

Providing Solutions Worldwide



The Weiler tradition of quality and commitment to excellence dates back to 1898 when my great-grandfather began manufacturing brushes for the jewelry industry in Pforzheim, Germany. This tradition has fostered a continued commitment to superior quality and service, teamwork, innovation and continuous improvement, enabling Weiler Corporation to become a leading global manufacturer of surface conditioning solutions.

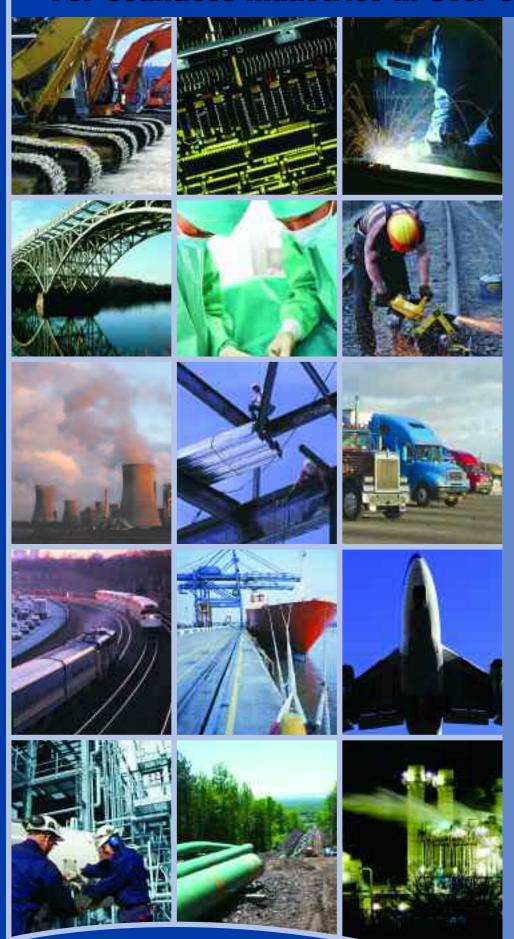
At Weiler Corporation, we believe that our ability to develop and manufacture compelling product and service solutions is critical for continued success. We make it a priority to work closely with our end-user customers, observe their processes and understand their challenges so we can develop improved tools to solve their most difficult deburring, cleaning or surface finishing problems.

This Solutions Resource Guide not only has information on our products, but also on how to safely and effectively apply our solutions. All Weiler co-workers are committed to providing our end user-customers with the most cost-effective solution for their specific application needs. We support this commitment with an experienced and responsive Sales, Customer Service and Application Engineering team, and a 100% satisfaction guarantee.

Contact Customer Service at (800) 835-9999 or Application Engineering at (888) 299-APPS (2777) for assistance in selecting the right product for your application. You can also visit us on-line at www.weilercorp.com where you will find additional product and technical information, case studies, downloadable literature and newly added products. All of us at Weiler, along with our network of distributor-partners, stand ready to provide you with world-class service and value-added solutions that will help you remain competitive in a global market.

Chris Weiler, President/C.E.O.

For Countless Industries In Over 50 Countries



- Weiler is committed to manufacturing high quality surface conditioning products, including Power Brushes, Nylox® Nylon Abrasive Filament Brushes, Abrasives and Maintenance Products for a wide variety of applications in industries, such as:
 - **Electronics**
 - Railway
- Steel
- Aircraft
- Construction
- Painting
- Food Processing
- Pipeline
- Transportation
- Heavy Equipment
- Welding
- Pharmaceutical
- Nuclear
- Trucking
- Ship Building
- Petroleum
- **Farming**
- Automotive
- Biomedical
- Aerospace
- Building Products
- Recreational Vehicles
- Agricultural Equipment
- Machining
- Fabricating



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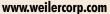
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How To Order

Weiler has an extensive network of local distributors throughout the country to assist you with product recommendations and support. To place an order or locate a distributor in your area, contact our Customer Service Team at 800-835-9999. For custom products, our Application Engineering Department will work with you to design and manufacture the best product <u>and</u> recommend the best process for your specific requirements. Call 888-299-APPS (2777).

You can also check out our website which features a Distributor Locator! Visit us at: www.weilercorp.com for the distributor in your area; electronic catalog; available literature, videos, technical papers; MSDS sheets; new product information; product cross reference and more!







info@weilercorp.com



New Products

Display Packaged Product - See pages 170-172

In order to generate impulse purchases, a variety of our most popular items are available in highly visible display packaging. In addition to our most popular wire brushes and coated abrasive flap discs, Weiler's Display Packaged Product offering includes mini-grinder and air tool/drill accessory kits; countertop displays for multipurpose chip & oil brushes and scratch brushes; a sweeping center which features a free wire rack and header; and a display for our new Pro-Flex™ Sweeps.

Power Brushes

Roughneck® Jr. 4-1/2" Stringer Bead Wheels - See page 27

A line of weld cleaning brushes designed specifically for the most popular size of small angle grinder. These new wheels feature a high knot count and short trim length to deliver the greatest cleaning action and longest life on this tool.

Dually[™] Weld Cleaning Brushes - See page 28

Featuring a unique dual-hex nut which simplifies periodic flipping of the brush and maintains full use of the tool guard, these "Flip 'N Fast" wheels are the most costeffective cleaning tools for multi-pass welding applications.

High Filament Retention (HFR™) Brushes - See page 28Featuring a patent-pending film coating which minimizes wire loss when used within the usage guidelines established by the Electrical Power Research Institute, the Weiler HFR stringer bead wheel is the first choice for hot-pass weld cleaning within Foreign Material Exclusion areas of nuclear power plants.

Nylox[®] Nylon Abrasive Filament Brushes

Expanded Burr-Rx® Product Offering - See pages 78-80

With the addition of power tube brushes, small diameter wheels and Bore-Rx™ internal brushing tools, Weiler now offers a comprehensive line of specialty nylon abrasive filament deburring tools featuring advanced ceramic grain technology.

FME Solutions Program - See pages 92-93

Developed for cleaning and surface preparation within Foreign Material Exclusion areas of nuclear power plants, this tooling system features a full range of products manufactured with our Black Nylox ceramic grain filament to provide an alternative to wire brushes for routine maintenance and repair activities.

Abrasives

Vortec Pro" Expanded Resin Bonded Abrasives Line - See pages 120-123 Now including:

- 12" & 14" large cutting wheels and product for walk-behind machines
- Full line of Aluminum Oxide and Silicon Carbide products for general purpose cutting on metal and stone
- 20mm options for popular 12" & 14" wheels for portable gas saws

Maintenance

Green Works[™] Product Line - See pages 135-136

Environmentally-friendly maintenance products made from recycled or sustainable materials.

Pro-Flex[™] Sweeps - See page 137

Features a virtually unbreakable connector; fast, 1 minute assembly with no tools; comfort grip handle; and is packaged ready to display.















Our Commitment To The Environment

Our Logo May Be Red, White & Blue, but Weiler is Committed To Going GREEN!

Weiler Corporation is dedicated to sustainable business development. We recognize the importance of protecting the environment through the use of recyclable materials, elimination of waste, and the efficient use of resources. We encourage the combined efforts of protection, conservation and recycling to safeguard our natural resources.

As part of our commitment to a sustainable future, Weiler has implemented a variety of programs and initiatives.

Heat Reclamation

Our air compressor rooms have reclamation systems for processing waste heat, which is used to help heat our buildings in the winter.



Reducing Energy Use

Throughout much of our facility, we have replaced existing lighting with high efficiency fluorescent lighting and motion sensors. In 2008, Weiler utilized a green design for the construction of a 21,000 sq. ft. office building addition which included a demand control ventilation system, energy star appliances, highly efficient motors in the mechanical HVAC equipment and exterior lighting fixtures controlled by a time clock or photocell.

Environment

Our co-workers are committed to our pledge to protect the environment. The Weiler team has been participating in the Adopt-a-Highway and Keep America Beautiful programs since 1991. A large portion of our 100 acres is a preserved natural habitat for plants and wildlife. Environmental landscaping features a man-made pond with reoxygenating fountain, footbridge, waterfall, walking paths, and plants. Algae and weeds in our pond are controlled using aeration and grass carp, no chemicals. In the winter, we use organic antiskid material and only minimum ice melt. We have also upgraded our outside lighting to meet Dark Skies Lighting requirements (visual pollution).



Printed on Recycled Paper



Water Conservation

We utilize pressure-assist, low consumption toilets and water restrictors, and automatic sensor controls on faucets.

Recycling

Weiler has been recycling since the early eighties. We currently recycle cardboard, paper, plastics, aluminum cans, oils, wood pallets, and all metals (including process scrap). Cardboard boxes and metal barrels are returned to our suppliers for reuse until they are no longer acceptable, then they are recycled. Fiber drums are recycled for reuse through our supplier.

Paper Products

Weiler purchases paper products made from recycled materials. Our printers are set to print double-sided to save paper. And we installed air-wave hand dryers that uses up to 80% less energy than conventional hot air hand dryers. In addition, much of our literature is available on our website for download. This *Solutions Resource Guide* is printed on recycled stock.



One of our most recent green initiatives was the introduction of our new Green WorksTM line of environmentally-friendly maintenance products made from recycled or sustainable raw materials. For instance, the fill material is made from recycled plastic bottles, and the handles are made from bamboo – an abundant and fast growing substitute for wood. See pages 135-136 to learn more about our entire line of eco-friendly products.

Weiler Corporation invites you to join us in building a better future and finding ways to "Go Green".



General Information

How To Use This Catalog

Our goal is to make it as easy as possible to do business with Weiler. We have done our best in providing valuable technical information, product specifications and application solutions in the most "user-friendly" manner possible.

This Resource Guide is divided into four main sections represented by a different color for easy indexing:

Power Brushes - Blue

Nylox® Nylon Abrasive Filament Brushes - Purple

Abrasives - Red

Maintenance Products - Green

Application Solutions are featured throughout this Resource Guide to provide examples of the types of deburring, finishing, cleaning and other surface conditioning challenges that our products can solve.

Blue Charts - Indicates Weiler Industrial Grade product. Engineered for superior perfomance in high production areas.

Red Charts - Indicates Vortec Pro Professional Grade product. Engineered for cost-effective use in less demanding environments.



Product Group name and description.

The tool icon indicates the most commonly used tools for the products within the table. (See icon reference guide below.)



Standard Twist Wheels - Non-Sparking Bronze Wire

						Max.	Thickness			
Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	AH	at Face Plates	Max. RPM	Standard Pack	ltem Number
3"	.020	1/2"- 3/8"	20	3/8"	5/8"	1/2"	7/16"	25,000	10	08271

The Item No. (or EDP number) is the number used when placing your order.





Dia.	Wire	Wire	Arbor	Face	Max.	Display Pack	Boxed Qty.
	Size	Type	Hole	Width	RPM	Item No.	Item No.
3"	.014" Fine	Carbon	1/2"-3/8"	Wide	25,000	-	36290

Tool Icons

These icons illustrate some of the common power tools that can be used to drive Weiler brushes and abrasives. Many products within this Resource Guide can also be used on other types of tools and machines, including automated equipment.











Die Grinder



Stationary Belt







Portable Walk-Behind Belt Sander Machine

Benchstand Belt Sander





Cut-Off Machine



Chop Saw



Portable

Electric Saw

Gas or





Cut-Off

Drill

Sander

Drill Press

Flexible

Shaft Tool

High Speed

Pencil Grinder

Belt Sander

Weiler's Satisfaction Guarantee

Weiler Corporation hereby warrants that its Power Brush, Nylox®, Abrasive and Maintenance products shall be free from defects in material and workmanship under normal use and service, for a period of one year from the date of purchase. In the event the customer reasonably becomes dissatisfied with the performance of any of Weiler's products, Weiler will repair or replace the product at no cost to the customer. This repair or replacement is contingent upon prompt written notice and compliance by the customer with instructions given by Weiler regarding the return of the product for evaluation.

This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for a particular purpose. Correction in the manner provided hereinabove shall be the extent of Weiler's liability, and no other entity is authorized to extend that liability.

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Safety Information

All of Weiler's products are made to the strictest quality standards and specifications and are designed to provide superior work performance and safe operation when used properly.



Warning: Failure to observe safety precautions may result in injury.

Many manufacturers mark some safety warnings, recommendations and usage restrictions directly on the product. However, it is not always practical to include even the most limited safety information on the product itself. Therefore, the operator MUST READ and FOLLOW all instructions supplied in or on the product container as well as those marked on the product. The operator should also refer to the safety and operating information printed in this catalog and other literature.



Weiler power brushes and abrasives conform to the ANSI standards listed below. All operators of power brushes and abrasives must comply with these safety standards.

- ANSI B165.1 "Safety Requirements Power Brushes"
- ANSI B7.1 "Safety Requirements For the Use, Care and Protection of Abrasive Wheels".

Safety Goggles

Safety goggles or full face shields worn over safety glasses with side shields MUST BE WORN BY ALL OPERATORS AND OTHERS IN THE AREA OF BRUSH AND ABRASIVE OPERATIONS. Comply with the requirements of ANSI Z87.1 "Occupational Eye and Face Protection".





Protective Clothing

Appropriate protective clothing must be used where there is a possibility of injury that can be prevented by such clothing.



Hearing Protection

Use of these products may create elevated sound levels. Hearing protection must be worn where required.



Safety Gloves

Grinding applications are conducted in harsh environments. The use of safety gloves is recommended.



Respiratory Protection

Wear respiratory protection against dust and fumes (see ANSI Z88.2).



Speeds

Observe all speed restrictions indicated on brushes, abrasives, containers, labels, or printed in pertinent literature. MSFS means Maximum Safe Free Speed (RPM) - spinning free with no work applied. For reasons of safety, MSFS or Maximum RPM should not be exceeded under any circumstances.



Tool Guards

Guards must be kept in place at all times when product is running.

Tool/Work Rest

On bench grinders, tool/work rests should be used to support the work-piece during use. It should have a maximum opening of 1/8" to the product face. Only adjust the rest when the product is not in motion.

Availability of ANSI Standards

Based on the collective experience of the American Brush Manufacturers Association Industrial Division members (ANSI B165.1) and the United Abrasives Manufacturers Association's Bonded Division (ANSI B7.1) both ANSI Standards are referenced and provided solely as a public service for the guidance of the users of the members' products. All Brush and Abrasive recommendations are not necessarily complete with respect to any particular application and common sense safety considerations should generally be followed. Any applicable federal, state, local law or regulation must be strictly adhered to and is controlling over any recommendation contained herein.



Before Starting Product:

Use eye protection and safety equipment. Inspect product for rust, damage, etc. If the RPM marked on the power tool is higher than the RPM marked on the product, do not mount the product onto the tool.

And Don't Forget:

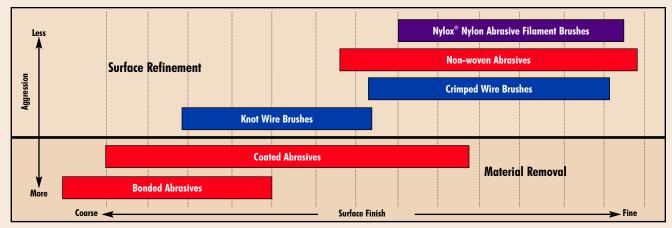
Inspect and jog the machine to ensure that the product is mounted properly and securely, machine guards are in place, no vibration, etc. Run machine at operating speed for at least one minute before applying work. Do not stand in front of or in line with product.



Need a Solution?

Product Selection Guide: By Surface Finish

Weiler offers a wide range of brushes and abrasives for cleaning, deburring and finishing. The chart below will help you determine the most effective brush or abrasive product type based on surface finish and degree of aggression required for your application. As indicated, Coated and Bonded Abrasives will remove base material. Wire Brushes, Nylox® Brushes and Non-Woven Abrasives will not typically remove base material and are used for jobs requiring surface refinement.



Note: If you need assistance in choosing the correct product for your specific application, contact our Application Engineering Team at 888-299-APPS (2777).

Application Engineering Solutions

Weiler Corporation is <u>the</u> source for surface conditioning solutions. Our goal is to provide solutions that will help you lower costs by increasing productivity. By combining our broad product offering with the support of our Application Engineering Team, you can count on Weiler to provide solutions to your specific application.

Have An Application Problem?

Option 1 - Application Hotline:

Call our Application Engineering Hotline at 888-299-APPS (2777) with all your deburring, cleaning and finishing challenges. If your question cannot be answereed on the phone...

