardwood handle with standard broom thread. Light duty.

Can be used with the following brushes;

Part #	Page	Part #	Page
66308 thru 66331	22	90484 thru 90488	23
66370 thru 66477	22	90510 thru 90536	22
66408 thru 66431	22	90517 thru 90539	23



Part #	Overall Length	Handle Dia.	Material	Pack	Pack Weight
69015	5'	15/16"	Wood	12	13.00
69055	5'	1-1/8"	Wood	12	19.00
69017	6'	1-1/8"	Wood	12	22.00

Fiberglass Handles

Made of high strength fiberglass available in regular or flow-thru with thread for standard hose.

Can be used with the following brushes;

Part #	Page	Part #	Page
66308 thru 66331	22	90484 thru 90488	23
66370 thru 66477	22	90510 thru 90536	22
66408 thru 66431	22	90517 thru 90539	23



Part #	Overall Length	Handle Dia.	Handle Material	Pack	Pack Weight
69061	5'	15/16"	Regular	12	13.00
69063	5'	1-1/8"	Flow-Thru	12	19.00

Wood w/Metal Threads & All Metal Handles

Hardwood handle with metal threads and heavy wall tubular steel with enamel finish.

Wooden Handles with Metal Threads can be used with the following brushes;

Part #	Page	Part #	Page
66308 thru 66331	22	90484 thru 90488	23
66370 thru 66477	22	90510 thru 90536	22
66408 thru 66431	22	90517 thru 90539	23

All Stainless Steel handles can be used with the following brushes;

Part #	Page	Part #	Page
66308 thru 66331	22	90484 thru 90488	23
66370 thru 66477	22	90510 thru 90536	22
66408 thru 66431	22	90517 thru 90539	23



Part #	Overall Length	Handle Dia.	Material	Pack	Pack Weight
69025	5'	15/16"	Wood	12	13.00
69026	6'	15/16"	Wood	12	15.00
69075	5'	1"	Stainless Steel	12	12.50

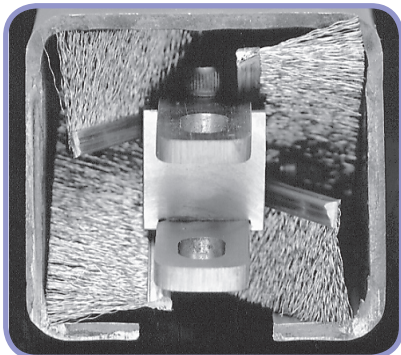


Schaefer Brush

Channel and Beam Sweep

Section 8

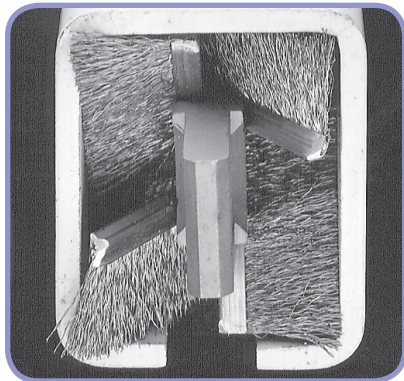
Custom brushes can be made to your specifications. Call for details!



Channel Sweep #91300

Provides:

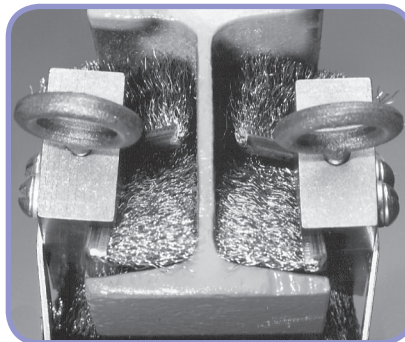
- Continuous Cleaning of all Internal Surfaces
- Ease of Installation
- Non-Sparking Brushes



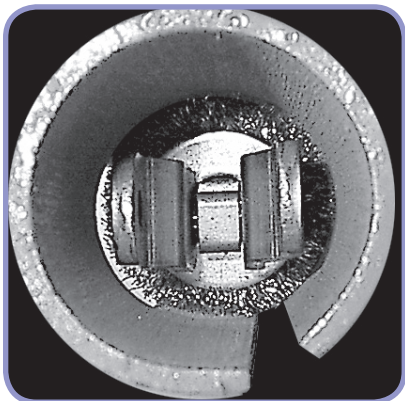
Channel Sweep #91310

Eliminates:

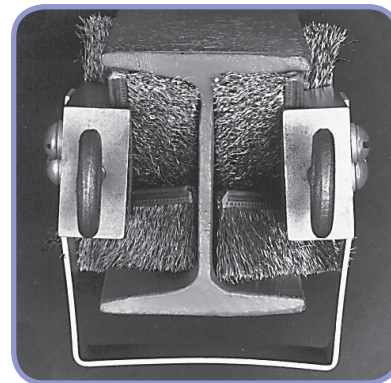
- Particulate Build-Up
- Fall Out
- Rework of Painted Parts
- Wheel & Chain Wear
- Costly Down Time



Channel Sweep #91400
#91440



Channel Sweep #91330



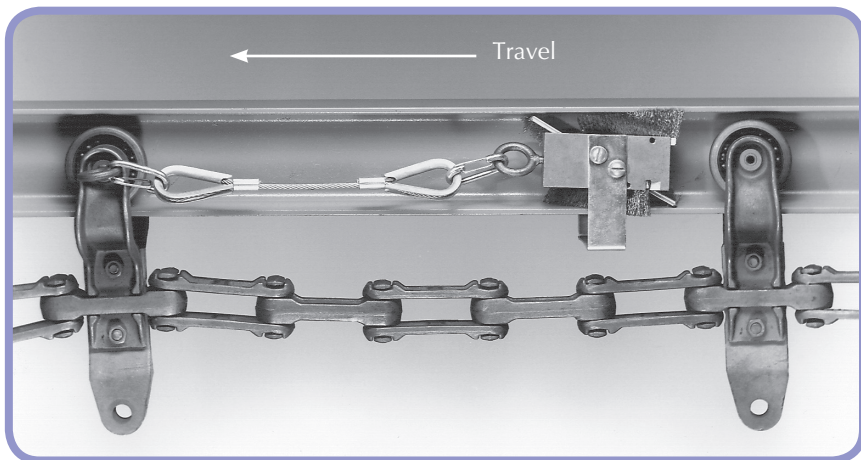
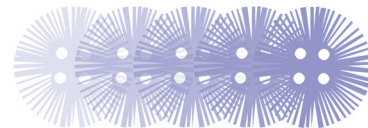
Channel Sweep #91460



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Beam Sweep - #91400 (3") & #91440 (4")



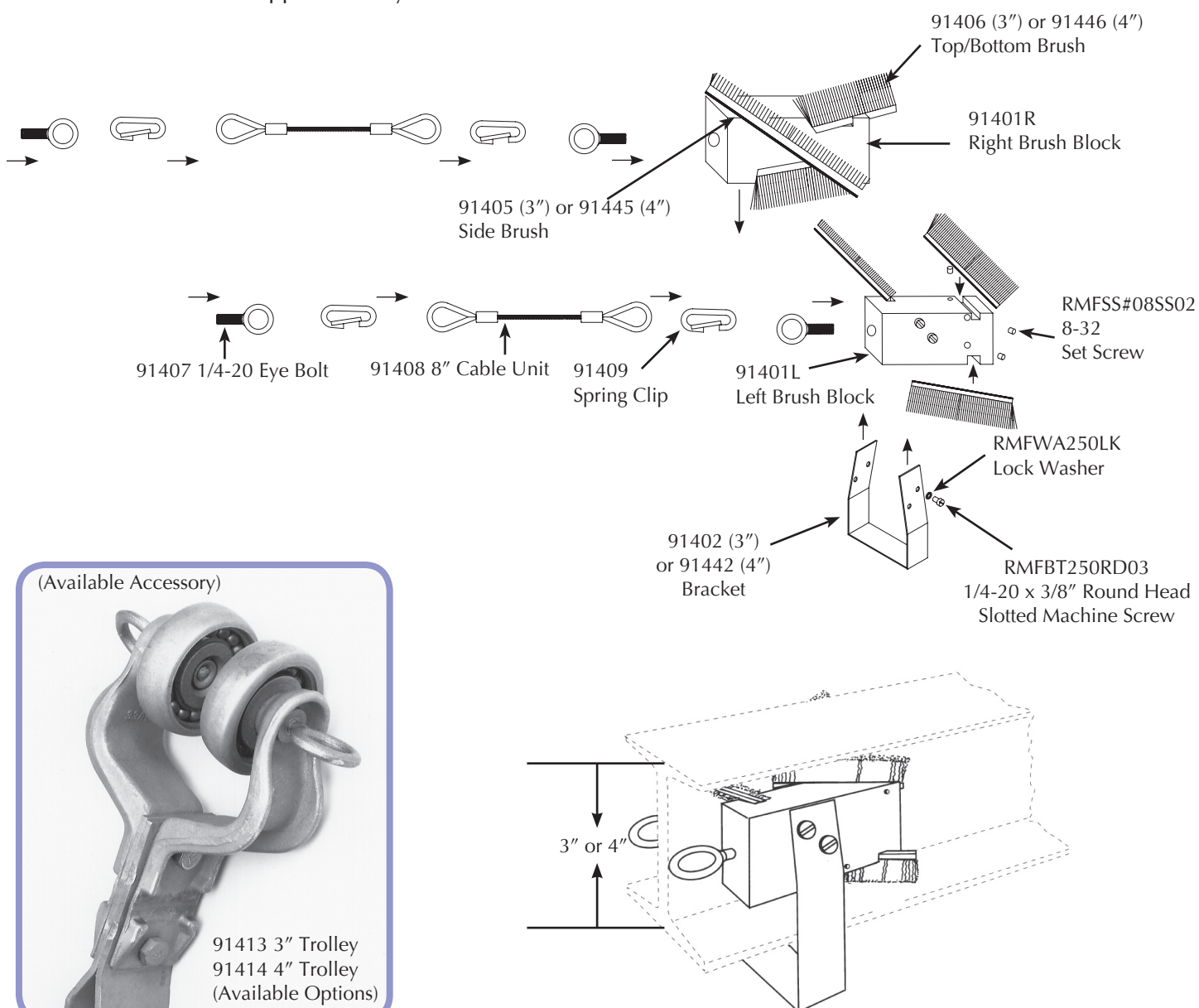
Approximately 16" OAL

3" Beam Sweep utilizes #91405 Side Brushes, #91406 Top & Bottom Brushes and #91402 Brackets.

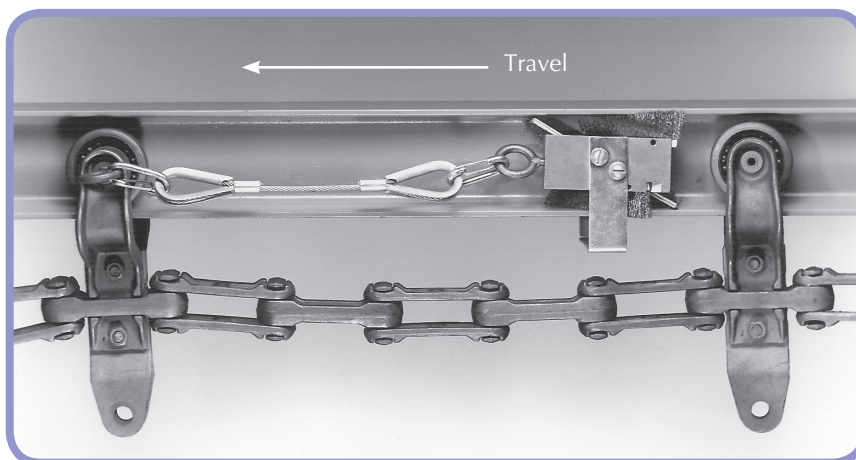
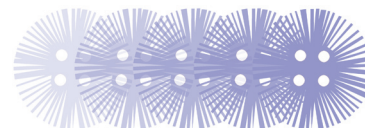
4" Beam Sweep utilizes #91445 Side Brushes, #91446 Top & Bottom Brushes and #91442 Bracket.

All other components are common for both sizes.

For best results, install one Beam Sweep assembly every 200 feet

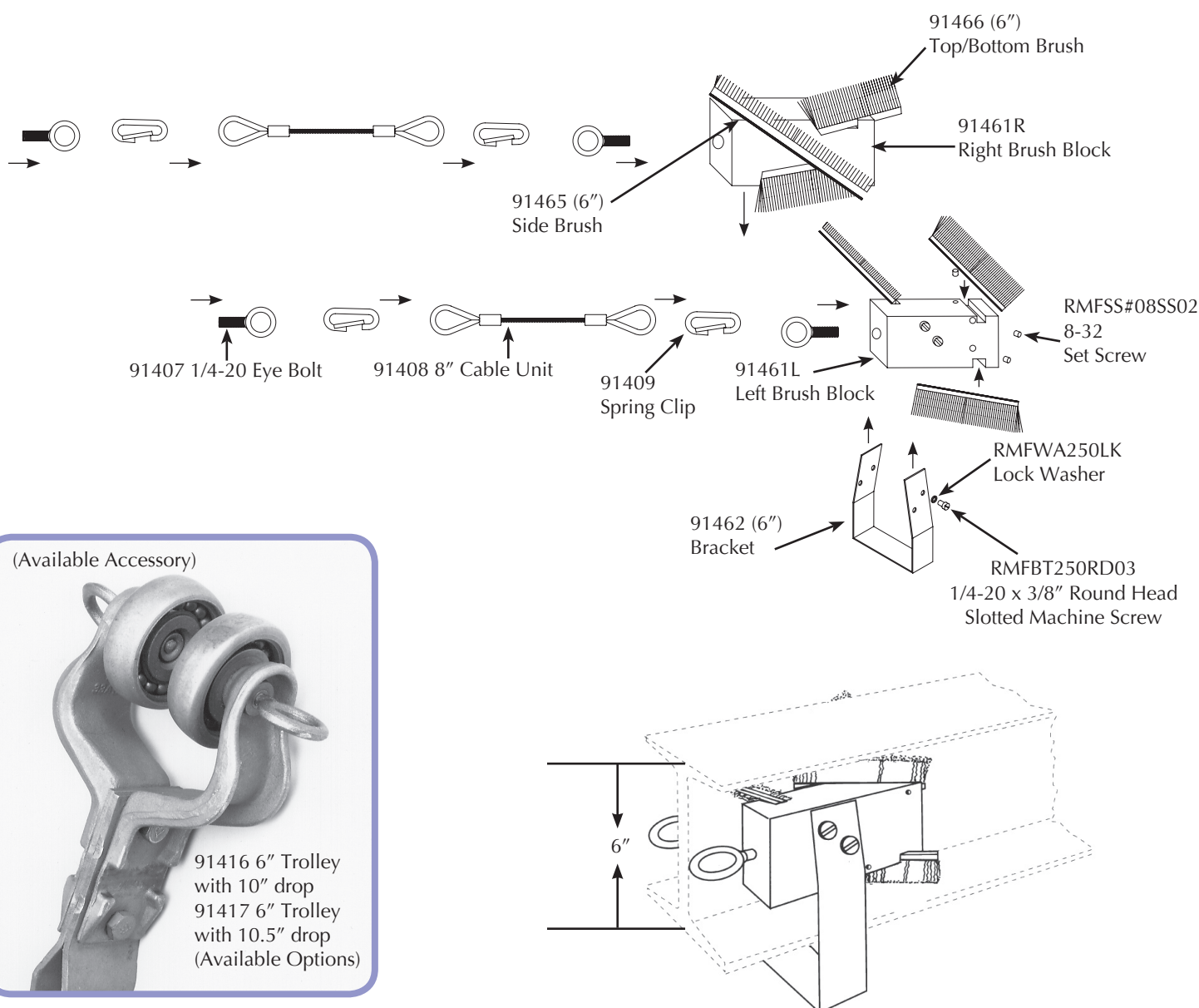


Beam Sweep - #91460 (6")



Approximately 16" OAL

For best results, install one Beam Sweep assembly every 200 feet



(Available Accessory)



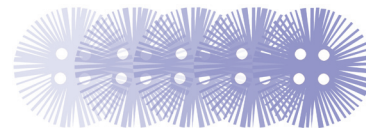
91416 6" Trolley with 10" drop
91417 6" Trolley with 10.5" drop
(Available Options)



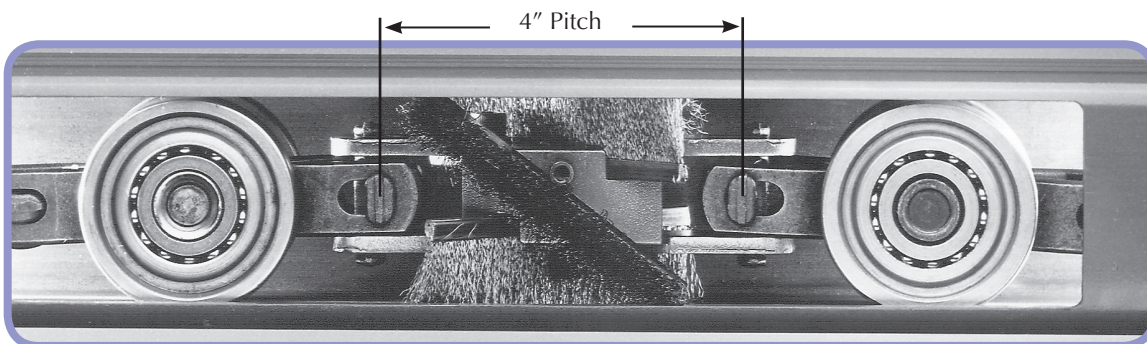
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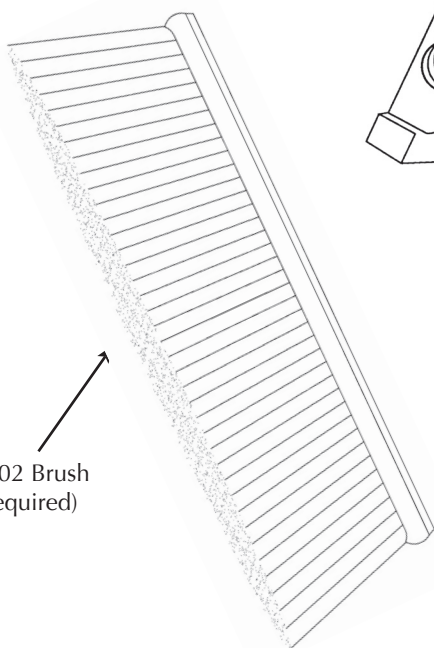
Channel Sweep - #91300



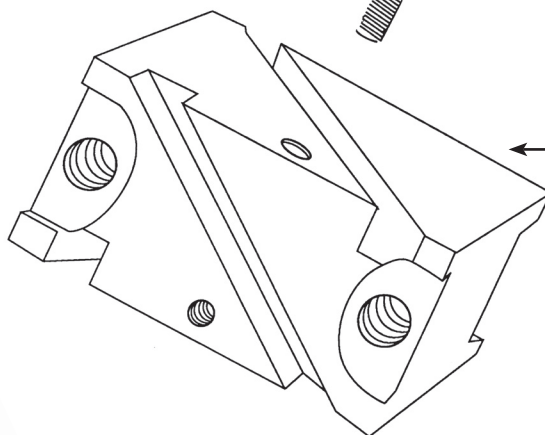
Fits Webb-Unibelt 20200

For best results, install #91300 Channel Sweep every 75'-100' of chain

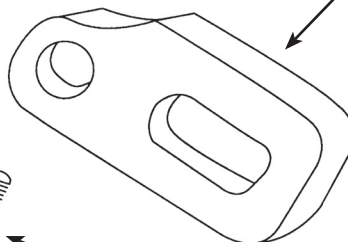
91304 Brush Retaining Screw
(4 required)



91302 Brush
(4 required)



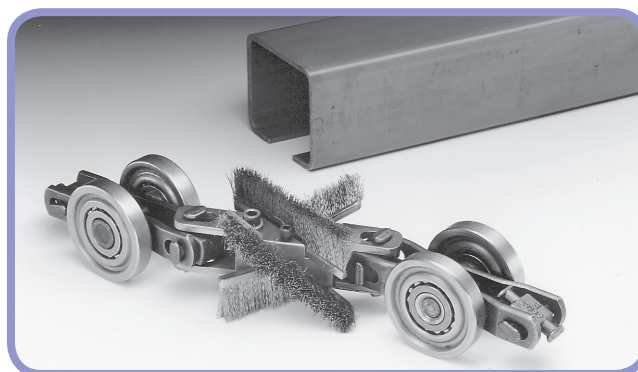
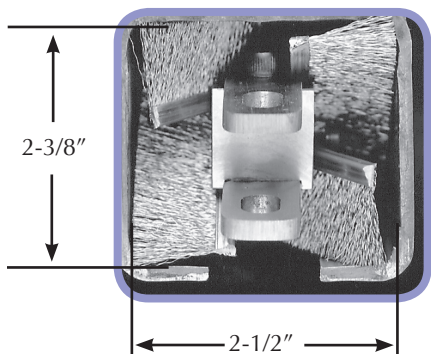
91301
Brush Block



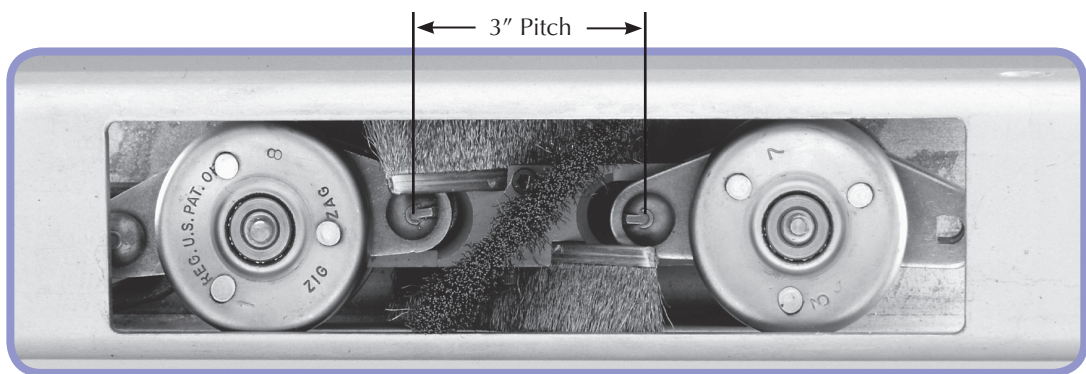
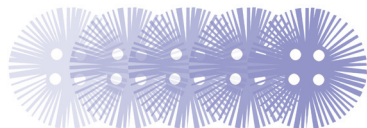
91303 Link
(4 required)



91305 Link Retaining Screw
(4 required)

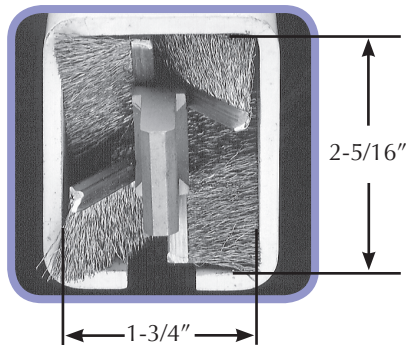
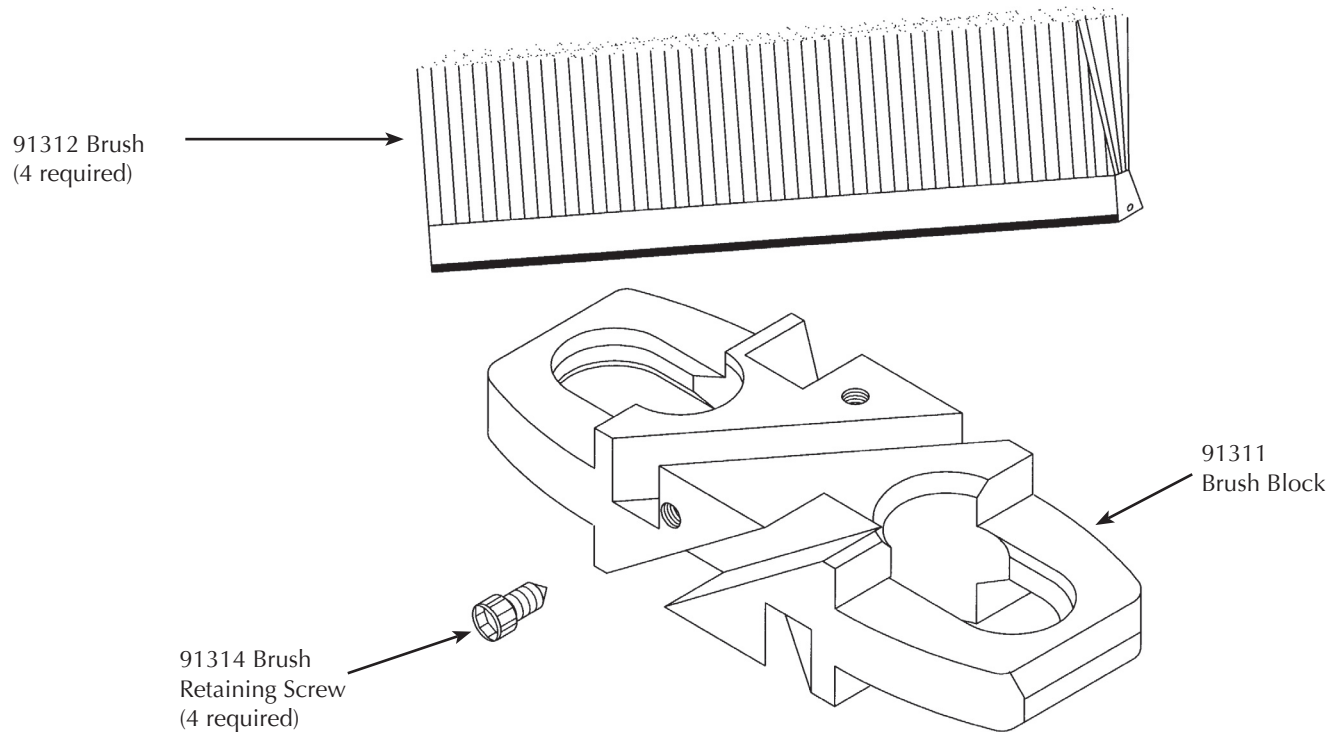


Channel Sweep - #91310



Fits Richard-Wilcox Model 2035

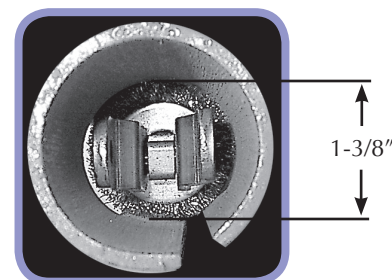
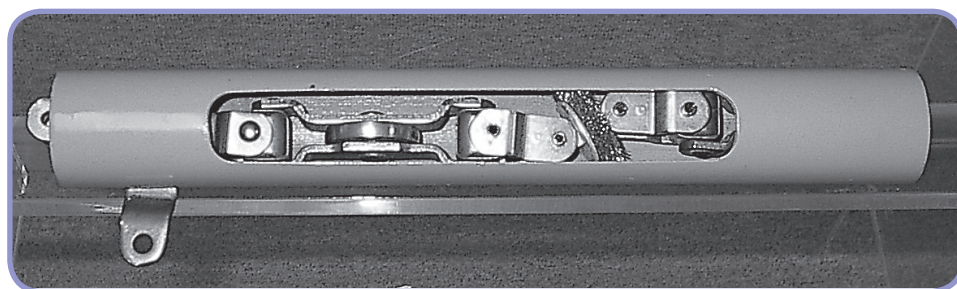
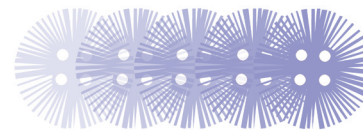
For best results, install #91310 Channel Sweep every 75'-100' of chain



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Channel Sweep - #91330



Fits Adams Chainveyor 200 Series

Beam Sweep - #91400 (3")

Part #	Description
91400	3" Full Assembly Kit

Replacement Parts	Description	Pack	Pack Weight
91401L	Left Side Brush Block	1	1.0
91401R	Right Side Brush Block	1	1.0
91402	Bracket	1	.20
91405	Side Brush	1	.05
91406	Top/Bottom Brush	1	.05
91407	1/4-20 Eye Bolt	1	.05
91408	8" Cable Unit	1	.10
91409	Spring Clip	1	.05
RMFBT250RD03	1/4-20 x 3/8" Round Head Slotted Machine Screw	1	N/A
RMFSS#08SS02	8-32 Set Screw	1	N/A
RMFWA250LK	Lock Washer	1	N/A

Beam Sweep - #91440 (4")

Part #	Description
91440	4" Full Assembly Kit

Replacement Parts	Description	Pack	Pack Weight
91401L	Left Side Brush Block	1	1.0
91401R	Right Side Brush Block	1	1.0
91442	Bracket	1	2.0
91445	Side Brush	1	.10
91446	Top/Bottom Brush	1	.05
91407	1/4-20 Eye Bolt	1	.05
91408	8" Cable Unit	1	.10
91409	Spring Clip	1	.05
RMFBT250RD03	1/4-20 x 3/8" Round Head Slotted Machine Screw	1	N/A
RMFSS#08SS02	8-32 Set Screw	1	N/A
RMFWA250LK	Lock Washer	1	N/A

Beam Sweep - #91460 (6")

Part #	Description
91460	6" Full Assembly Kit

Replacement Parts	Description	Pack	Pack Weight
91461L	Left Side Brush Block	1	3.28
91461R	Right Side Brush Block	1	3.28
91462	Bracket	1	.40
91465	Side Brush	1	.10
91466	Top/Bottom Brush	1	.05
91407	1/4-20 Eye Bolt	1	.05
91408	8" Cable Unit	1	.10
91409	Spring Clip	1	.05
RMFBT250RD03	1/4-20 x 3/8" Round Head Slotted Machine Screw	1	N/A
RMFSS#08SS02	8-32 Set Screw	1	N/A
RMFWA250LK	Lock Washer	1	N/A

Channel Sweep - #91300

Fits Webb-Unibelt 20200

Part #	Description
91300	Full Assembly Kit

Replacement Parts	Description	Pack	Pack Weight
91301	Brush Block	1	.45
91302	Brush	1	.05
91303	Link	1	.05
91304	Brush Retaining Screw	1	N/A
91305	Link Retaining Screw	1	N/A

Channel Sweep - #91330

Fits Adams Chainveyor 200 Series

Part #	Description
91330	Full Assembly Kit

Replacement Part	Description	Pack	Pack Weight
91332	Brush	1	N/A

Channel Sweep - #91310

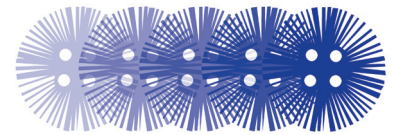
Fits Richard-Wilcox Model 2035

Part #	Description
91310	Full Assembly Kit

Replacement Parts	Description	Pack	Pack Weight
91311	Brush Block	1	.45
91312	Brush	1	.05
91314	Brush Retaining Screw	1	N/A



Schaefer Brush



S-VECO Linear Cleaner

Section 9

Custom brushes can be made to your specifications. Call for details!

The Concept

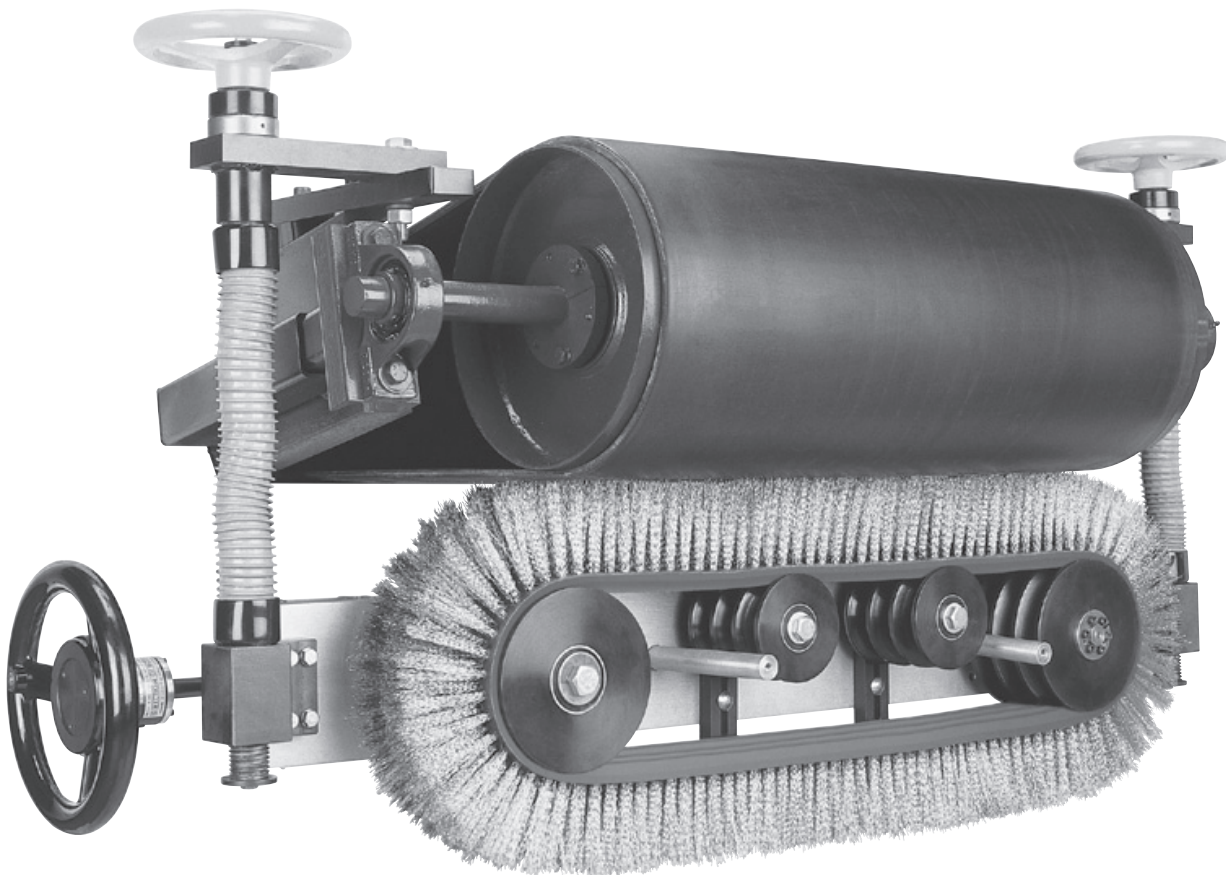
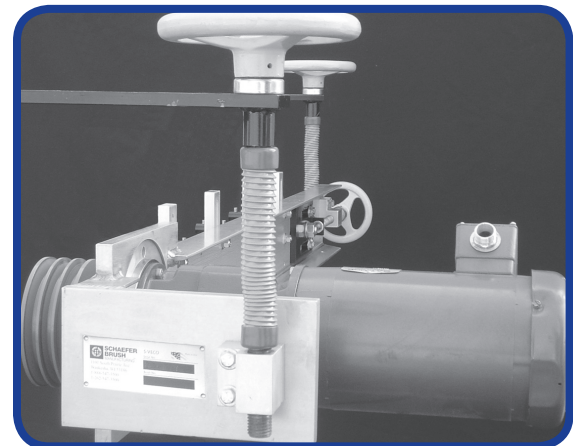
Linear cleaning...it's unique, effective and efficient! This S-VECO system is the only linear system designed to be "self cleaning". The brush belt operates in a perpendicular or transverse direction to the item being brushed, utilizing a powered Uni-V Belt, tufted with brush fibers that will best suit the application. The brush belt travels at a 90 degree angle across a series of sheaves. As it passes over the sheave, the opening of the brush fiber allows debris to be removed by force and easily collected. Each unit includes designed framework and is built for your specific application.

Suggested Applications:

- Conveyor Belt Cleaning
- Mold Car Sweep
- Panel Cleaning
- Apply or Remove Coatings
- Transporting items/material handling applications.

Versatile! Can be used in many different applications and industries.

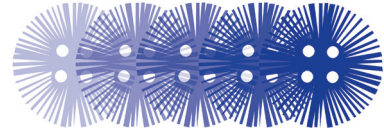
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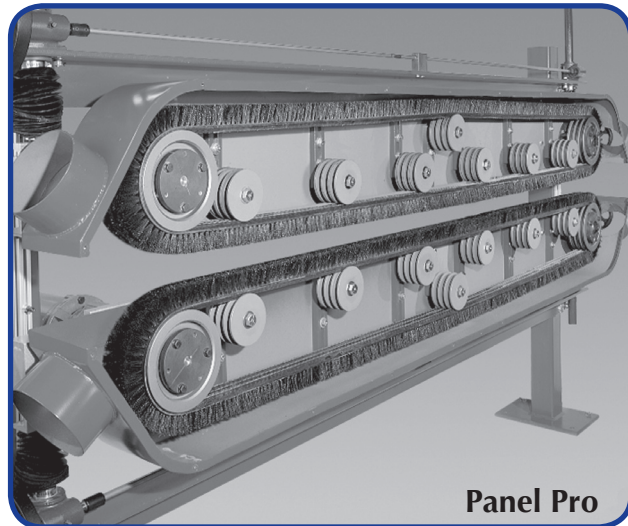
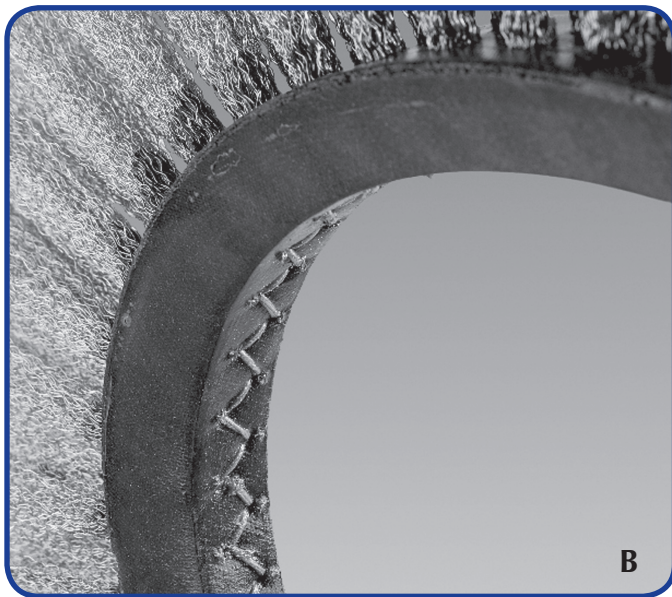


About The S-VECO



Why is This Transverse Linear Brushing Action So Much More Effective Than Any Other Method?