Option 2 - In-House Part Evaluation:

Send your component parts to our in-house lab for evaluation and product recommendation. This enables Weiler to evaluate and process parts in a controlled environment without interrupting your production schedule. We will address issues such as cycle time, finish required and product life, providing the most cost-effective solution. Weiler's in-house lab is also equipped with a Hurco VSX-40 vertical machining center, giving us the capability to perform technical viability analysis on your parts. The availability of the Hurco permits recommendations concerning speeds, feeds and tool paths to be extremely precise. This virtually eliminates technical uncertainty for customers interested in implementing in-machine deburring.

Option 3 - On-Site Evaluation:

If it is determined that an on-site visit is required, a Weiler Application Engineer will visit your facility to review the current production process. Weiler will determine the best product and process to meet your specific application requirements.

Turn to Weiler for assistance with product selection and application solutions.



Visit www.weilercorp.com to view our Solutions Showcase, featuring real-life case studies.









or see below for return information.

Need a Solution?

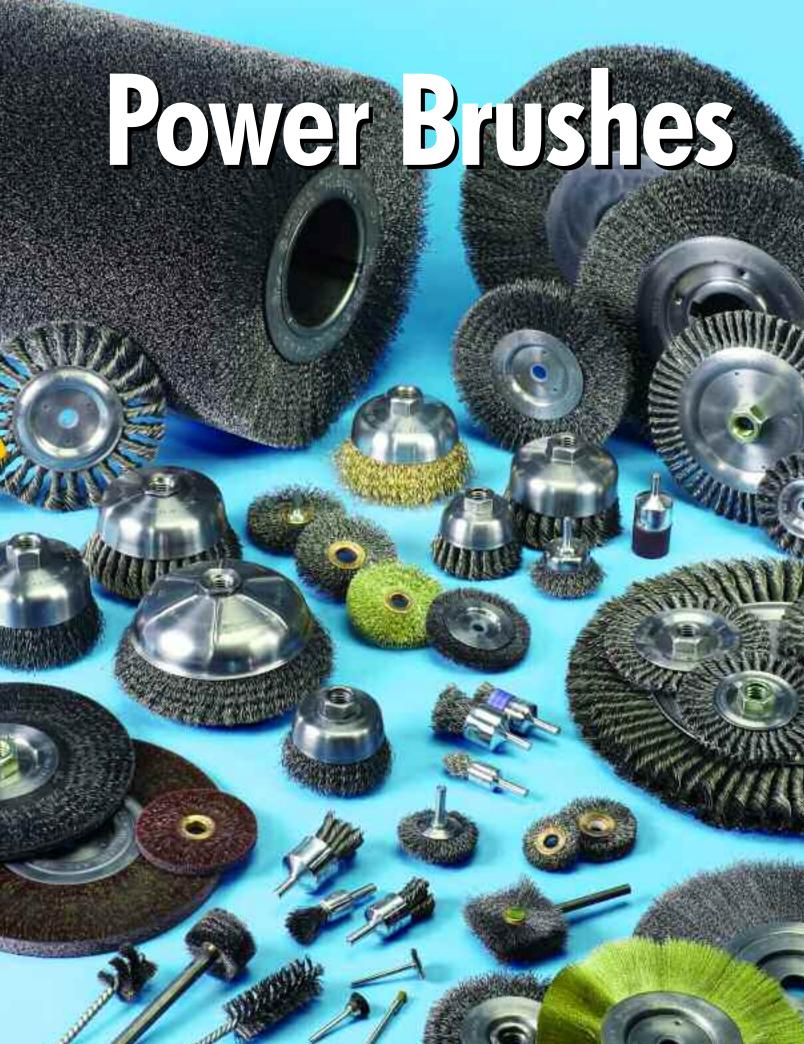
Application Engineering Assistance Form
If you are having an application problem, complete the following form and fax or mail it to Weiler's Application Engineering Department. This form is also available on Weiler's website at www.weilercorp.com. E-mail the form to info@weilercorp.com

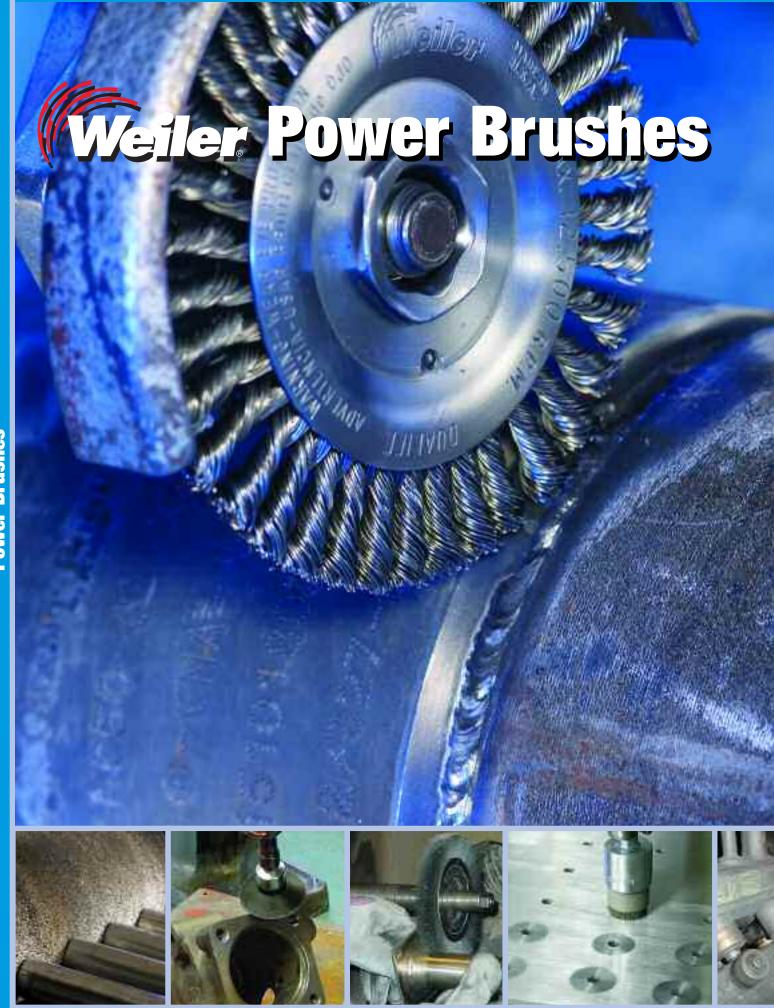
Date:	
Company Name:	
Address.	
Phone: ()	Fax: ()
our Name:	Title:
E-mail:	
Part Name:	
	Annual Production:
Describe Application: (Surface Finishing/Deburn	
Describe Applications (Soffice Infishing) Describ	my Luge Dienumy Roughenmy Cleummy
A	N
Application Status: Existing	
It Existing: A: Describe Current Prod	cess:
B: Reason for Changing	Process:
Equipment To Be Used: (Grinder, Lathe, Custom	Designed, etc.)
Off-hand Semi-Autom	natic Fully Automatic
Equipment RPM: Variable?	
Will Coolant be used? Yes No	163 110
Anii Cooldiii be osed: les ido	
Additional Specifications:	
ax: 800-635-3615, call toll-free: 888-299-AP	PS (2777) or e-mail us at: info@weilercorp.com
Veiler Corporation	, , , , , , , , , , , , , , , , , , , ,

Weiler

One Weiler Drive Cresco, PA 18326-0149

Attn: Application Engineering Department











- New! Weld Cleaning Brushes Dually™ Line of Flip 'N Fast Wheels!
 - Crimped Wire Wheels
 - Nylon and Tampico Wheels
 - Cup Brushes



New! Small Angle Grinder Brushes

Roughneck® Jr. 4-1/2" Stringer Bead & 2-3/4" Hurricane Twist Cups!

- End Brushes
- Minigture Brushes
- Crosshole Deburring Brushes Exclusive Bore-Rx™ Internal Deburring Tools for Automated Use!
- Power and Hand Tube Brushes
- Non-Sparking Brushes
- Strip Brushes
- Wide Face Brushes

Knowledgeable and Responsive **Customer Service Team:** 800-835-9999

Application Engineering Support: 888-299-APPS (2777)

Interactive Website: www.weilercorp.com









Solutions Showcase

Dbe End Deburring

Problem: Structural tubing is fabricated into an abundance of different forms. In order to facilitate safer handling and proper fit, the ends of the tubing must frequently be deburred.

Solution: Wide face crimped wire wheel brushes are an extremely effective solution for tube end deburring. Brushes can deburr the OD and ID of tubing at an extremely high rate and produce a media-cost-per-part of considerably less than \$0.01 per part.

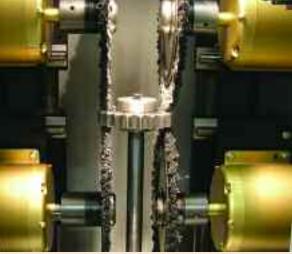




Gear Deburring

Problem: Power transmission components like gears cannot function properly when burrs prevent correct engagement. Further, burrs which become detached from gears can become lodged in critical transmission components causing premature wear and potential failure.

Solution: Knot wire wheel brushes with surface speed in excess of 6000 SFPM are an excellent solution for deburring gears prior to heat treatment. The high energy filament tips are able to separate burrs from base material and produce a uniform edge break, which protects the edge of the gear.





Photos courtesy of On-Line Services.

Removal of Mill Scale

Problem: Mill processing of steel often involves heat treating and oil quenching operations that produce an adherent scale which must be removed prior to joining or finishing operations.

Solution: Wire brushes are capable of quickly cleaning material to white metal and producing varying degrees of surface roughening to promote adhesion. Brushing operations are often preferred over blasting and chemical processes which generate an expensive waste stream and can be costly to operate and maintain.





Solutions Showcase

Mer-Pass Pipeline Weld Cleaning







Problem: To prevent voids and inclusions when welding multi-pass joints, the surface of each bead must be completely cleaned of slag and other residuals. Performing inter-pass weld cleaning as quickly and as thoroughly as possible is critical to avoiding costly repair work and delays.

Solution: Weiler's Roughneck® and Dually™ stringer bead wheels have been engineered to maximize efficiency and minimize costs and are the preferred choice of welders' helpers on the pipeline. From hot pass to cap pass, these premium weld cleaning brushes excel at quickly and thoroughly removing slag, spatter, and oxidation without damaging the filler material.

Meaning Threaded Connections







Problem: The box ends of drill string and other oilfield tubular goods are examples of connections that must be periodically cleaned without altering the geometry of the threads. Abrasive products all remove base material to some extent, and are capable of damaging threads, resulting in unreliable connections and the risk of potential failures.

Solution: The conformability and impact action of small diameter crimped wire wheels make them ideal tools for cleaning threads without fear of damage. When used on a high-speed die grinder, these radial wheel brushes quickly remove residual dope as well as rust, corrosion and scale from male or female thread ends.

lemoval of Excess Molded Rubber







Problem: Mechanical rubber components such as motor mounts are produced through a process that commonly leaves flash and excess rubber on critical surfaces. In order for the component to function properly, this unwanted material must be removed.

Solution: The non-loading nature of wire brushes makes them the best available solution in the marketplace for removal of rubber from targeted surfaces. This solution can be implemented off-hand or using automated equipment.



Operational Advantages of Power Brushes

Power Brushes Do Not Remove Base Material

Unlike bonded and coated abrasive products, power brushes have the ability to clean hard surfaces without removing base material. The impact action of the sharp, hardened wire tips of a rotating brush behave in the same manner as the media in a blasting operation and they have the same ability to separate surface contaminants without damaging the substrate.

Grinding Wheel



Wire Wheel



Due to its compliant nature, a power brush focuses more of this mechanical energy on edges. This makes it an ideal tool for removing burrs and blending sharp edges without changing overall part dimensions after sawing, cutting, grinding and machining operations.

Power Brushes Do Not Load

Unlike bonded, coated and non-woven abrasive products, power brushes will not load when used on softer materials or when removing paint or similar coatings from a harder surface. Because a power brush consists of a collection of individual wire filaments, there is no place for debris to accumulate and prevent the sharp wire tips from striking the work.

Resin Fiber Disc



Cup Brush



As a power brush is used, the wire tips will naturally tend to wear to a point due to contact with the working surface. It is possible to take advantage of this self-sharpening action by periodically switching the mounting position of wheel brushes to maintain their speed and effectiveness.

enstruction Advantages of Weiler Power Brushes

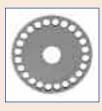




Weiler's Solid Ring Construction

Our crimped wire brushes are constructed using solid rings to retain the fill material and our manufacturing process results in an even, consistent distribution of wire strands around the entire brush diameter. This ensures that our crimped wire products run smoother and last longer than the competition – even in the toughest applications.

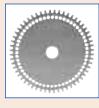




Weiler's Individual Knot Hole Construction

Weiler's knot wheels are constructed with an internal steel plate that has equally spaced individual holes around the perimeter. Wire is inserted through each hole and twisted into a knot. Each hole has precisely the same wire count, thereby assuring perfect balance. This eliminates vibration, reduces operator fatigue and increases brush life.



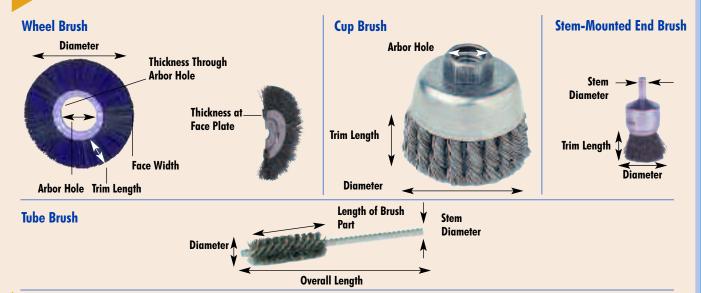


Weiler's Roughneck® Weld Cleaning Brushes Construction

Each knot is twisted through its own hole and locked into an individual sprocket tooth. This prevents the knots from moving, providing a stronger striking action on the work surface, longer brush life and less operator fatigue. This results in the most aggressive weld cleaning in the market with the lowest cost-per-piece brushed.



Product Attributes



Materials

Steel Wire - Carbon steel wire is typically the most durable power brush fill material for metalworking and heavy-duty cleaning applications.

Weiler industrial grade brushes utilize heat treated, high tensile steel wire that has been drawn to the most exacting industry standards for superior fatigue resistance and aggressive brushing action. Vortec Pro® professional grade brushes utilize more cost-effective grades of steel wire to deliver reliable performance in less demanding applications.

Animal Hair - Natural hair bristle is used primarily in miniature power brushes for scratch-free cleaning and polishing. Depending on the animal species and type of hair, this fill material can range from relatively stiff to relatively soft, making it suitable for a variety of applications from removing dust from optical lenses to buffing precious metals using abrasive compounds.

Stainless Steel Wire - Stainless steel wire is only recommended when brushing corrosion-resistant or nonferrous metals such as stainless or aluminum or when the brush is being used in a wet environment. Stainless steel wire is <u>not</u> any more durable or aggressive than the highest grades of steel wire. All Weiler stainless steel brushes are manufactured with Type 302 stainless wire, but select items are also available with Type 316 wire by special order.

Vegetable Fiber - Tampico, a natural fiber produced from the Mexican agave plant, is a common natural fill material used in wet scrubbing and cleaning applications as well as buffing and polishing metals. It is heat, alkali and acid resistant. Its natural color is offwhite but it may be dyed or bleached.

Non-Ferrous Wire - Brass, bronze and aluminum wire are available in assorted Weiler industrial grade power brush items. These non-ferrous materials will not generate a spark in use, but they lack the durability of carbon steel and stainless steel wire. Due to their soft brushing action, these materials may also be used in special applications such as decorative finishing.

Synthetic - Nylon is typically the most durable synthetic bristle material for use in power brushes and can be used in a variety of applications due to its flexibility, high fatigue strength and resistance to abrasion, heat, acids and alkalis. Polypropylene is less durable and used primarily in strip brushes.

Special Information On Stainless Steel Brushes

As noted above, Weiler's complete offering of stainless steel wire brushes is manufactured using wire drawn from Type 302 stainless steel. Although 302 stainless is typically a non-magnetic material, it is important to remember that the amount of cold-working that it experiences during the wire-drawing process causes it to become magnetic. For this reason, proper storage and handling of stainless steel brushes is critical to prevent cross-contamination and "after rust" issues.

Type 302 is widely used in the manufacture of power brushes for its relative durability and aggressive action as well as for its austenitic properties which insure the corrosion resistance of the materials on which it is applied. The use of a different grade of stainless steel wire is typically required in critical weld preparation and cleaning applications, but it will <u>not</u> address "after rust" and other cross-contamination issues. To insure the corrosion resistance of any stainless steel surface after brushing, passivating it with a 10-20% solution of nitric acid is recommended.



Product Selection

Weiler Industrial Grade Products

Engineered and manufactured to maximize performance and minimize operating costs in the most demanding surface conditioning applications. The use of superior construction, the highest quality materials and the most stringent manufacturing processes deliver the lowest cost-of-use and most consistent performance in heavy production environments.

Weiler Vortec Pro® Professional Grade Products

Manufactured using similar product construction and to the same exacting standards as other Weiler power brushes, but engineered to provide cost-effective use in less demanding environments. Vortec Pro brushes are an economical choice for the construction trades, low volume production shops and light duty industrial MRO use.

Crimped vs. Knot Wire Brushes

Crimped Wire Brushes:

- Made with wire that is crimped to allow individual filaments to support each other.
- Provide flexibility for light to medium duty brushing action.
- Use on parts that could be damaged by the impact of a knot brush.
- Use for a broad range of applications.

Knot Wire Brushes:

- Made with straight wire filaments that are twisted as a single unit like a piece of cable or wire rope.
- Provide less flexibility and more aggressive brushing action in heavy-duty applications.
- Use on parts requiring high-impact action.
- Use to remove large burrs and heavy contamination, such as multiple layers of rust, scale, paint or oxides.

Trim Length and Fill Density

Longer trim, lower density brushes offer a greater degree of flexibility that is ideal for applications such as cleaning surfaces which are somewhat irregular. However, the lower fill density can result in shorter brush life and less consistent performance in production environments.

Shorter trim, higher density brushes are less flexible and work with a faster action which requires less applied pressure or engagement with the brush face. This produces more consistent performance and longer life in applications such as edge deburring.

To maximize brush life and reduce costs, always use the shortest trim, highest density brush that will adequately conform to the surface or part edges.



Knot Configurations



Standard Twist: A slight tuft at the end of the wire knot provides some flexibility for use on irregular surfaces.





Cable Twist:

The wire is tightly twisted to the end of the knot, providing very aggressive brushing action.





Stringer Bead Twist:

The wire is very tightly twisted to the end of the knot, creating a narrow face with high-impact action, primarily used for weld cleaning.





Hurricane Twist:

A flattened, dull knot end allows the brush to last longer and provide smoother operation but sacrifices much of the cutting action of the other knot types.





Wire Size

Wire	Co	arse	Medium	to Coarse	Me	dium	Fi	ne	Very	Fine
Gauge # Dia. in Inches Dia. in Millimeters	20	24	25	30	33	34	35	38	43	47
	.035	.023	.020	.014	.0118	.0104	.0095	.008	.006	.005
	0,89	0,58	0,51	0,36	0,30	0,26	0,24	0,20	0,15	0,13

Wire sizes in decimals of an inch are shown in all tables throughout this catalog. American Steel Wire Equivalent Gauge (Formerly Washburn & Moen)

Larger diameter wire produces a more aggressive brushing action due to its stiffness, but it also fatigues and breaks much more quickly.

Smaller diameter wire can resist fatigue and breakage longer, but it produces a less aggressive and more flexible brushing action.

To maximize brush life and reduce costs, always use the finest wire that will accomplish the job without requiring excessive applied pressure or engagement with the brush face.

Polyflex® **Encapsulated Brushes** are suitable for extremely demanding applications which do not require a high degree of conformability. They are especially well-suited for users with the following types of requirements:

- Extreme brushing pressure Encapsulation protects wires from over-flexing and extends brush life relative to conventional knot and crimped wire brushes.
- Severe cleaning operations Encapsulation holds the wire tips rigidly in place and creates the most aggressive brushing action that can be achieved with a wire brush.

In order to optimize the performance of encapsulated brushes, selection of the correct elastomer is critical. The following is a description of the three types of elastomers and their performance attributes.

Burgundy (Standard)

General purpose elastomer; suitable for most manufacturing applications.



Orange (Heavy-Duty)

A more heavy-duty elastomer than burgundy; used for more demanding applications.



Black (Extra Heavy-Duty)

A heat stabilized elastomer that does not wear easily; used primarily for cleaning welds.



Product Selection Chart: Cleaning
Surface Prep

	Roughening Weld Cleaning Remove Oxides & Rust	Surface Finishing (Functional, Aesthetic, Decorative, Satin)	Heavy Deburring	Light Deburring & Edge Blending	Deflashing
Crimped Wheels	• • •	• •		• • •	
Knot Wheels	• • •		• • •		• • •
Crimped Cups	•	•		•	
Knot Cups	•		•		
mped Stem-Mounted	• •			• •	
Knot Stem-Mounted	• •		• •		• •
Encapsulated	• • • •		• • • •		• • • •
Power & Hand Tube	•	•		•	
Miniature	•	•		•	

Product & Application Key



















Crin









wer Brush Operating Information

Brushing Speeds

- Power brushes, like cutting tools, operate most effectively when the speed and pressure of the operation are properly matched to the demands of the application. In most operations, the highest speed and lightest pressure will ensure the fastest brushing action and longest brush life.
- Increasing brush speed increases the face hardness and brushing action; therefore, a fine wire brush rotating at a higher speed will often produce the same results as a coarser wire brush rotating at a slower speed. Finer wire operating at a higher speed is generally preferred and will provide a longer brush life.
- MSFS Maximum Safe Free Speed (RPM) is the maximum speed at which the brushes may be used safely but is <u>not</u> necessarily the optimum speed for a given application. Operating speed should be determined by the application. When running a wire brush, a rule of thumb is to run it a "mile a minute" or a minimum of 5,000 Surface Feet Per Minute (SFPM). However, never exceed the Maximum Safe Free Speed of the brush.
- Make sure spindle size and motor of machine are large enough to accommodate the diameter of brush to be used (see table on pg. 20).

Recommended Surface Speeds For Brushing Applications

 $\frac{\text{SFPM} = \pi \quad \text{Dia. (Inches)} \times \text{RPM}}{12}$



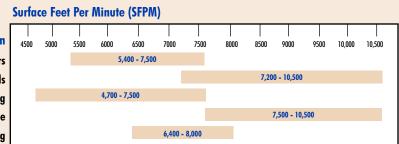


Table of Surface Speeds (Peripheral Speed in Ft./Min.)

		Diameter (Inches)						
RPM	2	3	4	6	8	10	12	15
1000	525	785	1,050	1,575	2,100	2,625	3,150	3,925
1500	785	1,175	1,575	2,350	3,150	3,925	4,725	5,900
1750	915	1,375	1,850	2,750	3,650	4,550	5,500	6,800
2500	1,300	1,950	2,625	3,925	5,250	6,550	7,850	9,825
3000	1,575	2,350	3,125	4,725	6,275	7,850	9,425	11,775
3450	1,800	2,700	3,600	5,400	7,200	9,000	11,000	13,500
4000	2,100	3,150	4,175	6,275	8,375	10,475	_	_
6000	3,125	4,700	6,275	9,425	_	_	_	_
10,000	5,250	7,850	10,500	_	_	_	_	_
15,000	7,850	11,775	15,750	_	_	_	_	_
20,000	10,450	15,700	20,950	_	_	_	_	_

Example: A 6" diameter wheel running at 3,450 RPM has a surface speed of 5,400 SFPM.

Brushing Pressure

Avoid excessive pressure when using a wire brush. Excessive pressure causes over-bending of the filaments and heat build-up resulting in filament breakage, rapid dulling and reduced brush life.

Instead of greater pressure, try the following:

- A brush with more aggressive action (increase filament diameter, decrease trim length, different brush type, i.e., knot type instead of crimped type)
- 2. Higher surface speed (increase RPM or brush diameter)
 Important Note: Never exceed the recommended Maximum Safe
 Free Speed or RPM rating of the brush.

Correct

Wire Tips Doing the Work



Incorrect Excessive Pressure Causes Wire Breakage





wer Brush Operating Information

Minimum Recommended Spindle Diameter

(from ANSI Standard B165.1)

Outside Dia. of Wheel Brush	Maximum Face Width of Wheel Brush	Minimum Outside Dia. of Spindle (Shaft)
2"	1/4"	1/4"
3"	3/4"	1/4"
3" (heavy-duty)	1"	3/8"
4"	1"	3/8"
6"	1-1/4"	1/2"
8"	1-1/4"	5/8"
10"	2"	3/4"
12"	3"]"
14"	3"	1-1/4"
15"	3"	1-1/4"
16"	3"	2"

Note: These diameters are based on the wheel brush being mounted next to the supported end of the shaft rather than the unsupported end in order to minimize overhang.

Recommended Motor Sizes

Brush Diameter	Motor Size	RPM
4"	1/4 HP	3,450
6"	1/2 HP	3,450
8"	3/4 HP	3,450
10"	1 HP	1,750
12"	1 HP	1,750
15"	1-1/2 HP	1,750

Note: This chart is based on 1" brush face.

Arbor Hole Variation Table - For Weiler Industrial Grade Wheels

If an arbor hole size other than the size listed in the product table is required, change the last digit of the Item Number as indicated in the Table.

Arbor Hole Diameter	Change Last Digit of Item Number to:	Arbor Hole Features
1/2"-3/8"	4	Plastic Snap-Out Adapter
5/8"-1/2"	5	Plastic Snap-Out Adapter
5/8"-11 UNC	6	Threaded Nut (6", 7" & 8" Wheels Only)
5/8"	7	3", 4" & 6" Wheels Only
3/4"	8	
7/8"	0 - 11	_
]"	0 - 12	1/4"*x 1/8"+ double keyway
1-1/4"	9	5/16"*x 5/32"+ double keyway
1-1/2"	0 - 13	3/8"*x 3/16"+ double keyway
1-3/4"	0 - 16	3/8"*x 3/16"+ double keyway
2"	0 - 14	1/2"*x 1/4"+ double keyway
2-1/4"	0 - 17	3/4"*x 3/8"+ double keyway
2-1/2"	0 - 15	1/2"*x 1/4"+ double keyway

Example: Item Number 01228 has a listed, standard size arbor hole of 3/4". If an 1-1/4" arbor hole is desired, drop the 8 from 01228 and add 9. The Item Number becomes 01229. If a 2" arbor hole is desired, drop the 8 from 01228 and add 0-14. The Item Number becomes 01220-14.

Self-Sharpening of Wire Wheel Brushes

When using wire wheel brushes without nuts, periodically reverse the direction of rotation to take advantage of the self-sharpening action that will result. Remove the brush from the spindle, flip the wire brush 180° and remount the brush securely.



Remove



Flip 180°



Remount Securely



^{*} Width of keyway

⁺ Depth of keyway

Power Brush Troubleshooting Guide

There are many variables in power brush applications. If the power brush you are using does not accomplish the desired results, select a solution from the suggestions below for your specific application or call Weiler's **Application Engineering Hotline at 888-299-2777.**

Problem	Recommended Solutions
Brush works too fast	 Select a brush with longer filaments and/or lower fill density Select a brush with a smaller diameter wire Select a brush with a narrower face and/or lower fill density Select a brush with a smaller outside diameter Operate the brush at a slower RPM
Brush works too slowly	 Select a brush with shorter filaments and/or higher fill density Select a brush with a larger diameter wire Select a brush with a wider face and/or higher fill density Select a brush with a larger outside diameter Operate the brush at a faster RPM
Brushing action rolls or peens the burr over instead of removing burr	 Select a brush with a larger diameter wire Select a brush with shorter filaments and/or higher fill density Operate the brush at a faster RPM Replace the crimped wire brush with a knot wire brush
Finer final finish required	 Select a brush with longer filaments Select a brush with a smaller diameter wire Operate the brush at a higher RPM Replace the wire brush with a nylon abrasive brush (Nylox®)
Coarser final finish required	 Select a brush with shorter filaments Select a brush with a larger diameter wire Operate the brush at a slower RPM
Non-uniform brushing action	 Select a brush with longer filaments Select a brush with a larger diameter wire Automate the operation to reduce human variables
Filaments break off	 Reduce applied pressure or engagement Select a brush with a smaller diameter wire Select a brush with a lower fill density
Short brush life	 Reduce applied pressure or engagement Select a brush with a smaller diameter wire Select a brush with a higher fill density



Call our Application Engineering Hotline at 888-299-APPS (2777). If the problem is too complex to be solved over the phone, we will determine if an evaluation should be conducted at our in-house lab or your facility. Either way, Weiler will provide the most cost-effective solution for your specific application.



Knot Wire Wheels with Arbor Hole

Mot Wire Wheels with Arbor Hole - Knot wire wheels with an arbor hole are intended for use on straight grinders and stationary machines such as bench or pedestal grinders and buffing lathes. Featuring Weiler's individual knot hole construction, these radial brushes are available in heat-treated steel, Type 302 stainless steel, and bronze wire for use in a wide variety of applications.

Applications

- Removing rust, scale and heavy corrosion
- Surface roughening and preparation
- Coating removal

- Removing excess molded rubber or plastic
- Heavy deburring

Standard Twist Wheels - Provide heavy-duty brushing action with some flexibility; Ideal for demanding cleaning applications on somewhat irregular surfaces.

	Wire	Arbor	No. of	Face	Trim	Max. AH	Thickness at Face	Max.	Std.	Item No	ımber
Dia.	Size	Hole	Knots	Width	Length	Avail.	Plates	RPM	Pack	Steel	Stainless
3"	.0118 .014 .020	1/2"-3/8"	20	3/8"	5/8"	1/2"	7/16"	25,000	10	08004 08014 ■ 08024*	08254 08264 08274
4"	.0118 .014 .020	1/2"-3/8"	24	1/2"	7/8"	1/2"	7/16"	20,000	10	08034 08044 ■ 08064	08284 08294 08314
4"	.014	5/8"-1/2"	24	1/2"	7/8"	7/8"	7/16"	20,000	10	08045	_
6"	.0118 .014 .016 .023	5/8"-1/2"	24	1/2"	1-3/8"	1-1/4"	9/16"	9,000	10	08075 08085 = 08095 08105	08325 - 08345 -
6"	.016	5/8"-1/2"	30	5/8"	1-1/4"	1-1/4"	5/8"	9,000	5	08975	_
7"	.014	5/8"	24	5/8"	1-7/8"	1-1/4"	9/16"	9,000	2	08835	_
8"	.0118 .014 .016 .023	5/8"	38	5/8"	1-5/8"	2"	1/2"	6,000	2	08125 08135 08145 08155	08375 - 08395 -
8"	.014	3/4"	38	5/8"	1-5/8"	2"	1/2"	6,000	2	08138	_
10"	.014	3/4"	52	3/4"	1-3/4"	2-1/2"	3/4"	4,500	2	08178	_
10"	.0118 .014 .016	1-1/4"★	52	3/4"	1-3/4"	2-1/2"	3/4"	4,500	2	08169 08179 08189	<u>-</u>
12"	.0118 .014 .016	1-1/4"★	52	3/4"	2-3/4"	2-1/2"	11/16"	3,600	1	08199 08209 08219	<u>-</u>
12"	.014	2"◆	52	3/4"	2-3/4"	2-1/2"	11/16"	3,600	1	08200-14	_
12"	.020	1-1/4"★	56	5/8"	2-3/4"	3"	13/16"	4,500	2	09719	
12"	.023	2"◆	66	3/4"	2-1/4"	3"	13/16"	5,000	2	09870	_
15"	.016	1-1/4"★	52	7/8"	4-1/4"	2-1/2"	3/4"	3,600	2	08249	_

- ★ 5/16" x 5/32" Double Keyway
- ♦ 1/2" x 1/4" Double Keyway
- *Available in non-sparking bronze wire, see page 57 for details.

 Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.