In a top or bottom surface brushing application, scrapers, strip and revolving brushes tend to build up with debris. With the S-VECO Linear Cleaning System, the brush moves the debris to the side where it can easily be collected and removed.



Panel Pro

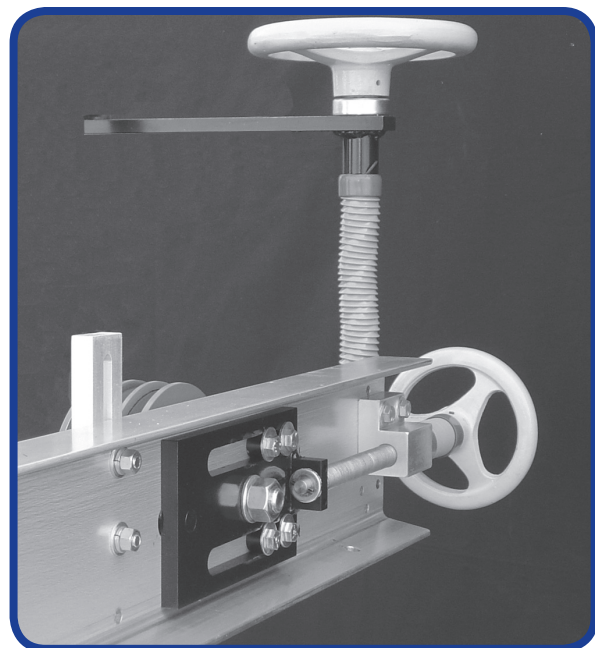
Simple Installation & Adjustment

Installation flexibility is an important design advantage of the S-VECO. Units can be bolted or welded in place for top or bottom brushing through the use of standard mounting brackets that are included with each unit.

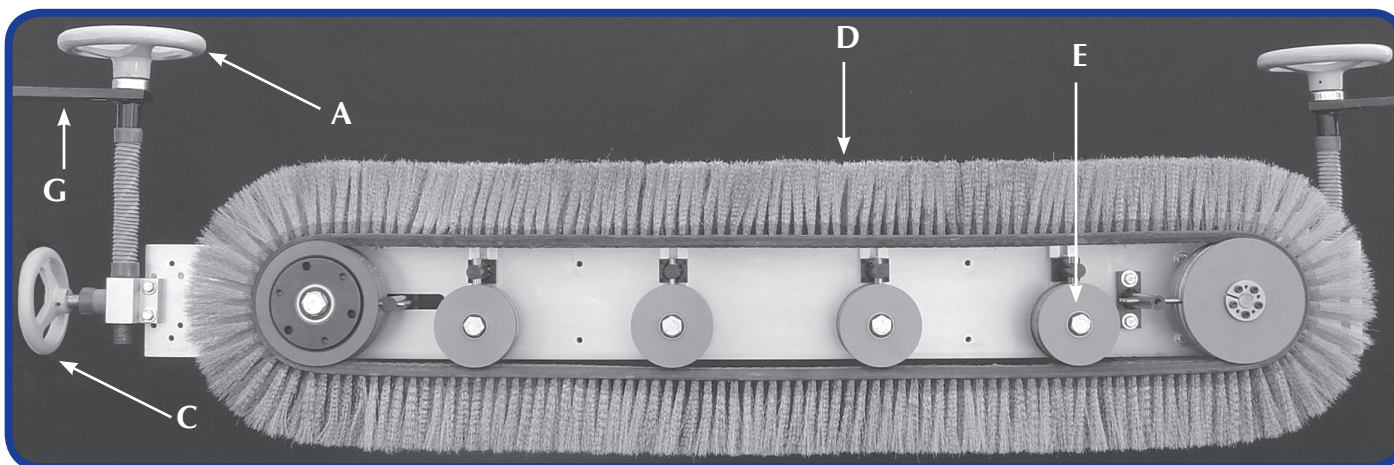
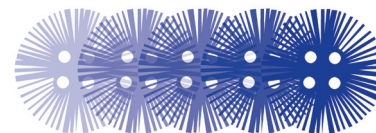
Quick adjustment for brush contact or brush tension is accomplished through elevating screws and belt tension devices. Custom units with electric, hydraulic or pneumatic devices and electronic controls are also available.

Low Maintenance

The amount of maintenance required and the ease with which it is done have been addressed in the S-VECO Linear Cleaning Systems. Brush replacement or adjustment is a simplified operation. By merely adjusting the elevating screws and/or the brush tension assembly, the brush can be quickly and easily removed for replacement or tightened for proper tension. All models have sealed bearings.



Features & Benefits



A. Elevation Screws

All S-VECO units incorporate some form of elevating or lifting mechanism. Standard units have elevator screws with hand wheels. Special units are available with electric or hydraulic actuators, which are either cycled manually or tied into various types of sensing devices and an electronic controller.

The use of sensing devices and controllers has become popular on S-VECO units in high production applications such as Steel Mills, Foundries, and Glass Plants.

B. Hand Drawn Tufted Construction

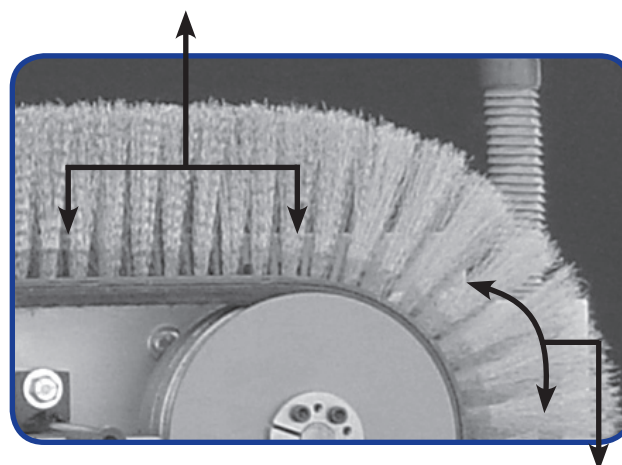
These unique, continuous brushes are made by hand sewing the tufts into standard "B" or "D" section rubber Uni-V belts.

Hand drawing is the most secure method of tufting, minimizing tuft loss or "shedding" (See picture B, pg 36).

C. Brush Tension Device

This device is a screw driven, slide assembly that positions the large, outside, non-driven sheave for proper tension on the brush. This device simplifies the process for releasing tension on the brush to facilitate brush replacement and tensioning. Proper tension prolongs brush life.

Closed Pattern



Open Pattern

D. Self Cleaning Brush

S-VECO brushes are mounted on three grooved pulley sheaves. The brush is driven at approximately 1000 SFM. The benefit of a continuous brush belt traveling on 6" or 7" sheaves causes the brush pattern to open up as the brush courses around the pulley, as seen in the photo above. Combining the "opening" of the pattern with centrifugal force created by the brush speed, results in a self cleaning brush.

E. Brush Stability

Idle sheaves are located at regular intervals between the two large sheaves. Sheaves are adjustable up or down to suit the application and to facilitate contouring of the brush. Proper adjustment of the idler sheaves insures maximum brush contact across its entire length. Proper positioning of the idlers also allows the S-VECO to be used for either top or bottom cleaning without additional hardware.

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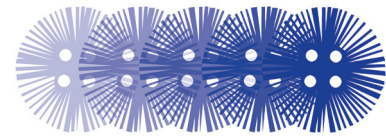
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Applications



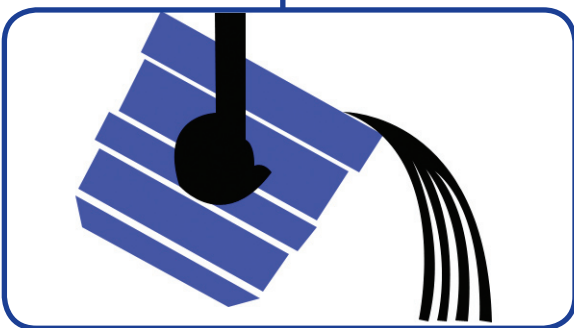
Mining Industries

Medium and Heavy Duty S-Veco units provide a positive effect to the bottom line by:

- Reduce Operating and Maintenance Costs
- Reduce lost material carry back
- Reduce carry back clean up time
- Reduce belt and idler wear
- Reduce belt cleaner stem maintenance time

Reduce conveyor carry back on:

- Taconite
- Coal
- Phosphate
- Cement



Foundry Industries

There are many S-VECO's used in the foundry industries. These brushes are helping to lower operation and maintenance costs while increasing productivity rates.

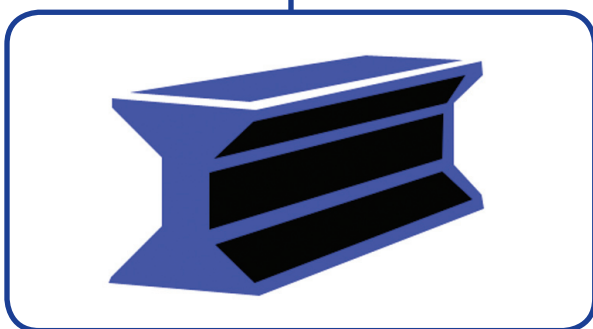
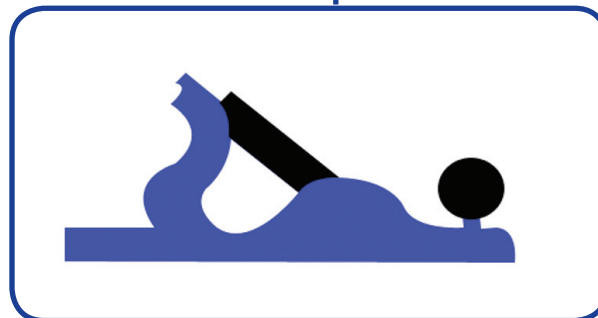
- Effective Cleaning
- Mold Car Tops
- Bottom Boards
- Sand Conveyors
- Recovery Sand Conveyors

Woodworking Industries

An S-VECO unit combined with a dust collection system has proven to be an effective way to do light to medium sanding and dusting operations.

Woodworking Operations:

- Door
- Paneling
- Plywood
- Chipboard
- Veneer and Laminate
- Furniture
- Hardwood Flooring



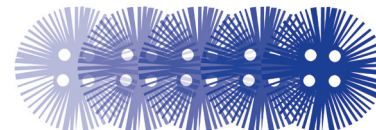
Metal Industries

S-VECO units are used in applications to increase productivity, improve quality, and reduce maintenance costs.

Remove scale and surface impurities on:

- Aluminum Hot Strip & Plate
- Zinc Hot Strip
- Copper Hot Strip
- Steel Cold Slabs

Schaefer Brush

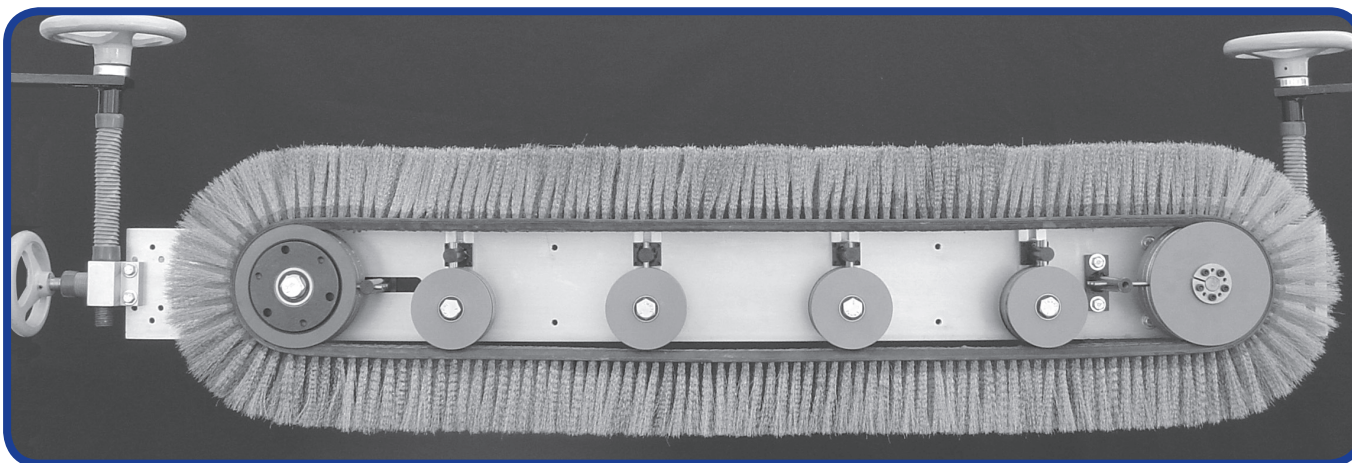


S-VECO - Model RMD

Medium Duty Linear Brushing System

Section 9-1

Custom units can be made to your specifications. Call for details!



Features:

- Field tested design
- High torque drive system
- All sealed bearings
- Wide selection of brush materials
- Most applications can be brushed
- Top and bottom brushing
- Contour idlers
- Proven effective
- Power to do the job
- Low maintenance
- The right brush for the job
- 18" to 96" surface contact
- Dual cleaning option available
- Adaptable to unique applications

Benefits:

Typical Markets/Industries:

- Foundries
- Power Plants
- Concrete Product Plants
- Mines
- Food Processing
- Paper Mills

Suggested Applications:

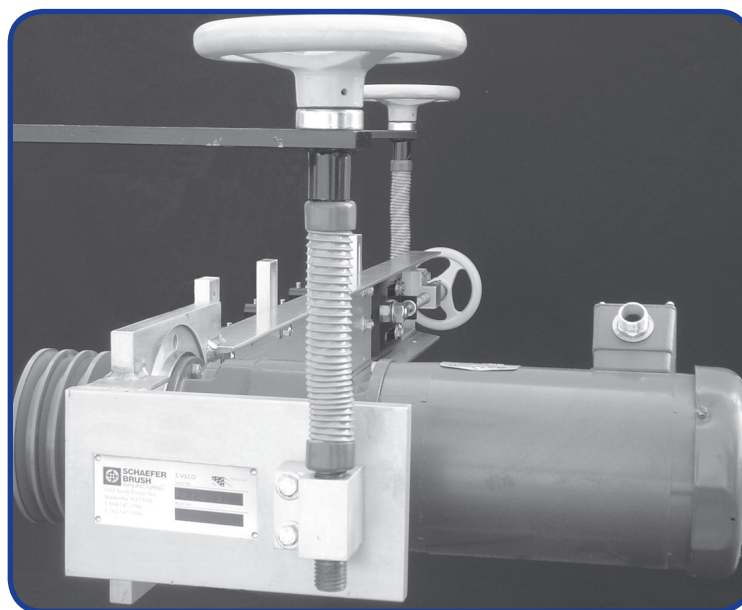
- Conveyor belt cleaning
- Mold car sweep
- Panel cleaning
- Apply or remove coatings
- Transporting items/material handling applications

Versatile! Can be used in many different applications and industries.

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Standard Equipment

Heavy Duty Brushes

Model RMD S-VECO belt brush is a three-banded, B section, Uni-V Belt filled with long wearing nylon, or aggressive stainless steel brush materials. This medium duty brush has a single row of brush material in each band, providing approximately a 2-1/2" wide brush face with a standard 3-1/2" long trim. Other trim lengths and materials are available to meet your needs.

Brush Tensioning Device

A manually operated screw and slide assembly to which the brush sheave is mounted, provides the means for tensioning or relaxing the brush. See figure 1.1 item 1.

Contour Idler Sheaves

Full brush contact and stability are achieved, even on irregular surfaces, through the proper positioning of the contour idlers. Idlers can be adjusted up or down to force the brush to conform to the surface being brushed, insuring proper cleaning and chatter free high speed brushing. See figure 1.3 item 2.

Height Adjustment Device

The amount of brush pressure being applied against the surface being cleaned is of utmost importance. This pressure is controlled through the use of the Height Adjustment Device Elevating Screws. On standard models the elevating screws are manually operated. Other height adjustment devices are available. See figure 1.2 item 3.

NOTE: The working part of a brush is the tip of the bristle. Exaggerated bristle deflection caused by excessive pressure will result in premature wear and failure. The only exception to this is the use of an abrasive impregnated brush fiber.

Power Source

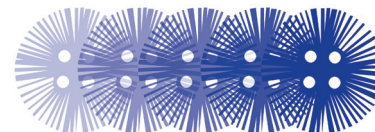
RMD units are powered with various horsepower. A highly efficient 1725 RPM, TEFC, 3/60Hz, 208-220/440V electric motor is mounted directly to a sealed gear box. These two units are mounted directly in line with the driven brush sheave, forming a direct drive. See figure 1.1 item 4.

Sealed Bearings

All sheave bearings are micro poly filled for maximum life.

Welded Aluminum Frame

RMD units are assembled on light weight extruded aluminum frames. Units are manufactured with an effective brushing range of up to 8 feet.



Model RMD Medium Duty Linear Brushing Systems

Top View

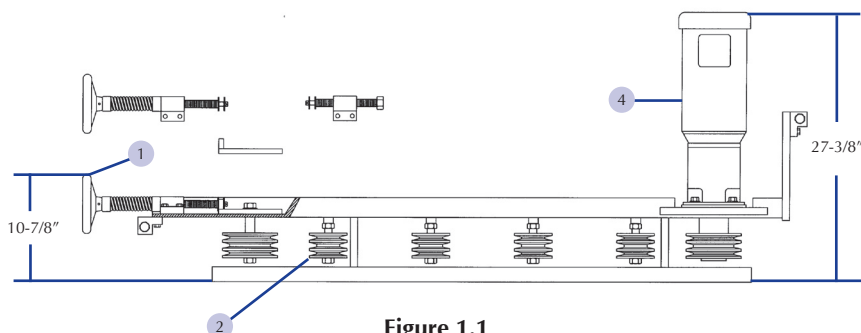


Figure 1.1

Model Number RMD	18	24	30	36	42	48	54	60	72	86	96
A-Effective Brushing Area	18	24	30	36	43	47.5	53.5	63	72	86	96
B-With standard 3-1/2" Trim	31	37	43	49	56	60.5	66.5	76	85	99	109
C-Total Frame Length (OAL)	36	42	48	54	61	65.5	71.5	81	90	104	114
D-Number of Contour Idlers	1	2	2	3	4	4	5	5	6	7	7

NOTE: DIMENSIONS ARE GIVEN IN INCHES.

Front View

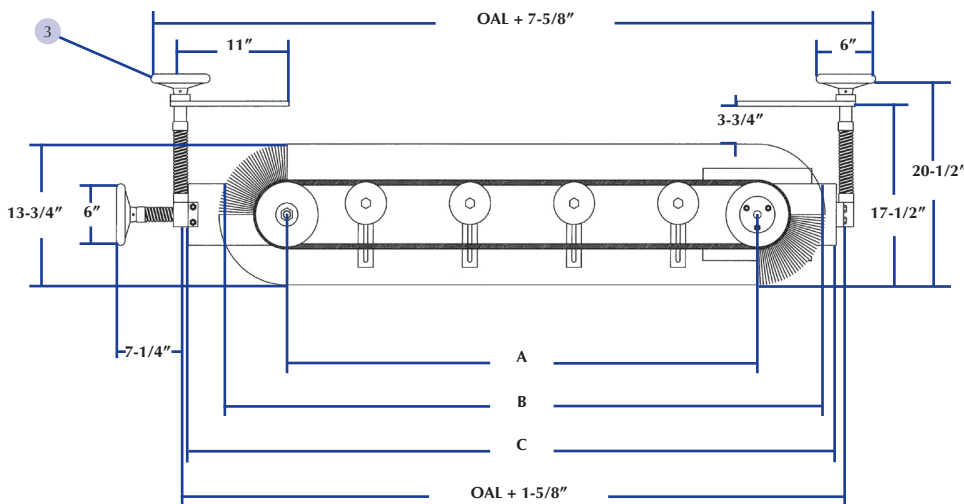


Figure 1.2

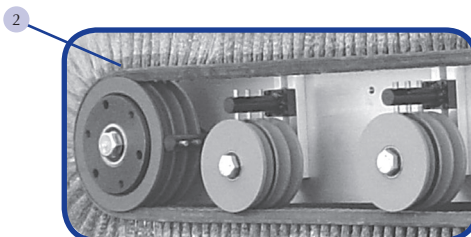


Figure 1.3

Contour idler sheaves shown with optional sheave cleaners.

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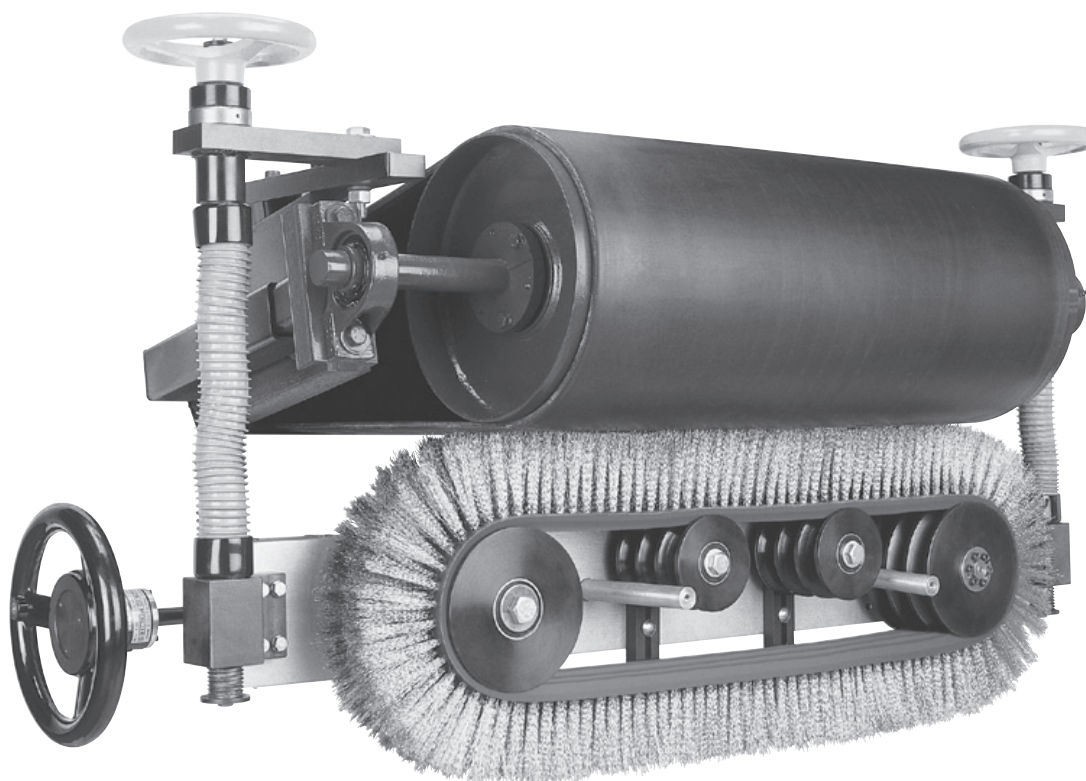
Schaefer Brush

S-VECO - Model RMHD-D

Extra Heavy Duty Linear Brushing System

Section 9-2

Custom units can be made to your specifications. Call for details!



Features:

- Powerful direct drive
- Wide selection of brush material
- Micro poly sealed bearings
- High speed brushes
- Wide range of sizes
- Versatile design

Benefits:

- Power & Torque to do the job
- The right brushes for the job
- Low maintenance costs
- Self cleaning
- Sizes from 24" to 124"
- Brush can be contoured to the surface being cleaned.
- Can be used on vertical or horizontal plane, on top or bottom of conveyor.

Typical Markets/Industries:

- Foundries
- Power Plants
- Glass Plants
- Concrete Product Plants
- Mines
- Food Processing
- Paper Mills
- Steel Mills
- Furniture Factories

Suggested Applications:

- Conveyor belt cleaning
- Mold car sweep
- Panel cleaning
- Apply or remove coatings
- Transporting items/material handling applications

Versatile! Can be used in many different applications and industries.

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Standard Equipment

Extra Heavy Duty Brushes

Model RMHD-D S-VECO belt brush is a three-banded, D section, Uni-V Belt filled with long wearing nylon, or aggressive stainless steel brush materials. This extra heavy duty brush has a double row of brush material in each band, providing approximately a 3-1/2" wide brush face with a standard 3-1/2" long trim. Other trim lengths and materials are available to meet your needs.

Brush Tensioning Device

A manually operated screw and slide assembly to which the brush sheave is mounted provides the means for tensioning or relaxing the brush.

See figure 1.1 item 1.

Contour Idler Sheaves

Full brush contact and stability are achieved, even on irregular surfaces, through the proper positioning of the contour idlers. Idlers can be adjusted up or down to force the brush to conform to the surface being brushed, insuring proper cleaning and chatter free high speed brushing.

See figure 1.3 item 2.

Height Adjustment Device

The amount of brush pressure being applied against the surface being cleaned is of utmost importance. This pressure is controlled through the use of the Height Adjustment Device Elevating Screws. On standard models the elevating screws are manually operated. Other height adjustment devices are available.

See figure 1.2 item 3.

NOTE: The working part of a brush is the tip of the bristle. Exaggerated bristle deflection caused by excessive pressure will result in premature wear and failure. The only exception to this is the use of an abrasive impregnated brush fiber.

Power Source

RMHD-D units are powered with various horsepower. A highly efficient 1725 RPM, TEFC, 3/60Hz, 208-220/440V electric motor is mounted directly to a sealed gear box. These two units are mounted directly in line with the driven brush sheave, forming a direct drive.

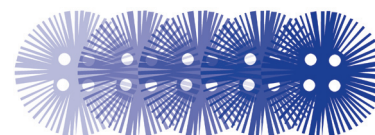
See figure 1.1 item 4.

Sealed Bearings

All sheave bearings are micro poly filled for maximum life.

Welded Aluminum Frame

RMHD-D units are assembled on light weight extruded aluminum frames. Units are manufactured with an effective brushing range of up to 12 feet.



Model RMHD-D Extra Heavy Duty Linear Brushing System

Top View

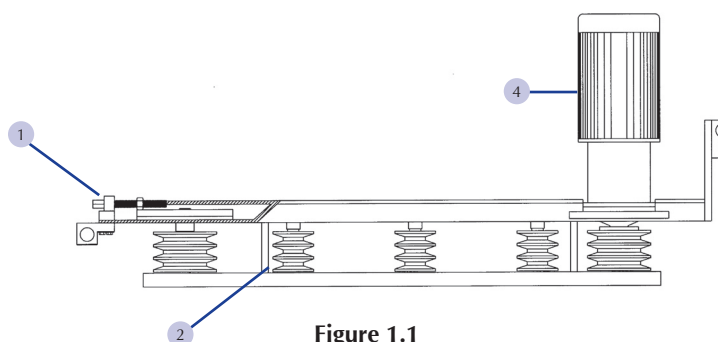


Figure 1.1

Model Number RMHD-D	24	30	36	42	48	50	54	60	72	86	96	108
A-Effective Brushing Area	24	30	36	42	47	51	55	63	72	89	96	110
B-With standard 3-1/2" Trim	39	45	51	57	63	65	70	77	87	103	111	124
C-Total Frame Length (OAL)	43	49	55	61	67	69	74	81	91	107	115	128
D-Number of Contour Idlers	1	2	2	3	3	3	4	5	6	6	7	9

Note: Dimensions are given in inches.

Front View

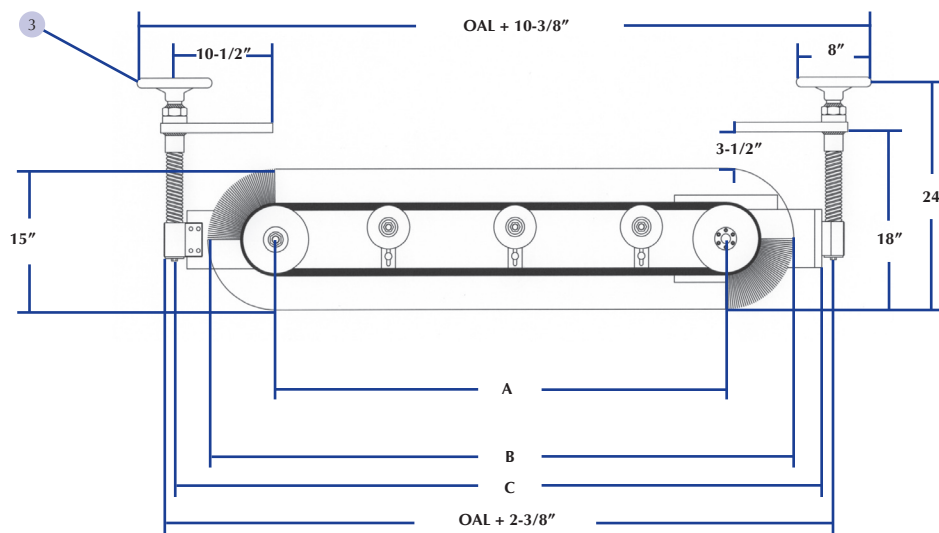


Figure 1.2

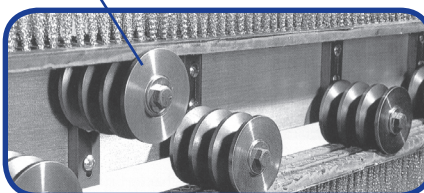


Figure 1.3

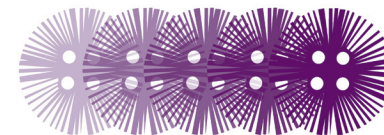
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Made in USA



Schaefer Brush



Tube Brushes

Section 10

Custom brushes can be made to your specifications. Call for details!

Tube brushes are offered in nylon, stainless steel and brass bristles. These brushes are available with a short or long wire handle.

Twisted Wire Brushes

The small symbols represent a cross section of a twisted brush.



Single Spiral/Single Stem (2 wire)

Brush bristles are twisted between two stem wires with a single wire on each side.



Single Spiral/Double Stem (4 wire)

Brush bristles are twisted between four stem wires with two stem wires on each side.



Double Spiral/Double Stem (4 wire)

Brush bristles are twisted between four stem wires with two layers of bristle. Each layer is perpendicular to the other with a single stem wire in each quadrant.

Safety Equipment & Requirements

Safety goggles or face shields must be worn by operators and/or personnel in the working area of brushes. Appropriate protective clothing and equipment must be used where a possibility of injury exists which could be prevented by using such clothing or equipment.



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Speeds

Observe all speed restrictions indicated on brushes, containers, labels, or printed literature. "MSFS" means "Maximum Safe Free Speed" (RPM); that is, spinning free with no work applied. For safety, never exceed "MSFS". Consult our office or representative for maximum safe speeds pertaining to your application, if not predetermined.

Guards

Keep all machine guards in place.

Short Handle Nylon & Bristle Tube Brushes

Nylon Tube Brushes

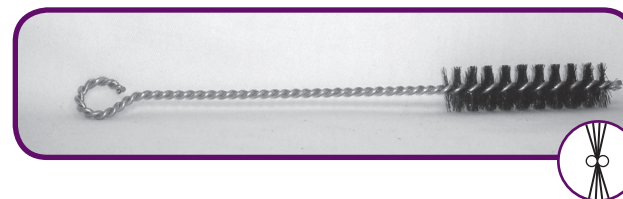
Single Spiral/Single Stem



Part #	Dia. X Brush Part	Overall Length	Fill Dia.	Pack Pack	Pack Weight
14504	1/4" x 2"	6-1/2"	.010	12	0.7
14510	3/8" x 2"	6-1/2"	.010	12	0.7
14517	1/2" x 3"	9"	.012	12	0.9
14529	3/4" x 3"	9"	.008	12	1.1

Natural Bristle Tube Brushes

Single Spiral/Single Stem

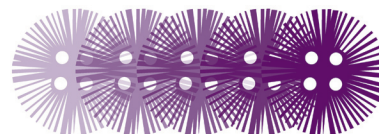


Part #	Dia. X Brush Part	Overall Length	Pack	Pack Weight
10209	1/4" x 2"	6-1/2"	12	0.8
10210	3/8" x 2"	6-1/2"	12	0.8
10220	3/8" x 2"	9"	12	0.9
10211	1/2" x 3"	9"	12	0.8
10221	1/2" x 3"	12"	12	1.1
10212	3/4" x 3"	9"	12	1.1
10214	3/4" x 3"	12"	12	1.2
10213	1" x 4"	12"	12	1.3



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Long Handle Nylon & Bristle Tube Brushes

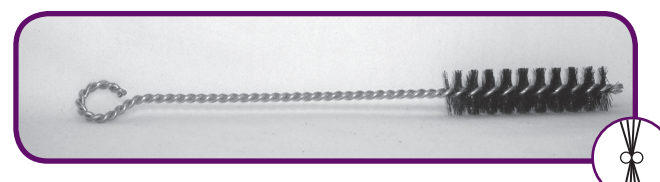


Nylon Tube Brushes Single Spiral/Single Stem



Part #	Dia. X Brush Part	Overall Length	Fill Dia	Pack	Pack Weight
14506	1/4" x 2"	15"	.010	12	0.7
14509	5/16" x 2"	15"	.010	12	0.8
14512	3/8" x 2"	15"	.010	12	1.1
14515	7/16" x 2"	15"	.010	12	1.1
14518	1/2" x 3"	15"	.012	12	1.1
14520	1/2" x 3"	30"	.012	12	3.0
14524	5/8" x 3"	15"	.012	12	1.1
14530	3/4" x 3"	15"	.012	12	1.3
14533	3/4" x 3"	30"	.008	12	3.0
14539	1" x 4"	15"	.014	12	1.5
14547	1-1/4" x 4"	15"	.014	12	1.5
14565	1-1/2" x 4"	15"	.016	12	1.8
14567	1-1/2" x 4"	36"	.012	12	3.5
14573	1-3/4" x 4"	15"	.016	12	1.8
14582	2" x 4"	15"	.012	12	2.0
14588	2-1/4" x 4"	36"	.014	12	3.5

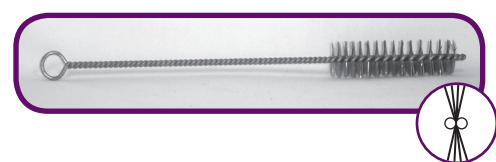
Natural Bristle Tube Brushes Single Spiral/Single Stem



Part #	Dia. X Brush Part	Overall Length	Pack	Pack Weight
10222	1/2" x 3"	18"	12	1.2
10223	1/2" x 3"	24"	12	1.3
10224	1/2" x 3"	36"	12	2.3
10216	1" x 4"	18"	12	1.8
10217	1-1/4" x 4"	18"	12	1.9
10218	1-1/2" x 4"	18"	12	2.0
10225	1-3/4" x 4"	18"	12	2.1
10226	2" x 4"	18"	12	2.3

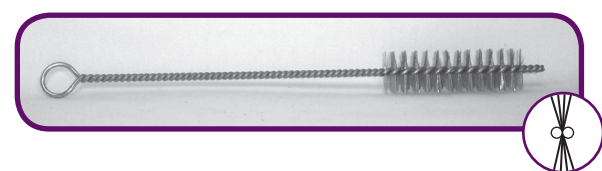
Short Handle Wire Tube Brushes

Stainless Steel Single Spiral/Single Stem



Part #	Fill Dia.	Brush Dia.	Part #	Fill Dia.	Brush Length	Overall Length	Pack	Pack Weight
01000	.003	1/8"	01020	.005	1"	6"	12	0.7
01001	.003	3/16"	01021	.005	1-1/2"	7"	12	0.7
01002	.003	1/4"	01022	.005	1-1/2"	7"	12	0.7
01003	.004	5/16"	01023	.005	1-1/2"	7"	12	0.7
01004	.005	3/8"	01024	.006	2"	8"	12	0.8
01005	.005	7/16"	01025	.006	2"	8"	12	0.8
01006	.005	1/2"	01026	.006	2"	8"	12	0.8
01007	.005	5/8"	01027	.007	2-1/2"	9"	12	1.1
01008	.005	3/4"	01028	.007	2-1/2"	9"	12	1.1
01009	.005	7/8"	01029	.007	2-1/2"	10"	12	1.3
01010	.005	1"	01030	.008	2-1/2"	10"	12	1.3

Brass Single Spiral/Single Stem



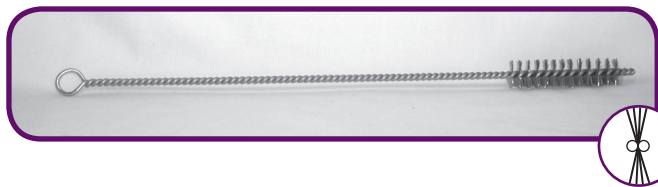
Part #	Fill Dia.	Brush Dia	Brush Length	Overall Length	Pack	Pack Weight
01042	.003	1/4"	1-1/2"	7"	12	.7
01043	.003	5/16"	1-1/2"	7"	12	.7
01044	.004	3/8"	2"	8"	12	.8
01045	.004	7/16"	2"	8"	12	.8
01046	.004	1/2"	2"	8"	12	.8
01047	.005	5/8"	2-1/2"	9"	12	1.1
01048	.005	3/4"	2-1/2"	9"	12	1.1
01049	.005	7/8"	2-1/2"	10"	12	1.3
01050	.005	1"	2-1/2"	10"	12	1.3

Long Handle Wire Tube Brushes

Stainless Steel or Brass

Single Spiral/Single Stem

3" brush part with long handle.



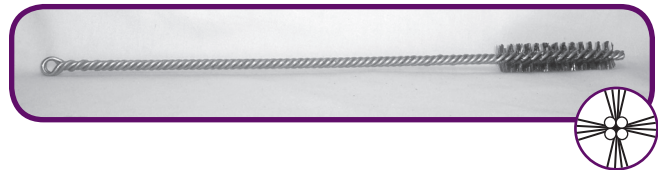
ST/ST Part #	Fill Dia.	Brass Part #	Fill Dia.	Brush Dia.	Overall Length	Pack	Pack Weight
14402	.005	14602	.005	1/4"	15"	12	1.1
14404	.005	14604	.005	3/8"	15"	12	1.3
14406	.006	14606	.006	1/2"	15"	12	1.5
14408	.006	14608	.006	5/8"	15"	12	1.8
14410	.007	14610	.006	3/4"	15"	12	1.8
14412	.007	14612	.006	7/8"	15"	12	2.0
14414	.007	14614	.006	1"	15"	12	2.0
14416	.007	14616	.008	1-1/4"	15"	12	2.0
14418	.007	14618	.008	1-1/2"	15"	12	2.1

ST/ST Part #	Fill Dia.	Brass Part #	Fill Dia.	Brush Dia.	Overall Length	Pack	Pack Weight
14442	.005	14642	.005	1/4"	27"	12	1.5
14444	.005	14644	.005	3/8"	27"	12	1.8
14446	.006	14646	.006	1/2"	27"	12	2.3
14448	.006	14648	.006	5/8"	27"	12	2.7
14450	.007	14650	.006	3/4"	27"	12	2.7
14452	.007	14652	.006	7/8"	27"	12	2.9
14454	.007	14654	.006	1"	27"	12	2.9
14456	.007	14656	.008	1-1/4"	27"	12	2.9
14458	.009	14658	.008	1-1/2"	27"	12	3.0

Stainless Steel

Double Spiral/Double Stem

3" brush part with long handle, extra heavy handle, filled with medium stiff wire.



Part #	Brush Dia.	Overall Length	Fill Dia.	Pack	Pack Weight
24404	1/2"	15"	.006	12	2.5
24408	3/4"	15"	.007	12	3.0
24412	1"	15"	.009	12	3.2
24416	1-1/2"	15"	.009	12	3.5



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Bright White Nylon Tube Brushes

Tube Brushes - Single Spiral/Double Stem

"Food Grade" white nylon tube brushes. FDA approved nylon. 1/4" male pipe thread nipple. Individually sealed in a poly bag.

Use the following **accessories** with the brushes below:

Fiberglass Rods 30663, 30664 or 30666, **Twisted Steel Extension Handles** 31438, 31448 or 31458, **Twisted Steel Handle With Ring** 30328, 30438, 30548 or 30658, **Nylon Rod** 36114, 36114-4, 36114S, 36114S-4.



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Premium Bright White - Stainless Steel Stem/Nipples

Part #	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight
42602	1"	4-1/2"	.018	1	.04
42604	1-1/2"	4-1/2"	.020	1	.04
42606	2"	4-1/2"	.022	1	.04
42608	2-1/2"	4-1/2"	.025	1	.06
42610	3"	4-1/2"	.028	1	.06
42614	4"	4-1/2"	.036	1	.06
42618	5"	4-1/2"	.036	1	.22
42622	6"	4-1/2"	.045	1	.30
42630	8"	4-1/2"	.060	1	.38

Economy Bright White - Galvanized Stem/Nipples

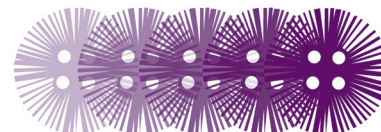
Part #	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight
42502	1"	4-1/2"	.018	1	.04
42504	1-1/2"	4-1/2"	.020	1	.04
42506	2"	4-1/2"	.022	1	.04
42508	2-1/2"	4-1/2"	.025	1	.06
42510	3"	4-1/2"	.028	1	.06
42514	4"	4-1/2"	.036	1	.06
42518	5"	4-1/2"	.036	1	.22
42522	6"	4-1/2"	.045	1	.30
42530	8"	4-1/2"	.060	1	.38



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Adjustable Condenser Cleaners



Stainless steel wire scrapers with **1/4"-28 female threads**.



Part #	Size	Pack	Pack Weight
00691	5/16" to 3/8"	1	.06
00692	3/8" to 1/2"	1	.06
00693	1/2" to 5/8"	1	.12
00694	5/8" to 1"	1	.12

Condenser Fin Whisk Brush

Plastic handle whisk for cleaning condenser fins and evaporators - A whisk with a hundred uses.



Can be custom pad printed with your name & logo. Ask for details!

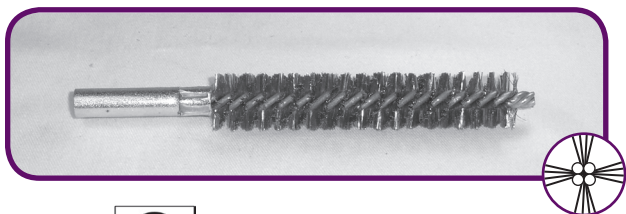
Part #	Brush Width	Trim	Overall Length	Pack	Pack Weight
02026	3"	2-1/8"	6-1/2"	24	1.35

Condenser Tube Brushes

Stainless Steel

Double Spiral/Double Stem

Recommended for stainless steel tubes. 1/4" and 5/16" dia. Brushes have a nipple **with 8-32 female thread** (use accessories 13042 or 13044). 3/8" thru 1" dia. Brushes have a nipple **with 12-24 female thread** (use accessories 13002 or 13003).



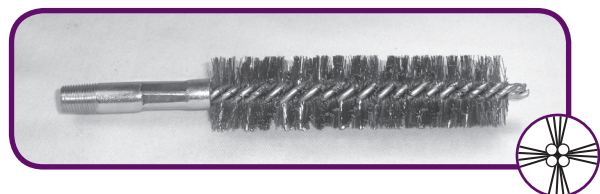
WHEN USING BRUSHES WEAR GOGGLES OR FACE SHIELDS!

Part #	Female Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight
43802	8-32	1/4"	3"	.005	1	.06
43803	8-32	5/16"	3"	.005	1	.06
43804	12-24	3/8"	4"	.005	1	.10
43807	12-24	7/16"	4"	.005	1	.10
43810	12-24	1/2"	4"	.006	1	.10
43813	12-24	9/16"	4"	.006	1	.10
43816	12-24	5/8"	4"	.005	1	.10
43819	12-24	11/16"	4"	.006	1	.14
43822	12-24	3/4"	4"	.006	1	.14
43825	12-24	13/16"	4"	.007	1	.16
43828	12-24	7/8"	4"	.007	1	.16
43831	12-24	15/16"	4"	.009	1	.16
43833	12-24	1"	4"	.009	1	.16

Stainless Steel Extra Stiff

Double Spiral/Double Stem

1/8" male pipe thread (use accessory 13005).



Part #	Male Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight
43404	1/8"	1/2"	4"	.007	1	.10
43405	1/8"	5/8"	4"	.009	1	.11
43406	1/8"	3/4"	4"	.009	1	.12
43407	1/8"	7/8"	4"	.009	1	.13
43408	1/8"	1"	4"	.009	1	.14
43411	1/8"	1-1/8"	4"	.009	1	.15

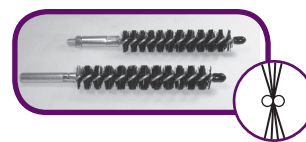
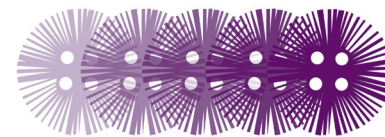
All condenser tube brushes are boxed individually!



Condenser Tube Brushes

Nylon - Single Spiral/Single Stem

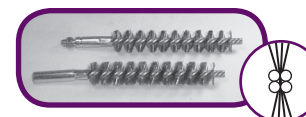
Recommended for cleaning all tubes where deposits are light. 1/4" and 5/16" dia. brushes with **female couplings have 8-32 threads** (use accessories 13042 or 13044), while 3/8" through 1" dia. have **12-24 female threads** (use accessories 13002 or 13003). 1/4", 5/16", and 3/8" dia. brushes with **male couplings have 8-32 threads** (use accessory 13042), while 7/16" through 1" dia. have **1/4"-28 male threads** (use accessory 13010).



Female Part #	Female Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight	Male Part #	Male Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight
43702	8-32	1/4"	3"	.014	1	.04	93702	8-32	1/4"	3"	.014	1	.04
43703	8-32	5/16"	3"	.014	1	.04	93703	8-32	5/16"	3"	.014	1	.04
43704	12-24	3/8"	4"	.016	1	.08	93704	8-32	3/8"	4"	.016	1	.08
43707	12-24	7/16"	4"	.016	1	.10	93707	1/4"-28	7/16"	4"	.016	1	.10
43710	12-24	1/2"	4"	.018	1	.10	93710	1/4"-28	1/2"	4"	.018	1	.10
43713	12-24	9/16"	4"	.018	1	.10	93713	1/4"-28	9/16"	4"	.018	1	.10
43716	12-24	5/8"	4"	.018	1	.10	93716	1/4"-28	5/8"	4"	.018	1	.10
43719	12-24	11/16"	4"	.020	1	.10	93719	1/4"-28	11/16"	4"	.020	1	.10
43722	12-24	3/4"	4"	.020	1	.10	93722	1/4"-28	3/4"	4"	.020	1	.10
43725	12-24	13/16"	4"	.020	1	.10	93725	1/4"-28	13/16"	4"	.020	1	.10
43728	12-24	7/8"	4"	.022	1	.10	93728	1/4"-28	7/8"	4"	.022	1	.10
43731	12-24	15/16"	4"	.022	1	.10	93731	1/4"-28	15/16"	4"	.022	1	.10
43733	12-24	1"	4"	.022	1	.10	93733	1/4"-28	1"	4"	.022	1	.10

Brass - Single Spiral/Double Stem

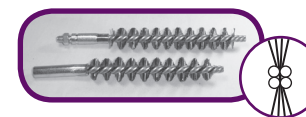
Recommended for brass or copper tubes. 1/4" and 5/16" dia. brushes with **female couplings have 8-32 threads** (use accessories 13042 or 13044), while 3/8" through 1" dia. have **12-24 female threads** (use accessories 13002 or 13003). 1/4", 5/16", and 3/8" dia. brushes with **male couplings have 8-32 threads** (use accessory 13042), while 7/16" through 1" dia. have **1/4"-28 threads** (use accessory 13010).



Female Part #	Female Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight	Male Part #	Male Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight
43602	8-32	1/4"	3"	.004	1	.06	93602	8-32	1/4"	3"	.004	1	.06
43603	8-32	5/16"	3"	.004	1	.06	93603	8-32	5/16"	3"	.004	1	.06
43604	12-24	3/8"	4"	.004	1	.10	93604	8-32	3/8"	4"	.004	1	.10
43607	12-24	7/16"	4"	.005	1	.10	93607	1/4"-28	7/16"	4"	.005	1	.10
43610	12-24	1/2"	4"	.006	1	.10	93610	1/4"-28	1/2"	4"	.006	1	.10
43613	12-24	9/16"	4"	.005	1	.14	93613	1/4"-28	9/16"	4"	.005	1	.14
43616	12-24	5/8"	4"	.005	1	.14	93616	1/4"-28	5/8"	4"	.005	1	.14
43619	12-24	11/16"	4"	.006	1	.14	93619	1/4"-28	11/16"	4"	.006	1	.14
43622	12-24	3/4"	4"	.006	1	.14	93622	1/4"-28	3/4"	4"	.006	1	.14
43625	12-24	13/16"	4"	.006	1	.16	93625	1/4"-28	13/16"	4"	.006	1	.16
43628	12-24	7/8"	4"	.008	1	.16	93628	1/4"-28	7/8"	4"	.008	1	.16
43631	12-24	15/16"	4"	.008	1	.16	93631	1/4"-28	15/16"	4"	.008	1	.16
43633	12-24	1"	4"	.008	1	.16	93633	1/4"-28	1"	4"	.008	1	.16

Stainless Steel - Single Spiral/Double Stem

Recommended for stainless steel tubes. 1/4" and 5/16" dia. brushes with **female couplings have 8-32 threads** (use accessories 13042 or 13044), while 3/8" through 1" dia. have **12-24 female threads** (use accessories 13002 or 13003). 1/4", 5/16", and 3/8" dia. brushes with **male couplings have 8-32 threads** (use accessory 13042), while 7/16" through 1" dia. have **1/4"-28 threads** (use accessory 13010).



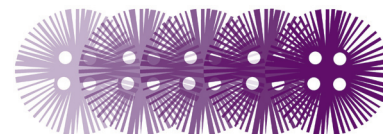
Female Part #	Female Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight	Male Part #	Male Thread	Brush Dia.	Brush Length	Fill Dia.	Pack	Pack Weight
43502	8-32	1/4"	3"	.005	1	.02	93502	8-32	1/4"	3"	.005	1	.02
43503	8-32	5/16"	3"	.005	1	.06	93503	8-32	5/16"	3"	.005	1	.06
43504	12-24	3/8"	4"	.005	1	.10	93504	8-32	3/8"	4"	.005	1	.10
43507	12-24	7/16"	4"	.005	1	.10	93507	1/4"-28	7/16"	4"	.005	1	.10
43510	12-24	1/2"	4"	.006	1	.10	93510	1/4"-28	1/2"	4"	.006	1	.10
43513	12-24	9/16"	4"	.006	1	.10	93513	1/4"-28	9/16"	4"	.006	1	.10
43516	12-24	5/8"	4"	.006	1	.14	93516	1/4"-28	5/8"	4"	.006	1	.14
43519	12-24	11/16"	4"	.006	1	.14	93519	1/4"-28	11/16"	4"	.006	1	.14
43522	12-24	3/4"	4"	.006	1	.14	93522	1/4"-28	3/4"	4"	.006	1	.14
43525	12-24	13/16"	4"	.007	1	.14	93525	1/4"-28	13/16"	4"	.007	1	.14
43528	12-24	7/8"	4"	.007	1	.14	93528	1/4"-28	7/8"	4"	.007	1	.14
43531	12-24	15/16"	4"	.009	1	.16	93531	1/4"-28	15/16"	4"	.009	1	.16
43533	12-24	1"	4"	.009	1	.16	93533	1/4"-28	1"	4"	.009	1	.16



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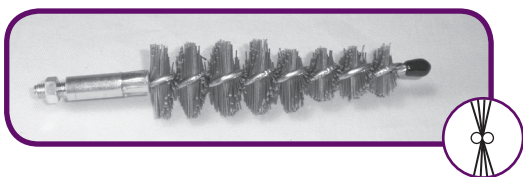
Spin - Clean Brushes



Single stem construction with silicon carbide impregnated nylon. Step trim brush allows better cleaning of enhanced condenser tubes. The long bristles are designed oversized with the intention of bending over, allowing the aggressive filament to come into maximum contact with the lands. The short bristles are able to get into the grooves. These brushes provide better cleaning and longer life than conventional brushes.

1/4"-28 thread (use accessory 13010).

Single Spiral/Single Stem

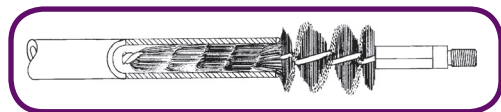
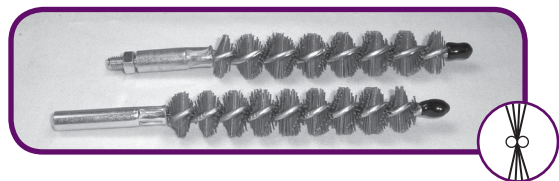


Part #	Tube Size	Small Dia. of Brush	Large Dia. of Brush	Pack	Pack Weight
93490	5/8"	5/8"	1"	1	.02
93491	1/2"	1/2"	3/4"	1	.06
93492	3/4"	3/4"	1-1/8"	1	.06

Spin - Grit Brushes

Single stem construction with silicon carbide impregnated nylon recommended for brass tubes. This brush is made oversized so the filament will lay over, resulting in increased contact with surface, providing better cleaning and longer life than conventional condenser cleaning brushes. Part #43482 use accessories 13042 or 13044. Part #43484-43488 use accessories 13002 or 13003. Part #93482 use accessory 13042. Part #93484-93488 use accessory 13010.

Single Spiral/Single Stem



Female Part #	Female Thread	Brush Dia.	Tube Size	Pack	Pack Weight
43482	8-32	1/2"	1/4"-5/16"	1	.02
43484	12-24	3/4"	3/8"-9/16"	1	.06
43486	12-24	1"	5/8"-11/16"	1	.06
43488	12-24	1-1/4"	3/4"-1"	1	.07
Male Part #	Male Thread	Brush Dia.	Tube Size	Pack	Pack Weight
93482	8-32	1/2"	1/4"-5/16"	1	.02
93484	1/4"-28	3/4"	3/8"-9/16"	1	.06
93486	1/4"-28	1"	5/8"-11/16"	1	.06
93488	1/4"-28	1-1/4"	3/4"-1"	1	.07

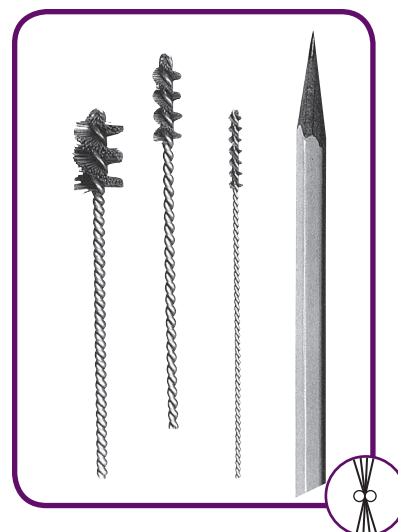
Miniature Brushes

Miniature and Micro-Miniature Brushes - Single Spiral/Single Stem

For ultra-fine cross hole deburring, cleaning, blending and polishing of small diameter holes. Made with stainless steel, brass, or nylon.

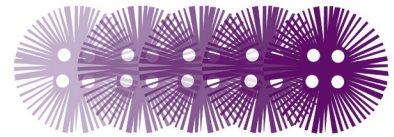
Single-Spiral Miniature Brushes with stainless steel stem and loop for hand use.

ST/ST Part #	Brass Part #	Nylon Part #	Brush Diameter	Brush Part	Overall Length	Fill Dia.	Pack
02102	02202	02302	1/32"	1/2"	4"	.003	1
02103	02203	02303	1/16"	1/2"	4"	.003	1
02104	02204	02304	3/32"	3/4"	4"	.003	1
02105	02205	02305	1/8"	3/4"	4"	.003	1
02106	02206	02306	5/32"	3/4"	4"	.003	1
02107	02207	02307	3/16"	3/4"	4"	.003	1
02108	02208	02308	7/32"	3/4"	4"	.003	1
02109	02209	02309	1/4"	3/4"	4"	.003	1





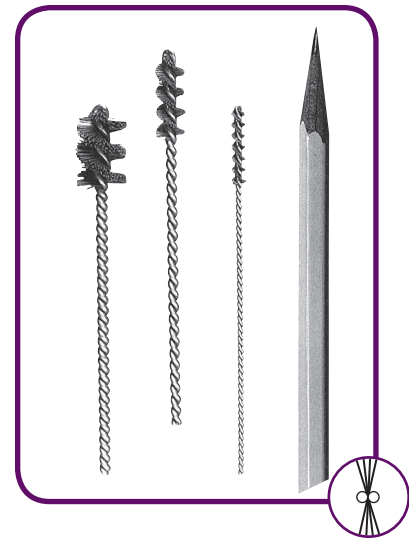
Miniature Brushes (Continued)



Miniature and Micro-Miniature Brushes (continued)

Single Spiral Miniature Brushes with a stainless steel stem and cut off ends for power or hand use.

ST/ST Part #	Brass Part #	Nylon Part #	Brush Diameter	Brush Part	Overall Length	Fill Dia.	Pack
02121	02221	02321	1/50"	1/4"	4"	.003	1
02122	02222	02322	1/32"	1/2"	4"	.003	1
02123	02223	02323	3/64"	1/2"	4"	.003	1
02124	02224	02324	1/16"	1/2"	4"	.003	1
02125	02225	02325	5/64"	3/4"	4"	.003	1
02126	02226	02326	3/32"	3/4"	4"	.003	1
02127	02227	02327	7/64"	3/4"	4"	.003	1
02128	02228	02328	1/8"	1"	4"	.003	1
02129	02229	02329	9/64"	1"	4"	.003	1
02130	02230	02330	5/32"	1"	4"	.003	1
02131	02231	02331	11/64"	1"	4"	.003	1
02132	02232	02332	3/16"	1"	4"	.003	1
02133	02233	02333	13/64"	1"	4"	.003	1
02134	02234	02334	7/32"	1"	4"	.003	1
02135	02235	02335	15/64"	1"	4"	.003	1
02136	02236	02336	1/4"	1"	4"	.003	1



Power Tube Brushes

Double Spiral/Double Stem

Used for polishing, blending, burr removal, and cleaning. For use in power tools where heavy duty cleaning is required. Double spiral/Double stem with twisted stem for power operation.

H/C Steel Part #	ST/ST Part #	Brass Part #	Nylon Part #	All ST/ST Part #	Brush Diameter	Brush Part	Overall Length	Fill Dia.	Pack
01142	01102	01702	01742	01062	1/4"	1-1/2"	4"	.003	1
01162	01122	01722	01762	01082	1/4"	1-1/2"	4"	.005	1
01143	01103	01703	01743	01063	5/16"	1-1/2"	4"	.003	1
01163	01123	01723	01763	01083	5/16"	1-1/2"	4"	.005	1
01144	01104	01704	01744	01064	3/8"	1-1/2"	4"	.003	1
01164	01124	01724	01764	01084	3/8"	1-1/2"	4"	.005	1
01145	01105	01705	01745	01065	7/16"	2"	5"	.004	1
01165	01125	01725	01765	01085	7/16"	2"	5"	.006	1
01146	01106	01706	01746	01066	1/2"	2"	5"	.004	1
01166	01126	01726	01766	01086	1/2"	2"	5"	.006	1
01155	01115	01715	01755	01075	9/16"	2"	5"	.005	1
01175	01135	01735	01775	01095	9/16"	2"	5"	.008	1
01147	01107	01707	01747	01067	5/8"	2"	5"	.005	1
01167	01127	01727	01767	01087	5/8"	2"	5"	.008	1
01156	01116	01716	01756	01076	11/16"	2"	5"	.005	1
01176	01136	01736	01776	01096	11/16"	2"	5"	.008	1
01148	01108	01708	01748	01068	3/4"	2-1/2"	5-1/2"	.006	1
01168	01128	01728	01768	01088	3/4"	2-1/2"	5-1/2"	.010	1
01157	01117	01717	01757	01077	3/16"	2-1/2"	5-1/2"	.006	1
01177	01137	01737	01777	01097	3/16"	2-1/2"	5-1/2"	.010	1
01149	01109	01709	01749	01069	7/8"	2-1/2"	5-1/2"	.006	1
01169	01129	01729	01769	01089	7/8"	2-1/2"	5-1/2"	.010	1
01158	01118	01718	01758	01078	15/16"	2-1/2"	5-1/2"	.006	1
01178	01138	01738	01778	01098	15/16"	2-1/2"	5-1/2"	.010	1
01150	01110	01710	01750	01070	1"	2-1/2"	5-1/2"	.006	1
01170	01130	01730	01770	01090	1"	2-1/2"	5-1/2"	.010	1



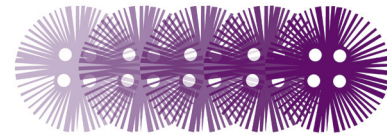
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Burr Brushes

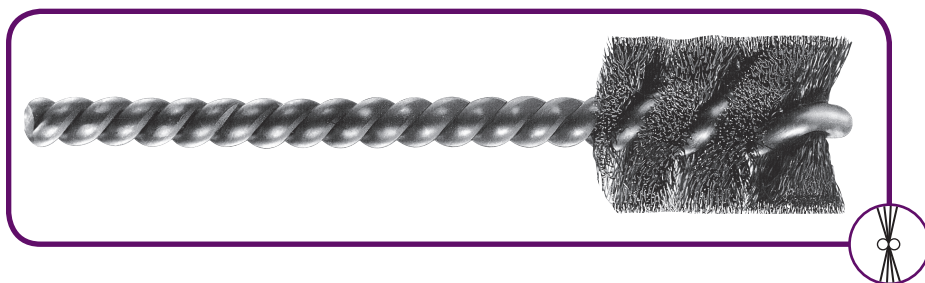
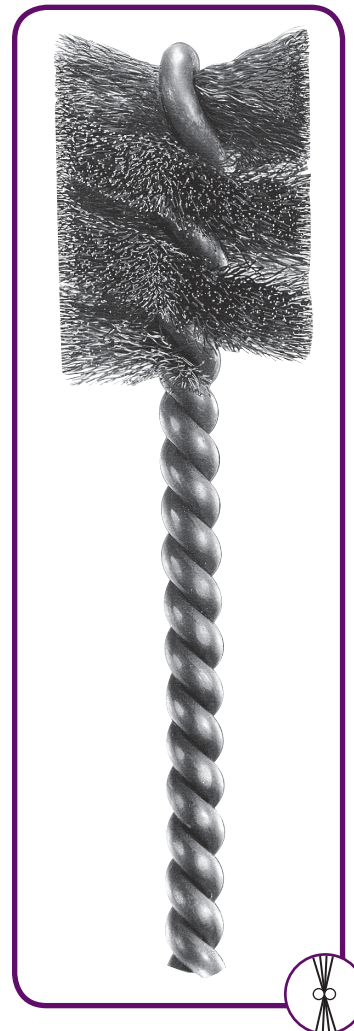


Heavy Duty Power Brushes - Single Spiral/Single Stem

Used in drill presses and hand power tools for deburring, polishing, and cleaning inner bores of tubing, machined cylinders, flat stock, and smooth or threaded blind holes.

Available in carbon steel, stainless steel, and brass.

H/C Steel Part #	ST/ST Part #	Brass Part #	Brush Diameter	Brush Part	Overall Length	Fill Dia.	Pack
01502	01402	01602	1/4"	1"	3-1/2"	.003	1
01504	01404	01604	1/4"	1"	3-1/2"	.005	1
01507	01407	01607	5/16"	1"	3-1/2"	.003	1
01509	01409	01609	5/16"	1"	3-1/2"	.005	1
01512	01412	01612	3/8"	1"	3-1/2"	.003	1
01514	01414	01614	3/8"	1"	3-1/2"	.005	1
01520	01420	01620	7/16"	1"	3-1/2"	.005	1
01522	01422	01622	7/16"	1"	3-1/2"	.008	1
01526	01426	01626	1/2"	1"	3-1/2"	.005	1
01528	01428	01628	1/2"	1"	3-1/2"	.008	1
01533	01433	01633	9/16"	1"	3-1/2"	.006	1
01534	01434	01634	9/16"	1"	3-1/2"	.008	1
01539	01439	01639	5/8"	1"	3-1/2"	.006	1
01540	01440	01640	5/8"	1"	3-1/2"	.008	1
01545	01445	01645	11/16"	1"	3-1/2"	.006	1
01546	01446	01646	11/16"	1"	3-1/2"	.008	1
01551	01451	01651	3/4"	1"	3-1/2"	.006	1
01552	01452	01652	3/4"	1"	3-1/2"	.008	1
01557	01457	01657	13/16"	1"	3-1/2"	.006	1
01558	01458	01658	13/16"	1"	3-1/2"	.008	1
01563	01463	01663	7/8"	1"	3-1/2"	.006	1
01564	01464	01664	7/8"	1"	3-1/2"	.008	1
01569	01469	01669	15/16"	1"	3-1/2"	.006	1
01570	01470	01670	15/16"	1"	3-1/2"	.008	1
01575	01475	01675	1"	1"	3-1/2"	.006	1
01576	01476	01676	1"	1"	3-1/2"	.008	1
01585	01485	01685	1-1/8"	1"	3-1/2"	.008	1
01586	01486	01686	1-1/8"	1"	3-1/2"	.010	1
01595	01495	01695	1-1/4"	1"	3-1/2"	.008	1
01596	01496	01696	1-1/4"	1"	3-1/2"	.010	1



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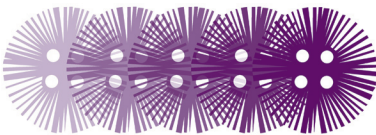
Side Tuft Cleaning Brushes

Single Spiral/Single Stem

Used for cleaning and polishing threads, inner walls of tubes and cylinders. Solid concentration of bristles provide a high degree of bristle stiffness with little flexing of bristles during operation. For use in power tools.

Available in high carbon steel, stainless steel and brass.

H/C Steel Part #	ST/ST Part #	Brass Part #	Brush Diameter	Brush Part	Overall Length	Fill Dia.	Pack
01234	01211	01267	1/4"	9/16"	2-1/8"	.003	1
01235	01202	01268	1/4"	9/16"	2-1/8"	.005	1
01236	01201	01269	9/32"	9/16"	2-1/8"	.003	1
01237	01203	01270	9/32"	9/16"	2-1/8"	.005	1
01238	01206	01271	5/16"	9/16"	2-1/8"	.003	1
01239	01207	01272	5/16"	9/16"	2-1/8"	.005	1
01240	01208	01273	11/32"	9/16"	2-1/8"	.003	1
01241	01213	01274	3/8"	9/16"	2-1/8"	.003	1
01242	01209	01275	3/8"	9/16"	2-1/8"	.005	1
01243	01210	01276	3/8"	9/16"	2-1/8"	.008	1
01244	01212	01277	13/32"	9/16"	2-1/8"	.005	1
01245	01214	01278	7/16"	9/16"	2-1/8"	.003	1
01246	01215	01279	7/16"	9/16"	2-1/8"	.005	1
01247	01219	01280	1/2"	9/16"	2-1/8"	.003	1
01248	01216	01281	1/2"	9/16"	2-1/8"	.005	1
01249	01204	01282	1/2"	9/16"	2-1/8"	.008	1
01250	01221	01283	9/16"	5/8"	2-1/4"	.003	1
01251	01217	01284	9/16"	5/8"	2-1/4"	.005	1
01252	01223	01285	5/8"	5/8"	2-1/4"	.003	1
01253	01218	01286	5/8"	5/8"	2-1/4"	.005	1
01254	01205	01287	5/8"	5/8"	2-1/4"	.008	1
01255	01225	01288	3/4"	5/8"	2-1/4"	.003	1
01256	01220	01289	3/4"	5/8"	2-1/4"	.005	1
01257	01227	01290	3/4"	5/8"	2-1/4"	.008	1
01258	01228	01291	7/8"	5/8"	2-1/4"	.003	1
01259	01229	01292	7/8"	5/8"	2-1/4"	.005	1
01260	01222	01293	7/8"	5/8"	2-1/4"	.008	1
01261	01230	01294	1"	5/8"	2-1/4"	.005	1
01262	01224	01295	1"	5/8"	2-1/4"	.008	1
01263	01231	01296	1-1/8"	5/8"	2-1/4"	.005	1
01264	01232	01297	1-1/8"	5/8"	2-1/4"	.008	1
01265	01233	01298	1-1/4"	5/8"	2-1/4"	.005	1
01266	01226	01200	1-1/4"	5/8"	2-1/4"	.008	1

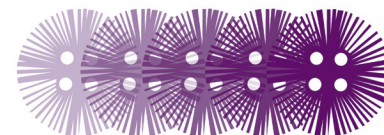


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Abrasive Nylon Brushes



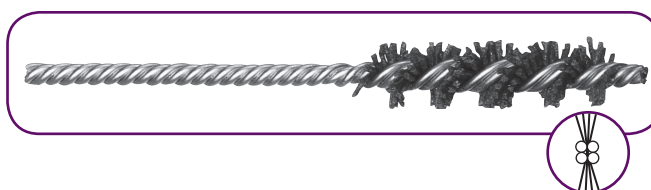
Silicon Carbide - Single Spiral/Double Stem

Used for wet or dry cleaning, polishing, blending, deburring inner walls of tubes, cross hole deburring and thread cleaning. Double stem construction used for added strength for power use or manual cleaning. Available in silicon carbide and aluminum oxide.

Part #	Brush Dia.	Brush Part	Overall Length	Nylon/ Grit	Pack
01850	1/4"	1"	4"	.022/320	1
01851	1/4"	1"	4"	.035/180	1
01852	5/16"	1"	4"	.022/320	1
01853	5/16"	1"	4"	.035/180	1
01854	3/8"	1-1/2"	4"	.022/320	1
01855	3/8"	1-1/2"	4"	.035/180	1
01856	3/8"	1-1/2"	4"	.040/120	1
01857	1/2"	2"	5"	.022/320	1
01858	1/2"	2"	5"	.035/180	1
01859	1/2"	2"	5"	.040/120	1
01860	5/8"	2"	5"	.022/320	1
01861	5/8"	2"	5"	.035/180	1
01862	5/8"	2"	5"	.040/120	1
01863	11/16"	2"	5"	.022/320	1
01864	11/16"	2"	5"	.035/180	1
01865	11/16"	2"	5"	.040/120	1
01866	3/4"	2-1/2"	5-1/2"	.022/320	1
01867	3/4"	2-1/2"	5-1/2"	.035/180	1
01868	3/4"	2-1/2"	5-1/2"	.040/120	1
01869	7/8"	2-1/2"	5-1/2"	.022/320	1
01870	7/8"	2-1/2"	5-1/2"	.035/180	1
01871	7/8"	2-1/2"	5-1/2"	.040/120	1
01872	1"	2-1/2"	5-1/2"	.022/320	1
01873	1"	2-1/2"	5-1/2"	.035/180	1
01874	1"	2-1/2"	5-1/2"	.040/120	1
01875	1-1/8"	2-1/2"	5-1/2"	.022/320	1
01876	1-1/8"	2-1/2"	5-1/2"	.035/180	1
01877	1-1/8"	2-1/2"	5-1/2"	.040/120	1
01878	1-1/4"	2-1/2"	5-1/2"	.022/320	1
01879	1-1/4"	2-1/2"	5-1/2"	.035/180	1
01880	1-1/4"	2-1/2"	5-1/2"	.040/120	1
01881	1-1/2"	2-1/2"	5-1/2"	.022/320	1
01882	1-1/2"	2-1/2"	5-1/2"	.035/180	1
01883	1-1/2"	2-1/2"	5-1/2"	.040/120	1
01884	1-3/4"	2-1/2"	5-1/2"	.022/320	1
01885	1-3/4"	2-1/2"	5-1/2"	.035/180	1
01886	1-3/4"	2-1/2"	5-1/2"	.040/120	1
01887	1-3/4"	2-1/2"	5-1/2"	.040/180	1
01888	2"	2-1/2"	5-1/2"	.022/320	1
01889	2"	2-1/2"	5-1/2"	.035/180	1
01890	2"	2-1/2"	5-1/2"	.040/120	1
01891	2"	2-1/2"	5-1/2"	.040/180	1

Aluminum Oxide - Single Spiral/Double Stem

Part #	Brush Dia.	Brush Part	Overall Length	Nylon/ Grit	Pack
01950	1/4"	1"	4"	.012/600	1
01954	3/8"	1"	4"	.012/600	1
01957	1/2"	2"	5"	.012/600	1
01960	5/8"	2"	5"	.012/600	1
01963	11/16"	2"	5"	.012/600	1
01966	3/4"	2-1/2"	5-1/2"	.012/600	1
01969	7/8"	2-1/2"	5-1/2"	.012/600	1
01972	1"	2-1/2"	5-1/2"	.012/600	1
01975	1-1/8"	2-1/2"	5-1/2"	.012/600	1
01978	1-1/4"	2-1/2"	5-1/2"	.012/600	1
01981	1-1/2"	2-1/2"	5-1/2"	.012/600	1
01984	1-3/4"	2-1/2"	5-1/2"	.012/600	1
01988	2"	2-1/2"	5-1/2"	.012/600	1



CAUTION
WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!



Abrasive Nylon Brushes

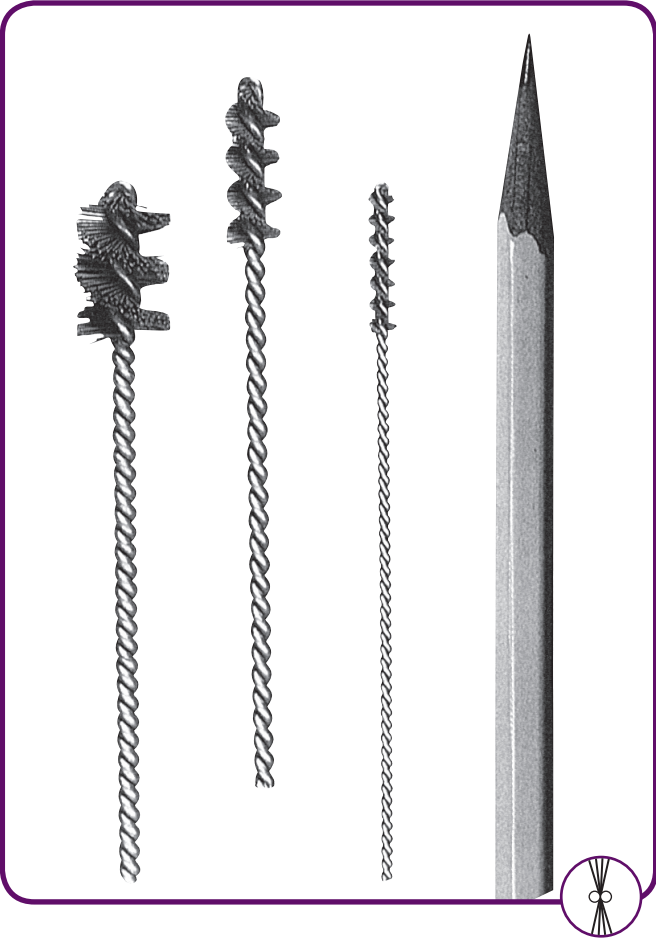
Silicon Carbide - Single Spiral/Single Stem

Used for wet or dry cleaning, polishing, blending, deburring inner walls of tubes, cross hole deburring and thread cleaning. Single-spiral construction made with a continuous end.
Available in silicon carbide and aluminum oxide.