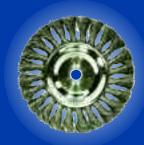
Vortec Pro® Standard Twist Wheels - Provide an aggressive brushing action for general-purpose surface cleaning applications

n gener	general-porpose sortace cleaning applications.												
Dia.	Wire Size	Wire Type	Arbor Hole	Face Width	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.						
3"	.014" Fine .014" Fine	Carbon Stainless	1/2"-3/8"	Wide	25,000	-	36290 36291						
4"	.014" Fine .014" Fine .020" Coarse	Carbon Stainless Carbon	1/2"-3/8"	Wide	20,000	36026 - -	36226 36293 36294						
6"	.014" Fine .023" Coarse	Carbon	5/8"-1/2"	Wide	9,000	36027 —	36227 36278						
8"	.014" Fine .023" Coarse	Carbon	5/8"	Wide	6,000	36028 —	36228 36279						



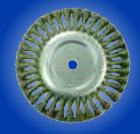
Removing rubber coating from a hydraulic hose.







08189



36228



If a different arbor hole is required (than listed in the tables) refer to Arbor Hole Table shown on Pg. 20.

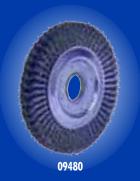




Automotive gear deburring using heavy-duty knot wheel brushes.









Knot Wire Wheels with Arbor Hole

Standard Twist Wheels - High Density & Extra High Density - Engineered for maximum performance in production applications; for use on automated equipment such as dedicated gear deburring machines.

			_		Thickness			
	Wire	Arbor	Face	Trim	at Face	Max.	Standard	Item No.
Dia.	Size	Hole	Width	Length	Plates	RPM	Pack	Steel
				80 Knots				
14"	.0118	1-1/4"	3/4"	2-1/2"	5/8"	5,000	2	08309
	.0118	2"						08300
	.014	1-1/4"						08319
	.014	2"						08310
	.020	1-1/4"						08339
	.020	2"					_	08330
15"	.0118	1-1/4"	3/4"	3"	5/8"	5,000	2	09969
	.0118	2"						09960
	.014	1-1/4" 2"						09989
	.014	_						09980 09999
	.020 .020	1-1/4" 2"						09999
	.020	Z		90 Knots				07770
3.40	014	011 -	0/411		E (0)	F 000	•	00000*
14"	.014	2"♦	3/4"	1-1/2"	5/8"	5,000	2	09020*
	.014	1-1/4"★ 2"◆						09029*
	.016 .016	2" ▼ 1-1/4"★						09790 09799
	.020	1-1/4 ★						09800
	.020	1-1/4"★						09809
	.020	2"◆						09040*
	.020	1-1/4"★						09049*
15"	.020	2"◆	3/4"	2"	5/8"	5,000	2	09840
.,	.020	2"♦	٠, ٠	_	2,0	2,300	_	09080*
	.020	1-1/4"★						09089*

- ★ 5/16" x 5/32" Double Keyway
- ♦ 1/2" x 1/4" Double Keyway
- * Economy

Standard Twist Wheels - Two Section - Provide heavy-duty brushing action with some flexibility; feature a double row of knotted wire for a wider brush face.



Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Standard Pack	Item No. Steel
3"	.0118	1/2"-3/8"	40	3/4"	5/8"	3/4"	22,000	5	09104
4"	.0118	1/2"-3/8"	48	3/4"	7/8"	3/4"	20,000	5	09134
6"	.0118 .016	2"	60	7/8"	1-3/8"	7/8"	8,000	5	09160 09180
8"	.0118 .016 .023	2"	76	1"	1-5/8"	1"	6,000	1	09410 09430 09440
10"	.0118 .016 .023	2"	104	1-1/4"	1-3/4"	1-1/4"	4,500	1	09460 09480 09490
12"	.0118 .016 .023	2"	104	1-1/4"	2-3/4"	1-1/4"	3,600	1	09510 09530 09540

See Metal Adapters on page 31 for brushes with 2" arbor holes.

Standard Twist Wheels - Four Section - Featuring four rows of knotted wire; for use in automated cleaning processes such as removing light mill scale from metal rod and wire.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Standard Pack	Item Number Steel
12"	.0118 .014	2"	208	2"	2-3/4"	1-3/4"	3,600	4	94098 94000

See Metal Adapters on page 31 for brushes with 2" arbor holes.



Knot Wire Wheels with Arbor Hole

Cable Twist Wheels - Provide maximum brushing action with minimal flexibility; ideal for demanding cleaning and coating removal applications on relatively smooth surfaces.





Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Std. Pack	Item N Steel	umber Stainless
4"	.020	1/2"-3/8"	24	1/4"	7/8"	1/2"	7/16"	20,000	10	08534	_
6"	.023	5/8"-1/2"	24	3/8"	1-3/8"	1-1/4"	9/16"	9,000	10	08565	08695*
8"	.023	5/8"	38	1/2"	1-5/8"	2"	1/2"	6,000	2	08615	_
10"	.023	3/4"	52	1/2"	1-3/4"	2-1/2"	3/4"	4,500	2	08878	-
		1-1/4"★								08879	_
12"	.023	1-1/4"★	52	7/16"	2-3/4"	3"	3/4"	3,600	2	09379	-

If a different arbor hole is required (than listed) refer to the Arbor Hole Table on page 20.

Joint & Crack Cleaning Wheels - Featuring heavy-duty construction and an extra long trim length for cleaning expansion joints and cracks in concrete and asphalt; for use on walk-behind machines.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item Number Steel
10"	.035	1" with two drive holes*	38	3/8"	2-5/8"	1/2"	5,000	2	94199
12"	.035	1" with two drive holes*	38	3/8"	3-5/8"	1/2"	5,000	2	94224
12"	.035	1" with two drive holes*	52	3/8"	2-3/4"	3/4"	5,000	2	94026

Drive holes are 3/8" diameter.

Adapter - For mounting Joint & Crack Cleaning Wheels onto a 20mm arbor.

For Brush Arbor Hole Size	Adapted Arbor Hole Size	Standard Pack	Item Number
1"	20mm	10	04455

Cable Twist Wheel - Four Section - Featuring four rows of tightly knotted wire; for use in demanding automated applications such as cleaning the OD of drill pipe and other oilfield tubular goods.

	Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width		Max. AH Avail.		Max. RPM	Std. Pack	Item Number Steel
-	10"	.023	2"	208	1-3/4"	1-3/4"	2"	1-7/8"	4,500	1	94008



In addition to the products featured in this catalog, Weiler can custom-design brushes to meet your specific needs.



Cleaning a crack on an airport runway prior to filling.









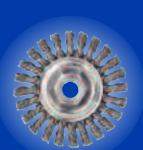


^{★ 5/16&}quot; x 5/32" Double Keyway *Standard Pack 2



Prepping a machine guard for on-site welding and repair.







Knot Wire Wheels with Nut

intended for use primarily on small and large right angle grinders. Featuring Weiler's individual knot hole construction, these radial brushes are available in heat-treated steel, Type 302 stainless steel and bronze wire for use in a wide variety of applications.

Applications

- Removing powder-coating, epoxybased paints, and rubberized coatings
- Weld preparation and cleaning
- Cleaning scale and heavy corrosion
- Removing heavy burrs from large pieces after cutting

Standard Twist Wheels - Provide heavy-duty brushing action with some flexibility; ideal for deburring and demanding cleaning applications on somewhat irregular surfaces.



Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Std. Pack	Item N	umber Stainless
3"	.014	M10 x 1.25	20	3/8"	5/8"		7/16"	25,000	5	13201	13208
4"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	24	1/2"	7/8"	-	7/16"	20,000	5	13100 13101 13102 13103 13105 13106	13107 13108 13109 13110 -
4"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	24	1/2"	7/8"	-	7/16"	20,000	5	13114 13115 13116 13117 13119 13120*	- - - -
6"	.016 .023	5/8"-11 UNC	24	1/2"	1-3/8"	-	9/16"	9,000	2 5	_ 08106	08346 —

- Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.
- * Available in non-sparking bronze wire, see page 57 for details.

Vortec Pro® Standard Twist Wheels - Provide an aggressive brushing action for general purpose deburring, cleaning, and surface preparation applications.



Dia.	Wire Size	Wire Type	Arbor Hole	Face Width	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
4"	.014" Coarse	Carbon Stainless Carbon Carbon Carbon	5/8"-11 5/8"-11 M10 x 1.25 M10 x 1.50 M14 x 2.0	Wide	20,000	36012 36013 36015 36016 36017	36212 36213 36215 36216 36217
6"	.025" Extra Coarse	Carbon	5/8"-11	Wide	11,000	36024	36224

Cable Twist Wheels - Provide maximum brushing action with minimal flexibility; ideal for demanding cleaning and surface preparation applications on relatively smooth surfaces.



Dia.	Wire Size	Arbor Hole	No. of Knots		Trim Length	AH	Thickness at Face Plates	Max. RPM	Std. Pack	Item N Steel	umber Stainless
4"	.020	M10 x 1.25 M10 x 1.50 5/8"-11 UNC	24	1/4"	7/8"	1/2"	7/16"	20,000	5	13261 _ 13266 ■	_ 13272 13276

■ Available in Display Packaging. Add "P" to end of Item Number when placing order. See page170 for details.

Vortec Pro[®] Cable Twist Wheels - Provide the most aggressive brushing action for general purpose cleaning and surface preparation applications.



Dia.	Wire	Wire	Arbor	Face	Max.	Display Pack	Boxed Qty.
	Size	Type	Hole	Width	RPM	Item No.	Item No.
4"	.020" Coarse	Carbon	5/8"-11 M10 x 1.50 M10 x 1.25	Medium	20,000	36055 36057 36058	36255 36257 36258



Knot Wire Wheels with Nut or Stem

Standard Twist Bevel Brushes - Saucer-shaped radial wheels which provide a heavy-duty brushing action with some flexibility; ideal for cleaning filet welds and into corners.

-	
500	C. Section
=	

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. RPM	Std. Pack	Item N Steel	umber Stainless
4"	.014	M10 x 1.25 M10 x 1.50 5/8"-11 UNC	20	3/8"	3/4"	12,500	1	13401 13402 13406	_ 13412 13416
4"	.020	M14 x 2.0 5/8"-11 UNC	20	3/8"	3/4"	12,500	1	13423 13426	_ 13436
4-1/2"	.014	5/8"-11 UNC	20	3/8"	1"	12,500	1	13456	13466
4-1/2"	.020	5/8"-11 UNC	20	3/8"	1"	12,500	1	13476	13486



Cleaning a corner weld with a bevel brush.



1345*6*

attached 1/4" stem or shank are primarily intended for use on high-speed die grinders. Although they can also be mounted onto a drill, the speed and power of that tool will limit the effectiveness of the brush. Featuring Weiler's individual knot hole construction, these radial wheels are available in heat-treated steel and Type 302 stainless steel wire.

Applications

- Removing powder-coating, epoxybased paints, and rubberized coatings
- Weld preparation and cleaning
- Cleaning scale and heavy corrosion
- Removing heavy burrs from large pieces after cutting

Standard Twist Wheels - Permanently mounted on a 1/4" stem to provide heavy-duty brushing action with some flexibility; ideal for deburring and demanding cleaning applications on somewhat irregular surfaces.



Dia.	Wire Size	No. of Knots	Face Width	Trim Length	Max. RPM	Standard Pack	Item N Steel	lumber Stainless
3-1/4"	.0118 .014 .020	20	3/8"	5/8"	25,000	5	17680 17681 17682	- 17684 -
4"	.0118 .014 .020	24	1/2"	7/8"	20,000	5	17686 17687 17689	- 17691 -



17681

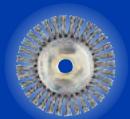


In a year, we use 240,000 miles of our most popular wire sizes. The circumference of the Earth is 24,901 miles, so you can circle the Earth 9.6 times. Or, you can go to the moon but not make it back. The distance to the moon is 238,857 miles.



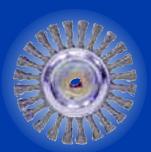


Removing weld slag before the next weld pass.





New!

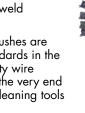




Weld Cleaning Brushes

Made in the U.S.A., the performance-engineered construction of Weiler's stringer bead wheels makes them the most effective weld cleaning tools for the most demanding users.

Identifiable by their gold nuts, our premium weld cleaning brushes are designed and manufactured to the most stringent quality standards in the industry. Weiler stringer bead wheels utilize the highest quality wire available and feature a twist that puts all of the sharp tips at the very end of the knots, making them the fastest, most aggressive weld cleaning tools on the market.



For example, the construction of Weiler's original Roughneck® brush virtually eliminates knot movement resulting in the most effective cleaning action, smoothest operation, and longest wheel life. Offered in a variety of widths for efficient use in inter-pass weld cleaning operations, our entire line of cleaning brushes excel at removing slag, spatter, and oxidation without damaging the filler material. They are engineered to maximize your efficiency and minimize your costs.

Roughneck® Stringer Bead Wheels - The standard for high-performance weld cleaning brushes. Narrow face brushes are suitable for cleaning root and hot passes and reaching into corners; wider face wheels can be used for cleaning filler and cap passes as well as for other surface prep and cleaning applications.



	147-		No.	-	. .	Thickness		6.1		4		
	Wire	Arbor	of	Face	Trim	at Face	Max.	Std.	Item N			
Dia.	Size	Hole	Knots	Width	Length	Plates	RPM	Pack	Steel	Stainless		
					Root Pass	Brushes						
4"												
		M10 x 1.25					-		13125 ■	13132		
		M10 x 1.50							13126	13133		
		M14 x 2.0							13127	13134		
		3/8"-24 UNF							13128	13135		
		1/2"-13 UNC							13130	13137		
		5/8"-11 UNC							13131 ■	13138 ■		
4-1/2"	.020	5/8"-11 UNC	38	3/16"	13/16"	3/8"	12,500	5	13232	13238		
Í		M14 x 2.0				.,	,		13233	13239		
		7/8"							13234	13249		
5"	.020	5/8"-11 UNC	38	3/16"	7/8"	3/8"	12,500	5	08756	08806		
	.020	7/8"	38	3/16"	•	.,	,		08750	_		
6"	.020	5/8"-11 UNC	48	3/16"	1-1/8"	3/8"	12,500	10	08766+	_		
	.020	5/8"-11 UNC	38	3/16"	1-3/8"	3/8"	12,500		_	08786+•		
	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"			09400 ■	09500		
6-7/8"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	9,000	10	09000 =	09200		
0 1/0	.020	5,0 11 0110	72	0, 10	,•	77.10	2,000		09100	-		
					Filler Pass	Rruchos			0			
								_		22277		
5"	.023	5/8"-11 UNC	24	1/2"	7/8"	3/8"	12,500	5	09856	09866		
6"	.023	5/8"-1/2"	24	1/2"	1-3/8"	9/16"	12,500	10	08775	_		
	.023	5/8"-11 UNC	24	1/2"	1-3/8"	9/16"	12,500	10	08776 ■	08796•		
	.023	5/8"-11 UNC	30	1/2"	1-1/4"	5/8"	12,500	10	08916	08926•		
	.023	5/8"-11 UNC	30	5/16"	1-3/8"	1/2"	12,500	10	09386	09396•		

[†] Light Duty

Polyflex™ Encapsulated Stringer Bead Wheels - Black Elastomer* - Feature a heat-stabilized encapsulation that gradually wears away to expose a consistent short trim for higher aggression, controlled brushing action, and longer life; suitable for cleaning hot welds.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Standard Pack	Item Number Steel
4"	.020	5/8"-11 UNC	32	3/16"	7/8"	7/16"	20,000	5	35800
6"	.014	5/8"-11 UNC	-	3/16"	1-7/16"	3/8"	9,000	5	35206 ▲
6-7/8"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	9,000	10	35600
7"	.014	5/8"-11 UNC	-	3/16"	1-15/16"	3/8"	9,000	5	35216 ▲

See Elastomer Color Code Chart on page 18 for more information.



[•] Standard Pack 5

^{*} Standard Pack 10

[■] Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.

[▲] Crimped wire

Weld Cleaning Brushes

Baturing a new patent-pending

design, the Dually line of cleaning brushes is the choice for the most demanding inter-pass welding applications such as pipeline construction, boiler and pressure vessel fabrication, and shipbuilding.

Welders' assistants on the pipeline were among the first to realize the value in periodically switching the mounting position of a wheel in order to maintain cleaning speed and effectiveness. The Dually utilizes a nut design that features a hex on each side of the



wheel which is high enough to insure adequate tool clearance in either mounting position. Now all users can realize the benefits of the "Flip" without compromising safety by removing the guard from their grinder.