Part #	Brush Dia.	Brush Part	Overall Length	Nylon/ Grit	Pack
01802	5/32"	1"	4"	.018/500	1
01803	5/32"	1"	4"	.022/320	1
01805	3/16"	1"	5"	.018/500	1
01806	3/16"	1"	5"	.022/320	1
01808	7/32"	1"	5"	.018/500	1
01809	7/32"	1"	5"	.022/320	1
01811	1/4"	1"	5"	.018/500	1
01812	1/4"	1"	5"	.022/320	1
01814	5/16"	1"	5"	.018/500	1
01815	5/16"	1"	5"	.022/320	1
01817	3/8"	1"	5"	.022/320	1
01818	3/8"	1"	5"	.040/120	1
01819	3/8"	1"	5"	.040/180	1
01821	7/16"	1"	5"	.022/320	1
01822	7/16"	1"	5"	.040/120	1
01823	7/16"	1"	5"	.040/180	1
01825	1/2"	1"	5"	.022/320	1
01826	1/2"	1"	5"	.040/120	1
01827	1/2"	1"	5"	.040/180	1
01830	5/8"	1"	5"	.022/320	1
01831	5/8"	1"	5"	.040/120	1
01832	5/8"	1"	5"	.040/180	1
01834	3/4"	1"	5"	.022/320	1
01835	3/4"	1"	5"	.040/120	1
01836	3/4"	1"	5"	.040/180	1
01838	7/8"	1"	5"	.022/320	1
01839	7/8"	1"	5"	.040/120	1
01840	7/8"	1"	5"	.040/180	1
01842	1"	1"	5"	.022/320	1
01843	1"	1"	5"	.040/120	1
01844	1"	1"	5"	.040/180	1
01846	1-1/4"	1"	5"	.022/320	1
01847	1-1/4"	1"	5"	.040/120	1
01848	1-1/4"	1"	5"	.040/180	1

Aluminum Oxide - Single Spiral/Single Stem

Part #	Brush Dia.	Brush Part	Overall Length	Nylon/ Grit	Pack
01902	5/32"	1"	4"	.012/600	1
01905	3/16"	1"	5"	.012/600	1
01908	7/32"	1"	5"	.012/600	1
01911	1/4"	1"	5"	.012/600	1
01914	5/16"	1"	5"	.012/600	1
01917	3/8"	1"	5"	.012/600	1
01921	7/16"	1"	5"	.012/600	1
01925	1/2"	1"	5"	.012/600	1
01930	5/8"	1"	5"	.012/600	1
01934	3/4"	1"	5"	.012/600	1
01938	7/8"	1"	5"	.012/600	1
01942	1"	1"	5"	.012/600	1
01946	1-1/4"	1"	5"	.012/600	1



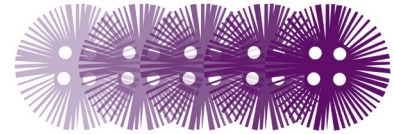
WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!



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Schaefer Brush



Twisted In Wire Brush Design Form

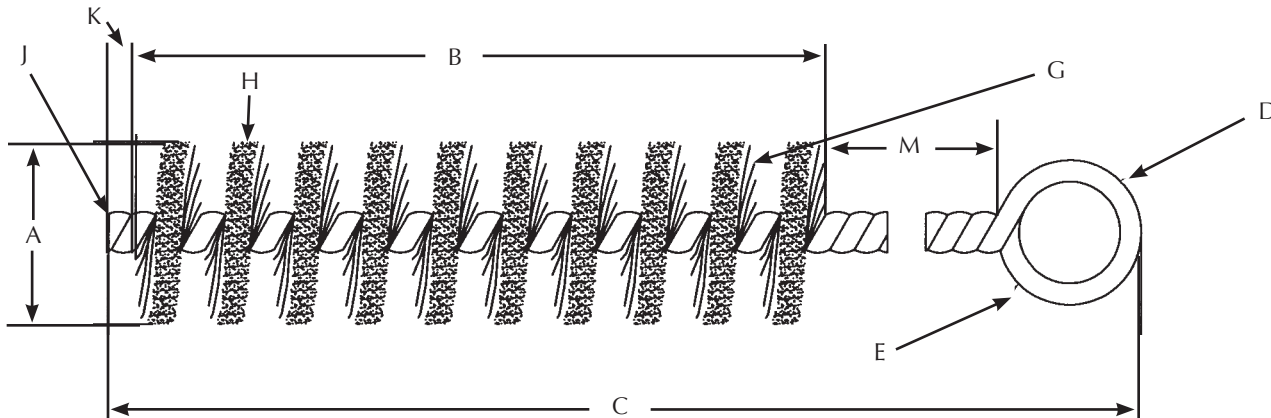
Section 10-1

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



Brush Application: _____

A. Brush Dia.: _____

B. Length of Brush Part: _____

C. Overall Length: _____

D. End Type: _____

- ☐ Pipe Nipple ☐ Plastic Handle
☐ Wood Handle ☐ Straight Stem
☐ Loop End: _____

E. Stem Dia.: _____

F. Stem Material: _____

G. Brush Filament Dia.: _____

H. Brush Filament Type:

- ☐ Nylon ☐ Brass
☐ Polypropylene ☐ Phosphorous Bronze
☐ Polyester ☐ Stainless Steel
☐ Tampico ☐ Carbon Steel
☐ Horse Hair ☐ Other: _____

I. Fill Amount:

- ☐ Light
☐ Medium
☐ Heavy

J. Tip Style:

- ☐ Twisted End ☐ Vinyl Tip
☐ Blunt End ☐ Turned Tuft
☐ Tied Tuft ☐ Other: _____

K. Tip Length: _____

L. Twisted Wire:

- ☐ Single Spiral Single Stem ☐ Single Spiral Double Stem ☐ Double Spiral Double Stem

M. Stem Length: _____

Fill out and Fax to Schaefer Brush
262-547-3927



Schaefer Brush

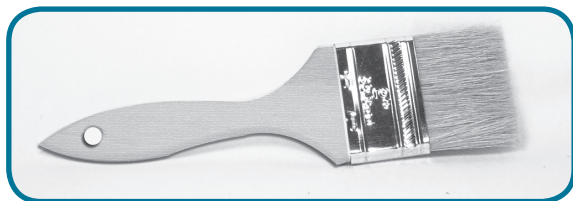
Paint, Chip & Parts Cleaning Brushes

For applying solvents, glue, paint and lubricants. Removes machine chips and cleans parts.

Section 11

White Bristle Chip

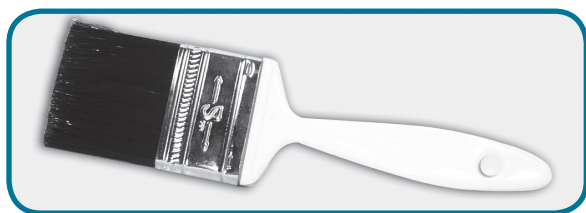
White Chinese bristle, metal ferrule. Plain sanded wood handle. Low priced economy import.



Part #	Brush Width	Thickness	Trim	Pack	Pack Weight
67191	1/2"	1/4"	1-3/8"	36	.72
67192	1"	5/16"	1-5/8"	36	1.44
67193	1-1/2"	5/16"	1-5/8"	36	1.44
67194	2"	5/16"	1-5/8"	24	1.44
67195	2-1/2"	3/8"	1-5/8"	24	2.40
67196	3"	3/8"	1-5/8"	24	2.40
67197	4"	11/16"	1-5/8"	12	3.84

Polyester Varnish Brush

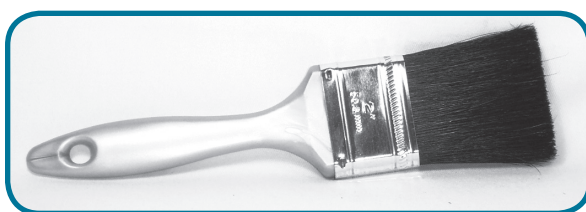
Durable black polyester filament with a solvent resistant plastic handle.



Part #	Brush Width	Thickness	Trim	Pack	Pack Weight
67240	1/2"	1/4"	1-5/8"	36	.90
67241	1"	5/16"	1-3/4"	36	1.52
67242	1-1/2"	5/16"	1-3/4"	36	2.00
67243	2"	5/16"	1-3/4"	24	1.70
67244	2-1/2"	3/8"	2"	12	1.25
67245	3"	3/8"	2"	12	1.50

Black Bristle Varnish Brush

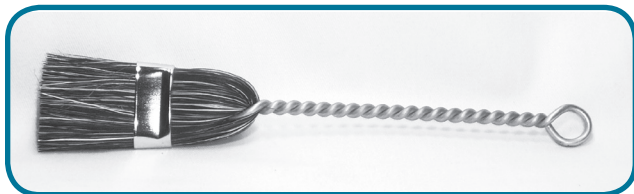
Quality chiseled trim, nickel plated ferrule, plastic handle.



Part #	Brush Width	Thickness	Trim	Pack	Pack Weight
67261	1"	7/16"	2-1/4"	12	.75
67262	1-1/2"	1/2"	2-1/4"	12	1.00
67263	2"	9/16"	2-1/2"	12	2.00
67264	2-1/2"	5/8"	2-1/2"	12	2.50
67265	3"	11/16"	2-3/4"	12	3.50
67266	4"	11/16"	2-1/2"	12	4.00

Flat Oil/Chip Brush

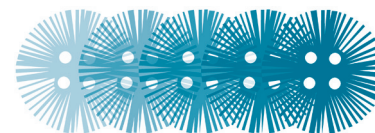
Absorbent natural tampico or poly in a twisted wire handle with ring end. Overall length 8-1/4".



Part #	Brush Material	Brush Width	Thickness	Brush Length	Pack	Pack Weight
24800	Tampico	1-3/4"	1-1/2"	3"	36	3.25
67118	Poly	1-3/4"	1-1/2"	3"	36	3.25

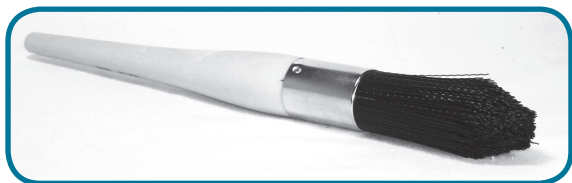


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Parts Cleaning Brush

Tampico or poly fill in strong plastic or wood handle, comes in standard or flow thru style, tapered trim.



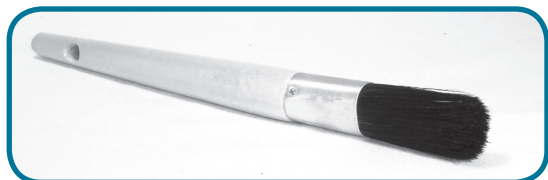
Part #	Brush Material	Overall Length	Pack	Pack Weight
25010	Poly	11-5/8"	12	2.50
25095*	Poly	9"	12	2.00
25013	Tampico	11-5/8"	12	2.50
25015**	All Poly	10-3/4"	12	2.00

* 25095 is a flow-thru model with plastic/poly ferrule

** 25015 Poly brush material, poly handle and poly ferrule.

Oval Sash Brush

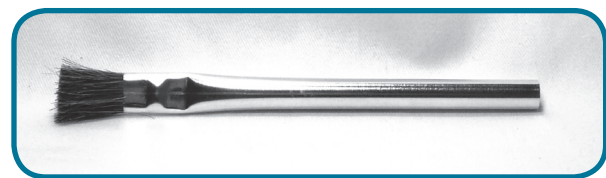
Black Chinese bristle, round plastic tapered handle, seamless ferrule, chiseled trim.



Part #	Brush Width	Trim	Pack	Pack Weight
67302	1/2"	1-3/4"	12	.50
67304	3/4"	2"	12	1.00
67306	7/8"	2-1/4"	12	1.50
67308	1"	2-1/4"	12	2.00
67310	1-1/8"	2-1/2"	12	2.50

Tin Handle Acid Brush

Select horsehair bristles are pressed securely in tin handles. Sold in gross packs only.



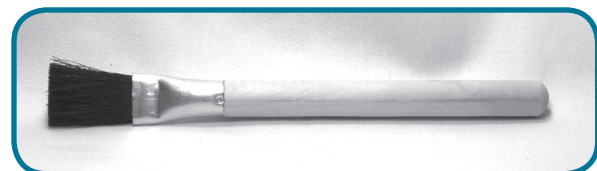
Part #	Brush Width	Length	Pack	Pack Weight
10000	1/4"	6"	144	2.10
10004	3/8"	4"	144	2.10
10001	3/8"	6"	144	2.14
10002	1/2"	6"	144	2.64
10003	5/8"	6"	144	3.30

Fiberglass Bristle

10033	5/8"	6"	144	3.30
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Wood Handle Dope Brush

Select horsehair bristles secured tightly in metal ferrule.



Part #	Brush Width	Length	Pack	Pack Weight
10007	3/4"	7"	36	1.34

Metal Handle Wire Brush

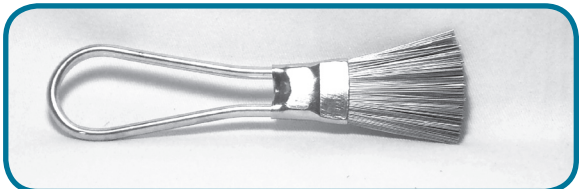
Stiff tempered wire bristles, withstands high heat.



Part #	OAL	Brush Part	Trim	Pack	Pack Weight
68300	8-1/2"	1"	1-5/8"	12	2.00

Wire Handle Chip

Ideal for cleaning rust, corrosion, and any other materials/ applications in high heat situations.



Part #	Fill	Trim	OAL	Pack	Pack Weight
81616	C. Steel	1-1/2"	5-1/2"	12	1.20
81617	St. Steel	1-1/2"	5-1/2"	12	1.20

Schaefer Brush

Wire End Brushes

For deburring, polishing, finishing and cleaning

Section 12

Custom brushes can be made to your specifications. Call for details!

Safety Equipment & Requirements

Safety goggles or face shields must be worn by operators and/or personnel in the working area of power brushes. Appropriate protective clothing and equipment must be used where a possibility of injury exists which could be prevented by using such clothing or equipment.

Speeds

Observe all speed restrictions indicated on brushes, containers, labels, or printed literature. "MSFS" means "Maximum Safe Free Speed" (R.P.M.); that is, spinning free with no work applied. For safety, never exceed "MSFS". Consult our office or representative for maximum safe speeds pertaining to your application, if not predetermined.

Guards

Keep all machine guards in place.

Circular Flared End Brushes

Effective brush for cleaning inside corners, sides and bottoms in one operation. 1-1/2" dia. & 3" dia. MSFS 14,000 R.P.M.



Crimped Carbon Steel Wire



Crimped Stainless Steel Wire

Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
06562	1-1/2"	.008	1	.12
06566	1-1/2"	.014	1	.12
06568	1-1/2"	.020	1	.12
06576	3"	.014	1	.24
06580	3"	.020	1	.24

Crimped Stainless Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
06662	1-1/2"	.006	1	.14
06670	1-1/2"	.020	1	.14

Crimped Wire Solid End Brushes

1/4" dia. shafts for all power tool operations. Uniform, highly concentrated wire fill. MSFS 20,000 R.P.M.



Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
06512	1/2"	.006	1	.06
06514	1/2"	.010	1	.06
06518	1/2"	.014	1	.08
06520	1/2"	.020	1	.08
06522	3/4"	.006	1	.12
06524	3/4"	.010	1	.12
06528	3/4"	.014	1	.12
06530	3/4"	.020	1	.12
06532	1"	.006	1	.14
06534	1"	.010	1	.14
06536	1"	.014	1	.14
06540	1"	.020	1	.14

Crimped Stainless Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
06612	1/2"	.006	1	.06
06614	1/2"	.010	1	.06
06618	1/2"	.014	1	.08
06624	3/4"	.010	1	.10
06628	3/4"	.014	1	.12
06630	3/4"	.020	1	.12
06634	1"	.010	1	.14
06636	1"	.014	1	.14
06640	1"	.020	1	.14

Flared Cup End



Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
00221	1-1/2"	.008	1	.10
00223	1-1/2"	.012	1	.10
00226	2"	.014	1	.20
00228	2-1/2"	.014	1	.25



**WHEN USING
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Circular Wire Brush With Spindle

Light duty brush with crimped high carbon steel wire. Recommended for use with electric power tools, 1/4" dia. spindle. MSFS 5,000 R.P.M.



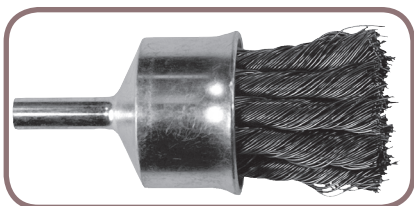
Wire Cup Brush With Spindle

Light duty brush with crimped high carbon steel wire. Recommended for use with electric power tools, 1/4" dia. spindle. MSFS 5,000 R.P.M.



Knot Type End Brushes

The Knot style assures maximum stiffness for extra tough jobs. All spindle are 1/4" dia. for power tool use. MSFS 20,000 R.P.M.



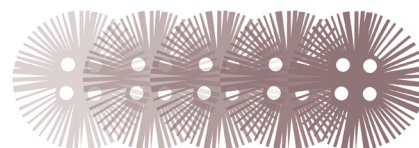
Knot Type Wire Cup Brushes

Standard twist cups are made with tufts twisted over part of their length, for medium stiffness and flexibility. MSFS 12,000 R.P.M for 2-3/4" dia. brushes; MSFS 6,000 R.P.M for 4" and 6" dia. brushes.



Crimped Wire Cups

Carbon steel wire construction without twists or knots provides maximum flexibility for light and medium brush applications. MSFS 6,000, R.P.M. for 4" dia. brushes; MSFS 12,000 R.P.M for 3" dia. brushes



Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
02020	2"	.012	1	.10
02025	2-1/2"	.0118	1	.12
02030	3"	.0118	1	.14
02023	2-1/2"	.014	1	.12
02031	3"	.008	1	.14
02038	3"	.006	1	.14
02040	4"	.0118	1	.28
02041	4"	.008	1	.28

Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
00202	1-3/4"	.0118	1	.14
00203	1-3/4"	.006	1	.14
00208	2-1/2"	.008	1	.20
00209	2-1/2"	.012	1	.20
00204	2-3/4"	.0118	1	.26
00205	2-3/4"	.008	1	.28



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Pack	Pack Weight
06546	3/4"	.014	1	.14
06550	3/4"	.020	1	.14
06556	1"	.014	1	.22
06560	1"	.020	1	.22

Single Row Carbon Steel Cable Twist

Part #	Brush Dia.	Fill Dia.	Thread Size	Trim	Pack	Pack Weight
03004	4"	.020	5/8" - 11	1-1/4"	1	1.42
03007	6"	.023	5/8" - 11	1-1/2"	1	2.40

Single Row Standard Twist

Part #	Brush Dia.	Fill Dia.	Thread Size	Trim	Pack	Pack Weight
03008	4"	.014	5/8" - 11	1-1/4"	1	1.36
03009	6"	.023	5/8" - 11	1-1/2"	1	2.24
24331	2-3/4"	.020	5/8" - 11	7/8"	1	.52
24332*	2-3/4"	.020	5/8" - 11	7/8"	1	.48
24335	2-3/4"	.020	M14 x 2.0	7/8"	1	.50

*Part # 24332 Stainless Steel material

Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Thread Size	Trim	Pack	Pack Weight
24311	2-3/4"	.014	5/8" - 11	1-1/4"	1	.46
24315	3"	.014	M14 x 2.0	1-1/4"	1	.58
03040	4"	.012	5/8" - 11	1-1/8"	1	1.24
03050	4"	.014	5/8" - 11	1-1/8"	1	1.24
03052	4"	.020	5/8" - 11	1-1/4"	1	1.24
03060	5"	.014	5/8" - 11	1-1/4"	1	N/A
03080	6"	.014	5/8" - 11	1-3/8"	1	N/A
24309*	2-3/4"	.014	5/8" - 11	7/8"	1	.46

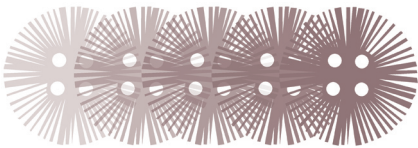
*Part # 24309 Stainless Steel material

Combitwist Cup Brush (NEW!)



Pencil End Brushes

Effective brush for tight spaces. Steel holders are 3" long. MSFS 8,000 R.P.M.



Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Thread Size	Trim Length	Pack	Pack Weight
03529	2-3/4"	.014	5/8"-11	7/8"	1	.50
03531	2-3/4"	.020	5/8"-11	7/8"	1	.55

Stainless Steel Wire

03629	2-3/4"	.014	5/8"-11	7/8"	1	.50
03631	2-3/4"	.020	5/8"-11	7/8"	1	.55

Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Trim	Pack	Pack Weight
06594	1/4"	.010	3/4"	1	.04
06595	1/4"	.012	3/4"	1	.04
06597	5/16"	.010	3/8"	1	.05
06598	5/16"	.012	3/8"	1	.05
06599	3/8"	.012	3/8"	1	.06
06596	3/8"	.014	3/8"	1	.06

Stainless Steel Wire

06694	1/4"	.010	3/4"	1	.04
06695	1/4"	.012	3/4"	1	.04
06697	5/16"	.010	3/8"	1	.05
06698	5/16"	.012	3/8"	1	.05
06699	3/8"	.012	3/8"	1	.06
06696	3/8"	.014	3/8"	1	.06

Wire Wheel Brushes

Knot Type Wire Wheels

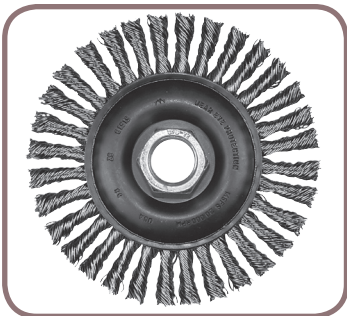


Knots twisted over part of their length provide medium flexibility, highly suited for surface preparation prior to welding and for general clean up. Brushes with a diameter of 4" or less have MSFS of 20,000 R.P.M.; 6" dia. have MSFS of 9,000 R.P.M.; and 8" dia. have MSFS of 6,000 R.P.M.

Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Face Width	Arbor Hole	Trim Length	Pack	Pack Weight
24101	3"	.012	7/16"	1/2"-3/8"	3/4"	1	.22
24102	3"	.014	7/16"	1/2"-3/8"	3/4"	1	.24
24111	4"	.012	5/8"	1/2"-3/8"	3/4"	1	.40
24112	4"	.014	5/8"	1/2"-3/8"	3/4"	1	.40
24121	6"	.012	5/8"	5/8"-1/2"	1-1/8"	1	1.22
24122	6"	.014	5/8"	5/8"-1/2"	1-1/8"	1	1.00
24123	6"	.016	5/8"	5/8"-1/2"	1-1/8"	1	1.16
24132	8"	.014	5/8"	5/8"	1-5/8"	1	2.14
24134	8"	.020	5/8"	5/8"	1-5/8"	1	2.14

Stringer Bead



Carbon Steel Wire

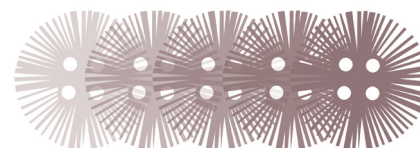
Part #	Brush Dia.	Fill Dia.	Face Width	Thread Size	Trim Length	Pack	Pack Weight
24271	4"	.020	3/16"	5/8"-11	3/4"	1	0.5
24278	6"	.020	3/16"	5/8"-11	3/4"	1	1.2

Stainless Steel Wire

24281	4"	.020	3/16"	5/8"-11	3/4"	1	0.5
24288	6"	.020	3/16"	5/8"-11	3/4"	1	1.2



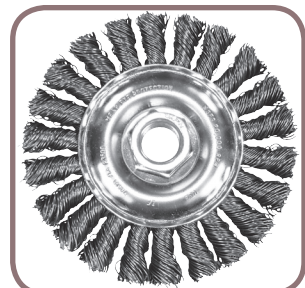
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Full Cable Twist



Combitwist Stringer Bead



Combitwist Full Cable



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Medium Face Wheel



Narrow Face Wheel



Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Face Width	Thread Size	Trim Length	Pack	Pack Weight
24221	4"	.020	3/8"	5/8"-11	3/4"	1	.55
24222	4"	.020	3/8"	1/2"-13	3/4"	1	.55
24228	6"	.023	3/8"	5/8"-11	1-1/4"	1	1.50

Stainless Steel Wire

24232	4"	.020	3/8"	5/8"-11	3/4"	1	.60
24238	6"	.023	3/8"	5/8"-11	1-1/4"	1	1.55

Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Face Width	Thread Size	Trim Length	Pack	Pack Weight
03121	4"	.020	3/16"	5/8"-11	3/4"	1	.50
03131	6"	.020	3/16"	5/8"-11	1-1/4"	1	1.20

Stainless Steel Wire

03221	4"	.020	3/16"	5/8"-11	3/4"	1	.50
03231	6"	.020	3/16"	5/8"-11	1-1/4"	1	1.20

Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Face Width	Thread Size	Trim Length	Pack	Pack Weight
03318	4"	.014	3/8"	5/8"-11	3/4"	1	.50
03321	4"	.020	3/8"	5/8"-11	3/4"	1	.55
03331	6"	.023	3/8"	5/8"-11	1-1/4"	1	1.50

Stainless Steel Wire

03418	4"	.014	3/8"	5/8"-11	3/4"	1	.55
03421	4"	.020	3/8"	5/8"-11	3/4"	1	.60
03431	6"	.023	3/8"	5/8"-11	1-1/4"	1	1.60

The 2300 series wire wheels have a 2" (A.H.) opening into which adapters are inserted to fit the following shaft sizes: 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", and 1-1/2". One set of adapters furnished with each brush. Arbor hole size must be specified when ordering. MSFS for brushes with 6" dia. or less is 6,000 R.P.M; brushes with greater than 6" dia. is 4,500 R.P.M.

Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Face Width	Arbor Hole	Trim Length	Pack	Pack Weight
23006	4-1/4"	.012	7/8"	2"	7/8"	1	1.00
23014	4-1/4"	.008	7/8"	2"	7/8"	1	1.24
23017	6"	.014	1-1/16"	2"	1-1/8"	1	1.10
23025	8"	.010	1-1/16"	2"	1-1/2"	1	2.22
23027	8"	.014	1-1/16"	2"	1-1/2"	1	2.22

Sections may be stacked to provide wider brush faces. Specify arbor size when ordering. Available with 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", and 1-1/2" arbor. MSFS for brushes with 6" dia. or less is 6,000 R.P.M. brushes with greater than 6" dia. is 4,500 R.P.M.

Crimped Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Face Width	Arbor Hole	Trim Length	Pack	Pack Weight
24005	4"	.010	9/16"	1/2"-3/8"	3/4"	1	.30
24007	4"	.014	9/16"	1/2"-3/8"	3/4"	1	.30
24013	6"	.006	5/8"	5/8"-1/2"	1-1/8"	1	.70
24015	6"	.010	5/8"	5/8"-1/2"	1-1/8"	1	.64
24017	6"	.014	5/8"	5/8"-1/2"	1-1/8"	1	.70
24025	8"	.010	5/8"	5/8"	1-1/2"	1	1.08
24027	8"	.014	5/8"	5/8"	1-1/2"	1	1.16

Wheel Brushes

Grommet Center Wheels

Small diameter wheels with 1/4" face widths are ideal for cleaning, deburring, or finishing in hard to reach spots. Wheels may be stacked to attain wider face widths. Maximum Safe Free Speed 20,000 R.P.M.



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Arbor Hole	Trim Length	Pack	Pack Weight
32045	2"	.010	1/2"	1/2"	1	.06
32047	2"	.014	1/2"-3/8"	1/2"	1	.08
32065	3"	.010	1/2"	1"	1	.08
32066	3"	.012	1/2"-3/8"	1"	1	.10
32067	3"	.014	1/2"-3/8"	1"	1	.10

Silicone Carbide

Part #	Brush Dia.	Fill Dia.	Arbor Hole	Trim Length	Pack	Pack Weight
32402	2"	.022/320	1/2"	1"	1	.03
32406	2"	.040/120	1/2"	1"	1	.03
32412	3"	.022/320	1/2"	15/16"	1	.04
32416	3"	.040/120	1/2"	15/16"	1	.04

Tampico

Part #	Brush Dia.	Fill Dia.	Arbor Hole	Trim Length	Pack	Pack Weight
32292	2"	N/A	1/4"	11/16"	1	.03
32296	3"	N/A	1/2"	1"	1	.04

Crimped Wire Wheel (High Speed)



**WHEN USING
BRUSHES WEAR
GOGGLES OR
FACE SHIELDS!**

Maximum Speed 3,000 RPM

Carbon Steel Wire

Part #	Brush Dia.	Fill Dia.	Face Width	Thread Size	Trim Length	Pack	Pack Weight
22021	4"	.014	1/2"	5/8"-11	11/16"	1	.50

Stainless Steel Wire

22034	4"	.014	1/2"	5/8"-11	11/16"	1	.50
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Stainless Steel Wire

Part #	Brush Dia.	Fill Dia.	Arbor Hole	Trim Length	Pack	Pack Weight
32146	2"	.012	1/2"-3/8"	1/2"	1	.06
32155	3"	.010	1/2"	1"	1	.10
32157	3"	.014	1/2"-3/8"	1"	1	.12

Brass Wire

Part #	Brush Dia.	Fill Dia.	Arbor Hole	Trim Length	Pack	Pack Weight
32342	2"	.005	1/2"	1/2"	1	.06
32352	3"	.005	5/8"	15/16"	1	.08
32355	3"	.010	1/2"	3/4"	1	.08
32357	3"	.014	5/8"	15/16"	1	.08
32250	4"	.005	5/8"	3/4"	1	.12

Nylon

Part #	Brush Dia.	Fill Dia.	Arbor Hole	Trim Length	Pack	Pack Weight
32209	1-3/8"	.010	1/4"	3/8"	1	.02
32213	1-1/2"	.010	3/8"	7/16"	1	.02
32221	2"	.008	1/2"	1/2"	1	.03
32223	2"	.010	1/2"	1/2"	1	.03
32226	2"	.014	1/2"	1/2"	1	.03
32243	3"	.010	1/2"	1"	1	.04
32244	3"	.016	1/2"	1"	1	.04
32245	3"	.010	5/8"	3/4"	1	.04
32246	3"	.016	5/8"	3/4"	1	.05
32258	4"	.020	5/8"	3/4"	1	.06

Drive Shaft Arbors

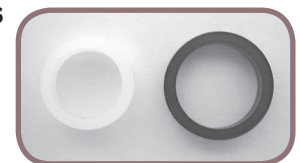
Reusable shafts designed for electric and air tool use with grommet center wheels.



Part #	Drive Dia.	Arbor Dia.	Pack	Pack Weight
00007	1/4"	1/4"	1	.01
00008	1/4"	3/8"	1	.03
00009	1/4"	1/2"	1	.03

Plastic Arbor Reducers

Bushing used to adapt oversized brush arbors to your shaft sizes.



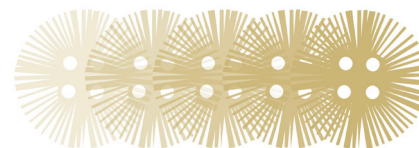
Part #	O.D.	I.D.	Pack	Pack Weight
00002	3/8"	1/4"	1	.01
00003	1/2"	1/4"	1	.01
00004	1/2"	3/8"	1	.01
00005	5/8"	1/2"	1	.01



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Schaefer Brush



Wire Scratch Brushes

For general cleaning and surface preparation

Section 13

Custom brushes can be made to your specifications. Call for details!

Stove & Appliance Brushes

2 x 9 row, 5/8" trim. 8-5/8" long hardwood block with 2-7/8" long brush part.



Part #	Fill Material	Row	Trim	Overall Length	Pack	Pack Weight
25301	St. Steel	2 x 9	5/8"	8-5/8"	36	1.5
25302	Brass	2 x 9	5/8"	8-5/8"	36	1.5

Die Cast Brushes

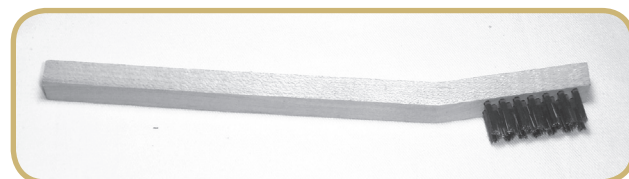
3 x 7 rows, 1/2" trim. 7" long plastic block with 1-1/2" long brush part.



Part #	Fill Material	Row	Trim	Overall Length	Pack	Pack Weight
25404	St. Steel	3 x 7	1/2"	7"	36	1.5
25405	Brass	3 x 7	1/2"	7"	36	1.5
25406	Bronze	3 x 7	1/2"	7"	36	1.5
25407	Nylon	3 x 7	1/2"	7"	36	1.5

Welder's Brushes

3 x 7 rows, 1/2" trim. 8" long hardwood block with 1-1/2" long brush part.



Part #	Fill Material	Row	Trim	Overall Length	Pack	Pack Weight
81002	St. Steel	3 x 7	1/2"	8"	36	1.7
81003	Brass	3 x 7	1/2"	8"	36	1.7
81005	Nylon	3 x 7	1/2"	8"	36	1.7

Brass Wire Utility Brushes

Curved hardwood block with crimped brass wire.



Part #	Fill Material	Row	Trim	Brush Part	Pack	Pack Weight
27698	Brass	6 x 9	5/8"	1-1/4" x 2-1/4"	12	2.25
27668	Brass	9 x 10	5/8"	2-1/4" x 3"	12	4.75

Curved Handle Brushes

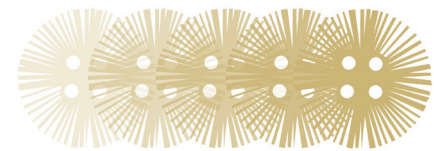
14" hardwood block filled with a variety of fill materials.



Part #	Fill Material	Row	Fill Size	Brush Part	Pack	Pack Weight
*65341	Brass	4 x 17	.003	3-1/4"	12	5.00
55104	Tampico	4 x 19	N/A	6-1/2"	12	3.00
55105	Polypropylene	4 x 19	.014	6-1/2"	12	3.72
81009	T. Steel	3 x 19	.012	6-1/4"	12	5.50
81010	T. Steel	4 x 19	.012	6-1/4"	12	6.50
81018	St. Steel	3 x 19	.012	6-1/4"	12	5.50
81020	St. Steel	4 x 18	.012	6-1/4"	12	6.50
81025	Bronze	4 x 18	.014	6-1/4"	12	6.50
81045	Fine Brass	4 x 19	.006	5-1/2"	12	6.50

*65341 has a straight, 8-3/4" long handle with a 3-1/4" brush part.





Shoe Handle Brushes

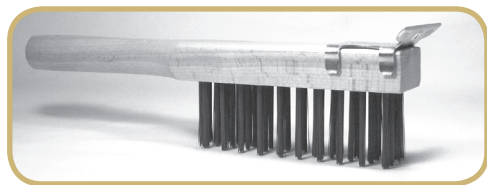
10" hardwood block available in a variety of filaments.



Part #	Fill Material	Row	Fill Dia.	Brush Part	Pack	Pack Weight
81233	T. Steel	3 x 17	.012	5"	12	4.00
81234	T. Steel	4 x 17	.012	5"	12	5.00
81246	St. Steel	4 x 17	.012	5"	12	5.00
81248	St. Steel	4 x 18	.006	5"	12	5.00
55400	Tampico	4 x 16	N/A	5"	12	4.00
81227	Bronze	4 x 17	.014	5"	12	5.00
81228	Brass	4 x 18	.008	5"	12	5.00

Heavy Duty Brush & Scraper

Thick hardwood block with heavily filled, tempered steel wire and 2-5/8" wide steel scraper.



Part #	Fill Material	Row	Fill Size	Brush Part	Pack	Pack Weight
80265	T. Steel	4 x 11	1-5/8"	6-1/4"	12	9.00

Regular Brush & Scraper

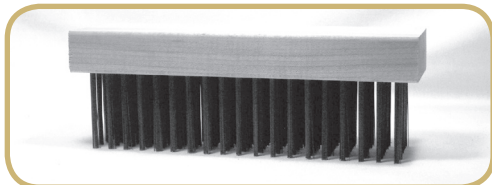
14" hardwood block and steel scraper.



Part #	Fill Material	Row	Trim	Brush Part	Pack	Pack Weight
81065	T. Steel	4 x 18	1-3/16"	5-3/4"	12	7.00

Straight Back Wire Brushes

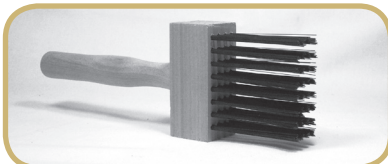
Rectangular hardwood block 7-1/4" x 2-1/4".



Part #	Fill Material	Row	Trim	Brush Part	Pack	Pack Weight
80011	T. Steel	6 x 19	1-5/8"	6-3/4"	12	9.00
80012	St. Steel	6 x 19	1-5/8"	6-3/4"	12	9.00

Stiff Wire Duster

Tempered wire bristles in wooden block, short round wooden handle.



Part #	Fill Material	Row	Trim	Brush Part	Pack	Pack Weight
81461	T. Steel	4 x 8	2-3/8"	1" x 2-1/4"	12	3.75

Metal Handle Wire Brush

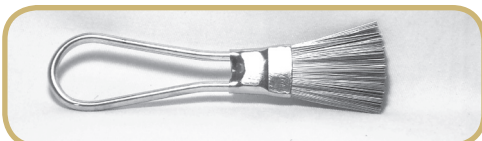
Stiff tempered wire bristles, withstands high heat.



Part #	Trim	Brush Part	Overall Length	Pack	Pack Weight
68300	1-5/8"	1"	8-1/2"	12	2.00

Wire Handle Chip

Ideal for cleaning rust, corrosion, etc. in high heat applications.



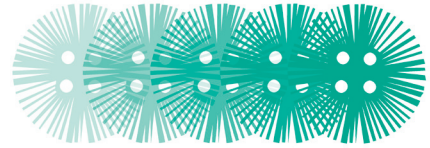
Part #	Fill Material	Trim	Overall Length	Pack	Pack Weight
81616	C. Steel	1-1/2"	5-1/2"	12	1.20
81617	St. Steel	1-1/2"	5-1/2"	12	1.20



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Schaefer Brush



Metal Back Strip Brushes

Section 14

Custom brushes can be made to your specifications. Call for details!

Metal back strip brush products can be found in industries performing tasks both simple and complex. The brushes can be simple in form such as straight strip or formed. All metal back strip brushes will have the following common attributes:

1. Metallic strip/backing

(Sizes ranging from #3 to #10 backing) See page 66. The metal strip is available in galvanized or stainless steel. The size backing typically works in harmony with the desired bristle diameter and density.

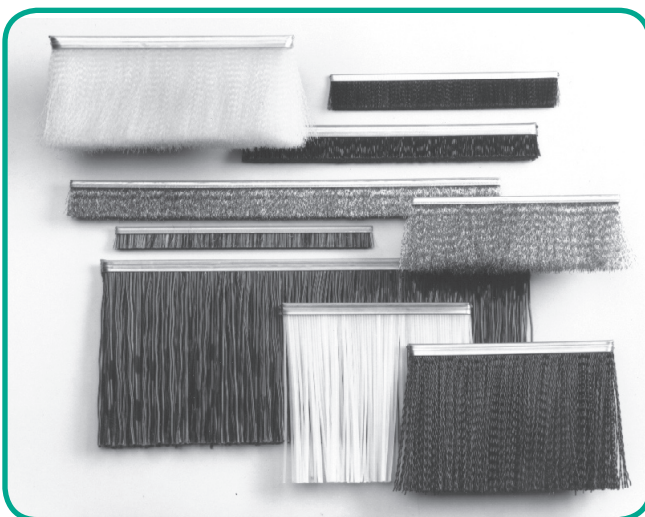
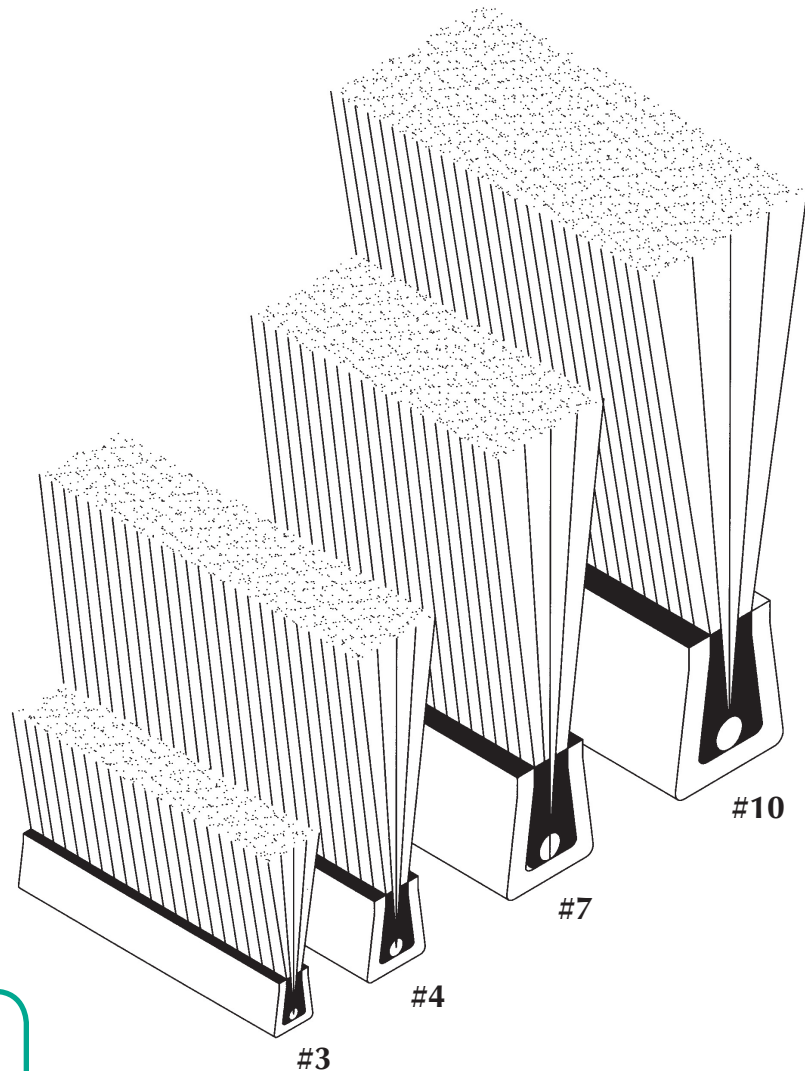
2. Core wire

Retaining wire within the formed metal strip is available in both galvanized or stainless steel.

3. Bristle styles

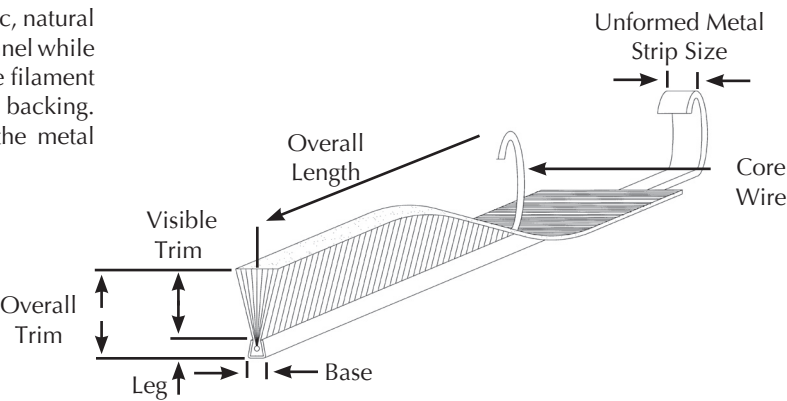
Some are more common than others but bristle choice can be tailored to your specific needs to assure the desired results.

4. **Specialized geometries** (The shape shifter of the brush world) All metal back strip brushes start from straight strip. Due to the malleable nature of strip a variety of shapes can be formed.



Metal Back Strip Brushes

Metal Back Strip Brushes consist of densely compressed synthetic, natural bristles or wire filaments laid down over a continuous metal channel while being formed into a "U" shape. A core wire is inserted over the filament materials and forced down into the partially formed metal backing. The core wire causes the fill material to form vertically as the metal backing forms and closes over the core wire and filament.



Most Common Brush Seal Applications Include:

Shields - Used effectively as a barrier, to contain flying debris such as wood chips on a router. Prevent liquids and mist sprays from escaping in a parts cleaning room or painting booth. Prevent penetration of smoke and fumes in small concentrated areas. Keep out insects and rodents. Control excess media from exiting areas that cannot be enclosed other than by brush seal.

Light Exposure - Reduce or eliminate the infiltration of light exposure in sensitive areas such as medical x-ray equipment, photographic darkrooms and film processing.

Air Flow - Highly effective in reducing air penetration and maintaining temperature control for both heating and cooling on all styles of commercial windows, doors and dock levelers.

Dirt/Dust - Prevent dirt and dust particle build up in machinery, buildings, clean rooms and filtration systems.

Cleaning - Used effectively to clean debris off conveyors, vegetables, machined parts, glass, circuit boards, paper products and film. The brush can be mounted stationary for continuous cleaning.

Sound/Noise - Seals gaps to reduce and dampen noise and sound transfer.

Containment - Used to position and contain parts on conveyor and transport systems to prevent parts from shifting or falling off conveyor.

Metal Back Strip Brush Shapes

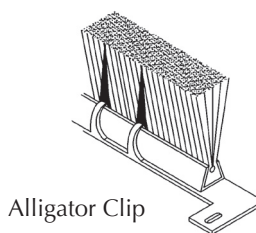
Helical 	Internal Ring 	External Ring 	Formed Cup Brush
Formed Strip Brush 	Straight See page 69	Coiled Tight Open Lead → ← See page 77	Cylinders See page 72



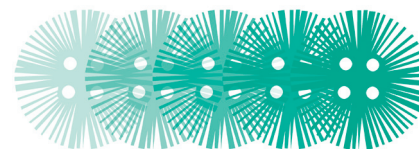
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Mounting Methods

Metal back strip brushes can be mounted either by an alligator clip or an extruded aluminum holder. The prongs on the alligator clip wrap around the brush to allow a tight hold on a section of the strip brush. Metal back strip brushes slide into an extruded aluminum holder for mounting purposes. Aluminum holders are extruded in various end view shapes to match a specific application. See page 67 & 68.



Alligator Clip



Extruded Aluminum Holder

Trim Profile

Custom Trims Available!



Flat

Standard and most common trim shape.



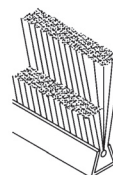
Bevel

Reduces brush resistance and conforms to surface being brushed.



Shaved End

Made to utilize ends of strip as a mounting surface.



Offset

Less density at surface with back-up support.

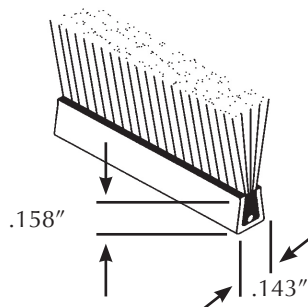


Stepped

Uniform brush contact for irregular or uneven surfaces.

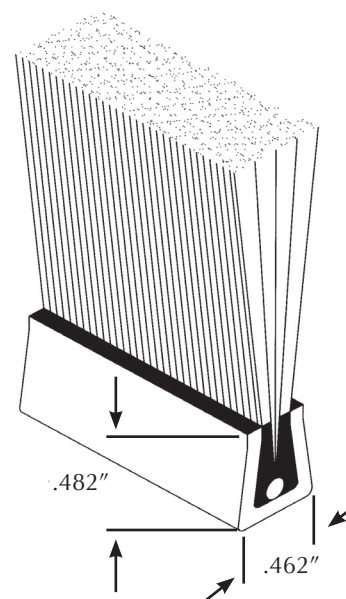
Metal Back Strips

#3

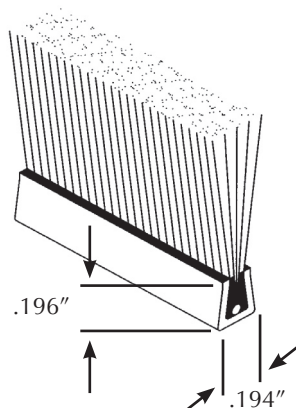


Channel backing width and height may vary depending on fill amount!

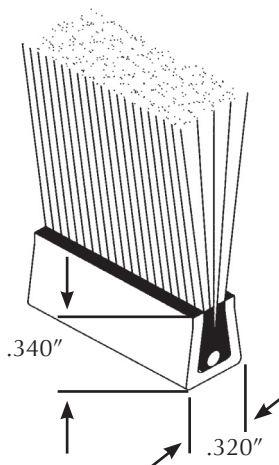
#10



#4

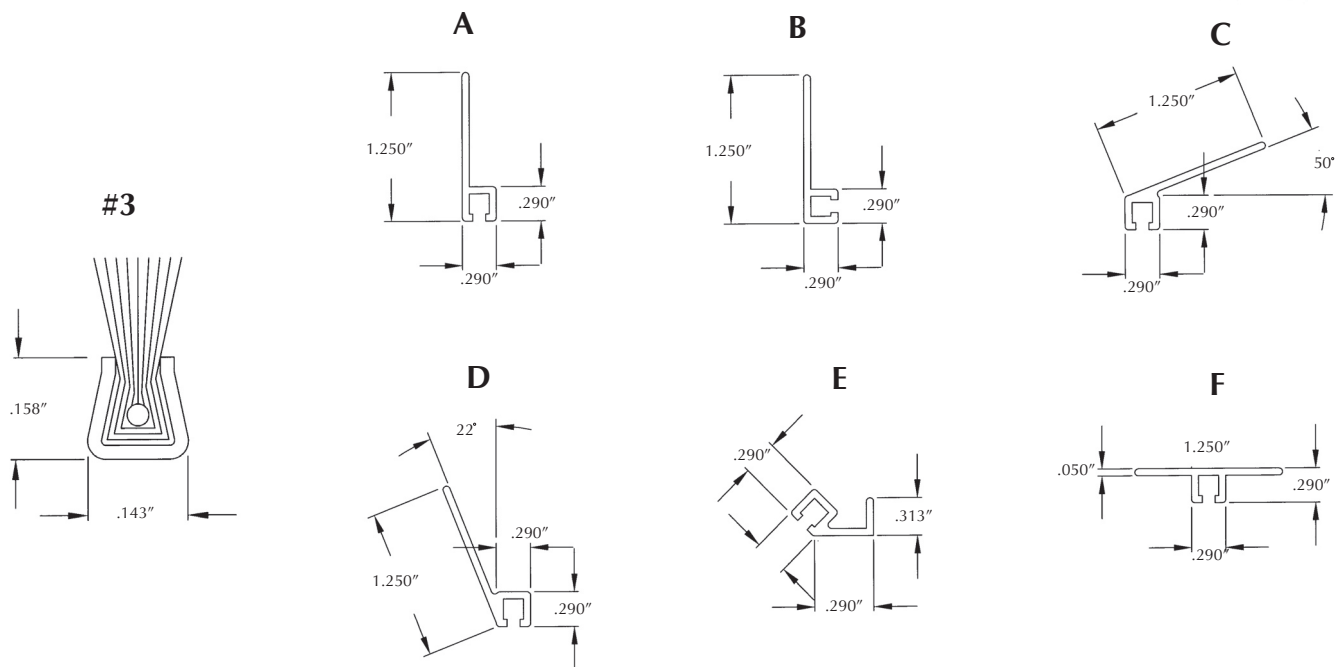
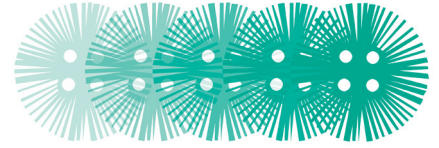


#7

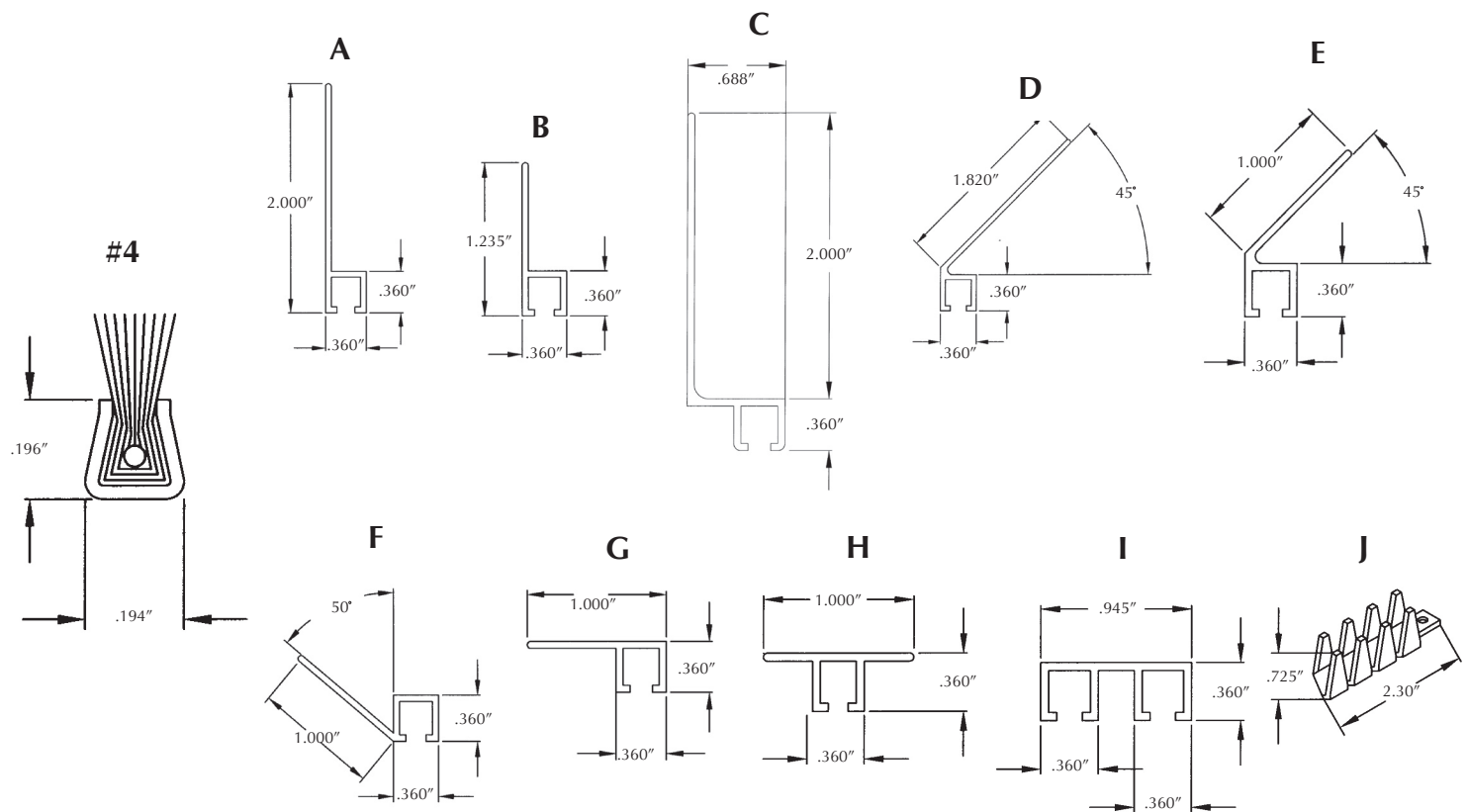




Extruded Aluminum Holder #3



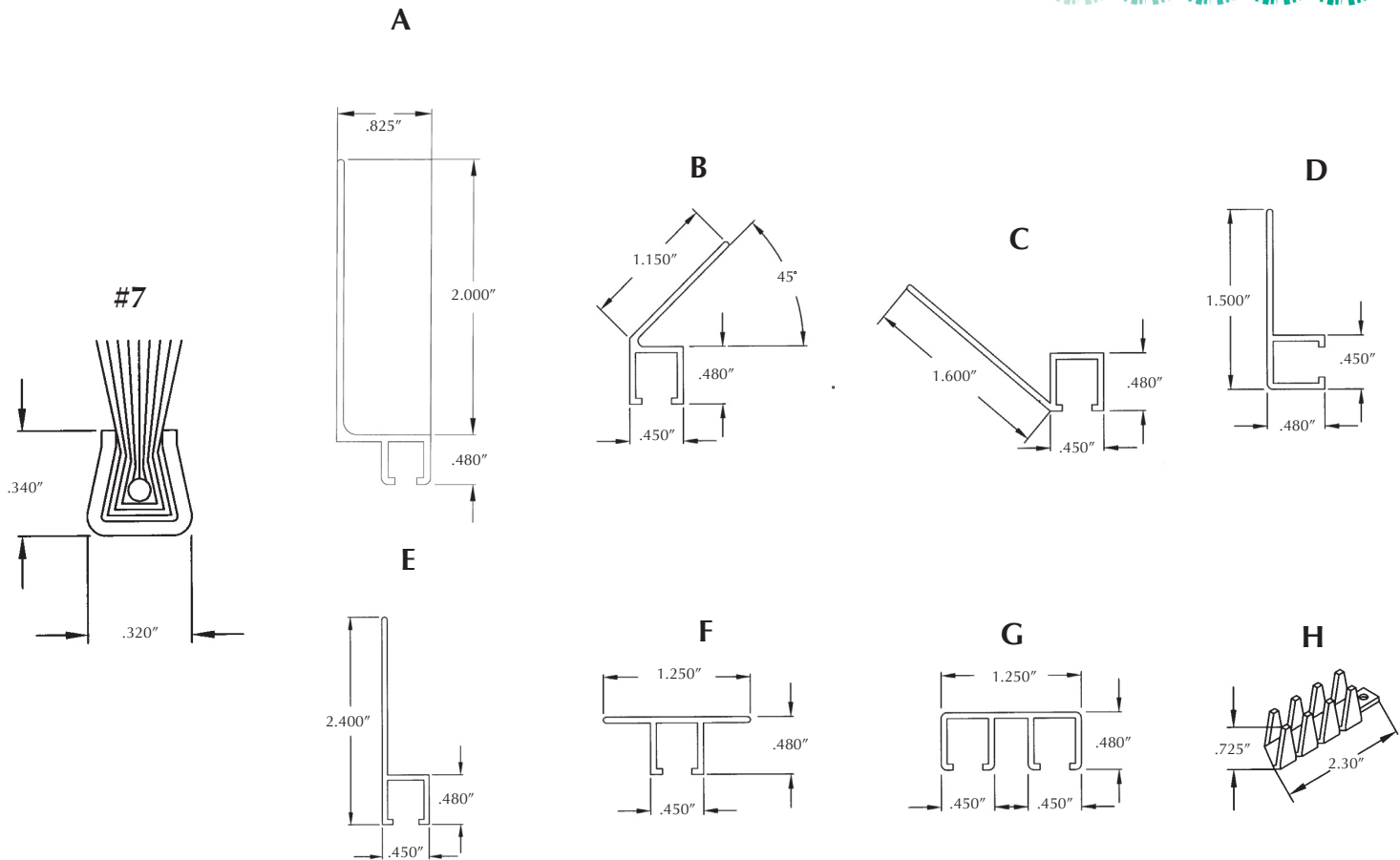
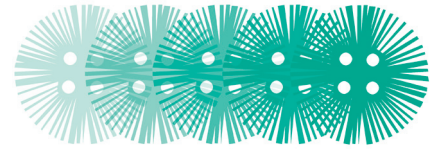
Extruded Aluminum Holder #4



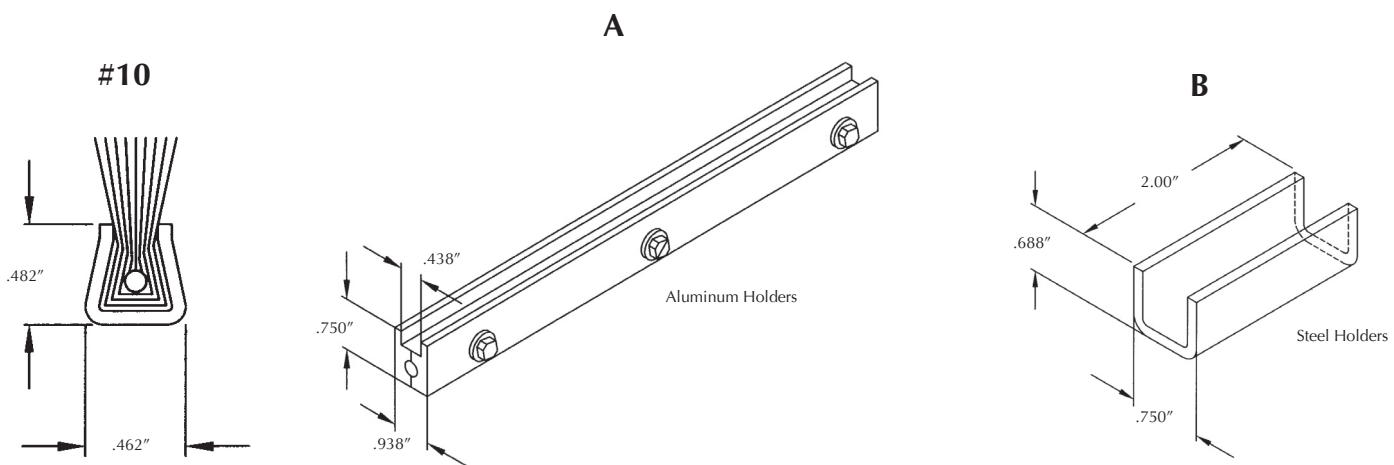
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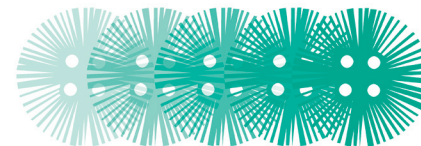
Extruded Aluminum Holder #7



Extruded Aluminum/Steel Holder #10



Schaefer Brush



Custom Metal Back Strip Brush Form

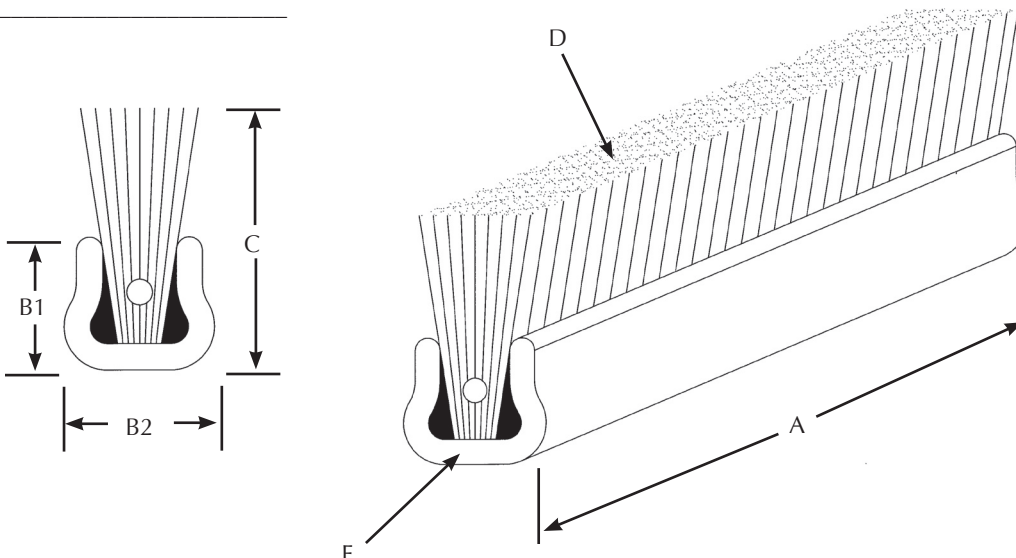
Section 14-1

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



Brush Application: _____

A. Overall Length: _____

B. Size of Channel:

B1. Height of Channel: _____

B2. Width of Channel: _____

See Page 66-68 for Channel Size.

C. Overall Trim: _____

D. Trim Profile:

- ☐ Flat ☐ Shaved End ☐ Stepped
☐ Bevel ☐ Offset

See Page 66 for Pictures of Trim

E. Brush Shape:

- ☐ Helical ☐ Formed Cup Brush ☐ Coiled
☐ Internal Ring ☐ Formed Strip Brush ☐ Cylinders
☐ External Ring ☐ Straight

See Page 65 for Pictures of Shapes.

F. Brush Fill:

- ☐ Heavy ☐ Medium ☐ Light

1. Type:

- ☐ Nylon ☐ Stainless Steel
☐ Polypropylene ☐ Carbon Steel
☐ Polyester ☐ Silicon Carbide
☐ Tampico Grit Size: _____
☐ Horse Hair ☐ Aluminum Oxide
☐ Brass Grit Size: _____
☐ Phosphorus ☐ Other _____
☐ Bronze

2. Fill Diameter: _____

3. Crimped Level: _____

4. Color Preference: _____

G. Channel Material:

- ☐ Aluminum ☐ Steel
☐ Stainless Steel ☐ Other: _____
☐ Galvanized

H. I'm not sure what I want, have someone contact me!

- ☐ Contact Me!

See Pages 67-68 for Extruded Holders.

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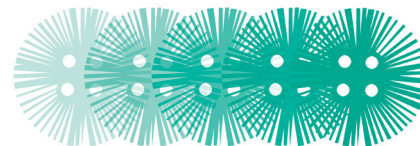
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Page 69



Schaefer Brush



Staple Set & Hand Drawn Brushes

Section 14-2

Staple Set

Staple set brushes are very common in both industrial and consumer settings. With their wide range of uses and shapes, they fulfill a vast array of tasks. Some traits of this brush type are as follows;

1. Brush Core

Core materials cannot be too hard or too soft. Typically thicker for staple penetration.

2. Bristle Styles

Both man-made and natural materials may be used in staple set brushes. They are available in a wide range of textures, styles, colors and diameters.

3. Staples

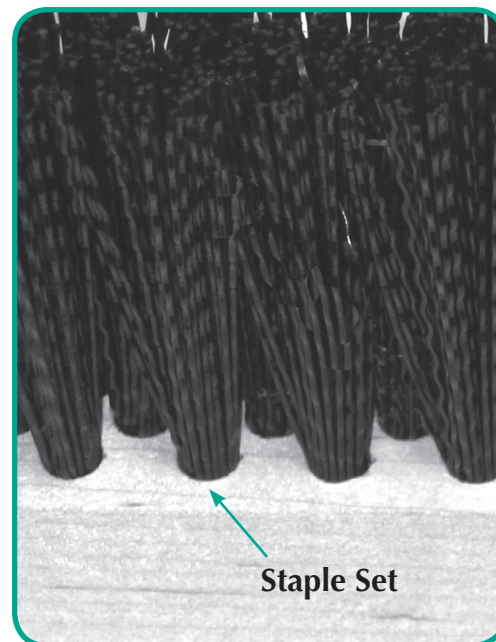
Staple materials are tailored to meet your specific application needs.

4. Replace or Refill

Staple set brushes can be refilled a limited number of times at a reduced cost.

5. Prototypes or Production Runs

Automated equipment produce a variety of staple set brushes in high volume. Specialized, one of a kind, items are also available.



Hand Drawn

Hand drawn brushes are typically used in more aggressive applications where a very secure mounting of the bristle is essential.

Reasons for Hand Drawing Brushes:

1. Brush Core

Core material is metallic or a very brittle substrate for staple set construction.

Core material is flexible or too soft for staple set construction.

Core material is incompatible with bristle for fused construction.

Core cross-section is too thin for staple set.

2. Specialized Geometries

Bristles may be applied in geometric profiles not available in other construction types. Examples: Straight, Staggered or Chevron.

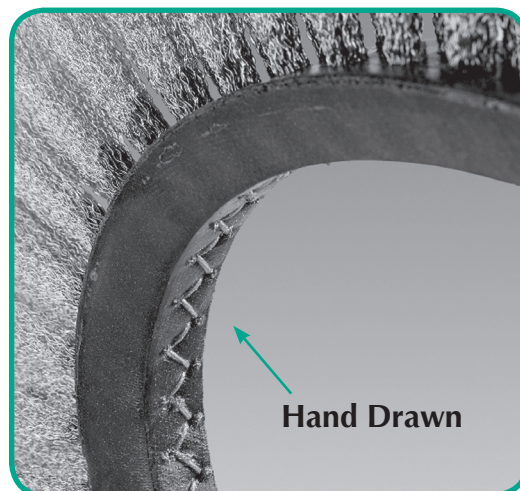
3. Harsh Environments

Heat, caustics, and other environmental issues often require hand drawn construction.

4. Wear Life

Hand drawing is always the best choice when high wear issues are a factor. With hand drawn products you only purchase the brush core once, then return the core and we will refill your brush with new bristle at a fraction of the new cost.

Compared to staple set brushes hand drawn brushes can be refilled many times.



Custom Brushes can be made to your specifications. Call for Details!



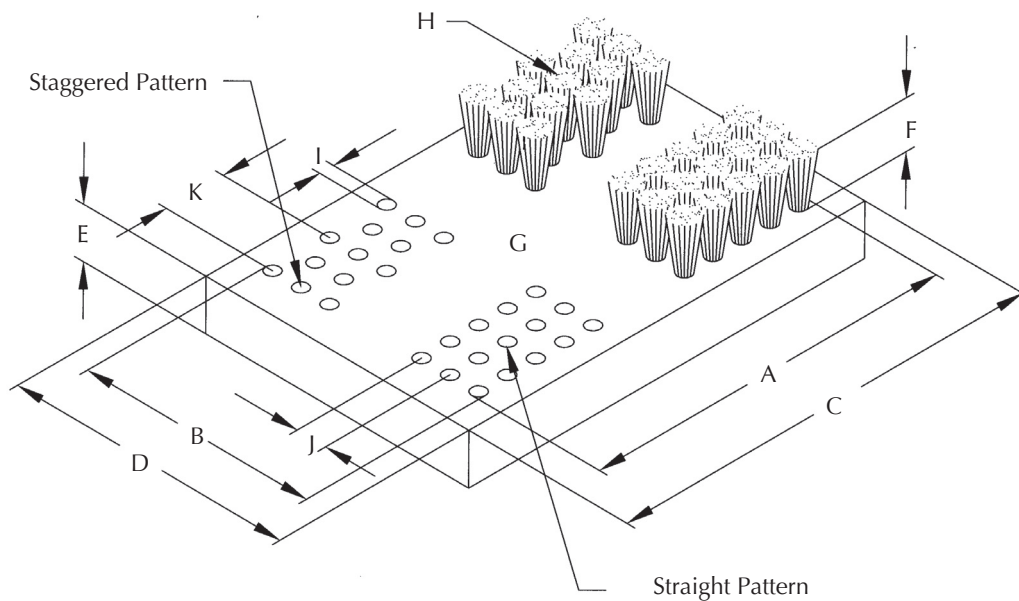
Schaefer Brush



Custom Staple Set & Hand Drawn Form

Section 14-2

Name: _____ Company: _____
Address: _____ City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____ Email: _____
Date: _____



Brush Application: _____

A. Brush Face Length: _____

B. Brush Face Width: _____

C. Block Length: _____

D. Block Width: _____

E. Block Height: _____

F. Trim Length: _____

G. Brush Block: _____

- | | |
|-----------------------------------|---------------------------------------|
| ☐ Wood | ☐ HDPE |
| ☐ Plastic | ☐ Delrin |
| ☐ Aluminum | ☐ Other: _____ |

H. Fill Material: _____

- | | |
|---|--|
| 1. Type: | |
| ☐ Nylon | ☐ Stainless Steel |
| ☐ Polypropylene | ☐ Carbon Steel |
| ☐ Polyester | ☐ Silicon Carbide |
| ☐ Tampico | Grit Size: _____ |
| ☐ Horse Hair | ☐ Aluminum Oxide |
| ☐ Brass | Grit Size: _____ |
| ☐ Phosphorous Bronze | ☐ Other: _____ |

2. Size: _____

3. Level or Crimped: _____

4. Color Preference: _____

5. Pattern: _____

☐ Straight ☐ Staggered ☐ Chevron

(see top drawing for the differences)

I. Tuft Hole Diameter: _____

J. Fill Hole Spacing Width: _____

K. Fill Hole Spacing Length: _____

L. I'm not sure what I want, have someone contact me!

☐ Contact Me!

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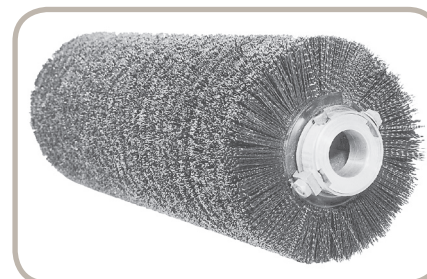
Schaefer Brush

Cylinder Brushes

Section 15

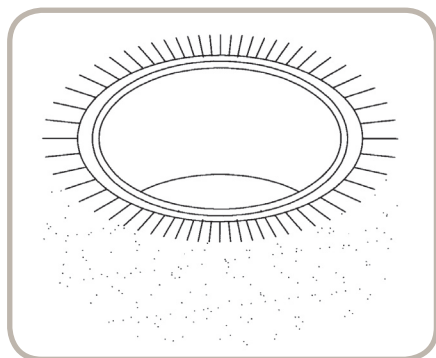
Custom brushes can be made to your specifications. Call for details!

Cylinder brushes are made in a coiled metal back strip construction or staple set tufted construction. Coil wound and staple set tufted cylinder brushes can be used in many industrial applications. Custom brushes of this construction type are available upon request. Please see page 74-78 for custom cylinder brush forms to get your quote!

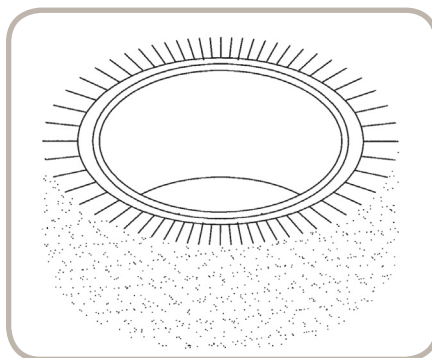


Staple Set Tufted Cylinder Brushes

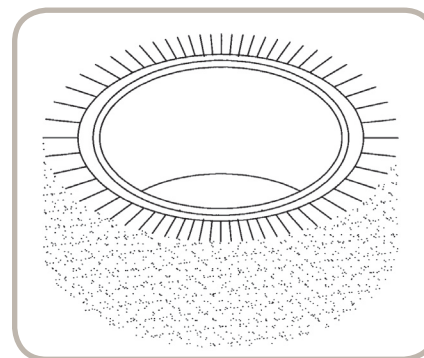
Staple Set brushes are constructed with a series of individual tufts. The tufts of filament are inserted into a core which can be made of various materials. Staple set cylinders can have a variety of brush patterns. The function of the brush application combined with the fill material size determines the density and size of the tuft holes. Please see page 78 for your specific application.



Low Fill Density



Medium Fill Density



High Fill Density

Coil Wound Cylinder Brushes

Type of Metal Back Strip Attachment

After the metal back strip brush is formed, the strip is attached to a core, shaft or tube and wound under tension to make a coiled cylinder brush. The metal back brush can be wound on the core with a right or left hand spiral and a specific pitch to determine brush density.

The finished coil can be assembled to a core or shaft or unassembled for mounting to a customers shaft in the field.



Open Wound
for a Less Dense Brush

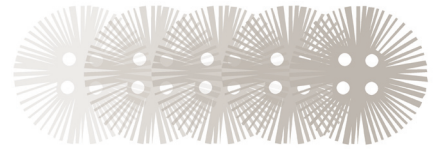


Closed Wound
for a Full Brush





Schaefer Brush



Coil Wound Cylinder Brush Cores

Section 15-1

A. Hollow core with collars to accept your specified shaft size.

Collars:

A1: Collars with set screws.

A2: Collars with single keyway.

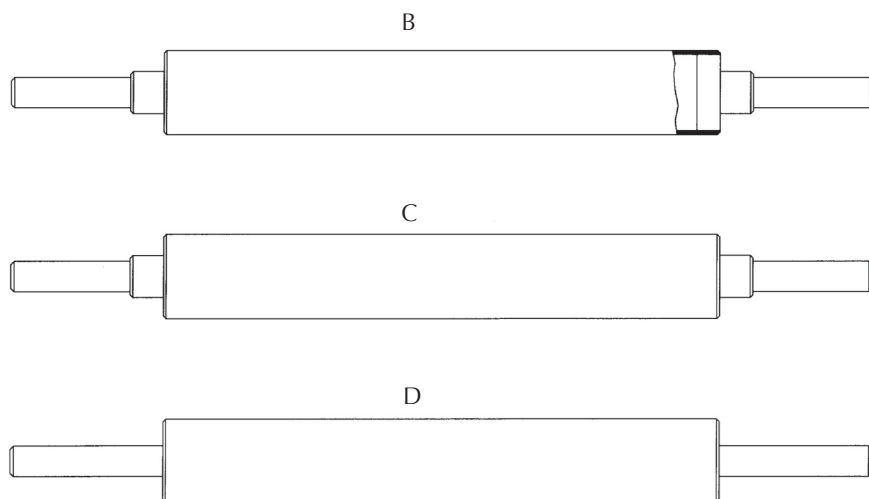
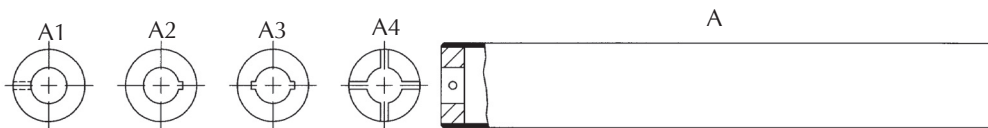
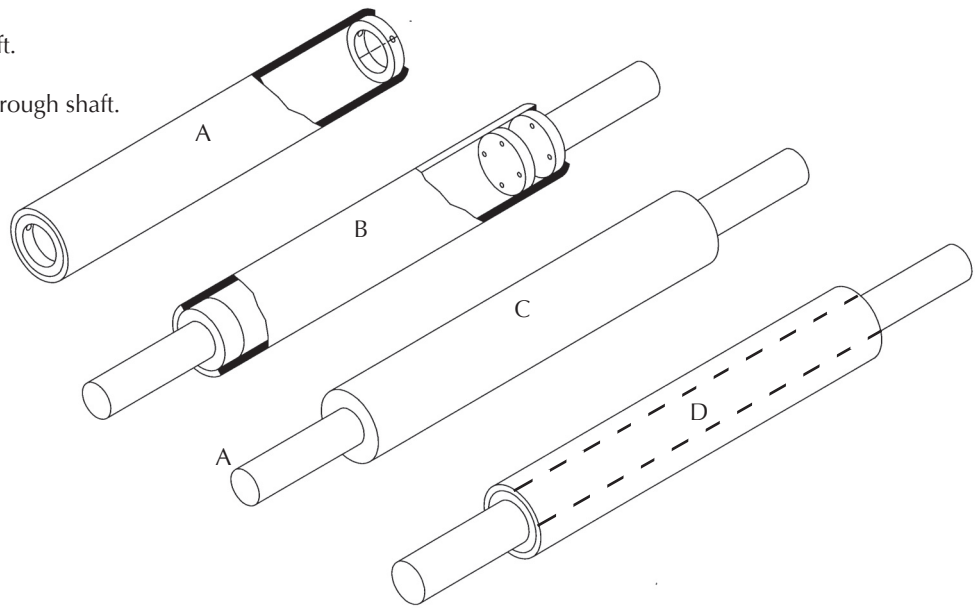
A3: Collars with double keyway.