Dually™ Stringer Bead Wheels - Feature a dual-hex nut design* that simplifies periodic flipping of the wheel for maximum cleaning action, long life, and safer use.



Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item Number Steel		
	Root Pass Brushes										
4-1/2"	.020	5/8"-11 UNC	38	3/16"	13/16"	3/8"	12,500	5	79801		
5"	.020	5/8"-11 UNC	38	3/16"	7/8"	3/8"	12,500	5	79802		
6"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	12,500	5	79805		
7"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	9,000	5	79800		
					Filler Pass	Brushes					
5"	.023	5/8"-11 UNC	24	1/2"	7/8"	3/8"	12,500	5	79803		
6"	.023	5/8"-11 UNC	30	1/2"	1-1/4"	5/8"	12,500	5	79804		

^{*}Patent Pending

HFR™ Stringer Bead Wheels - Feature a patent-pending film coating to minimize wire loss when used within recommended operating guidelines for hot-pass weld cleaning in FME areas of nuclear power plants. Weiler HFR Brushes have been engineered and tested to meet the requirements for a High Filament Retention power brush as defined by the Electrical Power Research Institute.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item Steel	Number Stainless
4"	.020	5/8"-11 UNC	32	3/16"	7/8"	7/16"	13,500	1	13381	13388

Patent Pending

Vortec Pro® Stringer Bead Wheels - Manufactured using similar product construction and to the same exacting standards as other Weiler weld cleaning brushes; they have been engineered for cost-effective use in less demanding applications.

Dia.	Wire Size	Wire Type	Arbor Hole	Face Width	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
4"	.020" Coarse	Carbon Carbon Stainless Carbon Carbon Carbon	5/8"-11 5/8"-11 5/8"-11 M10 x 1.25 M10 x 1.50 M14 x 2.0	Narrow	20,000	36018 - 36019 36021 36022 36023	36218 36308* 36219 36221 36222 36223
5"	.020" Coarse	Carbon Stainless	5/8"-11	Narrow	12,500	_	36295 36296
6"	.020" Coarse	Carbon Carbon	5/8"-11	Narrow	12,500	36025 —	36225 36307*
6-7/8"	.020" Coarse	Carbon Stainless	5/8"-11	Narrow	9,000	-	36297 36298

^{*}Light Duty

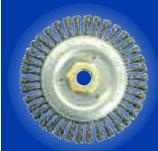


Weiler's Cable Twist Wheels were used by NASA on its booster rockets.



Removing slag and spatter before the cap pass.

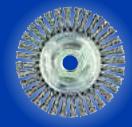




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1338



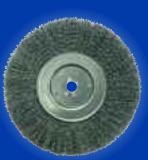
36218





Removing heat discoloration from a stainless steel canister.

00184



01238



If a different arbor hole is required (than listed in the tables) refer to Arbor Hole Table shown on Pg. 20.

Crimped Wire Wheels with Arbor Hole

grinders and stationary machines such as bench or pedestal grinders and buffing lathes. Featuring Weiler's solid ring construction, these radial brushes are available in heat-treated steel, Type 302 stainless steel and brass wire for use in a wide variety of applications.

Applications

- Removing rust and light corrosion
- Paint removal and surface cleaning
- Decorative finishing

- Removing heat discoloration
- Light deburring

Crimped Wire Wheels - Provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications.



					Max.	Thickness				
	Wire	Arbor	Face	Trim	AH	at Face	Max.	Std.	Item N	
Dia.	Size	Hole	Width	Length	Avail.	Plates	RPM	Pack	Steel	Stainless
3"	.006 .008 .0118 .014	1/2"-3/8"	7/16"	1/2"	3/4"	7/16"	12,500	2	00204 00214 00234 00274	00244 _ 00264 _
4"	.006 .006 .008 .0095 .0118 .0118	1/2"-3/8" 5/8"-1/2" 1/2"-3/8" 5/8"-1/2" 1/2"-3/8"	1/2"	7/8"	3/4"	7/16"	12,500	2	00104 00105 00114 00124 00134 00135 00144	00154 - - 00184 - -
6"	.006 .008 .008 .0104 .0118	5/8"-1/2" 1-1/4"★ 5/8"-1/2"	3/4"	1-7/16"	1-1/4"	7/16"	6,000	10	01035 A 01045 01049 01055 01065 A 01075 =	01675* - - 01695* 01705* -
6"	.0118	3/4"	3/4"	1-7/16"	1-1/4"	7/16"	6,000	10	01068	_
8"	.006 .008 .0104 .0118 .014	5/8"	3/4"	2-1/16"	1-1/4"	1/2"	6,000	2	01135 01145 01155 01165 01175	01775 - 01795 01805 -
8"	.006 .008 .0104 .0118 .014	3/4"	3/4"	2-1/16"	1-1/4"	1/2"	6,000	2	01138 01148 01158 01168 01178	- - - -
8"	.0118 .014	1-1/4"★	3/4"	2-1/16"	1-1/4"	1/2"	6,000	2	_ 01179	01809
10"	.006 .0104 .0118 .014 .014	3/4"	3/4"	2-1/2"	2"	5/8"	4,000	2	01228 01238 01248 01258 01250-12	- - - 01898 -
10"	.014	1-1/4"★	3/4"	2-1/2"	2"	5/8"	4,000	2	01259	_
12"	.006 .0104 .0118 .014	1-1/4"★	3/4"	2-15/16"	2-1/2"	1/2"	3,000	2	01299 01309 01319 01329	01939 01949 - -
12"	.014	2"◆	3/4"	2-15/16"	2-1/2"	1/2"	3,000	2	01320-14	-
15"	.0118 .014	1-1/4"★	3/4"	4-7/16"	2-1/2"	1/2"	3,000	2	01339 01349	- -

- ◆ 1/2" x 1/4" Double Keyway
- ★5/16" x 5/32" Double Keyway
- 1/4" x 1/8" Double Keyway
- ▲ Available in non-sparking bronze wire, see page 57 for details.

- * Standard Pack 2
- Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.



Crimped wire narrow face wheels can be made with nylon or abrasive nylon fill, up to 20" in diameter.



Vortec Pro® Crimped Wire Wheels - Provide a flexible brushing action and cost-effective performance in general purpose cleaning and deburring applications.



Dia.	Wire Size	Wire Type	Arbor Hole	Face Width	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
4"	.014" Coarse	Carbon	1/2"-3/8"	Narrow	6,000	36062	36262
5"	.014" Coarse .006" Fine	Carbon	5/8"-1/2"	Narrow	6,000	36063 36064	36263 36264
6"	.008" Fine .014" Coarse .014" Coarse	Carbon Carbon Stainless	5/8"-1/2"	Narrow Narrow Narrow	6,000	36002 36000 36001	36202 36200 36201
8"	.014" Coarse	Carbon	5/8"	Narrow	6,000	36005	36205

Polyflex[™] Encapsulated Crimped Wire Wheels - Burgundy Elastomer* - Feature an encapsulation that gradually wears away to expose a consistent short trim for higher aggression, controlled brushing action, and longer life.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Std. Pack	Item Number Steel			
4" 6"	.0095 .0104 .014	1/2"-3/8" 5/8"-1/2"	3/8" 1/2"	7/8" 1-7/16"	3/4" 1-1/4"	7/16" 7/16"	6,000 6,000	2	35084 35105 35117			
8"	.014	5/8"	1/2"	2-1/16"	1-1/2"	1/2"	6,000	2	35135			
	Orange Elastomer* - Heavy-Duty											
6"	.0104	5/8"-1/2"	1/2"	1-7/16"	1-1/4"	7/16"	6,000	2	35520			

^{*} See Elastomer Color Code chart on page 18 for more information.

Bench Grinder Wheels - Feature a shorter trim length, narrower face width, and the same durable construction as other Weiler crimped wire wheels; designed specifically for use on small bench grinders for reduced flaring and long life in a broad range of applications.



Dia.	Wire	Arbor	Face	Trim	Max. AH	Thickness at	Max.	Std.	Item Number
	Size	Hole	Width	Length	Avail.	Face Plates	RPM	Pack	Steel
6"	.006 .008 .0118 .014	5/8"-1/2"	1/2"	1-1/16"	1-1/4"	7/16"	6,000	10	01085 01095 01115 01125

Crimped Wire Wheels - High Density - Feature an increased fill density for greater brushing action, more consistent performance, and longer life in the most demanding applications requiring the flexibility of a crimped wire wheel.



	Wire	Arbor	Face	Trim	Thickness at Face	Max.	Std.	Item N	
Dia.	Size	Hole	Width	Length	Plates	RPM	Pack	Steel	Stainless
4-1/4"	.0118 .014	5/8"-1/2"	3/4"	5/8"	9/16"	6,000	1	01501 01502	-
6"	.008 .0118 .014 .020	5/8"-1/2"	3/4"	1-1/8"	9/16"	6,000	1	01503 01504 01505 01506	- 01508 01509 -
7"	.014	5/8"	7/8"	1-5/8"	9/16"	6,000	1	01511	_
8"	.006 .0104 .0118 .014	5/8"	7/8"	1-1/2"	11/16"	4,500	1	01512 01513 01514 01515	- - -
10"	.0118 .014	3/4"	1"	2-1/2"	11/16"	4,500	2	01517 01518	
12"	.014	1-1/4★	1-1/8"	3-1/8"	3/4"	3,000	1	01521	_

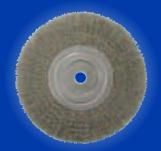
^{★5/16&}quot; x 5/32" Double Keyway



If a different arbor hole is required (than listed in the tables) refer to Arbor Hole Table shown on Pg. 20.



Removing heavy break-off burrs from saw-cut tube.



36205



35105



01115



01515





Cleaning an exhaust manifold for a small gasoline engine.



06080



06150



02325



Crimped Wire Wheels - Medium Face - Provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications; feature a wider face width to cover more area.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item N Steel	umber Stainless
4-1/2"	.0118	2"	15/16"	3/4"	7/8"	6,000	1	06020	_
6"	.006 .008 .0104 .0118 .014	2"	1"	1-1/8"	15/16"	6,000	1	06040 06050 06060 06070 06080	- - 06440 06450 -
8"	.006 .0104 .0118 .014 .020	2"	1"	1-3/8"	1"	4,500	1	06090 06100 06110 06120 06620	- 06490 - -
10"	.0118 .014 .020	2"◆	1-1/8"	2"	1"	3,600	1	06150 06160 06170	06530 - -
12"	.0118 .014 .020	2"◆	1-1/4"	3"	1"	3,600	1	06180 06190 06200	- - -

^{♦ 1/2&}quot; x 1/4" Double Keyway

For arbor hole reducing adapters, see Metal Adapter Table below.

Vortec Pro® Crimped Wire Wheels - Medium Face - Provide a flexible brushing action and cost-effective performance in general purpose cleaning and deburring applications; feature a wider face width to cover more area.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
6"	.014 Coarse	5/8"-1/2"	5/8" 3/4"	1-1/16" 1-7/16"	1/2" 7/16"	6,000	_ 36003	02325 36203
7"	.014 Coarse	5/8"	3/4"	1-9/16"	1/2"	6,000	_	02335

Metal Adapters - For Medium & Wide Face Brushes. Used in pairs & priced per pair.

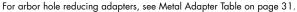
For Brush Arbor Hole Size	Adapted Arbor Hole Size	Item Number
2"	1/2" 5/8" 3/4" 7/8" 1" 1-1/4" 1-1/2"	03809 03810 03811 03824 03812 03813 03814



Crimped Wire Wheels - Wide Face - Provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications; feature a wider face width to cover more area.



	Wire	Arbor	Face	Trim	Thickness at	Max.	Std.	Item N	lumber
Dia.	Size	Hole	Width	Length	Face Plates	RPM	Pack	Steel	Stainless
4-1/2"	.006 .0118 .014	2"	1-1/4"	3/4"	7/8"	6,000	1	03000 03010 03020	- - -
6"	.006 .008 .0104 .0118 .014	2"	1-1/4"	1-1/8"	1"	6,000	1	03030 03040 03050 03060 03070	03480 - - 03510 03520
7"	.0118 .014	2"	1-1/4"	1-5/8"	1"	6,000	1	03090 03100	-
8"	.006 .0095 .0118 .014 .020	2"	1-1/2"	1-3/8"	1-3/8"	4,500	1	03110 03130 03140 03150 03160	- 03590 - -
10"	.0104 .0118 .014 .020	2"	2"	1-7/8"	1-5/8"	4,000	1	03180 03190 03200 03210	- - - -
12"	.0118 .014 .020	2"	2"	2-7/8"	1-9/16"	3,000	1	03220 03230 03240	03680 -



Vortec Pro® Crimped Wire Wheels - Wide Face - Provide a flexible brushing action and cost-effective performance in general purpose cleaning and deburring applications; feature a wider face width to cover more area.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
6"	.014" Coarse	5/8"-1/2"	7/8"	1-1/8"	7/8"	6,000	_ 36004	06645 36204
7"	.014" Coarse	5/8"	7/8"	1-5/8"	7/8"	6,000	-	06655
8"	.014" Coarse	5/8"	1"	1-3/8"	1"	4,000	36006	36206
10"	.014" Coarse	3/4"	1-1/8"	2"	1"	3,600	36065	36265

Polyflex™ Encapsulated Crimped Wire Wheel - Wide Face - Burgundy Elastomer* - Feature an encapsulation that gradually wears away to expose a consistent short trim for higher aggression, controlled brushing action, and longer life. Wider face width covers more area.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item Number Steel
6"	.0118	2"]"	1-1/8"	1"	6,000	1	35160

^{*} See Elastomer Color Code Chart on page 18 for more information. For arbor hole reducing adapters, see Metal Adapter Table on page 31.

Crimped Wire Wheels - Extra High Density - Engineered for maximum performance in production processes requiring the flexibility of a crimped wire wheel; for use on automated equipment for applications such as gear deburring, flash removal, and rubber buffing.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item Number Steel
12"	.006 .0118	2"◆	1-1/8"	1-5/8"	3/4"	3,000	1	01531 01532
14"	.0118	2"◆	7/8"	1-3/4"	13/16"	2,400	1	01533
15"	.0118	2"◆	1"	2-1/4"	13/16"	2,400	1	01534

^{♦ 1/2&}quot; x 1/4" Double Keyway



Removing carbon build-up from an automotive valve.



03110



06655



35160



01533





Producing an antique finish on a brass door knob rose.



22241



15433



15563

Plater's Wire Wheels - Feature a longer trim length and very small diameter fill material for producing fine satin and antique finishes on non-ferrous and precious metals.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Number of Rows	Max. RPM	Std. Pack	Item Number Brass*
3"	.003	1/4"	1/2"	1"	2	6,000	12	22021
4"	.004	1/4"	1"	1-1/4"	4	4,000	5	22061
6"	.005	1/4"	1"	1-7/8"	4	3,600	1	22241

^{*} Also available in carbon steel, stainless steel and nickel silver wire.

Small Diameter Crimped Wire Wheels - Identifiable by their copper center, Weiler's small diameter crimped wire wheels feature a plain arbor hole for use on a variety of portable tools and stationary machines. Featuring Weiler's solid ring construction for high-speed use, these radial brushes are available in heat-treated steel, Type 302 stainless steel, and brass wire.

Applications

- Cleaning threads
- Removing rust and light corrosion
- Cleaning and finishing ID's and recessed areas
- Wire stripping

- Light deburring
- Cleaning boiler tubes and internal passages
- Removing carbon build-up and deposits

Small Diameter Wheels - Provide a flexible brushing action and consistent performance for light-duty cleaning and deburring applications requiring a small wheel.



	Wire	Arbor	Face	Trim	Max.	Standard	Item N	
Dia.	Size	Hole	Width	Length	RPM	Pack	Steel	Stainless
1"	.003 .005 .006	1/4"	3/16"	1/4"	20,000	10	- - 15071	16461 16471 —
1-1/4"	.003 .006 .008	1/4" 3/8"	1/4"	3/8" 5/16"	20,000	10	15101 15111 - 15732	- 16511 16521 -
1-3/8"	.006 .008 .008 .0104	1/4" 1/4" 3/8" 1/4"	1/4"	3/8"	20,000	10	15131 15141 15272 15151	- - - -
1-1/2"	.006 .008 .008 .0104 .0118 .014	3/8" 3/8" 1/2" 3/8" 3/8" 3/8"	1/4"	7/16" 7/16" 1/4" 7/16" 7/16" 7/16"	20,000	10	15302 ▲ 15312 15753 15322 15332 15762	16702 16712 - - - -
2"	.003 .003 .005 .006 .008 .0104 .0118	1/4" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2"-3/8" 9/16" 1/2"-3/8"	3/8"	3/4" 1/2"	20,000	10	99307 15863 15433 ▲ 15443 15453 15463 ▲ 15770 15473	15973 16833 - 16843 16853 16863 - 16873
2-1/2"	.0118 .014	1/2"-3/8"	1/2"	3/4"	20,000	10	15513 15523	16913
3"	.003 .006 .006 .008 .008 .0104 .0118 .0118	1/2" 1/2" 5/8" 1/2"-3/8" 5/8" 1/2"-1/2"-1/2"-3/8" 5/8" 1/2"-3/8" 5/8"	5/8"	1" 15/16" 1" 15/16" 1" 1" 15/16" 1"	20,000	10	99551 15533 15637 15543 15647 15553 15563 15667 15573 A	- 16933 - 16943 - - 16963 - 16973 17077
4"	.006	1/2"	1/2"	1-1/2"	20,000	10	99553	_

[▲] Available in non-sparking brass wire, see page 57 for details.



Polyflex™ Encapsulated Small Diameter Wheels - Burgundy Elastomer* - Feature an encapsulation that gradually wears away to expose a consistent short trim for higher aggression, controlled brushing action, and longer life.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number Steel
1-1/4"	.008 .014	3/8"	3/16"	5/16"	20,000	10	35293 35294
2"	.0104 .014	1/2"	1/4"	1/2"	20,000	10	35240 35070
3"	.008 .0118 .014	1/2"	1/4"	1"	20,000	10	35808 35250 35260

See Elastomer Color Code chart on page 18 for more information.

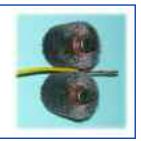
Wire Stripping Brushes

Used for removing insulation from electrical wire. These brushes are made to order according to the specifications needed for the specific application.

- When ordering, please specify:

 Brush diameter
 Brush face width
 - Arbor hole size Wire size

For application assistance, call our Application Engineering Hotline toll-free at: 888-299-APPS (2777)





- The adapters and drive arbors listed on this page are for use with small diameter wheel brushes only; do not attempt to use them with cutting or grinding wheels, buffing wheels, or any type of abrasive wheel or disc.
- Do not adapt a wheel brush for use on a shaft diameter less than that specified by ANSI B165.1 (see page 20) or exceed the maximum wheel diameter specified for a drive arbor.
- Never mount a drive arbor onto a tool which operates above the maximum RPM rating of either the arbor or the brush (whichever may be lower) and be sure that the stem of the arbor is properly secured in the collet or chuck before use.

Drive Arbors - For mounting small diameter wheels into a collet or chuck.



Plastic Adapters - For mounting small diameter wheels onto various arbor sizes.

Fixed Arbor Hole Size	Adapted Arbor Hole Size	Standard Pack	ltem Number
1/2"	1/4"	10	04400
1/2"	3/8"	10	04401
5/8"	1/2"	10	04402
3/8"	1/4"	10	04403



Removing casting flash from ductile-iron housing with an encapsulated brush.



35070



Small diameter wheels can be manufactured with different diameters than what appears in this catalog.





Removing flash from a sand-cast iron engine block.



13085



13095



17616



Crimped Wire Wheels with Nut or Stem

are intended for use primarily on small angle grinders. Featuring Weiler's solid ring construction, these radial brushes are available in heat-treated steel and Type 302 stainless steel wire.

Applications

- Removing rust and light corrosion
- Surface prep prior to welding

Removing heat discoloration and welding residuals

Crimped Wire Wheels - Provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications.



	Wire	Arbor	Face	Trim	Thickness at	Max.	Std.	Item N	umber
Dia.	Size	Hole	Width	Length	Face Plates	RPM	Pack	Steel	Stainless
4"	.006	5/8"-11 UNC	1/2"	7/8"	7/16"	14,000	5	00156	_
4"	.014	M10 x 1.50	1/2"	7/8"	7/16"	14,000	5	13076	-
		M14 x 2.0 3/8"-24 UNF						13077 13078	_
		5/8"-11 UNC						13081	13085
4"	.014	5/8"-11 UNC	1/2"	7/8"	7/16"	14,000	5	35416	_

Vortec Pro® Crimped Wire Wheel Brushes - Provide a flexible brushing action and cost-effective performance in general purpose cleaning and deburring applications.



Δ"	.014" Coarse	Carbon	5/8"-11	Narrow	14,000	36007	36207
Dia.	Wire	Wire	Arbor	Face	Max.	Display Pack	Boxed Qty.
	Size	Type	Hole	Width	RPM	Item No.	Item No.

Crimped Wire Bevel Brushes - Saucer-shaped radial wheels which provide a flexible brushing action for cleaning filet welds and into corners.



Dia.	Wire	Arbor	Face	Trim	Max.	Standard	Item Number
	Size	Hole	Width	Length	RPM	Pack	Steel
3-3/8"	.0118	M10 x 1.25 5/8"-11 UNC	1/2"	1/2"	12,500	1	13091 13095

permanently attached 1/4" stem or shank are primarily intended for use on high-speed die grinders. Although they can also be mounted onto a drill, the speed and power of that tool will limit the effectiveness of the brush. Featuring Weiler's solid ring construction, these radial wheels are available in heat-treated steel, Type 302 stainless steel, and brass wire.

Applications

- Cleaning threads
- Cleaning and finishing ID's and recessed areas
- Paint removal and surface cleaning
- Light deburring

Conflex Brushes - Small diameter copper center wheels permanently mounted onto a 1/4" stem to provide a very flexible brushing action.



	Wire	Face	Trim	Max.	Standard		Item Number	
Dia.	Size	Width	Length	RPM	Pack	Steel	Stainless	Brass
2"	.006 .0118	3/8"	1/2"	20,000	10	17609 17610	_ 17611	-
2-1/2"	.006 .014	3/8"	3/4"	20,000	10	17612 17614	_	-
3"	.008 .0118 .014	1/2"	1"	20,000	10	17615 ■ 17616 17617 ■	- - 17618	- 17641 -

Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 171 for details.

Polyflex® Encapsulated Conflex Brushes - Burgundy Elastomer* - Feature an encapsulation that gradually wears away to expose a consistent short trim for higher aggression, controlled brushing action, and longer life. 1/4" Stem.



Dia.	Wire Size	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number Steel
2"	.0118	1/4"	1/2"	20,000	10	35305
3"	.008 .0118	1/4"	1"	20,000	10	35310 35315

^{*} See Elastomer Color Code Chart on page 18 for more information.

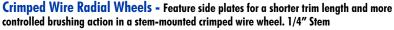


Crimped Wire Wheels with Stem

Conflex Brushes - Wide Face - Provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications; feature a wider face width to cover more area. 1/4" Stem.



	Wire	Face	Trim	Max.	Standard	Item	Number
Dia.	Size	Width	Length	RPM	Pack	Steel	Stainless
1-1/4"	.006 .008	1/2"	3/8"	20,000	10	17600 17601	
1-1/2"	.006 .008 .0118	1/2"	1/2"	20,000	10	17602 17603 17604	- - -
1-3/4"	.006 .008	1/2"	5/8"	20,000	10	17605 -	_ 17608
2"	.0118	3/4"	7/16"	20,000	10	17619	_
2-1/2"	.014	3/4"	11/16"	20,000	10	17620	_
3"	.008 .0118 .014	1"	15/16"	20,000	10	17621 17622 17623	17637 - -



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	Wire	Trim	Max.	Standard	Item N	lumber
Dia.	Size	Length	RPM	Pack	Steel	Stainless
1-1/2"	.006 .008 .0118 .014	3/8"	20,000	10	17950 17951 17952 17953	17971 17972 17973 –
2"	.006 .008 .0118 .014 .020	7/16"	20,000	10	17954 17955 17956 17957 17958	_ 17974 _ 17975 _
2-1/2"	.008 .0118 .014 .020	9/16"	20,000	10	17959 17961 17962 17963	17976 - 17977 -
3"	.008 .0118 .014 .020	13/16"	20,000	10	17964 17965 17966 17967	17978 - 17979 -
4"	.008 .014	1-5/16"	15,000	10	17968 17969	17981 17982

Vortec Pro[®] Crimped Wire Radial Wheels - Designed to be a flexible and economic small diameter brushing tool for a broad range of general purpose applications. 1/4" Stem.



Dia.	Wire Size	Wire Type	Trim Length	Max. RPM	Display Pack Item #	Boxed Qty. Item #
1-1/2"	.0118" Coarse	Carbon	3/8"	20,000	36008	36208
2"	.014" Coarse	Carbon	7/16"	20,000	36009	36209
3"	.008" Fine	Carbon	13/16"	20,000	36059	36259
	.014 Coarse	Carbon		, i	36011	36211

Concave Brushes - Saucer-shaped radial wheels permanently mounted on a 1/4" stem to provide flexible brushing action for addressing corners and hard-to-reach areas.



	Wire	Trim	Max.	Standard	Item	Number
Dia.	Size	Length	RPM	Pack	Steel	Stainless
1-1/2"	.006 .008 .0118	3/8"	20,000	10	17901 17902 17903	17930 - 17931
2"	.008 .014	1/2"	20,000	10	17906 17907	_ 17933
2-1/2"	.006 .014	5/8"	20,000	10	17909 17912	_ 17935
3"	.006 .008 .014	15/16"	20,000	10	17914 17915 17917	17936 - 17937
4"	.008 .014	1-1/4"	20,000	10	17922 17923	<u>-</u> -



Removing carbon build-up from an engine.



17603



36211







Deburring a plastic part using a nylon brush.



17233



20490



17453



20180



Nylon and Tampico Wheels

Jon Wheels - Wheel brushes filled with non-metallic filaments are primarily intended for light-duty surface cleaning and scrubbing applications as well as scratch-free finishing and polishing. Synthetic filaments such as nylon are durable and provide a very flexible brushing action in applications requiring less aggression than a wire brush. The softer fill material allows them to be used on materials that a wire brush would scratch or gouge.

Applications

- Wet or dry cleaning and scrubbing
- Sweeping loose chips and debris
- Removing burrs and die flash from plastic parts

Nylon Wheels - Feature a chemical-resistant synthetic fill material with excellent bend recovery for use in applications requiring a soft, durable fill material.



Dia.	Fill Dia.	Arbor Hole	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number
1-1/2"	.010	3/8"	1/4"	7/16"	20,000	10	29025
2"	.010 .014	1/2"	3/8"	1/2"	20,000	10	17223 17233
2-1/2"	.022	5/8"	3/8"	11/16"	20,000	10	99346
3"	.010 .016	1/2"	3/8"	1"	20,000	10	29070 17263
6"	.016	2"	3/4"	1-1/2"	6,000	2	20490
8"	.020	2"	3/4"	2-1/2"	5,000	2	20510

For arbor hole reducing adapters, see Metal Adapter Table below and plastic adapters on page 34.

intended for light-duty surface cleaning and scrubbing applications as well as scratch-free finishing and polishing. Natural vegetable fibers such as Tampico hold abrasive compounds well and can be used for deburring, edge blending, and polishing applications.

Applications

- Wet or dry cleaning and scrubbing
- Buffing and polishing non-ferrous and precious metals
- Removing burrs and blending edges with abrasive compounds

Tampico Wheels - Feature a durable vegetable fiber fill material that is chemical and heat resistant and also holds abrasive compounds well.





Dia.	Arbor Hole	Face Width	Trim Length	Max. RPM	Standard Pack	ltem Number
2-1/2"	1/2"	1/2"	3/4"	20,000	10	17443
3"	1/2"	1/2"	1"	20,000	10	17453
6"	2"	5/8"	1-1/2"	6,000	10	20180
8"	2"	5/8"	2-1/2"	5,000	5	20190

For arbor hole reducing adapters, see Metal Adapter Table below and plastic adapters on page 34.

Metal Adapters - For 6" & 8" Brushes. Used in pairs & priced per pair.

For Brush Arbor Hole Size	Adapted Arbor Hole Size	Item Number
2"	1/2" 5/8"	03809 03810
	3/4" 7/8"	03811 03824
	1" 1-1/4"	03812 03813
	1-1/2"	03814

Knot Wire Cup Brushes

Pire Cup Brushes - Wire cup brushes are intended primarily for use on portable power tools for addressing larger surface areas more efficiently than a wheel brush. Cup brushes featuring a threaded nut are designed for smooth, efficient operation on angle grinders to make quick work of large jobs. Utility cup brushes featuring a permanently-attached 1/4" stem are more suitable for smaller jobs and are recommended for use on high-speed air tools for the most effective brushing action and longest life.

Cup brushes are available in a variety of knot wire and crimped wire configurations for use in a broad range of surface cleaning applications, and they are manufactured with individual knot hole and solid ring construction for high performance and long life. Weiler's cup brushes are available in heat-treated steel, Type 302 stainless steel, and bronze or brass wire.

Applications

- Removing paint and coatings
- Cleaning rust, scale, and corrosion
- Deburring

- Weld prep and cleaning
- Removal of slag from the edges of plasma-cut or flame-cut plates

Knot Wire Cup Brushes - Single Row - Provide heavy-duty brushing action with some flexibility; ideal for demanding cleaning applications on relatively flat surfaces.

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	Wire	Arbor	Trim	Max.	Standard		<u>Item Numbe</u>	
Dia.	Size	Hole	Length	RPM	Pack	Steel	Stainless	Bronze
2-3/4"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 5/8"-11 UNC	1"	14,000	1	13015 13016 13020 13021 13025 ■	1 1 1 1	- - - -
2-3/4"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	1"	14,000	1	13281 = 13282 13283 13284 13285 13286 =	13253 13254 13255 13256 13257 13258	- - - - - 13299
3-1/2"	.023	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	7/8"	13,000	1	13150 13151 13152 13153 13155 13156	- 13159 13160 - 13163	- - - - -
3-1/2"	.014 .020	5/8"-11 UNC	1-1/4"	9,000	1	12736 12746	-	-
4"	.014 .020 .023 .035	5/8"-11 UNC	1-1/4"	10,200	1	12306 12316 = 12326	12406 - 12416 -	- 12776 - -
4"	.023	5/8"-11 UNC	1-1/4"	10,200	1	12206�	_	_
4"	.023	5/8"-11 UNC	1-1/4"	10,200	1	12826*	-	_
5"	.014 .023	5/8"-11 UNC	1-3/8"	9,000	1	12256* 12276 ■ *	-	-
6"	.014 .023 .035	5/8"-11 UNC	1-3/8"	6,600	1	12356 12376 = 12396	12456 12476 —	- - -
6"	.023	5/8"-11 UNC	1-3/8"	6,600	1	12816*	-	-
6"	.014 .023 .035	5/8"-11 UNC	1-5/8"	6,000	1	12846 12856 12866	_ 12886 _	- - -



[■] Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 171 for details.

38



Most Weiler wire brushes are 100% recyclable.



Removing slag from a flame-cut steel plate.



13016



13156



12276





Cleaning a weld joint and removing surrounding spatter with a banded knot cup brush.



36244



13301



12556



12676



Knot Wire Cup Brushes

Vortec Pro[®] Knot Wire Cup Brushes - Single Row - Provide an aggressive brushing action for general-purpose surface cleaning applications.



Dia.	Wire Size	Wire Type	Arbor Hole	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
3"	.020" Coarse	Carbon Stainless Carbon Carbon Carbon	5/8"-11 5/8"-11 M10 x 1.25 M10 x 1.50 M14 x 2.0	14,000	36038 36039 36041 36042 36043	36238 36239 36241 36242 36243
3-1/2"	.020" Coarse	Carbon	5/8"-11	13,000	36066	_
4"	.025" Coarse	Carbon	5/8"-11	10,200	36044	36244
5"	.023" Coarse	Carbon	5/8"-11	7,000	36070	_
6"	.025" Coarse	Carbon	5/8"-11	6,600	36045	36245

Knot Wire Cup Brushes - Banded - Single Row - Feature a removable metal band around fill material to reduce the exposed trim length and limit brush flaring at operating speed to provide a very aggressive, controlled brushing action.