A4: Isoplast ends for drive pin.

B. Hollow core with stub shafts pressed and welded into both ends of core. Shaft stubs may have single or double shaft heads.

C. Solid core, brush wound directly on shaft.

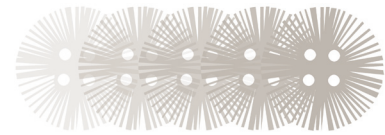
D. Hollow core supplied with removable through shaft.



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Schaefer Brush

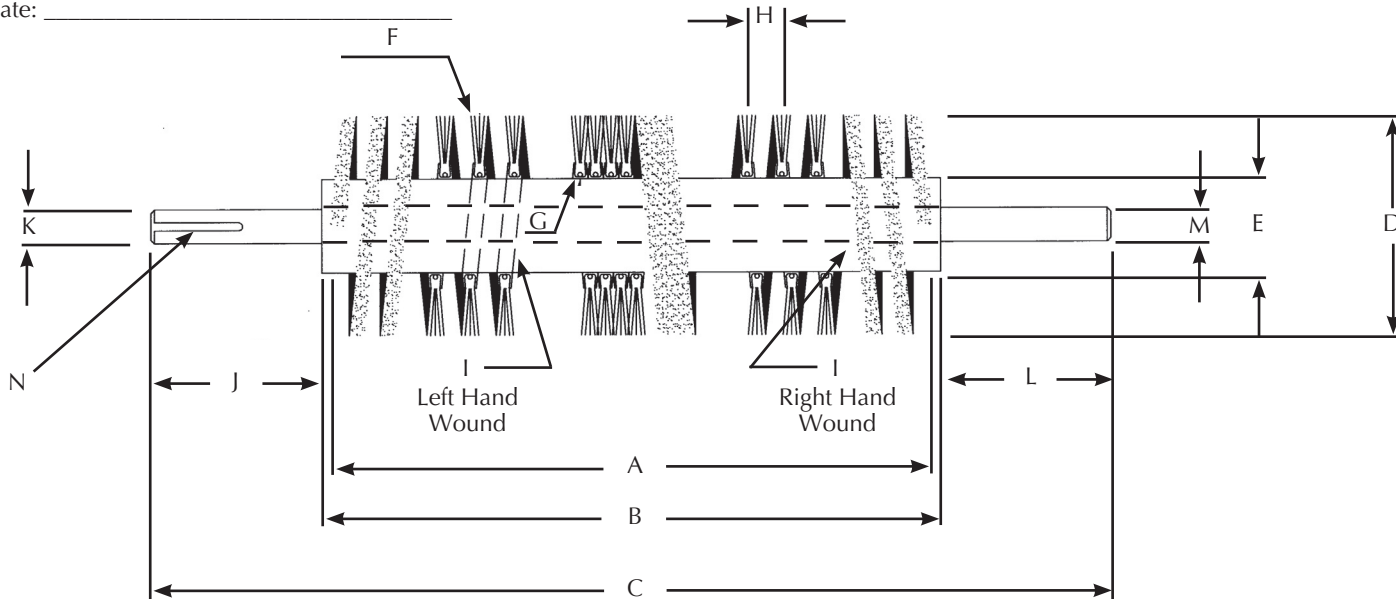
Custom Cylinder Brush Form: Wound on Core with Shaft Section 15-2

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



Brush Application: _____

A. Brush Length: _____

I. Left or Right Hand Wound: _____

B. Core Length: _____

J. Shaft Extension (left side): _____

C. Overall Length: _____

K. Shaft Diameter (left side): _____

D. Brush Diameter: _____

L. Shaft Extension (right side): _____

E. Core Diameter: _____

M. Shaft Diameter (right side): _____

F. Brush Filament:

N. Keyway:

1. Type:

- | | |
|--|---|
| ☐ Nylon | ☐ Brass |
| ☐ Polypropylene | ☐ Phosphorous Bronze |
| ☐ Polyester | ☐ Stainless Steel |
| ☐ Tampico | ☐ Carbon Steel |
| ☐ Horse Hair | ☐ Other: _____ |

1. Length: _____

2. Width: _____

3. Depth: _____

2. Fill Diameter: _____

O. Core Material:

- | | |
|--|---------------------------------------|
| ☐ Aluminum | ☐ Steel |
| ☐ Stainless Steel | ☐ Other: _____ |

3. Level or Crimped: _____

P. Shaft Material:

- | | |
|--|---------------------------------------|
| ☐ Aluminum | ☐ Steel |
| ☐ Stainless Steel | ☐ Other: _____ |

4. Color Preference: _____

Q. I'm not sure what I want, have someone contact me!

☐ Contact Me!

G. Brush Channel Size:

- | |
|---|
| ☐ #7 W= .320" H= .340" |
| ☐ #4 W= .194" H= .196" |
| ☐ #3 W= .143" H= .158" |

H. Lead or Pitch: _____

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Schaefer Brush

Custom Cylinder Brush Form: Wound on Shaft

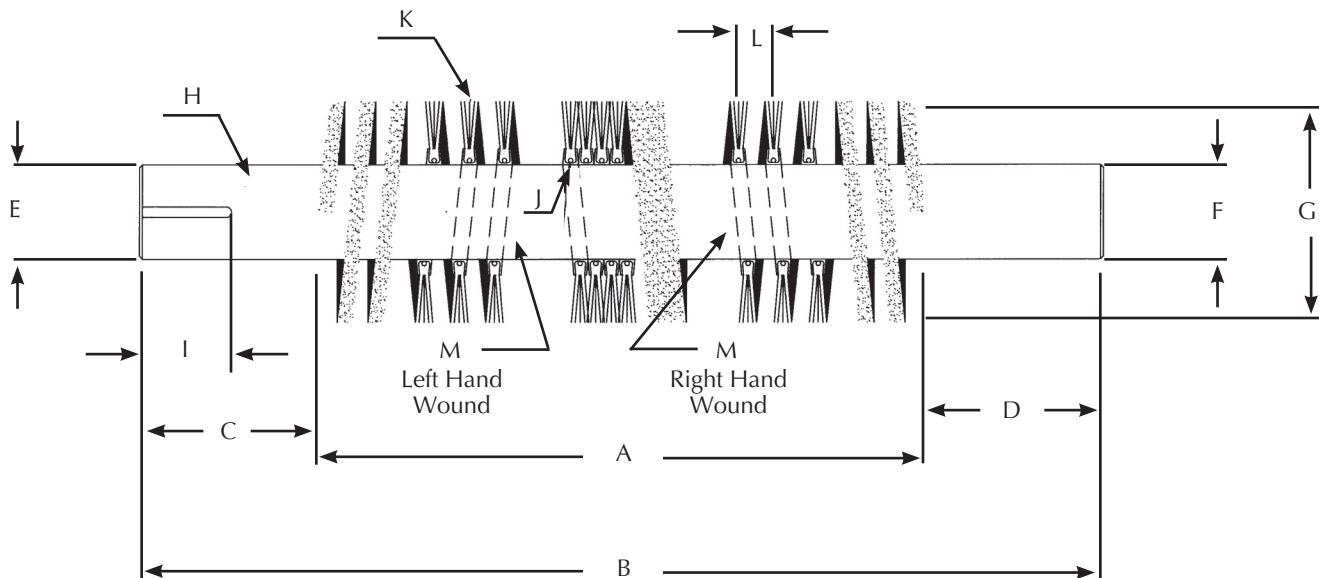
Section 15-3

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



Brush Application: _____

A. Length of Brush Face: _____

B. Overall Length of Shaft: _____

C. Shaft Extension (left): _____

D. Shaft Extension (right): _____

E. Shaft Diameter (left): _____

F. Shaft Diameter (right): _____

G. Brush Diameter: _____

H. Shaft Material:

- ☐ Aluminum ☐ Steel
☐ Stainless Steel ☐ Other: _____

I. Keyway:

1. Length: _____

2. Width: _____

3. Depth: _____

J. Brush Channel Size:

- ☐ #7 W= .320" H= .340"
☐ #4 W= .194" H= .196"
☐ #3 W= .143" H= .158"

K. Brush Filament:

- ☐ Nylon ☐ Brass
☐ Polypropylene ☐ Phosphorous Bronze
☐ Polyester ☐ Stainless Steel
☐ Tampico ☐ Carbon Steel
☐ Horse Hair ☐ Other: _____

L. Lead: _____

M. Left or Right Hand Wound: _____

N. I'm not sure what I want, have someone contact me!

☐ Contact Me!

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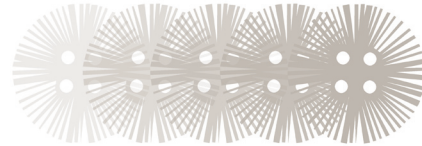


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Schaefer Brush



Custom Cylinder Brush Form: Wound on Core

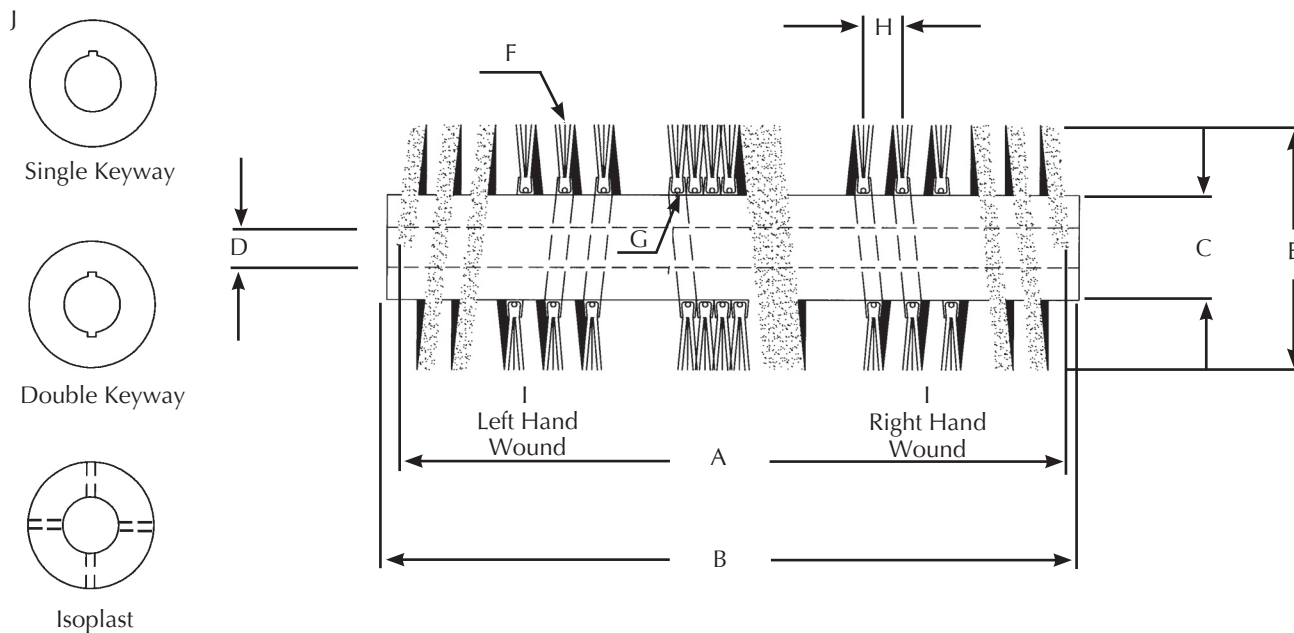
Section 15-4

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



Brush Application: _____

A. Brush Length : _____

B. Core Length: _____

C. Core Diameter: _____

D. Core Inside Diameter: _____

E. Brush Diameter: _____

F. Brush Filament:

1. Type:

- | | |
|--|---|
| ☐ Nylon | ☐ Brass |
| ☐ Polypropylene | ☐ Phosphorous Bronze |
| ☐ Polyester | ☐ Stainless Steel |
| ☐ Tampico | ☐ Carbon Steel |
| ☐ Horse Hair | ☐ Other: _____ |

2. Fill Diameter: _____

3. Level or Crimped: _____

4. Color Preference: _____

G. Brush Channel Size:

- ☐ #7 W= .320" H= .340"
☐ #4 W= .194" H= .196"
☐ #3 W= .143" H= .158"

H. Lead or Pitch: _____

I. Left or Right Hand Wound: _____

J. Collars:

1. Set Screw Size: _____

2. Single Keyway Size: _____

3. Double Keyway Size: _____

4. Isoplast Drive Pin Size: _____

K. I'm not sure what I want, have someone contact me!

☐ Contact Me!

**Fill out and Fax to Schaefer Brush
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Schaefer Brush

Custom Cylinder Brush Form: Wound Loose Coil

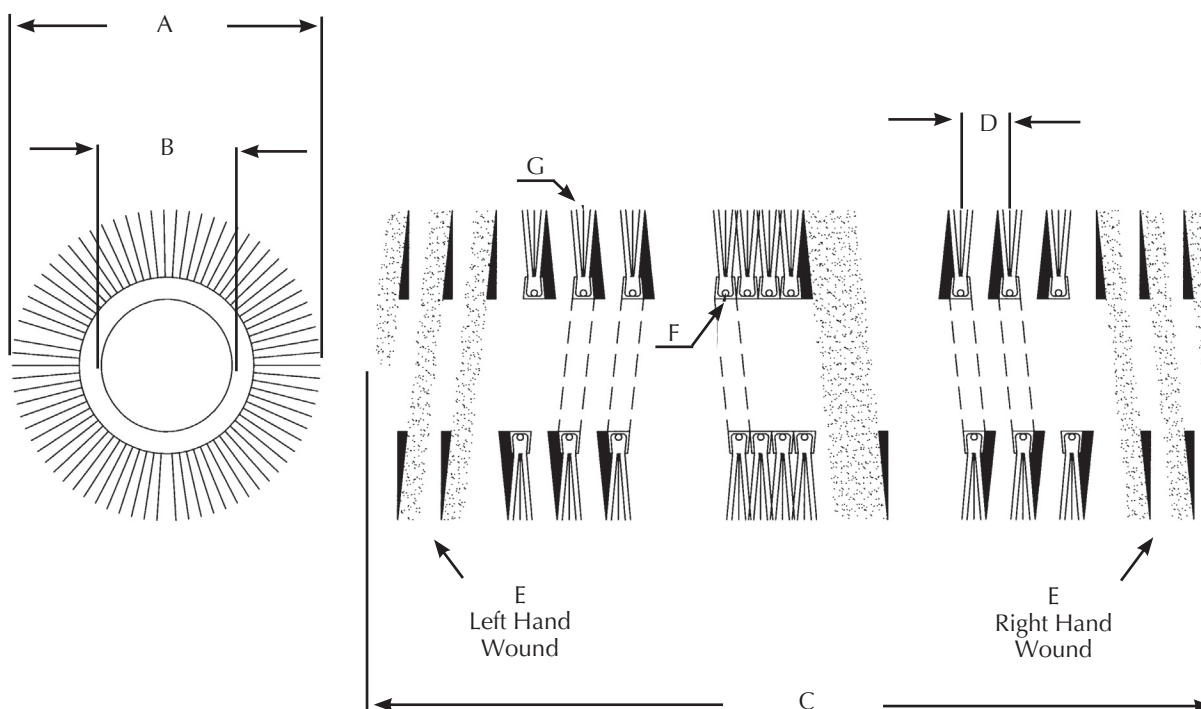
Section 15-5

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



Brush Application: _____

A. Brush Diameter: _____

B. Inside Diameter: _____

C. Overall Length: _____

D. Lead or Pitch: _____

E. Left Hand Wound or Right Hand Wound:

☐ Left Hand

☐ Right Hand

F. Brush Channel Size:

☐ #7 W= .320" H= .340"

☐ #4 W= .194" H= .196"

☐ #3 W= .143" H= .158"

G. Brush Filament:

1. Type:

☐ Nylon

☐ Polypropylene

☐ Polyester

☐ Tampico

☐ Horse Hair

☐ Brass

☐ Phosphorous Bronze

☐ Stainless Steel

☐ Carbon Steel

☐ Other: _____

2. Fill Diameter: _____

3. Level or Crimped: _____

4. Color Preference: _____

H. I'm not sure what I want, have someone contact me!

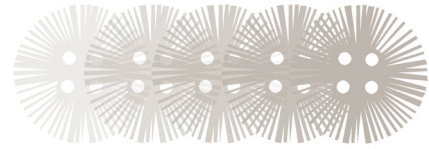
☐ Contact Me!

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Schaefer Brush



Custom Cylinder Brush Form: Staple Set Brush Pattern

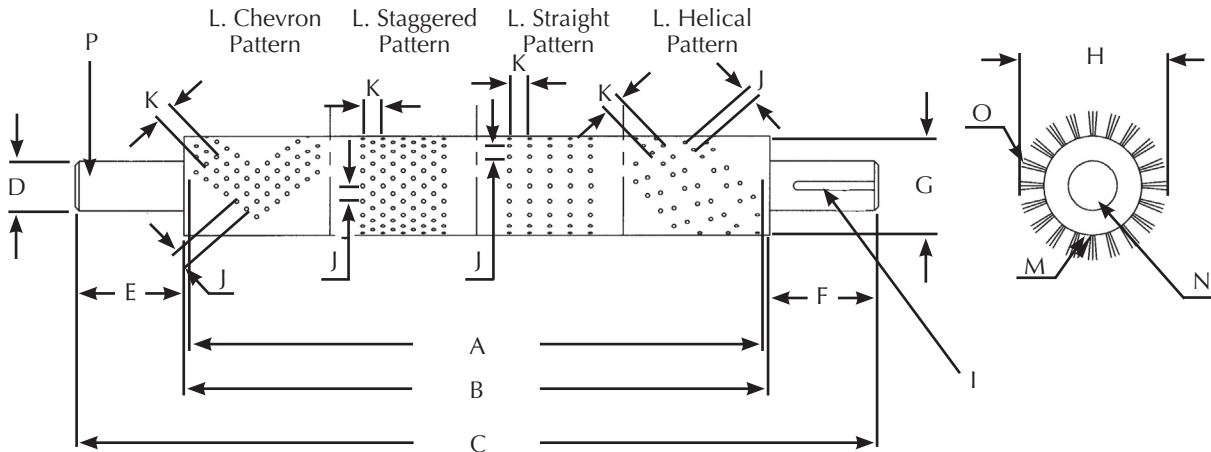
Section 15-6

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



Brush Application: _____

A. Brush Length: _____

B. Core Length: _____

C. Overall Length: _____

D. Shaft Diameter: _____

E. Shaft Length (left side): _____

F. Shaft Length (right side): _____

G. Core Diameter: _____

H. Brush Diameter: _____

I. Keyway:

1. Length: _____

2. Width: _____

3. Depth: _____

4. Left side or right side or both:

☐ Left Side ☐ Right Side ☐ Both

J. Hole Spacing: _____

K. Row Spacing: _____

L. Pattern:

☐ Chevron ☐ Straight

☐ Staggered ☐ Helical

M. Tuft hole diameter: _____

N. Core Material:

☐ PVC ☐ Wood
☐ Nylon ☐ Other: _____

O. Brush Filament:

1. Type:

☐ Nylon ☐ Brass
☐ Polypropylene ☐ Phosphorous Bronze
☐ Polyester ☐ Stainless Steel
☐ Tampico ☐ Carbon Steel
☐ Horse Hair ☐ Other: _____

2. Diameter: _____

3. Level or crimped: _____

4. Color preference: _____

P. Shaft material, if required:

☐ Aluminum ☐ Steel
☐ Brass ☐ Other: _____
☐ Stainless Steel ☐ None Required

Q. I'm not sure what I want, have someone contact me!

☐ Contact Me!

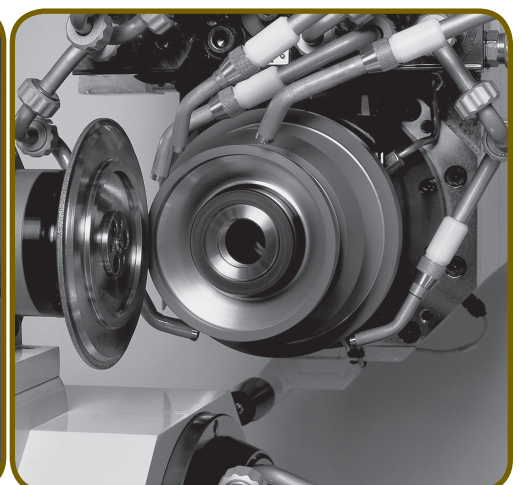
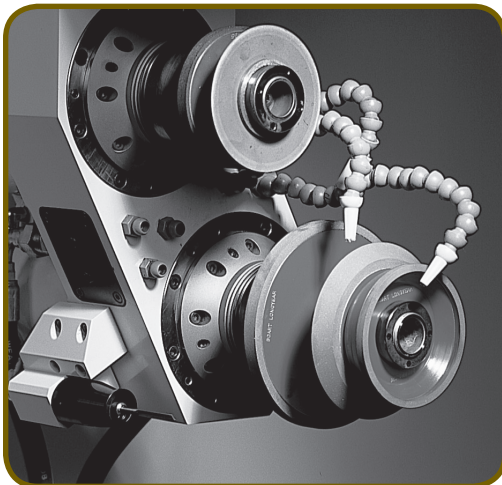
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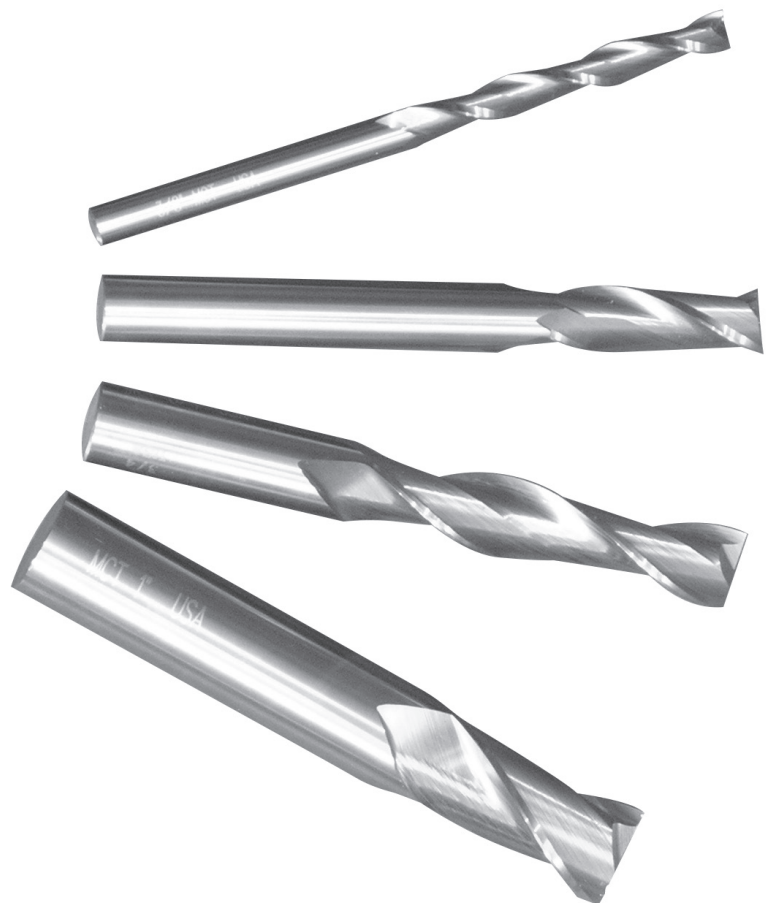
Cutting Tools

We offer carbide and HSS special-cutters, rotary files and complete resharping service.

Section 16



- Standard Carbide End mills
- Extra Length Carbide End mills
- Special Carbide End mills
- Carbide Burrs
- Form Cutters
- Tapered Carbide End mills
- Carbide Blanks - Split and Round
- Step Drills and Other Step Tooling
- Special Carbide Compression Router Bits
- Laser Marking System
- Full Service Resharping Shop

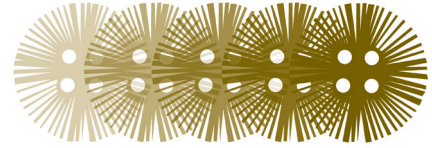


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Schaefer Brush



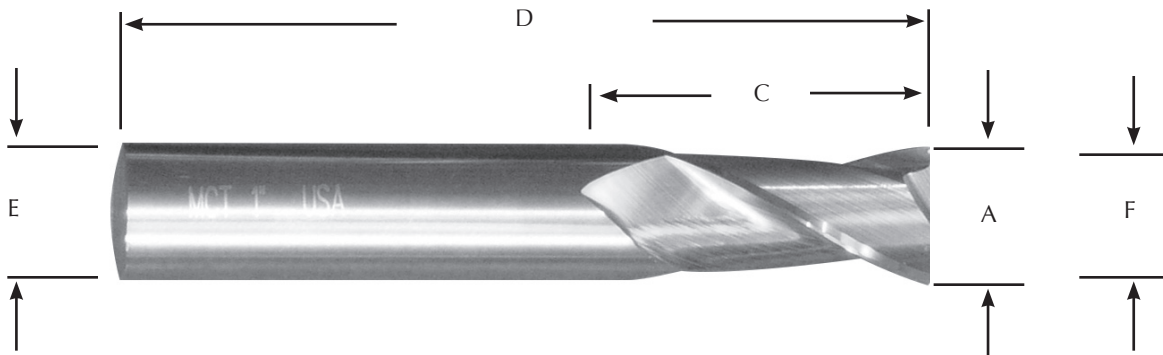
End Mill Quotation Request for Special Applications

Name: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Date: _____



A. Cutter Diameter: _____ E. Shank Diameter: _____

B. Cutter Tolerance: _____ F. Tip Diameter: _____

C. Length of Cut: _____ G. Taper: _____

D. Overall Length: _____

Flutes ☐ 2 ☐ 3 ☐ 4 ☐ Multi ☐ Other: _____

Spiral ☐ 15° ☐ 30° ☐ 60° ☐ Straight ☐ Other: _____

End Cut Options:

☐ Center Cut ☐ Ball Nose ☐ Chamfer
☐ Non Center Cutting ☐ Radius ☐ Other: _____
☐ No End Cut ☐ Square

Holding Options:

☐ None ☐ Tang
☐ Whistle ☐ Other: _____
☐ Weldon Flat

Grade of Carbide: _____ (Std. C-2 Micro Grain)

Material Machined: _____ Hardness: _____

Titanium Nitride Coating: ☐ Yes ☐ No

Quantity: _____

For special cutting tools (Solid Carbide Tapered End Mills, Solid Carbide Step Drills). Please fax this request to us at **262-547-3927**.



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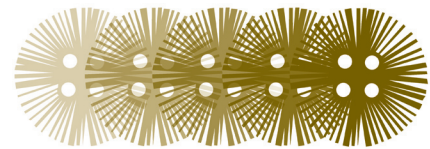


Solid Carbide High Helix End Mills

45 or 60 Degree High Helix 2, 3, or 4 Flute Solid Carbide Ends Mills

Part #	Diameter	LOC	OAL	Pack	Pack Weight
H125	1/8"	1/2"	1-1/2"	1	.031
H187	3/16"	5/8"	2"	1	.031
H250	1/4"	3/4"	2-1/2"	1	.062
H312	5/16"	13/16"	2-1/2"	1	.093
H375	3/8"	7/8"	2-1/2"	1	.156
H500	1/2"	1-1/4"	3"	1	.281
H625	5/8"	1-1/4"	3-1/2"	1	.531
H750	3/4"	1-1/2"	4"	1	.843
H100	1"	1-1/2"	4"	1	1.500

Add 45 or 60 (degree) and then 2, 3, or 4 (Flute) to complete part number.



Resharpener service of HSS

Shell mill, slab mills, face mills, milling cutters, reamers, drills, weldon countersinks, keyway cutters, plus modifications of special cutters, spot facers, core drills, step drills and cutters in sets, etc.

Resharpener service of carbide cutting tools

End mills, rotary files, routers, de-bur, countersinks, special step reamers, step drills, special angles or radius milling cutters, etc.

Solid Carbide Double End Stubs

Double End Stub 2 or 4 Flute Solid Carbide End Mills.

Part #	Diameter	LOC	OAL	Pack	Pack Weight
D062	1/16"	1/8"	1-1/2"	1	.031
D093	3/32"	3/16"	1-1/2"	1	.031
D125	1/8"	1/4"	1-1/2"	1	.031
D156	5/32"	5/16"	2"	1	.031
D187	3/16"	3/8"	2"	1	.031
D218	7/32"	1/2"	2-1/2"	1	.031
D250	1/4"	3/4"	2-1/2"	1	.062
D312	5/16"	1/2"	2-1/2"	1	.093
D375	3/8"	9/16"	2-1/2"	1	.156
D437	7/16"	5/8"	3"	1	.188
D500	1/2"	5/8"	3"	1	.281

Add F (Flat) or B (Ball Nose) and then 2 or 4 (Flutes) to complete part numbers.



Standard Length Solid Carbide End Mills

Part #	Diameter	LOC	Shank	OAL	Pack	Pack Weight	Part #	Diameter	LOC	Shank	OAL	Pack	Pack Weight
E032S	1/32"	5/64"	1/8"	1-1/2"	1	.031	E312S	5/16"	13/16"	5/16"	2-1/2"	1	.093
E046S	3/64"	7/64"	1/8"	1-1/2"	1	.031	E328S	21/64"	7/8"	3/8"	2-1/2"	1	.125
E062S	1/16"	3/16"	1/8"	1-1/2"	1	.688	E343S	11/32"	7/8"	3/8"	2-1/2"	1	.125
E078S	5/64"	3/16"	1/8"	1-1/2"	1	.688	E359S	23/64"	7/8"	3/8"	2-1/2"	1	.125
E093S	3/32"	3/8"	1/8"	1-1/2"	1	.031	E375S	3/8"	7/8"	3/8"	2-1/2"	1	.156
E109S	7/64"	3/8"	1/8"	1-1/2"	1	.031	E390S	25/64"	7/8"	7/16"	2-1/2"	1	.156
E125S	1/8"	1/2"	1/8"	1-1/2"	1	.031	E406S	13/32"	7/8"	7/16"	2-1/2"	1	.188
E140S	9/64"	9/16"	3/16"	2"	1	.031	E421S	27/64"	7/8"	7/16"	2-1/2"	1	.188
E156S	5/32"	9/16"	3/16"	2"	1	.031	E437S	7/16"	7/8"	7/16"	2-1/2"	1	.188
E171S	11/64"	5/8"	3/16"	2"	1	.031	E453S	29/64"	1"	1/2"	3"	1	.188
E187S	3/16"	5/8"	3/16"	2"	1	.031	E468S	15/32"	1"	1/2"	3"	1	.188
E203S	13/64"	5/8"	1/4"	2-1/2"	1	.062	E484S	31/64"	1"	1/2"	3"	1	.188
E218S	7/32"	5/8"	1/4"	2-1/2"	1	.062	E500S	1/2"	1"	1/2"	3"	1	.281
E234S	15/64"	3/4"	1/4"	2-1/2"	1	.062	E562S	9/16"	1-1/4"	9/16"	3"	1	.438
E250S	1/4"	3/4"	1/4"	2-1/2"	1	.062	E625S	5/8"	1-1/4"	5/8"	3-1/2"	1	.531
E265S	17/64"	3/4"	5/16"	2-1/2"	1	.093	E750S	3/4"	1-1/2"	3/4"	4"	1	.844
E281S	9/32"	3/4"	5/16"	2-1/2"	1	.093	E875S	7/8"	1-1/2"	7/8"	4"	1	.875
E296S	19/64"	13/16"	5/16"	2-1/2"	1	.093	E100S	1"	1-1/2"	1"	4"	1	1.500

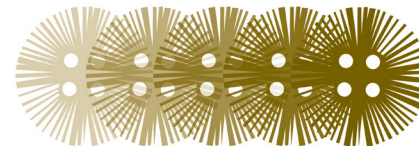
Add F (Flat) or B (Ball Nose) and then 2 or 4 (Flutes) to complete part numbers.



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Extra Length Carbide End Mills



Part #	Diameter	LOC	Shank	OAL	Pack	Pack Weight
E1252	1/8"	5/8"	1/8"	2"	1	.031
E125L	*1/8"	3/4"	1/8"	2-1/4"	1	.031
E187L	*3/16"	3/4"	3/16"	2-1/2"	1	.063
E2503	*1/4"	1-1/8"	1/4"	3"	1	.063
E3123	*5/16"	1-1/8"	5/16"	3"	1	.094
E3753	*3/8"	1-1/8"	3/8"	3"	1	.156
E437L4	*7/16"	2"	7/16"	4"	1	.281
E5003	1/2"	1-1/4"	1/2"	3"	1	.375
E5004	1/2"	1-1/2"	1/2"	4"	1	.406
E500X4	*1/2"	2"	1/2"	4"	1	.406
E6254	5/8"	1-1/2"	5/8"	4"	1	.593
E6255	*5/8"	2-1/4"	5/8"	5"	1	.625
E7505	*3/4"	2-1/4"	3/4"	5"	1	1.35
E1005	*1"	2-1/4"	1"	5"	1	1.50

Add F (Flat) or B (Ball Nose) and then 2 or 4 (Flutes) to complete part numbers.

*Denotes Industry Standard



Part #	Diameter	LOC	Shank	OAL	Pack	Pack Weight
E1253	1/8"	3/4"	1/8"	3"	1	.031
E125L3	*1/8"	1"	1/8"	3"	1	.031
E1254	1/8"	1"	1/8"	4"	1	.063
E1256	1/8"	1"	1/8"	6"	1	.063
E1873	*3/16"	1-1/8"	3/16"	3"	1	.063
E1874	3/16"	1"	3/16"	4"	1	.063
E1876	3/16"	1"	3/16"	6"	1	.094
E2504	*1/4"	1-1/2"	1/4"	4"	1	.125
E250X4	1/4"	2"	1/4"	4"	1	.125
E2506	1/4"	1-1/2"	1/4"	6"	1	.156
E3124	*5/16"	1-5/8"	5/16"	4"	1	.156

Extra Long Length Carbide End Mills

Part #	Diameter	LOC	Shank	OAL	Pack	Pack Weight
E312X4	5/16"	2"	5/16"	4"	1	.156
E3126	5/16"	1-1/2"	5/16"	6"	1	.219
E3754	*3/8"	1-3/4"	3/8"	4"	1	.219
E375X4	3/8"	2"	3/8"	4"	1	.250
E3756	3/8"	1-1/2"	3/8"	6"	1	.343
E3758	3/8"	1-1/2"	3/8"	8"	1	.456
E437X6	*7/16"	3"	7/16"	6"	1	.594
E5006	1/2"	1-1/2"	1/2"	6"	1	.594
E500L6	1/2"	2"	1/2"	6"	1	.594
E500X6	*1/2"	3"	1/2"	6"	1	.594
E5008	1/2"	1-1/2"	1/2"	8"	1	.788
E50010	1/2"	1-1/2"	1/2"	10"	1	.988
E625L6	5/8"	2"	5/8"	6"	1	.844
E625X6	*5/8"	3"	5/8"	6"	1	.844
E6258	5/8"	2"	5/8"	8"	1	1.125
E62510	5/8"	2"	5/8"	10"	1	1.400
E62512	5/8"	2"	5/8"	12"	1	1.688

Add F (Flat) or B (Ball Nose) and then 2 or 4 (Flutes) to complete part numbers.

*Denotes Industry Standard

Part #	Diameter	LOC	Shank	OAL	Pack	Pack Weight
E7056	3/4"	1-1/2"	3/4"	6"	1	1.625
E750L6	3/4"	2"	3/4"	6"	1	1.625
E750X6	*3/4"	3"	3/4"	6"	1	1.625
E750XX6	3/4"	4"	3/4"	6"	1	1.625
E7508	3/4"	2"	3/4"	8"	1	1.413
E75010	3/4"	2"	3/4"	10"	1	1.769
E75012	3/4"	2"	3/4"	12"	1	2.119
E1006	1"	1-1/2"	1"	6"	1	2.500
E100L6	1"	2"	1"	6"	1	2.500
E100XL6	1"	2-1/2"	1"	6"	1	2.563
E100X6	*1"	3"	1"	6"	1	2.563
E100XX6	1"	4"	1"	6"	1	2.563
E1008	1"	2"	1"	8"	1	3.413
E10010	1"	2"	1"	10"	1	4.269
E10012	1"	2"	1"	12"	1	5.125

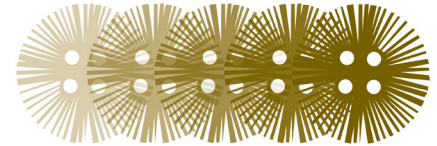
Add F (Flat) or B (Ball Nose) and then 2 or 4 (Flutes) to complete part numbers.