	Wire	Arbor	Trim	Max.	Standard	Item N	umber
Dia.	Size	Hole	Length	RPM	Pack	Steel	Stainless
2-3/4"	.014 .020	5/8"-11 UNC	5/8"	12,500	1	13300 13301	_ 13302
4"	.023	5/8"-11 UNC	7/8"	10,200	1	12301	_
5"	.023	5/8"-11 UNC	7/8"	6,600	1	12120	_

Knot Wire Cup Brushes - 1-1/2 Rows - Feature an internal nut for use on dedicated equipment such as line traveling machines that clean and prep OD of pipe prior to coating.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Std. Pack	Item Number - Steel
4"	.023	5/8"-11 UNC	1-1/4"	7,000	1	94012
6"	.030	5/8"-11 UNC	1-3/8"	4,000	1	94092

Knot Wire Cup Brushes - Double Row - Provide very aggressive brushing while still maintaining some flexibility; ideal for severe cleaning applications.



Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Standard Pack	Item No Steel	umber Stainless
4"	.014 .020	5/8"-11 UNC	1-1/4"	9,000	1	12756 12766	_ 12726
6"	.014 .023 .035	5/8"-11 UNC	1-3/8"	6,600	1	12536 12556 12576	12636 —
6"	.014 .023 .035	5/8"-11 UNC	1-1/2"	6,000	1	12906 12916 12926	- - -

Knot Wire Cup Brushes - Banded - Double Row - Feature a removable metal band around fill material to reduce the exposed trim length and limit brush flaring to provide an extremely aggressive, controlled brushing action for the most severe applications.



Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Std. Pack	Item Number - Steel
4"	.020	5/8"-11 UNC	7/8"	9,000	1	12796
6"	.023 .035	5/8"-11 UNC	7/8"	6,600	1	12676 12686

Polyflex™ Encapsulated Crimped Wire Cup Brushes - Feature fill material that has been encapsulated in an elastomer which gradually wears away to keep only the wire tips exposed; ideal for applications on flat surfaces that require maximum aggression but no flexibility in the brushing action.



Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Std. Pack	Item Number - Steel						
3-1/2"	.014	5/8"-11 UNC	7/8"	12,000	1	35406						
4"	.020	5/8"-11 UNC	1-1/8"	9,000	1	35186						
6"	6" .020 5/8"-11 UNC 1-1/4" 6,000 1 35006											
	Orange Elastomer* - Heavy-Duty											
6"	.020	5/8"-11 UNC	1-1/4"	6,000	1	35530						
	Black Elastomer* - Extra Heavy-Duty											
6"	.020	5/8"-11 UNC	1-1/4"	6,000	1	35760						

^{*} See Elastomer Color Code Chart on page 18 for more information.

Crimped Wire Cup Brushes

Crimped Wire Cup Brushes - Very flexible brushing action and the most consistent performance for demanding light-duty cleaning applications; feature a threaded nut for use on angle grinders.



Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Standard Pack	Item N Steel	umber Stainless
3"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	1"	14,000	1	13240 ■ ▲ 13241 13242 13243 13244 13245 ■	- - - -
3-1/2"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	7/8"	12,000	1	13175 13176 13177 13178 - 13181	13182 13183 13184 13185 13187 13188
4"	.0118 .014 .020	5/8"-11 UNC	1-3/8"	10,200	1	14016 14026 14036 ■ ▲	- - 14126
5"	.014 .020	5/8"-11 UNC	1-1/4"	9,000	1	14206 ▲ 14216	_ 14256
6"	.014 .020	5/8"-11 UNC	1-1/4"	6,600	1	14066 ▲* 14076 ■ *	_ 14166*

With internal nut

Vortec Pro® Crimped Wire Cup Brushes - Provide flexible brushing action and cost-effective performance in general purpose cleaning applications.

	. J		· p			
Dia.	Wire Size	Wire Type	Arbor Hole	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
3"	.014" Coarse	Carbon	5/8"-11 1/2"-13 M10 x 1.25 M10 x 1.50 M14 x 2.0	14,000	36031 36032 36033 36034 36035	36231 36232 36233 36234 36235
3-1/2"	.014" Coarse	Carbon	5/8"-11	12,000	36068	_
4"	.020" Coarse	Carbon	5/8"-11	9,000	36036	36236
5"	.020" Coarse	Carbon	5/8"-11	9,000	36061	36261
6"	.020" Coarse	Carbon	5/8"-11	6,600	36037	36237

Brushes with Stem - Designed primarily for use on high speed die grinders, cup brushes with permanently attached stems can also be used on drills.

Utility Crimped Wire Cup Brushes - Smaller diameter cup brushes which provide flexible brushing action and consistent performance for more demanding light-duty cleaning applications; featuring a 1/4" stem for use on air tools.

	Wire	Trim	Max.	Standard	lt.	em Number	
Dia.	Size	Length	RPM	Pack	Steel	Stainless	Brass
1-3/4"	.006 .0118	3/4"	13,000	10	14300 14301	14303 14304	14310 14314
2"	.008 .0118	5/8"	13,000	10	14313 14306	14318 14319	<u>-</u>
2-1/2"	.008 .014	7/8"	13,000	10	14315 1431 <i>7</i>	14320 14321	-
2-3/4"	.0118	7/8"	6,000	1	14302	_	14311

Vortec Pro[®] Utility Crimped Wire Cup Brushes - Designed to be a flexible and economic small diameter brushing tool for a broad range of general purpose applications using air tools or drills. 1/4" Stem.

ı							
	Dia.	Wire Size	Wire Type	Trim Length	Max. RPM	Display Pack Item #	Boxed Qty. Item #
	2"	.008" Fine .014" Coarse	Carbon Carbon	5/8"	13,000	36060 36029	36260 36229
	3"	.014" Coarse	Carbon	7/8"	13,000	36030	36230

40



Removing paint from a steel surface with a crimped wire cup brush.



13245



14301





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[▲] Available in non-sparking brass & bronze wire, see page 57 for details.

[■] Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.



Cleaning a weld with a stringer bead wheel brush.







small Angle Grinder Brushes - These industrial grade brushes are specifically designed to provide the smoothest, most efficient brushing action on 4" and 4-1/2" mini-grinders. Featuring Weiler's individual knot hole and solid ring product construction, these perfectly balanced brushes produce minimal vibration in use, reducing operator fatigue and providing longer life.

Weiler's wide selection of thread sizes and assortment of threaded adapters permit these high performance brushes to be used on all popular brands of mini-grinders. See the Small Angle Grinder Reference Chart on page 44 for help in selecting the right product for use on your specific grinder.

Applications

- Removing paint and coatings
- Cleaning rust, scale and corrosion
- Light deburring

- Weld prep and cleaning
- Removal of slag from the edges of plasma-cut or flame-cut plates

Knot Wire Wheels - Standard Twist - Provide heavy-duty brushing action with some flexibility; ideal for demanding cleaning applications on somewhat irregular surfaces.



Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item N Steel	umber Stainless
3" 4"	.014 .014	3/8"-24 UNF M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	20 24	3/8" 1/2"	5/8" 7/8"	7/16" 7/16"	25,000 20,000	5 5	13201 13100 13101 13102 13103 13105 13106	13208 13107 13108 13109 13110 - 13113 ■
4"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	24	1/2"	7/8"	7/16"	20,000	5	13114 13115 13116 13117 13119 13120	- - - - -

■ Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.

Knot Wire Wheels - Cable Twist - Provide maximum brushing action with minimal flexibility; ideal for demanding cleaning and coating removal applications on relatively smooth surfaces.



Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item Nu Steel	umber Stainless
4"	.020	M10 x 1.25 M10 x 1.50 5/8"-11 UNC	24	1/4"	7/8"	7/16"	20,000	5	13261 - 13266 ■	- 13272 13276

■ Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.

Knot Wire Wheels - Stringer Bead Twist - Provide maximum impact action for fast removal of slag, spatter, and oxidation. The 4" Mini Roughneck and the 4-1/2" Roughneck Jr. feature a narrow face width suitable for cleaning welds and reaching into corners



D)ia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item N	umber Stainless
	1"	.020	1/2"-3/8" M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC		3/16"	7/8"	7/16"	20,000	5	13124 13125 ■ 13126 13127 13128 13130 13131 ■	08954* 13132 13133 13134 13135 13137 13138
4-	1/2"	.020	5/8"-11 UNC M14 x 2.0 7/8"	38	3/16"	13/16"	3/8"	12,500	5	13232 13233 13234	13238 13239 13249

Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details. *Standard Pack 10



Polyflex™ Encapsulated Knot Wire Wheels - Stringer Bead Twist. Black Elastomer* -

Feature a heat-stabilized encapsulation that gradually wears away to keep only the wire tips exposed for maximum aggression; suitable for cleaning hot welds.



See Elastomer Color Code Chart on page 18 for more information.

Crimped Wire Wheels - Provide flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Std. Pack	Item N	umber Stainless
4"	.014	M10 x 1.50 M14 x 2.0 3/8"-24 UNF 5/8"-11 UNC	1/2"	7/8"	7/16"	14,000	5	13076 13077 13078 13081	- - - 13085

Polyflex™ Encapsulated Crimped Wire Wheel - Burgundy Elastomer* - Feature fill material that has been encapsulated in an elastomer which gradually wears away to keep only the wire tips exposed; ideal for applications that require maximum aggression but no flexibility to the brushing action.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plate	Max. RPM	Std. Pack	Item Number Steel
4"	.014	5/8"-11 UNC	1/2"	7/8"	7/16"	14,000	5	35416

^{*}See Elastomer Color Code Chart on page 18 for more information.

Knot Wire Bevel Brushes - Saucer-shaped radial wheels which provide a heavy-duty brushing action with some flexibility; ideal for cleaning filet welds and into corners.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. RPM	Std. Pack	Item Number Steel Stainless	
Diu.	JIZE	Hole	KIIOI3	Wiuiii	,	KI M	TUCK	Sieei	Sidiniess
4"	.014	M10 x 1.25 M10 x 1.50 5/8"-11 UNC	20	3/8"	3/4"	12,500	1	13401 13402 13406	- 13412 13416
4"	.020	M14 x 2.0 5/8"-11 UNC	20	3/8"	3/4"	12,500	1	13423 13426	_ 13436
4-1/2"	.014 .020	5/8"-11 UNC	20	3/8"	1"	12,500	1	13456 13476	13466 13486

Crimped Wire Bevel Brushes - Saucer-shaped radial wheels which provide a more flexible brushing action for cleaning filet welds and into corners.

Dia.	Wire	Arbor	Face	Trim	Max.	Standard	Item Number
	Size	Hole	Width	Length	RPM	Pack	Steel
3-3/8"	.0118	M10 x 1.25 5/8"-11 UNC	1/2"	1/2"	12,500	1	13091 13095

Threaded Adapters - For mounting brushes with a 5/8"-11 UNC nut to other threaded spindles.

Fixed Thread Size	Adapted Thread Size	Standard Pack	Item Number
5/8" - 11 UNC	M10 x 1.25	10	07771 ■
5/8" - 11 UNC	M10 x 1.50	10	07772 ■
5/8" - 11 UNC	3/8" - 16 UNC	10	07769
5/8" - 11 UNC	3/8" - 24 UNF	10	07746

Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.



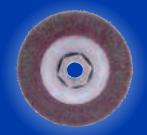
Prepping the bevel end of a stainless pipe for welding.



35800



13085



35416



13456



13095









Removing paint from a metal surface with a crimped wire cup brush.



13016



13711



13245



35406

Knot Wire Cup Brushes - Provide heavy-duty brushing action with some flexibility; ideal for demanding cleaning applications on relatively flat surfaces.



	Wire	Arbor	Trim	Max.	Standard	Item N	
Dia.	Size	Hole	Length	RPM	Pack	Steel	Stainless
2-3/4"	.014	M10 x 1.25	1"	14,000	1	13015	_
		M10 x 1.50				13016	_
		M14 x 2.0				13020	_
		3/8"-24 UNF				13021	_
		5/8"-11 UNC				13025 ■	_
2-3/4"	.020	M10 x 1.25	1"	14,000	1	13281 ■	13253
		M10 x 1.50				13282	13254
		M14 x 2.0				13283	13255
		3/8"-24 UNF				13284	13256
		1/2"-13 UNC				13285	13257
		5/8"-11 UNC				13286 ■	13258
3-1/2"	.023	M10 x 1.25	7/8"	13,000	1	13150	_
		M10 x 1.50				13151	_
		M14 x 2.0				13152	13159
		3/8"-24 UNF				13153	13160
		1/2"-13 UNC				13155	_
		5/8"-11 UNC				13156 ■	13163

[■] Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 171 for details.

Knot Wire Cup Brushes - Hurricane Twist - Provide very smooth brushing action and extended life with reduced cleaning action.



Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Std. Pack	Item N Steel	umber Stainless
2-3/4"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 5/8"-11 UNC	3/4"	14,000	1	13715 13716 13717 13718	- - - -
2-3/4"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 5/8"-11 UNC	3/4"	14,000	1	13709 13710 13711 13712	13719 13720 13721 13722

Crimped Wire Cup Brushes - Provide very flexible brushing action and the most consistent performance for lighter-duty cleaning applications on somewhat irregular surfaces.



	Wire	Arbor	Trim	Max.	Std.	Item N	
Dia.	Size	Hole	Length	RPM	Pack	Steel	Stainless
3"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	1"	14,000	1	13240 = 13241 13242 13243 13244 13245 =	- - - - -
3-1/2"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	7/8"	12,000	1	13175 13176 13177 13178 - 13181	13182 13183 13184 13185 13187 13188

[■] Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 170 for details.

Polyflex® Encapsulated Crimped Wire Cup Brush - Burgundy Elastomer* - Features fill material that has been encapsulated in an elastomer which gradually wears away to keep only the wire tips exposed; ideal for applications on flat surfaces that require maximum aggression but no flexibility to the brushing action.



	Wire	Arbor	Trim	Max.	Standard	Item Number
Dia.	Size	Hole	Length	RPM	Pack	Steel
3-1/2"	.014	5/8"-11 UNC	7/8"	12,000	1	35406

^{*}See Elastomer Color Code Chart on page 18 for more information.



Small Angle Grinder Reference Chart - Lists the thread size of popular mini-grinders to help you select the appropriate Weiler brush for your tool.