*Denotes Industry Standard





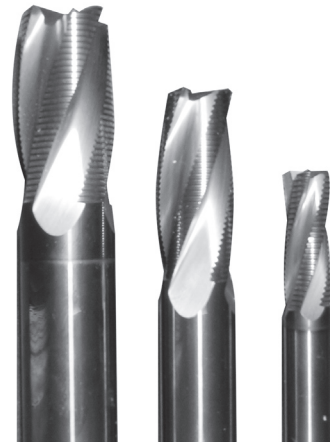
Solid Carbide Rougher



4 Flute Fine Pitch

For shallow slotting or peripheral milling

Part #	Diameter	LOC	OAL	Pack	Pack Weight
RF187F3 Note 3 Flute	3/16" on 1/4" Shank	5/8"	2-1/2"	1	.063
RF250F4	1/4"	3/4"	2-1/2"	1	.063
RF312F4	5/16"	13/16"	2-1/2"	1	.125
RF375F4	3/8"	7/8"	2-1/2"	1	.125
RF500F4	1/2"	1-1/4"	3"	1	.281
RF625F4	5/8"	1-1/4"	3-1/2"	1	.531
RF750F4	3/4"	1-1/2"	4"	1	.844
RF100F4	1"	1-1/2"	4"	1	1.500



4 Flute Coarse Pitch

For deeper slotting or heavy side cuts (general purpose applications)

Part #	Diameter	LOC	OAL	Pack	Pack Weight
RC250F4	1/4"	3/4"	2-1/2"	1	.063
RC312F4	5/16"	13/16"	2-1/2"	1	.125
RC375F4	3/8"	7/8"	2-1/2"	1	.125
RC500F4	1/2"	1-1/4"	3"	1	.281
RC625F4	5/8"	1-1/4"	3-1/2"	1	.531
RC750F4	3/4"	1-1/2"	4"	1	.844
RC100F4	1"	1-1/2"	4"	1	1.500



V-Max High Performance

Variable Flute Design For Maximum Performance

Benefits of the V-Max

- Chatter Free High Performance Machining
- Improved Surface Finish and Tool Life
- For High Speed Machining Of:
 - Stainless Steel/Low Carbon Steels
 - Cast Iron/High Temperature Alloys



High Performance V-Max Tools Standard Length

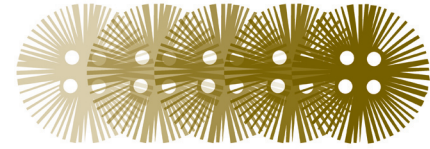
Part #	Diameter	LOC	Shank	OAL	Pack	Pack Weight
E375VF4	3/8"	7/8"	3/8"	2-1/2"	1	.125
E500VF4	1/2"	1"	1/2"	3"	1	.281
E625VF4	5/8"	1-1/4"	5/8"	3-1/2"	1	.531
E750VF4	3/4"	1-1/2"	3/4"	4"	1	.844
E100VF4	1"	1-1/2"	1"	4"	1	1.500

Other sizes available upon request



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Solid Carbide Double Edge Compression Routers

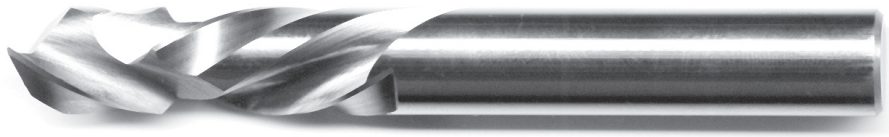


The tool provides a "double edge upcut/downcut" design for fast feed rates and optimum edge finish on both sides of laminated materials.

Use on:

- Double sided laminated materials
- Hard Wood
- Wood Composites

Part #	CED	CEL	Shank Dia.	OAL	Pack	Pack Weight
CR250	1/4"	7/8"	1/4"	2-1/2"	1	.063
CR375	3/8"	1-1/8"	3/8"	3"	1	.187
CR5001	1/2"	1"	1/2"	3"	1	.375
CR5001125	1/2"	1-1/8"	1/2"	3"	1	.375
CR5001375	1/2"	1-3/8"	1/2"	3-1/2"	1	.437
CR5001625	1/2"	1-5/8"	1/2"	4"	1	.406
CR625250	5/8"	2-1/4"	5/8"	5"	1	.605
CR7501875	3/4"	1-7/8"	3/4"	4"	1	1.08
CR750250	3/4"	2-1/2"	3/4"	5"	1	1.35



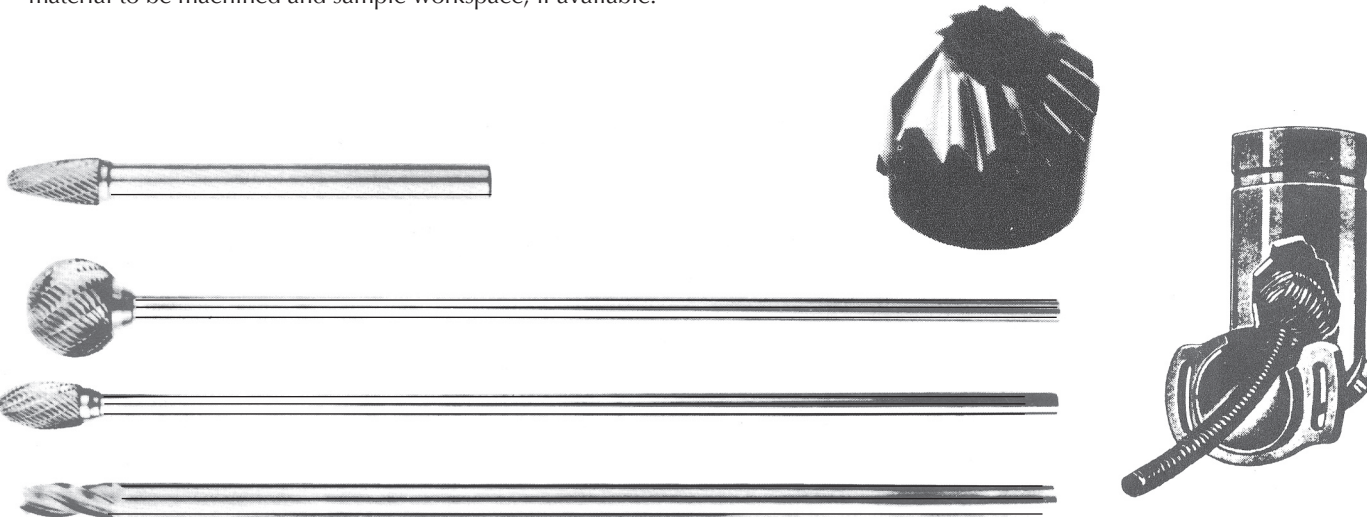
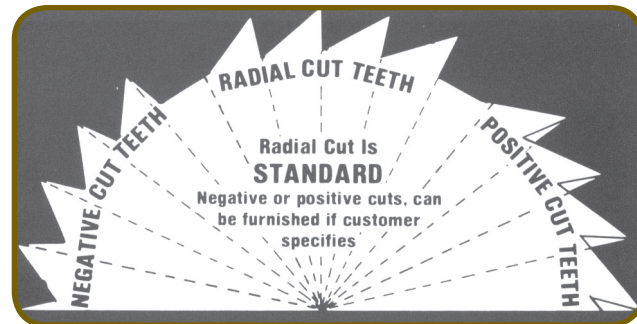
Solid Carbide Burrs

We offer carbide and HSS special-cutters, rotary files, and complete sharpening service.

Special solid carbide tooling designed and engineered for specific requirements.

Requirements for special tooling such as special shapes, diameters, cuts, flutes, shank lengths, etc., or modification of existing standard items will be given prompt, expert attention.

We invite inquiries - send blueprints, specifications, tolerances, material to be machined and sample workspace, if available.



Solid Carbide Burrs

Fluting Specifications

The following cuts illustrate most of the variables that are used in the teeth of rotary files to perform various jobs. You may request your own specifications and we will furnish the tool, custom ground, taking in all possible variations. Standard cut for size, is always furnished unless otherwise specified.

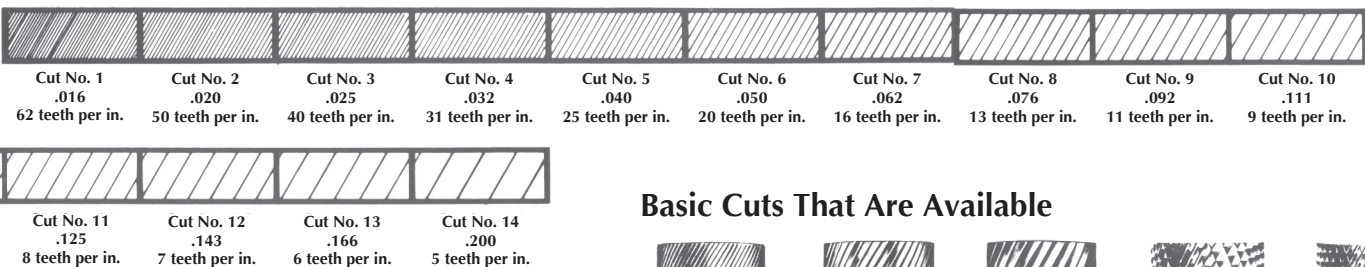
Recommended Operation Speeds for Carbide Burrs

No hard and fast rule can be laid down. Operating conditions vary greatly. Experience must guide the individual operator as to the most economical speed according to skill or operating technique. For abrasive conditions, reduce speed. The following in RPM's are given only as a general guide.

We regrind any make of carbide cutting tools. Regrind prices are approximately 25% of list. **All prices are subject to change without notice. All special tooling per quotes.**

Minimum charge of \$15 per order.

Pitches (or distance between teeth) and their cut numbers



Cut Chart

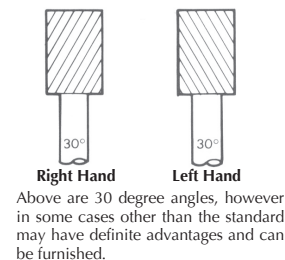
Diameter	Fine	Std.	Coarse
3/32"	2	3	5
1/8"	3	4	5
3/16"	3	5	6
1/4"	4	5	7
5/16"	4	6	7
3/8"	4	6	8
7/16"	5	6	8
1/2"	5	7	9
9/16"	5	7	9
5/8"	5	7	9
3/4"	6	8	10
7/8"	6	8	10
1"	6	8	10
1-1/8"	6	9	11
1-1/4"	6	9	11
1-1/2"	7	9	12

Basic Cuts That Are Available



Cutter Diameter	Aluminum	Magnesium	Cast Iron	Steel
	Brass			
1/8"	20,000		7,500	5,000
1/4"	15,000		5,600	3,750
3/8"	12,500		4,650	3,100
1/2"	10,000		3,700	2,500
3/4"	7,500		2,750	1,850
1"	5,000		1,800	1,250

Standard Spiral Angles

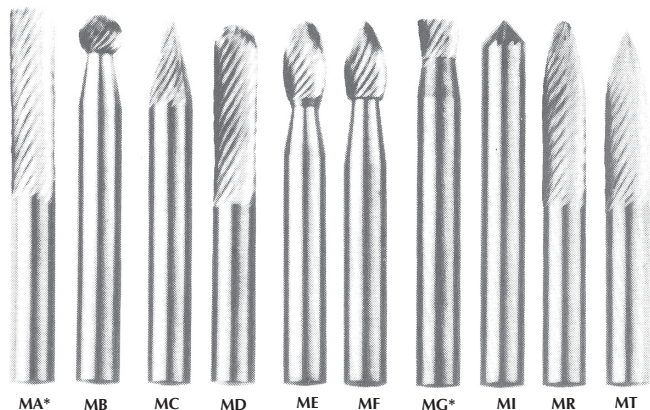


Solid Carbide Burrs

1/4" Shanks x 2" - 3" - 4" - 6" O.A.L.

Tool No.	Dia.	Head Length	Pack	2" Pack Weight	3" Pack Weight	4" Pack Weight	6" Pack Weight
MA-250-S	1/4"	3/4"	1	.063	.113	.156	.234
MB-250-S	1/4"	3/4"	1	.063	.113	.156	.234
MC-250-S	1/4"	3/4"	1	.063	.113	.156	.234
MD-250-S	1/4"	1/8"	1	.063	.113	.156	.234
ME-250-S	1/4"	1/8"	1	.063	.113	.156	.234
MF-250-S	1/4"	1/2"	1	.063	.113	.156	.234
MG-250-S	1/4"	1/4"	1	.063	.113	.156	.234
MI-250-S	1/4"	1/8"	1	.063	.113	.156	.234
MR-250-S	1/4"	3/4"	1	.063	.113	.156	.234
MT-250-S	1/4"	3/4"	1	.063	.113	.156	.234

Add suffix to end of tool no. to indicate correct OAL tool length.



*15% extra for end cut. Please specify. Example MD-250-SL-4"
Available in 3", 4", 6" Lengths



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3/16" Shanks x 2" - 3" - 4" - 6" O.A.L.

Tool No.	Dia.	Head Length	Pack	2" Pack Weight	3" Pack Weight	4" Pack Weight	6" Pack Weight
MA-187-S	3/16"	5/8"	1	.063	.113	.156	.234
MB-187-S	3/16"	3/16"	1	.063	.113	.156	.234
MC-187-S	3/16"	1/2"	1	.063	.113	.156	.234
MD-187-S	3/16"	5/8"	1	.063	.113	.156	.234
ME-187-S	3/16"	5/16"	1	.063	.113	.156	.234
MF-187-S	3/16"	3/8"	1	.063	.113	.156	.234
MG-187-S	3/16"	3/16"	1	.063	.113	.156	.234
MI-187-S	3/16"	3/16"	1	.063	.113	.156	.234
MR-187-S	3/16"	5/8"	1	.063	.113	.156	.234
MT-187-S	3/16"	5/8"	1	.063	.113	.156	.234

Add suffix to end of tool no. to indicate correct tool length.

1/8" Shanks x 2" - 3" - 4" - 6" O.A.L.

Tool No.	Dia.	Head Length	Pack	2" Pack Weight	3" Pack Weight	4" Pack Weight	6" Pack Weight
MA-125-S	1/8"	1/2"	1	.031	.063	.086	.125
MB-125-S	1/8"	1/8"	1	.031	.063	.086	.125
MC-125-S	1/8"	3/8"	1	.031	.063	.086	.125
MD-125-S	1/8"	1/2"	1	.031	.063	.086	.125
ME-125-S	1/8"	3/16"	1	.031	.063	.086	.125
MF-125-S	1/8"	1/4"	1	.031	.063	.086	.125
MG-125-S	1/8"	1/8"	1	.031	.063	.086	.125
MI-125-S	1/8"	6/9"	1	.031	.063	.086	.125
MR-125-S	1/8"	1/2"	1	.031	.063	.086	.125
MT-125-S	1/8"	1/2"	1	.031	.063	.086	.125

Add suffix to end of tool no. to indicate correct tool length.

1/4" Diameter Carbide Burr on 1/8" Steel Shank.

Tool No.	Dia.	Head Length	Pack	2" Pack Weight	3" Pack Weight	4" Pack Weight	6" Pack Weight
MA-250-B	1/4"	1/2"	1	.063	.113	.156	.234
MB-250-B	1/4"	1/4"	1	.063	.113	.156	.234
MC-250-B	1/4"	1/2"	1	.063	.113	.156	.234
MD-250-B	1/4"	1/2"	1	.063	.113	.156	.234
ME-250-B	1/4"	3/8"	1	.063	.113	.156	.234
MG-250-B	1/4"	1/4"	1	.063	.113	.156	.234
MI-250-B	1/4"	1/8"	1	.063	.113	.156	.234
MR-250-B	1/4"	1/2"	1	.063	.113	.156	.234
MT-250-B	1/4"	1/2"	1	.063	.113	.156	.234

Add suffix to end of tool no. to indicate correct tool length.

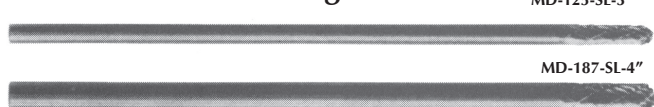
H.S.S Fin-Cutters 1/4" Shank (High Speed)

Tool No.	Diameter	Flute Length	OAL	Pack Weight
250-MD-HHS	1/4"	2-1/2"	4"	.156
250-ML-HHS	1/4"	2-1/2"	4"	.156

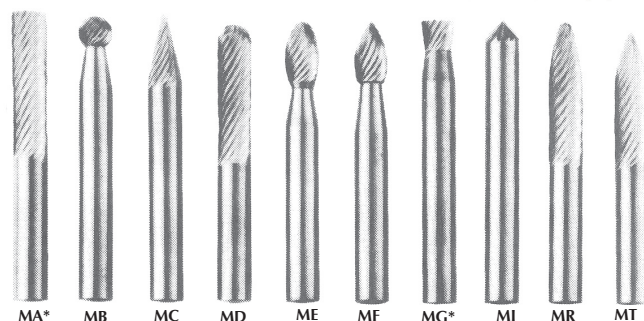
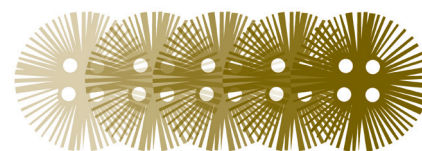
SMR - Solid Carbide Routers

Tool No.	Diameter	Flute Length	Shank Diameter	OAL	Pack Weight
SMR	1/8"	1/2"	1/8"	1-1/2"	.031
SMR	3/16"	5/8"	3/16"	2"	.063
SMR	1/4"	1"	1/4"	2-1/2"	.063
SMR	5/16"	1"	5/16"	2-1/2"	.078
SMR	3/8"	1"	3/8"	2-1/2"	.094
SMR	1/2"	1"	1/2"	3"	.125

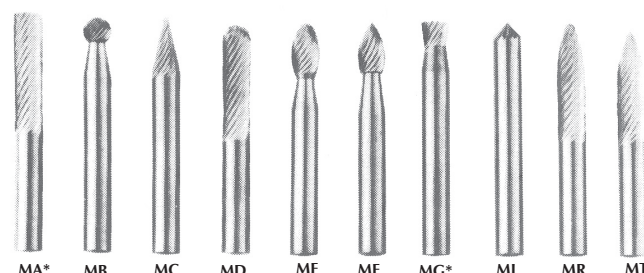
Solid Carbide Extra Long Burrs



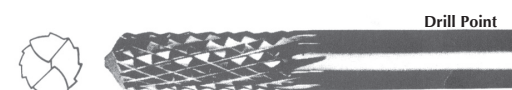
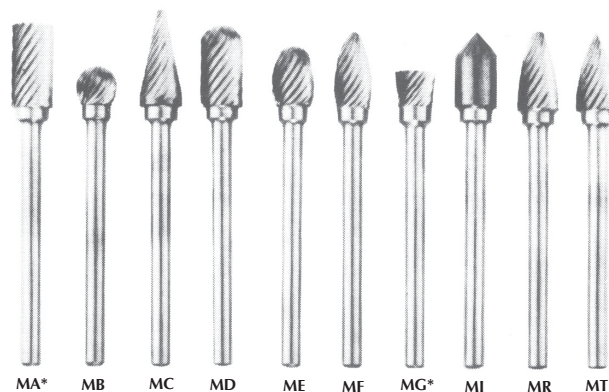
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Phone 262-547-3500 1-800-347-3501 Fax 262-547-3927
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*15% extra for end cut. Please specify. Example MD-250-SL-4"
Available in 3", 4", 6" Lengths



*15% extra for end cut. Please specify. Example MD-250-SL-4"
Available in 3", 4", 6" Lengths



Designed for faster stock removal on all non-metallic materials, such as Melmec, Magnesium, Formica, Hard Rubber, Aluminum, etc.



Call today! Can be ordered in any length.

Solid Carbide Tooling

Shape - MB Ball



Tool No.	Size	Pack	Pack Weight
MB-250	1/4"	1	.063
MB-375	3/8"	1	.094
MB-500	1/2"	1	.125
MB-625	5/8"	1	.188
MB-750*	3/4"	1	.250
MB-1000*	1"	1	.344

Shape - MA Cylindrical Flat End



Tool No.	Size	Head Length	Pack	Pack Weight
MA-250	1/8"	1/2"	1	.063
MA-375	3/8"	3/4"	1	.094
MA-500	1/2"	N/A	1	.125
MA-625	5/8"	N/A	1	.188
MA-750*	3/4"	N/A	1	.250
MA-1000*	1"	N/A	1	.344

Shape - MD Cylindrical Ball Nose



Tool No.	Size	Head Length	Pack	Pack Weight
MD-250	1/4"	1/2"	1	.063
MD-375	3/8"	3/4"	1	.094
MD-500	1/2"	1"	1	.125
MD-625	5/8"	1"	1	.188
MD-750*	3/4"	1"	1	.250

Shape - MC Cone Flathead



Tool No.	Dia.	Head Length	Incl. Degrees	Pack	Pack Weight
MC-250	1/4"	1/2"	14	1	.063
MC-375	3/8"	5/8"	28	1	.094
MC-500	1/2"	7/8"	28	1	.125
MC-625	5/8"	1"	31	1	.188
MC-750*	3/4"	1"	35	1	.250

Shape - ME Egg Shape



Tool No.	Size	Head Length	Pack	Pack Weight
ME-250	1/4"	3/8"	1	.063
ME-375	3/8"	5/8"	1	.094
ME-500	1/2"	3/4"	1	.125
ME-625	5/8"	N/A	1	.188
ME-750*	3/4"	N/A	1	.250

Shape - MF Flame



Tool No.	Dia.	Head Length	Pack	Pack Weight
MF-250	5/16"	3/4"	1	.063
MF-500	1/2"	1-1/4"	1	.125
MF-625	5/8"	1-7/16"	1	.188
MF-750*	3/4"	1-5/8"	1	.250

Shape - ML Cone Radius Head



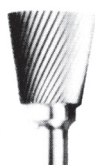
Tool No.	Dia.	Head Length	Incl. Degrees	Pack	Pack Weight
ML-250	1/4"	5/8"	14	1	.063
ML-375	3/8"	1-1/16"	14	1	.094
ML-500	1/2"	1-1/8"	14	1	.125
ML-625	5/8"	1-5/16"	14	1	.188
ML-750*	3/4"	1-1/2"	14	1	.250
ML-1000-20*	1"	2"	20	1	.344
ML-1000-10*	1"	2"	10	1	.344

Shape - MT Tree Pointed Head



Tool No.	Dia.	Head Length	Pack	Pack Weight
MT-250	1/4"	1/2"	1	.063
MT-375	3/8"	3/4"	1	.094
MT-500	1/2"	1"	1	.125
MT-625	5/8"	1"	1	.188
MT-750*	3/4"	1"	1	.250

Shape - MG Inverted Cone



Tool No.	Size	Head Length	Pack	Pack Weight
MG-250	1/4"	1/4"	1	.063
MG-375	3/8"	3/8"	1	.094
MG-500	1/2"	1/2"	1	.125
MG-625	5/8"	5/8"	1	.188
MG-750*	3/4"	5/8"	1	.250

Shape - MR Tree Radius Head



Tool No.	Dia.	Head Length	Pack	Pack Weight
MR-250	1/4"	1/2"	1	.063
MR-375	3/8"	3/4"	1	.094
MR-500	1/2"	1"	1	.125
MR-625	5/8"	1"	1	.188
MR-750*	3/4"	1-1/4"	1	.250
MR-750A*	3/4"	1-1/2"	1	.250
MR-1.125*	1-1/8"	2"	1	.369

Shape - MI Angle Incline



30 Degree Angle
Angle 60
Degree Incline

Tool No.	Size	C/L Angle Degrees	Pack	Pack Weight
MI-250	1/4"	30-41-45	1	.063
MI-375	3/8"	30-41-45	1	.094
MI-500	1/2"	30-41-45	1	.125
MI-625	5/8"	30-41-45	1	.188
MI-750*	3/4"	30-41-45	1	.250
MI-1000*	1"	30-41-45	1	.344



41 or 45 Degree
Specify Angle
Angle 82 or 90
Degree Incline

Carbide head brazed onto 1/4" hardened steel shank

*3/8" shank is recommended for burrs over 5/8" diameter



WHEN USING
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FACE SHIELDS!



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Solid Carbide Tooling

Cylinder Shape



Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
MA-250-L6	1/4"	1/2"	1	.234
MA-375-L6	3/8"	3/4"	1	.266
MA-500-L6	1/2"	1"	1	.297
MA-625-L6	5/8"	1"	1	.360
MA-750-L6	3/4"	1"	1	.422

Tree Shape Radius End



Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
MR-250-L6	1/4"	1/2"	1	.234
MR-375-L6	3/8"	3/4"	1	.266
MR-500-L6	1/2"	1"	1	.297
MR-625-L6	5/8"	1"	1	.360
MR-750-L6	3/4"	1-1/4"	1	.422

Ball Shape



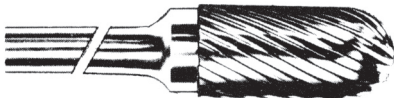
Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
MB-250-L6	1/4"	3/16"	1	.234
MB-375-L6	3/8"	5/16"	1	.266
MB-500-L6	1/2"	7/16"	1	.297
MB-625-L6	5/8"	9/16"	1	.360
MB-750-L6	3/4"	11/16"	1	.422
MB-1000-L6	1"	13/16"	1	.516

Tree Shape Pointed End



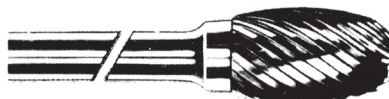
Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
MT-250-L6	1/4"	1/2"	1	.234
MT-375-L6	3/8"	3/4"	1	.266
MT-500-L6	1/2"	1"	1	.297
MT-625-L6	5/8"	1"	1	.360
MT-750-L6	3/4"	1"	1	.422

Cylinder Radius End



Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
MD-250-L6	1/4"	1/2"	1	.234
MD-375-L6	3/8"	3/4"	1	.266
MD-500-L6	1/2"	1"	1	.297
MD-625-L6	5/8"	1"	1	.360
MD-750-L6	3/4"	1"	1	.422

Oval Shape



Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
ME-250-L6	1/4"	3/8"	1	.234
ME-375-L6	3/8"	5/8"	1	.266
ME-500-L6	1/2"	7/8"	1	.297
ME-625-L6	5/8"	1"	1	.360
ME-750-L6	3/4"	1"	1	.422

MR-500-L6

MD-375-L6



Flame Shape



Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
MF-250-L6	5/16"	3/4"	1	.250
MF-500-L6	1/2"	1-1/4"	1	.297
MF-625-L6	5/8"	1-7/16"	1	.360
MF-750-L6	3/4"	1-5/8"	1	.422

14 Degree Taper Radius End



Tool No.	Head Dia.	Flute Length	Pack	Pack Weight
ML-250-L6	1/4"	5/8"	1	.234
ML-375-L6	3/8"	1-1/16"	1	.266
ML-500-L6	1/2"	1-1/8"	1	.297
ML-625-L6	5/8"	1-5/16"	1	.360
ML-750-L6	3/4"	1-1/2"	1	.422

Long shank carbide burrs are for hard to reach deburring problems. All burrs listed are provided with 6" long steel shanks. Special shank lengths are available up to 18" long.

Solid Carbide Tooling

ME-500-L18

Extra long shanks up to 18" have been used successfully. Longer lengths can be supplied on request. Available in several diameters.



MB-625-FL-24

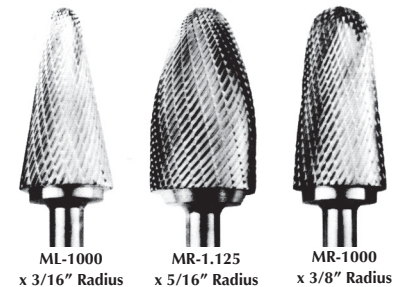


To solve most of your grinding problems for castings that requires fast stock removal or hard to reach places, we can supply burrs on extra long steel shanks and FLEXO shanks that can go around bends.

Tool No.	Cutting Dia.	Head Lgth.	Angle C/L	Radius Nose	Shank Dia.	Pack
ML-1000-FL-10	1"	2"	10	3/16"	3/8"	1
ML-1000-FL-5	1"	2"	5	3/8"	3/8"	1
MR1.125	1-1/8"	2"	N/A	5/16"	3/8"	1

Examples: Long Shank Burrs

Tool No.	Tool Dia.	Shank Type	Shank Length	Pack
ME-	500	L	18"	1
MB-	625	FL	24"	1
MA-	187	SL	4"	1
MD-	500-AL	L	6"	1



Alu-Cut

Alu-Cut can solve your problems. Available on 1/4" and 3/8" shanks. Larger shanks available upon request. Alu-Cut burrs are designed for use on aluminum, nonferrous metals, soft steel, reinforced plastic, and other soft materials.



Tool No.	Head Dia.	Lgth.	Pack	Pack Weight
MA-250S-AL	1/4"	3/4"	1	.063
MA-375-AL	3/8"	3/4"	1	.094
MA-500-AL	1/2"	1"	1	.125
MA-625-AL*	5/8"	1"	1	.187
MA-750-AL*	3/4"	1"	1	.250



Tool No.	Head Dia.	Lgth.	Pack	Pack Weight
MD-250S-AL	1/4"	3/4"	1	.063
MD-375-AL	3/8"	3/4"	1	.094
MD-500-AL	1/2"	1"	1	.125
MD-625-AL*	5/8"	1"	1	.187
MD-750-AL*	3/4"	1"	1	.250



Tool No.	Head Dia.	Lgth.	Pack	Pack Weight
MB-250S-AL	1/4"	3/4"	1	.063
MB-375-AL	3/8"	3/4"	1	.094
MB-500-AL	1/2"	1"	1	.125
MB-625-AL*	5/8"	1"	1	.187
MB-750-AL*	3/4"	1"	1	.250



Tool No.	Head Dia.	Lgth.	Pack	Pack Weight
ME-250S-AL	1/4"	3/4"	1	.063
ME-375-AL	3/8"	5/8"	1	.094
ME-500-AL	1/2"	7/8"	1	.125
ME-625-AL*	5/8"	1"	1	.187
ME-750-AL*	3/4"	1"	1	.250



Tool No.	Head Dia.	Lgth.	Pack	Pack Weight
ML-250S-AL	1/4"	3/4"	1	.063
ML-375-AL	3/8"	3/4"	1	.094
ML-500-AL	1/2"	1-1/8"	1	.125
ML-625-AL*	5/8"	1-5/16"	1	.187
ML-750-AL*	3/4"	1-1/2"	1	.250



Tool No.	Head Dia.	Lgth.	Pack	Pack Weight
MR-250S-AL	1/4"	3/4"	1	.063
MR-375-AL	3/8"	3/4"	1	.094
MR-500-AL	1/2"	1"	1	.125
MR-625-AL*	5/8"	1"	1	.187
MR-750-AL*	3/4"	1-1/4"	1	.250

*3/8" shank is recommended for burrs 5/8" diameter and over.



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Blanks

Solid Carbide Centerless Ground Blanks

Micrograin



Tool No.	Dia. X OAL	Pack Weight	Tool No.	Dia. X OAL	Pack Weight
CBR1251.5	1/8" x 1-1/2"	.031	CBR3753.5	3/8" x 3-1/2"	.219
CBR1252	1/8" x 2"	.044	CBR3754	3/8" x 4"	.250
CBR1253	1/8" x 3"	.063	CBR3756	3/8" x 6"	.375
CBR1254	1/8" x 4"	.081	CBR37512	3/8" x 12"	.750
CBR1256	1/8" x 6"	.125	CBR4372.5	7/16" x 2-1/2"	.188
CBR12512	1/8" x 12"	.250	CBR4373	7/16" x 3"	.225
CBR1872	3/16" x 2"	.050	CBR4374	7/16" x 4"	.300
CBR1872.5	3/16" x 2-1/2"	.063	CBR4376	7/16" x 6"	.450
CBR1873	3/16" x 3"	.075	CBR43712	7/16" x 12"	.900
CBR1874	3/16" x 4"	.100	CBR5003	1/2" x 3"	.281
CBR1876	3-16" x 6"	.150	CBR5004	1/2" x 4"	.375
CBR18712	3/16" x 12"	.300	CBR5006	1/2" x 6"	.563
CBR2502	1/4" x 2"	.063	CBR50012	1/2" x 12"	1.125
CBR2502.5	1/4" x 2-1/2"	.094	CBR56212	9/16" x 12"	1.75
CBR2503	1/4" x 3"	.113	CBR6253.5	5/8" x 3-1/2"	.531
CBR2504	1/4" x 4"	.150	CBR6254	5/8" x 4"	.606
CBR2506	1/4" x 6"	.225	CBR6256	5/8" x 6"	.906
CBR25012	1/4" x 12"	.138	CBR62512	5/8" x 12"	1.813
CBR3122.5	5/16" x 2-1/2"	.125	CBR7504	3/4" x 4"	.844
CBR3123	5/16" x 3"	.150	CBR7506	3/4" x 6"	1.250
CBR3124	5/16" x 4"	.200	CBR75012	3/4" x 12"	2.500
CBR3126	5/16" x 6"	.300	CBR1004	1" x 4"	1.500
CBR31212	5/16" x 12"	.600	CBR1006	1" x 6"	2.250
CBR3752.5	3/8" x 2-1/2"	.156	CBR10012	1" x 12"	4.625
CBR3753	3/8" x 3"	.188			

Tolerance + .0000-.0005

Special Diameters Available Upon Request

Engraving Blanks

Double End Split



Tool No.	Rod Dia.	Split Length	OAL	Pack Weight
CBDS1251.5	1/8"	3/8"	1-1/2"	.031
CBDS1252	1/8"	3/8"	2"	.044
CBDS1872	3/16"	1/2"	2"	.050
CBDS1873	3/16"	1/2"	3"	.075
CBDS2502	1/4"	1/2"	2"	.063
CBDS2502.5	1/4"	1/2"	2-1/2"	.094
CBDS2503	1/4"	1/2"	3"	.113
CBDS3123	5/16"	1/2"	3"	.150
CBDS3122.5	3/8"	1/2"	2-1/2"	.156
CBDS3753	3/8"	1/2"	3"	.187
CBDS5003	1/2"	5/8"	3"	.281

Single End Split



Tool No.	Rod Dia.	Split Length	OAL	Pack Weight
CBSS1251.5	1/8"	3/8"	1-1/2"	.031
CBSS1252	1/8"	3/8"	2"	.044
CBSS1872	3/16"	1/2"	2"	.050
CBSS1873	3/16"	1/2"	3"	.075
CBSS2502	1/4"	1/2"	2"	.063
CBSS2502.5	1/4"	1/2"	2-1/2"	.094
CBSS2503	1/4"	1/2"	3"	.113
CBSS3122.5	5/16"	1/2"	2-1/2"	.150
CBSS3123	5/16"	1/2"	3"	.150
CBSS3752.5	3/8"	1/2"	2-1/2"	.156
CBSS3753	3/8"	1/2"	3"	.187
CBSS5003	1/2"	5/8"	3"	.281

Laser Marking Services

"Laser marking will produce a crisp clear image, leaving your prototypes or long run parts looking more professional and appealing to you customers."

Laser marking is a very cost effective way of permanently marking prototype or long run parts with:

- Part Numbers
- Company Name and/or Logo
- Bar Coding
- Matrix Coding



Standard Coatings

High Performance PVD Tool Coatings



TiN

The general-purpose coating for cutting, forming, injection molding as well as tribiological applications

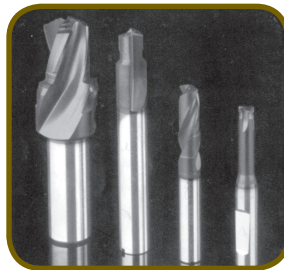
TiCN

Conventional carbon nitride coating:

- For interrupted cutting
- For milling and tapping
- For stamping, punching and forming

TiCN-MP

The tough Multipurpose coating for interrupted cutting, milling, tapping, stamping, forming and hobbing.

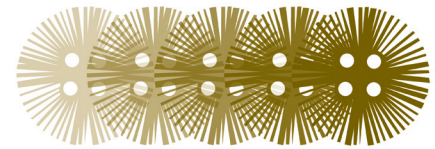


TiAlN

The new universal high performance coating for cutting (drilling, milling, reaming, turning). Also suitable for dry machining.

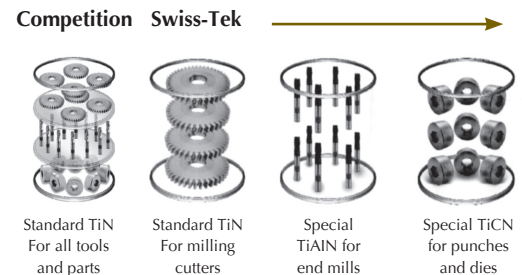
AlTiN

Special high-performance coating for dry high speed machining. AlTiN performance surpasses all conventional coatings when machining cast iron and hardened steel.

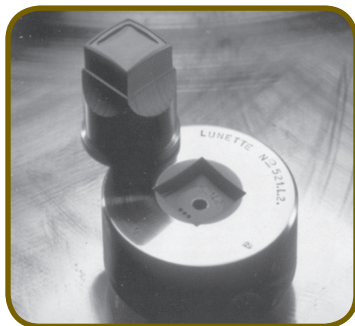


Swiss-Tek Services

With high-volume coating, job coaters apply the same coating to all parts in the batch, regardless of their type or application. Swiss-Tek applies dedicated coatings optimized for each application. Small batch sizes ensure fast turn-around times!



Specialty Coatings



CBC (DLC)

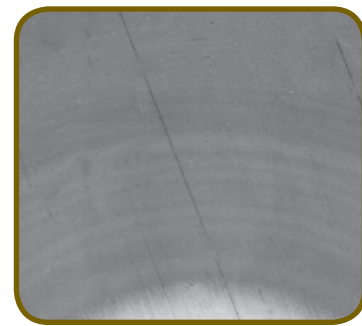
Special gradient coating. Self-lubrication as its own coating or on the top of an appropriate hard coating.

- CBC: carbon-based coating
- DLC: diamond-like carbon



Coating Requirements

- PVD tool coatings are typically applied between 2-4 microns. This may vary according to tool type.
- PVD coatings are applied at a temperature of 450 degrees C/840 degrees F under high vacuum.

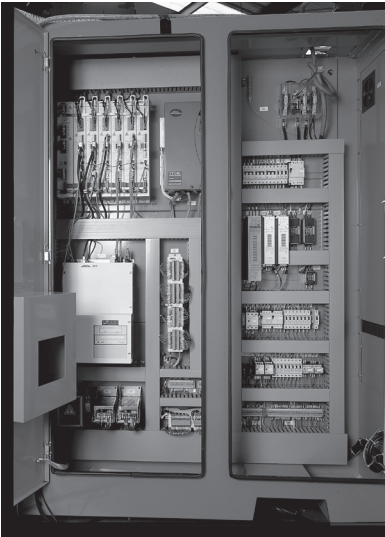


Structure of Gradient Coating

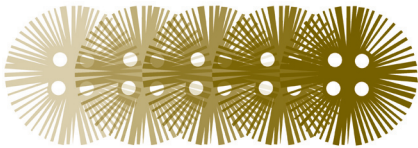
- All carbide and HSS (M-series and T-series) including powder metal types. Tool, die, and mold steels may be coated if they have been properly tempered prior to coating. Other materials are possible, please inquire

Equipment List

- (8) 7 Axis (five hard, two soft) cnc cutter grinders with robotic arm and pallet system capability. (Walters, Anca, Rollomatic)
- Fully functional hand grinding department
- 2 cnc cylindrical grinders
- 7 manual grinders
- Video cutting tool inspection system with 100 x magnification



- Laser marking system
- Milling machine
- Lathe
- Surface grinder
- Winslomatic model HC drill grinder
- Mitutoyo PH350 digital optical comparator
- Anca design cad software



Cutting Tool Formulas

To Find	Using	Formula
SFM = Surface Feet Per Minute	RPM = Revolutions per Minute Dia. = Tool Diameter	$RPM / 3.82 \times Dia = SFM$
RPM = Revolutions per Minute	SFM = Surface Feet per Minute Dia = Tool Diameter	$SFM \times 3.82 / Dia = RPM$
IPM = Inches per Minute	RPM = Revolutions per Minute IPT = Inches per Tooth per Revolutions #FL - # of Cutting Flutes	$RPM / IPT \times \#FL = IPM$
IPT = Inches per Tooth	IPM = Inches per Minutes RPM = Revolutions per Minute #FL - # of Cutting Flutes	$IPM / RPM / \#FL = IPT$
IPR = Inches per Revolution (feed rate)	IPM = Inches per Minute RPM = Revolutions per Minute	$IPM / RPM = IPR (FR)$
MR = Metal Removal Cubic Inches per Minute	ADC = Axial Depth of Cut RDC = Radial Depth of Cut IPM = Inches per Minute	$ADC \times RDC \times IPM = MR$
HP = Horsepower Machine Horsepower Required	IPM = Inches per Minute RDC = Radial Depth of Cut ADC = Axial Depth of Cut PC = Power Constants	$IPM \times RDC \times ADC \times PC = HP$

PC = Power Constraints for HP HP/CL - MR

Technical Information

The Schaefer Brush Warranty

We warrant all of our products to be free from defects in material and workmanship. Our liability is limited to replacing any product proven defective.

Natural Brush Filaments

Bristle

A popular layman's term often used to describe any and all types of filament. Bristle is the hair of a hog and has been used in brushes for centuries, resulting in the popular use of the term. The hair has a natural taper from the foot to the tip end. The tip end has a natural split, which is called the flag.

Horsehair

Hair from the horse's mane which is relatively soft or hair from the tail which is somewhat stiffer.

Tampico Fibre

Vegetable fiber processed from the Mexican Argava Lechuguilla cactus. The natural fiber is absorbent and has a slight abrasiveness. Tampico comes in different grades, colors and finishes.

Palmyra

Processed from the leaf stalks of the India Palmyra palm. Palmyra is absorbent and somewhat stiff.

Synthetic Brush Filaments

A wide variety of man-made synthetics are available and used in brush construction. Synthetic filaments are available in many different shapes, colors and sizes. The more common sizes run from .005" up to .080" in diameter. Listed below are some of the more common materials:

NylonType 6.12

Highest quality, excellent abrasion resistance and bend recovery.

Nylon Type 6.6

Excellent quality, most commonly used, good wet stiffness.

Abrasive Nylon

Nylon impregnated with silicon carbide or aluminum oxide grit.

Polyester

Very durable filament with many of the same characteristics as nylon.

Polypropylene

Lower cost than nylon, inert to most acids and chemicals.

Polystyrene

Economical, durable, flaggable, and low heat resistant.

Wire Brush Filaments

Schaefer Brush specializes in building twisted wire brushes and utilizing wire filaments. We offer a wide selection of wire filled brushes to accomplish any task. Some of the popular wire filaments are listed below:

Stainless Steel

Highly corrosion resistant, durable and preferred where contamination is a concern. The cleaning action of the brush takes place at the tip or end of the filament. If carbon steel wire is used, the particles of carbon can corrode or contaminate the surface being cleaned.

Oil Tempered Steel

Very dark, hard, straight and wear resistance wire with good memory.

Brass

A soft non-corrosive wire less tendency to scratch.

Bronze

A softer non-corrosive wire usually used in non-sparking applications.

Crimp

A wave that is put in wire or synthetic filament. The crimp may vary in height and in number of crimps per inch depending on the specifications we designate.

Flagging

A process of splitting the ends of synthetic filament to product a soft tip or flag similar to that found on natural hogs bristle.

Twisted Wire Brushes

The small symbols represent a cross section of a twisted brush.



Single Spiral/Single Stem (2 wire)

Brush bristles are twisted between two stem wires with a single wire on each side.



Single Spiral/Double Stem (4 wire)

Brush bristles are twisted between four stem wires with two stem wires on each side.



Double Spiral/Double Stem (4 wire)

Brush bristles are twisted between four stem wires with two layers of bristle. Each layer is perpendicular to the other with a single stem wire in each quadrant.

Using Twisted Wire Brushes

When using twisted brushes with wire bristles, rotate the brush as if tightening the brush construction. Most of Schaefer brushes are made to be rotated clockwise when the brush points away from the user.

Safety Equipment & Requirements

Safety goggles or face shields must be worn by operators or personnel in the working area of wire brushes. Appropriate protective clothing and equipment must be used where a possibility of injury exists.

Guards

Keep all machine guards in place.



CAUTION
WHEN USING
BRUSHES WEAR
GOOGLES OR
FACE SHIELDS!

Speeds

Observe all speed restrictions indicated on brushes, containers, labels, or printed literature. "MSFS" means "Maximum Safe Free Speed" (RPM); that is, spinning free with no work applied. For safety purposes, never exceed "MSFS". Consult our office or representative for maximum safe speeds pertaining to your application.

Weights

Listed in approximate pounds per pack (for freight calculations).

Brush Pressure

Remember, it is the tips of the wire filament that do the work. Excessive pressure bends the filament. This results in excessive flexing, which causes premature breakage and reduces brush life.



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00005	12	61	00554-6	1	8	00934-1	1	7	01045	10	44	01150	10	49
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00008	12	61	00644-12	1	8	00936-1	1	7	01047	10	44	01156	10	49
00009	12	61	00645-12	1	8	00937-1	1	7	01048	10	44	01157	10	49
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00204	12	58	00648-12	1	8	00945-1	1	8	01062	10	49	01163	10	49
00205	12	58	00649-12	1	8	00946-1	1	8	01063	10	49	01164	10	49
00208	12	58	00650-6	1	8	00947-1	1	8	01064	10	49	01165	10	49
00209	12	58	00651-6	1	8	00948-1	1	8	01065	10	49	01166	10	49
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00223	12	57	00653-6	1	8	00950-1	1	8	01067	10	49	01168	10	49
00226	12	57	00654-6	1	8	00951-1	1	8	01068	10	49	01169	10	49
00228	12	57	00691	10	46	00952-1	1	8	01069	10	49	01170	10	49
00250	1	11	00692	10	46	00953-1	1	8	01070	10	49	01175	10	49
00251	1	11	00693	10	46	00954-1	1	8	01075	10	49	01176	10	49
00252	1	11	00694	10	46	00963-6	1	10	01076	10	49	01177	10	49
00253	1	11	00743-12	1	8	00964-6	1	10	01077	10	49	01178	10	49
00254	1	11	00744-12	1	8	00965-6	1	10	01078	10	49	01200	10	51
00255	1	11	00745-12	1	8	00966-6	1	10	01082	10	49	01201	10	51
00258	1	11	00746-12	1	8	00967-6	1	10	01083	10	49	01202	10	51
00276	1	11	00747-12	1	8	00968-6	1	10	01084	10	49	01203	10	51
00278	1	11	00748-12	1	8	00969-6	1	10	01085	10	49	01204	10	51
00279	1	11	00749-12	1	8	00970-6	1	10	01086	10	49	01205	10	51
00280	1	11	00750-6	1	8	00974	1	10	01087	10	49	01206	10	51
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00328-12	1	7	00752-6	1	8	00986	1	10	01089	10	49	01208	10	51
00329-12	1	7	00753-6	1	8	00987	1	10	01090	10	49	01209	10	51
00330-12	1	7	00754-6	1	8	00988	1	10	01095	10	49	01210	10	51
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00350	1	11	00825-6	1	7	00990	1	10	01097	10	49	01212	10	51
00351	1	11	00826-6	1	7	009951	1	7	01098	10	49	01213	10	51
00352	1	11	00827-6	1	7	009952	1	7	01102	10	49	01214	10	51
00353	1	11	00828-6	1	7	009953	1	7	01103	10	49	01215	10	51
00354	1	11	00829-6	1	7	009954	1	7	01104	10	49	01216	10	51
00355	1	11	00830-6	1	7	009955	1	7	01105	10	49	01217	10	51
00358	1	11	00831-6	1	7	009956	1	7	01106	10	49	01218	10	51
00376	1	11	00832-6	1	7	00996-100	1	10	01107	10	49	01219	10	51
00378	1	11	00833-6	1	7	00996-12	1	10	01108	10	49	01220	10	51
00379	1	11	00834-6	1	7	00998-100	1	10	01109	10	49	01221	10	51
00380	1	11	00835-6	1	7	00998-12	1	10	01110	10	49	01222	10	51
00402	3	17	00836-6	1	7	01000	10	44	01115	10	49	01223	10	51
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00405	3	17	00843-12	1	8	01002	10	44	01117	10	49	01225	10	51
00406	3	17	00844-12	1	8	01003	10	44	01118	10	49	01226	10	51
00408	3	17	00845-12	1	8	01004	10	44	01122	10	49	01227	10	51
00438	3	17	00846-12	1	8	01005	10	44	01123	10	49	01228	10	51
00439	3	17	00847-12	1	8	01006	10	44	01124	10	49	01229	10	51
00440	3	17	00848-12	1	8	01007	10	44	01125	10	49	01230	10	51
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00448	3	17	00852-6	1	8	01020	10	44	01129	10	49	01234	10	51
00449	3	17	00853-6	1	8	01021	10	44	01130	10	49	01235	10	51
00450	3	17	00854-6	1	8	01022	10	44	01135	10	49	01236	10	51
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00545-12	1	8	00925-1	1	7	01025	10	44	01138	10	49	01239	10	51
00546-12	1	8	00926-1	1	7	01026	10	44	01142	10	49	01240	10	51
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01247	10	51	01445	10	50	01663	10	50	01808	10	53	01886	10	52
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01249	10	51	01451	10	50	01669	10	50	01811	10	53	01888	10	52
01250	10	51	01452	10	50	01670	10	50	01812	10	53	01889	10	52
01251	10	51	01457	10	50	01675	10	50	01814	10	53	01890	10	52
01252	10	51	01458	10	50	01676	10	50	01815	10	53	01891	10	52
01253	10	51	01463	10	50	01685	10	50	01817	10	53	01902	10	53
01254	10	51	01464	10	50	01686	10	50	01818	10	53	01905	10	53
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01257	10	51	01475	10	50	01702	10	49	01822	10	53	01914	10	53
01258	10	51	01476	10	50	01703	10	49	01823	10	53	01917	10	53
01259	10	51	01485	10	50	01704	10	49	01825	10	53	01921	10	53
01260	10	51	01486	10	50	01705	10	49	01826	10	53	01925	10	53
01261	10	51	01495	10	50	01706	10	49	01827	10	53	01930	10	53
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01264	10	51	01504	10	50	01709	10	49	01832	10	53	01942	10	53
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01268	10	51	01514	10	50	01717	10	49	01838	10	53	01957	10	52
01269	10	51	01520	10	50	01718	10	49	01839	10	53	01960	10	52
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01273	10	51	01533	10	50	01725	10	49	01844	10	53	01972	10	52
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01276	10	51	01540	10	50	01728	10	49	01848	10	53	01981	10	52
01277	10	51	01545	10	50	01729	10	49	01850	10	52	01984	10	52
01278	10	51	01546	10	50	01730	10	49	01851	10	52	01988	10	52
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01280	10	51	01552	10	50	01736	10	49	01853	10	52	02023	12	58
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01285	10	51	01569	10	50	01744	10	49	01858	10	52	02038	12	58
01286	10	51	01570	10	50	01745	10	49	01859	10	52	02040	12	58
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01404	10	50	01622	10	50	01766	10	49	01873	10	52	02125	10	49
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01412	10	50	01633	10	50	01769	10	49	01876	10	52	02128	10	49
01414	10	50	01634	10	50	01770	10	49	01877	10	52	02129	10	49
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01422	10	50	01640	10	50	01776	10	49	01879	10	52	02131	10	49
01426	10	50	01645	10	50	01777	10	49	01880	10	52	02132	10	49
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02206	10	48	03631	12	59	09745-12	1	9	14458	10	45	24102	12	59
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02223	10	49	06524	12	57	10001	11	56	14468	2	15	24132	12	59
02224	10	49	06528	12	57	10002	11	56	14476	2	15	24134	12	59
02225	10	49	06530	12	57	10003	11	56	14477	2	15	24221	12	60
02226	10	49	06532	12	57	10004	11	56	14504	10	43	24222	12	60
02227	10	49	06534	12	57	10007	11	56	14506	10	44	24228	12	60
02228	10	49	06536	12	57	10033	11	56	14509	10	44	24232	12	60
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02324	10	49	06624	12	57	13003	7	25	14596	2	16	25095	11	56
02325	10	49	06628	12	57	13005	7	26	14596	3	18	250-MD-HHS	16	86
02326	10	49	06630	12	57	13006	7	26	14602	10	45	250-ML-HHS	16	86
02327	10	49	06634	12	57	13008	7	26	14604	10	45	25301	13	62
02328	10	49	06636	12	57	13010	7	25	14606	10	45	25302	13	62
02329	10	49	06640	12	57	13041	7	25	14608	10	45	25404	13	62
02330	10	49	06662	12	57	13042	7	25	14610	10	45	25405	13	62
02331	10	49	06670	12	57	13044	7	25	14612	10	45	25406	13	62
02332	10	49	06694	12	59	13382	2	14	14614	10	45	25407	13	62
02333	10	49	06695	12	59	13384	2	14	14616	10	45	27668	13	62
02334	10	49	06696	12	59	13386	2	14	14618	10	45	27698	13	62
02335	10	49	06697	12	59	13390	2	14	14642	10	45	27704	6	23
02336	10	49	06698	12	59	13393	2	14	14644	10	45	27709	6	23
03004	12	58	06699	12	59	13394	2	14	14646	10	45	27712	6	23
03007	12	58	08543-12	1	9	13395	2	14	14648	10	45	27740	6	23
03008	12	58	08544-12	1	9	13417	2	15	14650	10	45	27780	6	23
03009	12	58	08545-12	1	9	13418	2	15	14652	10	45	27790	6	23
03040	12	58	08546-12	1	9	13419	2	15	14654	10	45	27810	6	23
03050	12	58	08547-12	1	9	14402	10	45	14656	10	45	28302	6	24
03052	12	58	08548-12	1	9	14404	10	45	14658	10	45	28303	6	24
03060	12	58	08549-12	1	9	14406	10	45	22021	12	61	30328	7	27
03080	12	58	08743-12	1	9	14408	10	45	22034	12	61	30438	7	27
03121	12	60	08744-12	1	9	14410	10	45	23006	12	60	30548	7	27
03131	12	60	08745-12	1	9	14412	10	45	23014	12	60	30599	7	27
03221	12	60	08746-12	1	9	14414	10	45	23017	12	60	30600	7	27
03231	12	60	08747-12	1	9	14416	10	45	23025	12	60	30658	7	27
03318	12	60	08748-12	1	9	14418	10	45	23027	12	60	30660	7	26
03321	12	60	08749-12	1	9	14442	10	45	24005	12	60	30663	7	26
03331	12	60	09544-12	1	9	14444	10	45	24007	12	60	30664	7	26
03418	12	60	09545-12	1	9	14446	10	45	24013	12	60	30666	7	26



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31448	7	27	33415	4	19	36512	4	19	42939	2	13	43503	10	47
31458	7	27	33416	4	19	36531	4	19	42945	2	13	43504	10	47
32045	12	61	33606	4	19	36532	4	19	42950	2	13	43507	10	47
32047	12	61	33607	4	19	36533	4	19	42956	2	13	43510	10	47
32065	12	61	33608	4	19	36534	4	19	42960	2	13	43513	10	47
32066	12	61	33609	4	19	36535	4	19	42964	2	13	43516	10	47
32067	12	61	33610	4	19	36536	4	19	42974	2	13	43519	10	47
32146	12	61	33611	4	19	36537	4	19	42982	2	13	43522	10	47
32155	12	61	33612	4	19	37309	5	21	43012	2	14	43525	10	47
32157	12	61	33626	4	19	37310	5	21	43014	2	14	43528	10	47
32209	12	61	33627	4	19	37320	5	21	43016	2	14	43531	10	47
32213	12	61	33628	4	19	37410	5	21	43018	2	14	43533	10	47
32221	12	61	33629	4	19	37420	5	21	43022	2	14	43536	2	13
32223	12	61	33630	4	19	40006	5	21	43024	2	14	43539	2	13
32226	12	61	33631	4	19	400066	5	21	43026	2	14	43542	2	13
32243	12	61	33632	4	19	40008	5	21	43028	2	14	43545	2	13
32244	12	61	33646	4	19	400086	5	21	43032	2	14	43548	2	13
32245	12	61	33647	4	19	40010	5	21	43034	2	14	43551	2	13
32246	12	61	33648	4	19	400106	5	21	43036	2	14	43553	2	13
32250	12	61	33652	4	19	40012	5	21	43206	2	12	43556	2	13
32258	12	61	36048	7	26	400126	5	21	43208	2	12	43559	2	13
32292	12	61	36060	7	26	40014	5	21	43212	2	12	43562	2	13
32296	12	61	36072	7	26	400146	5	21	43214	2	12	43565	2	13
32342	12	61	36112	7	26	40306	5	21	43216	2	12	43568	2	13
32352	12	61	36114	7	26	403066	5	21	43218	2	12	43571	2	13
32355	12	61	36114-4	7	26	40308	5	21	43222	2	12	43573	2	13
32357	12	61	36114S	7	26	403086	5	21	43224	2	12	43576	2	13
32402	12	61	36114S-4	7	26	40310	5	21	43226	2	12	43579	2	13
32406	12	61	36126	4	20	403106	5	21	43228	2	12	43602	10	47
32412	12	61	36128	4	20	40312	5	21	43232	2	12	43603	10	47
32416	12	61	36133	4	20	403126	5	21	43234	2	12	43604	10	47
33066	4	19	36134	4	20	40314	5	21	43236	2	12	43607	10	47
33076	4	19	36143	4	20	403146	5	21	43238	2	12	43610	10	47
33086	4	19	36144	4	20	40606	5	21	43282	2	12	43613	10	47
33096	4	19	36166	4	20	406066	5	21	43283	2	12	43616	10	47
33106	4	19	36176	4	20	40608	5	21	43284	2	12	43619	10	47
33116	4	19	36186	4	20	406086	5	21	43285	2	12	43622	10	47
33126	4	19	36196	4	20	40610	5	21	43286	2	12	43625	10	47
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33176	4	20	36216	4	20	40612	5	21	43289	2	12	43631	10	47
33186	4	20	36226	4	20	406126	5	21	43290	2	12	43633	10	47
33196	4	20	36256	4	20	40614	5	21	43306	2	12	43636	2	14
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33216	4	20	36258	4	20	41218	2	15	43312	2	12	43642	2	14
33226	4	20	36259	4	20	41228	2	15	43314	2	12	43645	2	14
33256	4	20	36260	4	20	41238	2	15	43316	2	12	43648	2	14
33257	4	20	36270	4	20	41248	2	15	43318	2	12	43651	2	14
33258	4	20	36282	4	20	42502	10	45	43322	2	12	43653	2	14
33259	4	20	36284	4	20	42504	10	45	43324	2	12	43656	2	14
33260	4	20	36286	4	20	42506	10	45	43326	2	12	43658	2	14
33266	4	19	36350	7	27	42508	10	45	43328	2	12	43660	2	14
33270	4	20	36351	7	27	42510	10	45	43332	2	12	43662	2	14
33277	4	19	36352	7	27	42514	10	45	43334	2	12	43664	2	14
33282	4	20	36406	4	19	42518	10	45	43336	2	12	43702	10	47
33284	4	20	36407	4	19	42522	10	45	43338	2	12	43703	10	47
33286	4	20	36408	4	19	42530	10	45	43404	10	46	43704	10	47
33288	4	19	36409	4	19	42602	10	45	43405	10	46	43707	10	47
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33310	4	19	36411	4	19	42606	10	45	43407	10	46	43713	10	47
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33312	4	19	36506	4	19	42610	10	45	43411	10	46	43719	10	47
33410	4	19	36507	4	19	42614	10	45	43482	10	48	43722	10	47
33411	4	19	36508	4	19	42618	10	45	43484	10	48	43725	10	47
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33413	4	19	36510	4	19	42630	10	45	43488	10	48	43731	10	47



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43736	2	14	66370	6	22	76254	2	16	91401R	8	34	CBDS2502	16	90
43739	2	14	66373	6	22	76255	2	16	91402	8	34	CBDS2502.5	16	90
43742	2	14	66377	6	22	76256	2	16	91405	8	34	CBDS2503	16	90
43745	2	14	66408	6	22	76257	2	16	91406	8	34	CBDS3122.5	16	90
43748	2	14	66412	6	22	76258	2	16	91407	8	34	CBDS3123	16	90
43751	2	14	66414	6	22	76324	2	16	91407	8	34	CBDS3753	16	90
43753	2	14	66417	6	22	76324	3	18	91408	8	34	CBDS5003	16	90
43756	2	14	66418	6	22	76524	2	16	91408	8	34	CBR10012	16	90
43758	2	14	66431	6	22	76524	3	18	91409	8	34	CBR1004	16	90
43760	2	14	66473	6	22	80011	13	63	91409	8	34	CBR1006	16	90
43762	2	14	66477	6	22	80012	13	63	91460	8	34	CBR1251.5	16	90
43764	2	14	67118	11	55	80265	13	63	91461L	8	34	CBR12512	16	90
43802	10	46	67191	11	55	81002	13	62	91461R	8	34	CBR1252	16	90
43803	10	46	67192	11	55	81003	13	62	91462	8	34	CBR1253	16	90
43804	10	46	67193	11	55	81005	13	62	91465	8	34	CBR1254	16	90
43807	10	46	67194	11	55	81009	13	62	91466	8	34	CBR1256	16	90
43810	10	46	67195	11	55	81010	13	62	93482	10	48	CBR18712	16	90
43813	10	46	67196	11	55	81018	13	62	93484	10	48	CBR1872	16	90
43816	10	46	67197	11	55	81020	13	62	93486	10	48	CBR1872.5	16	90
43819	10	46	67240	11	55	81025	13	62	93488	10	48	CBR1873	16	90
43822	10	46	67241	11	55	81045	13	62	93490	10	48	CBR1874	16	90
43825	10	46	67242	11	55	81065	13	63	93491	10	48	CBR1876	16	90
43828	10	46	67243	11	55	81227	13	63	93492	10	48	CBR25012	16	90
43831	10	46	67244	11	55	81228	13	63	93502	10	47	CBR2502	16	90
43833	10	46	67245	11	55	81233	13	63	93503	10	47	CBR2502.5	16	90
43836	2	13	67261	11	55	81234	13	63	93504	10	47	CBR2503	16	90
43839	2	13	67262	11	55	81246	13	63	93507	10	47	CBR2504	16	90
43842	2	13	67263	11	55	81248	13	63	93510	10	47	CBR2506	16	90
43845	2	13	67264	11	55	81461	13	63	93513	10	47	CBR31212	16	90
43848	2	13	67265	11	55	81616	11	56	93516	10	47	CBR3122.5	16	90
43851	2	13	67266	11	55	81616	13	63	93519	10	47	CBR3123	16	90
43853	2	13	67302	11	56	81617	11	56	93522	10	47	CBR3124	16	90
43856	2	13	67304	11	56	81617	13	63	93525	10	47	CBR3126	16	90
43859	2	13	67306	11	56	90213	4	20	93528	10	47	CBR37512	16	90
43862	2	13	67308	11	56	90214	4	20	93531	10	47	CBR3752.5	16	90
43865	2	13	67310	11	56	90215	4	20	93533	10	47	CBR3753	16	90
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43871	2	13	68300	13	63	90426	6	23	93603	10	47	CBR3754	16	90
43873	2	13	69015	7	28	90466	6	24	93604	10	47	CBR3756	16	90
43876	2	13	69017	7	28	90484	6	23	93607	10	47	CBR43712	16	90
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45214	2	13	69026	7	28	90488	6	23	93613	10	47	CBR4373	16	90
45216	2	13	69046	7	27	90510	6	22	93616	10	47	CBR4374	16	90
45218	2	13	69047	7	27	90514	6	22	93619	10	47	CBR4376	16	90
45222	2	13	69055	7	28	90516	6	22	93622	10	47	CBR50012	16	90
45224	2	13	69061	7	28	90517	6	23	93625	10	47	CBR5003	16	90
45226	2	13	69063	7	28	90519	6	23	93628	10	47	CBR5004	16	90
45228	2	13	69075	7	28	90530	6	22	93631	10	47	CBR5006	16	90
45232	2	13	76020	3	18	90534	6	22	93633	10	47	CBR56212	16	90
45234	2	13	76026	3	18	90536	6	22	93702	10	47	CBR62512	16	90
45236	2	13	76030	3	18	90537	6	23	93703	10	47	CBR6253.5	16	90
46302	2	15	76200	2	16	90539	6	23	93704	10	47	CBR6254	16	90
46304	2	15	76210	2	16	91300	8	34	93707	10	47	CBR6256	16	90
62034	6	24	76220	2	16	91301	8	34	93710	10	47	CBR75012	16	90
62035	6	24	76221	2	16	91302	8	34	93713	10	47	CBR7504	16	90
65341	13	62	76221	3	18	91303	8	34	93716	10	47	CBR7506	16	90
66151	6	24	76232	2	16	91304	8	34	93719	10	47	CBSS1251.5	16	90
66152	6	24	76233	2	16	91305	8	34	93722	10	47	CBSS1252	16	90
66190	6	24	76235	2	16	91310	8	34	93725	10	47	CBSS1872	16	90
66195	6	24	76236	2	16	91311	8	34	93728	10	47	CBSS1873	16	90
66308	6	22	76242	2	16	91312	8	34	93731	10	47	CBSS2502	16	90
66312	6	22	76243	2	16	91314	8	34	93733	10	47	CBSS2502.5	16	90
66314	6	22	76245	2	16	91330	8	34	CBDS1251.5	16	90	CBSS2503	16	90
66317	6	22	76246	2	16	91332	8	34	CBDS1252	16	90	CBSS3122.5	16	90
66318	6	22	76252	2	16	91400	8	34	CBDS1872	16	90	CBSS3123	16	90

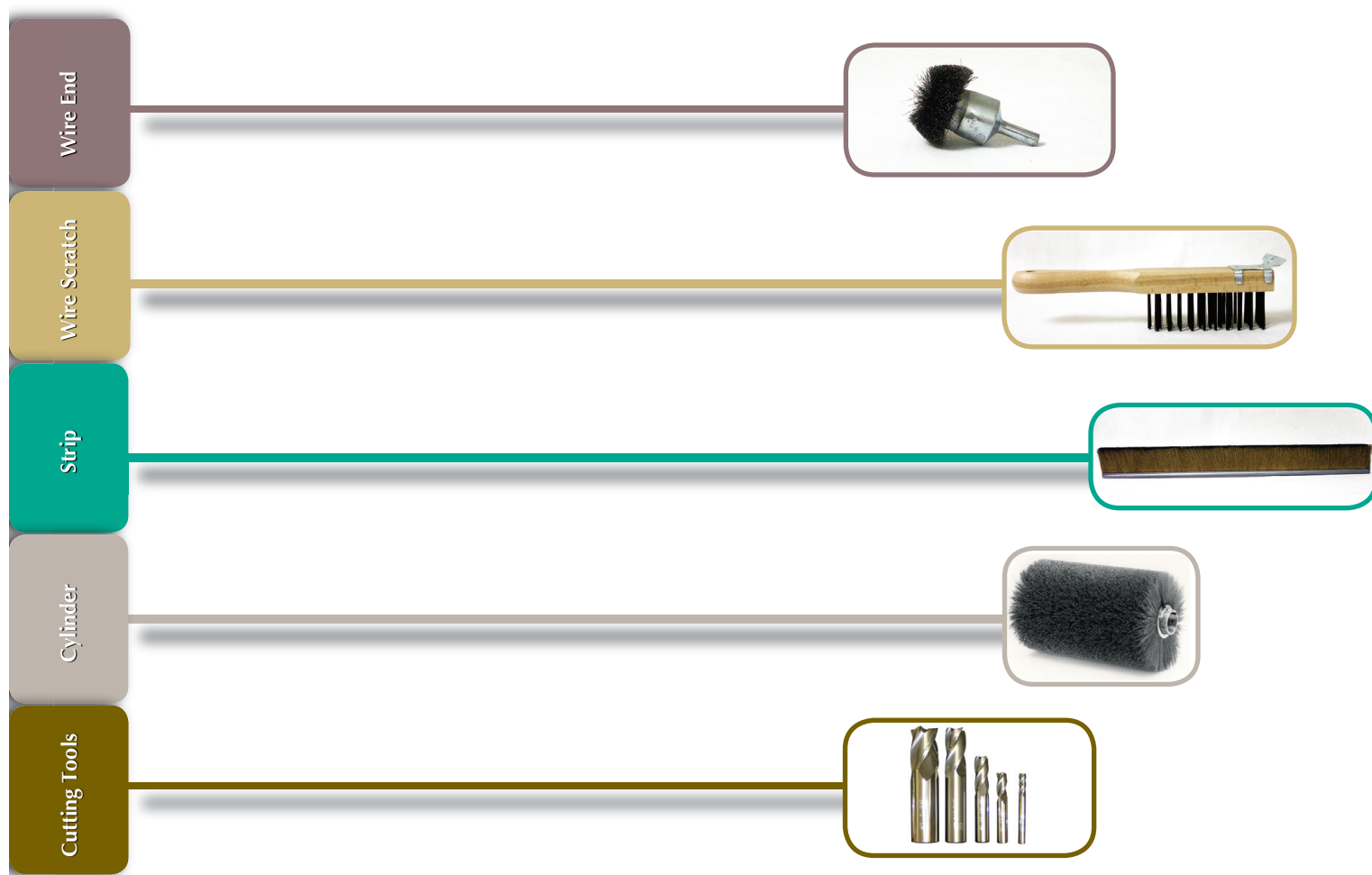


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CBSS5003	16	90	E3124	16	82	MA-187-S	16	86	MD-750-AL	16	89	ML-625-AL	16	89
CR250	16	84	E3126	16	82	MA-250	16	87	MD-750-L6	16	88	ML-625-L6	16	88
CR375	16	84	E312S	16	81	MA-250-B	16	86	ME-125-S	16	86	ML-750	16	87
CR5001	16	84	E312X4	16	82	MA-250-L6	16	88	ME-187-S	16	86	ML-750-AL	16	89
CR5001125	16	84	E328S	16	81	MA-250-S	16	85	ME-250	16	87	ML-750-L6	16	88
CR5001375	16	84	E343S	16	81	MA-250S-AL	16	89	ME-250-B	16	86	MR1.125	16	89
CR5001625	16	84	E359S	16	81	MA-375	16	87	ME-250-L6	16	88	MR-1.125	16	87
CR625250	16	84	E3753	16	82	MA-375-AL	16	89	ME-250-S	16	85	MR-125-S	16	86
CR7501875	16	84	E3754	16	82	MA-375-L6	16	88	ME-250S-AL	16	89	MR-187-S	16	86
CR750250	16	84	E3756	16	82	MA-500	16	87	ME-375	16	87	MR-250	16	87
D062	16	81	E3758	16	82	MA-500-AL	16	89	ME-375-AL	16	89	MR-250-B	16	86
D093	16	81	E375S	16	81	MA-500-L6	16	88	ME-375-L6	16	88	MR-250-L6	16	88
D125	16	81	E375VF4	16	83	MA-625	16	87	ME-500	16	87	MR-250-S	16	85
D156	16	81	E375X4	16	82	MA-625-AL	16	89	ME-500-AL	16	89	MR-250S-AL	16	89
D187	16	81	E390S	16	81	MA-625-L6	16	88	ME-500-L6	16	88	MR-375	16	87
D218	16	81	E406S	16	81	MA-750	16	87	ME-625	16	87	MR-375-AL	16	89
D250	16	81	E421S	16	81	MA-750-AL	16	89	ME-625-AL	16	89	MR-375-L6	16	88
D312	16	81	E437L4	16	82	MA-750-L6	16	88	ME-625-L6	16	88	MR-500	16	87
D375	16	81	E437S	16	81	MB-1000	16	87	ME-750	16	87	MR-500-AL	16	89
D437	16	81	E437X6	16	82	MB-1000-L6	16	88	ME-750-AL	16	89	MR-500-L6	16	88
D500	16	81	E453S	16	81	MB-125-S	16	86	ME-750-L6	16	88	MR-625	16	87
E032S	16	81	E468S	16	81	MB-187-S	16	86	MF-125-S	16	86	MR-625-AL	16	89
E046S	16	81	E484S	16	81	MB-250	16	87	MF-187-S	16	86	MR-625-L6	16	88
E062S	16	81	E50010	16	82	MB-250-B	16	86	MF-250	16	87	MR-750	16	87
E078S	16	81	E5003	16	82	MB-250-L6	16	88	MF-250-L6	16	88	MR-750A	16	87
E093S	16	81	E5004	16	82	MB-250-S	16	85	MF-250-S	16	85	MR-750-AL	16	89
E10010	16	82	E5006	16	82	MB-250S-AL	16	89	MF-500	16	87	MR-750-L6	16	88
E10012	16	82	E5008	16	82	MB-375	16	87	MF-500-L6	16	88	MT-125-S	16	86
E1005	16	82	E500L6	16	82	MB-375-AL	16	89	MF-625	16	87	MT-187-S	16	86
E1006	16	82	E500S	16	81	MB-375-L6	16	88	MF-625-L6	16	88	MT-250	16	87
E1008	16	82	E500VF4	16	83	MB-500	16	87	MF-750	16	87	MT-250-B	16	86
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E100S	16	81	E500X6	16	82	MB-500-L6	16	88	MG-125-S	16	86	MT-250-S	16	85
E100VF4	16	83	E562S	16	81	MB-625	16	87	MG-187-S	16	86	MT-375	16	87
E100X6	16	82	E62510	16	82	MB-625-AL	16	89	MG-250	16	87	MT-375-L6	16	88
E100XL6	16	82	E62512	16	82	MB-625-L6	16	88	MG-250-B	16	86	MT-500	16	87
E100XX6	16	82	E6254	16	82	MB-750	16	87	MG-250-S	16	85	MT-500-L6	16	88
E109S	16	81	E6255	16	82	MB-750-AL	16	89	MG-375	16	87	MT-625	16	87
E1252	16	82	E6258	16	82	MB-750-L6	16	88	MG-500	16	87	MT-625-L6	16	88
E1253	16	82	E625L6	16	82	MC-125-S	16	86	MG-625	16	87	MT-750	16	87
E1254	16	82	E625S	16	81	MC-187-S	16	86	MG-750	16	87	MT-750-L6	16	88
E1256	16	82	E625VF4	16	83	MC-250	16	87	MI-1000	16	87	RC100F4	16	83
E125L	16	82	E625X6	16	82	MC-250-B	16	86	MI-125-S	16	86	RC250F4	16	83
E125L3	16	82	E7056	16	82	MC-250-S	16	85	MI-187-S	16	86	RC312F4	16	83
E125S	16	81	E75010	16	82	MC-375	16	87	MI-250	16	87	RC375F4	16	83
E140S	16	81	E75012	16	82	MC-500	16	87	MI-250-B	16	86	RC500F4	16	83
E156S	16	81	E7505	16	82	MC-625	16	87	MI-250-S	16	85	RC625F4	16	83
E171S	16	81	E7508	16	82	MC-750	16	87	MI-375	16	87	RC750F4	16	83
E1873	16	82	E750L6	16	82	MD-125-S	16	86	MI-500	16	87	RF100F4	16	83
E1874	16	82	E750S	16	81	MD-187-S	16	86	MI-625	16	87	RF187F3	16	83
E1876	16	82	E750VF4	16	83	MD-250	16	87	MI-750	16	87	RF250F4	16	83
E187L	16	82	E750X6	16	82	MD-250-B	16	86	ML-1000-10	16	87	RF312F4	16	83
E187S	16	81	E750XX6	16	82	MD-250-L6	16	88	ML-1000-20	16	87	RF375F4	16	83
E203S	16	81	E875S	16	81	MD-250-S	16	85	ML-1000-FL-5	16	89	RF500F4	16	83
E218S	16	81	H100	16	81	MD-250S-AL	16	89	ML-1000-FL-10	16	89	RF625F4	16	83
E234S	16	81	H125	16	81	MD-375	16	87	ML-250	16	87	RF750F4	16	83
E2503	16	82	H187	16	81	MD-375-AL	16	89	ML-250-L6	16	88	RMFBT250RD03	8	34
E2504	16	82	H250	16	81	MD-375-L6	16	88	ML-250S-AL	16	89	RMFSS#08SS02	8	34
E2506	16	82	H312	16	81	MD-500	16	87	ML-375	16	87	RMFWA250LK	8	34
E250S	16	81	H375	16	81	MD-500-AL	16	89	ML-375-AL	16	89			
E250X4	16	82	H500	16	81	MD-500-L6	16	88	ML-375-L6	16	88			
E265S	16	81	H625	16	81	MD-625	16	87	ML-500	16	87			
E281S	16	81	H750	16	81	MD-625-AL	16	89	ML-500-AL	16	89			



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