	Model	Male	Grinder	Max.
Manufacturer	Numbers	Thread Size	Size	RPM
AEG	WS601	5/8-11	4-1/2"	10,000
Black & Decker	6246	M10 x 1.50	4"	10,000
	2750/2750G	5/8-11	4-1/2"	10,000
	4252	5/8-11	5"	10,000
	7750	5/8-11	4-1/2"	10,000
	G750/G850	5/8-11	4-1/2"	10,000
	FS6500AG	5/8-11	4-1/2"	10,000
- I	G950	5/8-11	4-1/2"	10,000
Bosch	1347A	5/8-11	4-1/2"	11,000
	1375/1375A 1700/1710D	5/8-11 5/8-11	4-1/2" 4-1/2"	11,000 11,000
	1800/1710D 1800/1810PS	5/8-11	4-1/2 4-1/2"	11,000
	1701/1711D	5/8-11	5"	11,000
	1703EVS	5/8-11	5"	11,000
	1711/1801	5/8-11	5"	11,000
	1811PS	5/8-11	5"	11,000
	1803EVS	5/8-11	5"	11,000
	1347	M14 x 2.0	4-1/2"	11,000
	1348/1348E	M14 x 2.0	5"	11,000
	1347A/1348AE	5/8-11	5" 	11,000
D W 1:	7352-111 Air	M14 x 2.0	5"	12,000
DeWalt	DW831	5/8-11	5"	10,000
	DW802G D28110	5/8-11 5/8-11	4-1/2" 4-1/2"	10,000 11,000
	D28110 D28402/D28112		4-1/2 4-1/2"	11,000
	D28114	5/8-11	4-1/2" / 5"	11,000
	D28131	5/8-11	4-1/2 / 5"	11,000
	DW402/DW400	5/8-11	4-1/2"	10,000
Hilti	AG 125-SE	M14	5"	11,000
	AG 125-S	M14	5"	11,000
	DEG 500-D	5/8-11	5"	11,000
	HG 500-D	5/8-11	5"	11,000
	DC 500-S	5/8-11	5"	11,000
	DAG 450-S	5/8-11	4-1/2"	11,000
	DAG 451-S	5/8-11	4-1/2"	11,000
	HG450 HG500/DC500	5/8-11 5/8-11	4-1/2" 5"	11,000 11,000
Hitachi	G10SR2	M10 X 1.25	4"	11,000
illiaciii	G12SA3/G12SE2		4-1/2"	10,000
	G12SR2	M10 X 1.25	4-1/2"	11,000
	G13SC2	5/8-11	5"	10,000
	G10SD1	M10 x 1.50	4"	11,000
	G12SA	5/8-11	4-1/2"	10,000
	G12S1	5/8-11	4-1/2"	11,000
	G13SC	5/8-11	5"	11,000
Ingersoll-Rand		3/8-24	4"	12,000
	AG230P1045	5/8-11	4-1/2"	12,000
	AG230P105 3445	5/8-11 5/8-11	5" 4-1/2"	12,000 12,000
	3443 TA120RP64	5/8-11 3/8-24	4-1/2" 4"	12,000
	HA120RP64	3/8-24 3/8-24	4"	12,000
	HA120RP1045	5/8-11	4-1/2"	12,000
	IR344	3/8 - 24	4"	13,500
Jepson	4601	M10 X 1.25	4"	11,000
-	4205	5/8-11	5"	10,000
	4105N	M14	5"	10,000
	4045	5/8-11	4-1/2"	11,000
	4050	M14	5"	11,000
Jet	JSM-619	3/8-24	4" 5"	11,000
	JSM-6195B	5/8-11	5" 4"	11,000
	JEG-400HD	3/8-16	4" 4 1/2"	11,500
	JEG-450 JEG-500	5/8-11 5/8-11	4-1/2" 5"	11,500 9,800
	150-300	J/0-11	ر	7,000

Manufacturer	Model Numbers	Male Thread Size	Grinder Size	Max. RPM
Makita	9553NB	M10 X 1.25	4"	11,000
	9564	5/8-11	4-1/2"	10,500
	9527PB/9557PB 9557NB	5/8-11 5/8-11	4-1/2" 4-1/2"	10,000 11,000
	9554NB	5/8-11	4-1/2 4-1/2"	10,000
	9558NB	5/8-11	5"	11,000
	9565	5/8-11	5"	10,500
	9015A/9558PB	5/8-11	5"	10,000
	9005B	5/8-11	5"	10,000
	9514B	M10 x 1.25	4"	11,000
	9501BZ	M10 x 1.25	4" 4"	10,000 10,000
	9501BKW 9526PB	M10 x 1.25 M10 x 1.50	4 4"	10,000
	9503BHZ	5/8-11	4-1/2"	10,000
	9527PB	5/8-11	4-1/2"	10,000
	9505BHZ/9528PE		5"	10,000
Metabo	W 7-115	5/8-11	4-1/2"	10,000
	W 7-125	5/8-11	5"	9,000
	WE 9-125	5/8-11	5"	10,000
	W 10-125	5/8-11	5"	10,000
	WE 14-125 W14-125	5/8-11 5/8-11	5" 5"	10,500 10,000
	7010	M14 x 2.0	4-1/2"	10,000
	6014/7015	5/"-11	4-1/2"	10,000
	EWE9125S	5/8-11	4-1/2"	1,750-8,000
	11025	5/8-11	4-1/2"/5"	10,000
	7026/10125	5/8-11	5"	8,500
	9023	5/8-11	5"	10,000
	9025	5/8-11	5"	10,000
	11050	5/8-11 5/8-11	6" 4 1/2"	8,500 1,700-8,500
Milwaukee	7016 6140-6	5/8-11 5/8-11	4-1/2" 4-1/2"	10,000
Electric Tool	6145	1/2-13	4-1/2"	10,000
	6148-6	5/8-11	4-1/2"	10,000
	6141	5/8-11	5"	10,000
	6149-20	5/8-11	5"	10,000
	6151	5/8-11	4-1/2"	10,000
	6153-20	5/8-11	4-1/2"	11,000
	6154-20	5/8-11	4-1/2" 5"	11,000
	6155-20 6156-20	5/8-11 5/8-11	5"	11,000 11,000
	6140/6142	5/8-11	4-1/2"	10,000
	6145	1/2-13	4-1/2"	10,000
	6146	1/2-13	5"	10,000
Porter Cable	749/8749	M14 x 2.0	4-1/2"	12,000
	7406	5/8-11	4-1/2"	10,000
<u> </u>	7405	5/8-11	5"	10,000
Ryobi	AG401	5/8-11	4"	11,000
	AG450 SG-1000K	5/8-11 3/8-16	4-1/2" 4"	11,000 11,000
	G -1155-C	5/8-11	4-1/2"	11,000
	G -1125-C	5/8-11	5"	10,000
Sioux	1240	M10 x 1.50	4-1/2"	11,000
	1240A	M10 x 1.25	4-1/2"	11,000
	1245	5/8-11	5"	10,000
Skil	9290-01	5/8-11	4-1/2"	11,500
	9330-01	5/8-11 5/8-11	4-1/2"	11,000
	9325-01 9410/(9410:02)	5/8-11 M10 x 1.50	4-1/2" 4-1/2"	11,000 12,000
	9310/9410:02)	M10 x 1.50 5/8-11	4-1/2 4-1/2"	11,000
	9611/(9611:02)	5/8-11	4-1/2"	12,000
	HD9611	5/8-11	4-1/2"	12,000
		-		





Cleaning hard-to-reach fillet welds on a gusseted base plate.



10026



86251



1141



Knot Wire End Brushes

Sem-Mounted End Brushes - Wire end brushes are intended primarily for use on high-speed portable power tools for addressing smaller surfaces and recessed areas. End brushes feature an integral 1/4" steel stem for sate operation at high speed and quick mounting into the collet or chuck of either electric or pneumatic die grinders.

End brushes are available in a variety of knot wire and crimped wire configurations for use in a broad range of applications, and they are manufactured with the highest quality construction for smooth, efficient performance and long life. Weiler's end brushes are available in heat-treated steel, Type 302 stainless steel, and bronze or brass wire.

Applications

- Cleaning ID's, internal passages and recessed areas
- Deburring internal edges and crosshole intersections
- Removal of die flash and excess molded material
- Spot facing

Knot Wire End Brushes - Feature a hollow end and heavy-duty brushing action with some flexibility; ideal for more demanding cleaning applications in recessed areas.



	Wire	Trim	Max.	Standard		tem Number	
Dia.	Size	Length	RPM	Pack	Steel	Stainless	Bronze
1/2"	.006 .0104 .014	1-1/8"	20,000	10	- 10208 10217	10215 10216 10218	- - -
3/4"	.006 .0104 .014 .014 .020	1-1/8" 7/8"	20,000 22,000	10	10210 10025 = - 10026 =	10220 10211 10029 10387 + 10030 10388 +	- - - -
1-1/8"	.006 .0104 .0118 .014 .014 .020	1" 1-1/8" 7/8"	20,000	10	10141 10212 10187 10027 = - 10028 =	10142 • 10213 - 10031 10392 • 10032 10393 •	- - - - 10067

◆ Nickel-plated Cup compliant with DOD MIL STD 2041D(SH)

- Coated Cup
- Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 171 for details.

Vortec Pro® Knot Wire End Brushes - Feature similar hollow-end construction and heavyduty brushing action, but they have been engineered to provide cost-effective use for less demanding applications.



Dia.	Wire Size	Wire Type	Trim Length	Max. RPM	Display Pack Item No.	Boxed Qty. Item No.
3/4"	.014" Fine .014" Fine .020" Coarse	Carbon Stainless Carbon	7/8"	22,000	- - 36050	36286 36287 36250
1"	.014" Fine .014" Fine .020" Coarse	Carbon Stainless Carbon	7/8"	22,000	- - 36051	36288 36289 36251

Knot Wire End Brushes - Banded - Feature a pair of bands around the fill to reduce the exposed trim length and limit brush flaring at operating speed to provide a very aggressive, controlled brushing action.



Dia.	Wire	Trim *	Max.	Standard	Item Number
	Size	Length	RPM	Pack	Steel
1-1/8"	.014 .020	3/8"	18,000	10	11140 11141

^{*} Trim length from bands



Mount End Brushes Safely - When mounting end brushes, the amount of overhang from the tool should be minimized by clamping on as much of the straight portion of the stem as possible. However, the collet or chuck should NOT clamp on the radius at the base of the stem to insure a secure hold before use. See photo on left for the correct brush orientation.

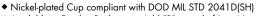


Crimped Wire End Brushes

Crimped Wire End Brushes - Feature a solid end construction and very flexible brushing action ideal for more demanding light-duty cleaning applications in corners and hard-to-reach areas.



	Wire	Trim	Max.	Standard		Item Number	
Dia.	Size	Length	RPM	Pack	Steel	Brass	Stainless
3/8"	.006 .0118	7/8"	20,000	10	10186 10188	_	-
1/2"	.005 .006 .006 .006 .0104 .0104 .0104 .014 .014 .020	7/8"	25,000	10	10001 11000 • - 10002 11001 • - 10003 - 10004	10158 - - - - - - - - -	
3/4"	.006 .006 .006 .0104 .0104 .0104 .014 .014 .020	7/8"	22,000	10	10005 11003 • 10006 11004 • 10007 10008	-	10017 11013 • 10374 • 10018 11014 • 10375 • 10019 10376 • 10020 10377 •
1"	.005 .006 .006 .006 .0104 .0104 .0104 .0118	7/8" 1" 7/8" 1" 7/8" 1"	20,000 22,000 22,000 20,000 22,000	10		10128 - - 10022 - 10091	- 10021 11016 • 10378 • - 11017 • 10379 • - 10023
	.014 .020 .020	1-1/8"	·		10012 =	- - -	10380 + 10024 10381 +



• Coated Cup ■ Available in Display Packaging. Add "P" to end of Item Number when placing order. See page 171 for details.

Vortec Pro® Crimped Wire End Brushes - Feature similar solid end construction and flexible brushing action, but they have been engineered to provide cost-effective use for less demanding applications.

Dia.	Wire Size	Wire Type	Trim Length	Max. RPM	Display Pack Item #	Boxed Qty. Item #
1/2"	.006" Fine .006" Fine .0104" Medium	Carbon Stainless Carbon	7/8"	25,000	- - -	36280 36281 36282
3/4"	.006" Fine .0104" Medium .014" Coarse	Stainless Carbon Carbon	7/8"	22,000	- 36047 36046	36283 36247 36246
1"	.006" Fine .006" Fine .0104" Medium	Carbon Stainless Carbon	7/8"	22,000	- - 36049	36284 36285 36249



.014" Coarse



1. Insert Brush

Carbon





36048



36248

2. Apply Power 3. Shut-Off Power

When brushing a recessed area or the inside diameter of a tube, use an End Brush in the following manner: Insert the brush, start the brush rotating. Turn off the power before removing the brush. This will prevent the brush from flaring out and enable it to fit into the recessed area again.



Cleaning the exhaust port of a gasoline engine.



11013



10009



36247



Cleaning a filet weld on aluminum using a controlled flare end brush.



11112



10310





Crimped Wire End Brushes

Crimped Wire End Brushes - Banded - Feature a pair of bands around the fill to reduce the exposed trim length and limit brush flaring at operating speed to provide an aggressive, controlled brushing action.



	Wire	Trim *	Max.	Standard		Item Number	
Dia.	Size	Length	RPM	Pack	Steel	Stainless	Aluminum
1/2"	.006 .0104	9/16"	20,000 25,000	10	11100 11101	11110 -	
3/4"	.006 .0104	7/16" 3/8"	20,000	10	11102 11103	11112 11113	-
1"	.006 .0104	3/8"	10,000	10	_ 11105	11114 11115	-
1"	.008	3/4"	20,000	10	_	_	10160

^{*} Trim length from bands

Controlled Flare End Brushes - Feature uniquely trimmed crimped wire fill for more effective brushing action and greatly enhanced durability when cleaning corners and filet welds.



	Wire	Trim	Max.	Standard	Item I	Number
Dia.	Size	Length	RPM	Pack	Steel	Stainless
1/2"	.0104 .014 .020	7/8"	25,000	10	10301 10302 10303	10313 10314 10315
3/4"	.0104 .014 .020	7/8"	22,000	10	10305 10306 10307	10317 — 10319
1"	.0104 .014 .020	1" 1-1/8"	22,000	10	10309 10310 10311	10321 10322 10323

Patent pending

The unique trim of a controlled flare end brush is designed specifically to address hard-toreach areas, reducing filament fatigue and breakage typically associated with a standard end brush when cleaning corners and filet welds.



Standard Crimped Wire End Brush



Pilot Bonding Brushes - Banded to expose a short 3/8" trim length of crimped stainless wire and feature a pilot in the center of their solid end. They were originally designed to clean around rivet holes in aluminum aircraft panels but may be used in other similar applications.



Polyflex® Encapsulated Crimped Wire End Brushes - Burgundy Elastomer* -

Feature fill material that has been encapsulated in an elastomer which gradually wears away to keep only the wire tips exposed; ideal for applications such as spot facing which may require maximum aggression and no flaring.



	Wire	Trim	Max.	Standard	Item N	lumber
Dia.	Size	Length	RPM	Pack	Steel	Stainless
1/2"	.0104	7/8"	18,000	10	35340	35500
3/4"	.0104	7/8"	16,000	10	35345	35505
1"	.0104	7/8"	14,000	10	35350	_
		Orange	Elastomer* - Hea	vy-Duty		
1/2"	.0104	7/8"	18,000	10	35535	_
3/4"	.0104	7/8"	16,000	10	35540	_
1"	.0104	7/8"	14,000	10	35545	_

^{*} See Elastomer Color Code Chart on page 18 for more information.

Crimped Wire End & Square Brushes

Circular Flared End Brushes - Feature crimped wire fill which has been "pre-flared" to match the working angle of the brush at operating speed; suited for addressing broad and slightly contoured surfaces.



	Wire	Max.	Standard	Item	Number
Dia.	Size	RPM	Pack	Steel	Stainless
1"	.006 .008 .020	25,000	1	10033 10034 10099	10042 10043 —
1-1/4"	.006 .008	20,000	1	10076 10035	_
1-1/2"	.006 .008 .020	20,000	1	10044 10037 10038	10045 10046 10047
2"	.014	25,000	2	11142	-
2-3/4"	.008 .020	16,000	2	10039 10040	10048 —
3"	.006 .008 .014 .020	16,000	2	10150 10041 10134 10073	10151 10050 - 10074
4"	.008	15,000	1	_	96705



0.D.	Wire	Сир	Max.	Standard	Item Number		
Dia.	Size	Size	RPM	Pack	Steel	Stainless	
1-3/4"	.006 .0104 .020	3/4"	25,000	2	35222 35223 35224	35226 —	
2"	.0104 .020	3/4"	20,000	2	35233 35234	=	
2-3/4"	.006 .0104 .020	1"	16,000	2	35296 35297 35298	- 35299 -	

^{*} See Elastomer Color Code Chart on page 18 for more information.

Pencil End Brushes - Contains straight wire fill material retained in a small diameter steel tube. They provide a light-duty brushing actions suitable for very small recessed areas.

ń	7

•	Tube Wire Trim Overall Max. Standard Item Number							
	Dia.	Size	Length	Length	RPM	Pack	Steel	Stainless
•	1/4"	.0104	3/4"	3-3/4"	8,000	10	99825	99823

the side and bottom of blind bores or circular recesses. Square brushes feature an integral 1/4" steel stem for safe operation and quick mounting into the chuck of a drill or drill press.

Applications

- Removing light rust and carbon build-up from ID's
- Deburring internal edges and crosshole intersections

Square Brushes - Feature crimped wire construction for a very flexible brushing action for light-duty cleaning and deburring of ID's and passages.



Sq. Dia.	Wire Size	Overall Length	Max. RPM	Standard Pack	Item Number Steel
1"	.006	3-5/8"	4,500	10	33000
1-1/16"	.006	3-11/16"	4,500	10	33002
1-1/2"	.006	3-7/8"	4,500	10	33005
1-7/8"	.006	4-1/16"	4,500	10	33009



Cleaning the sides and bottom of a deep drawn part using a square brush.

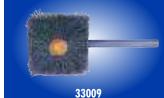


10041



35297





Weiler



Deburring intersecting oil passages in an engine block.





17218



Replacement Head



Reusable Arbor

Crosshole Deburring Brushes

Brushes - Weiler's crimped wire Bore-Rx brushes are designed for automated use in CNC machining centers and dedicated equipment. They are densely filled for high aggression and long tool life and feature a 3/8" diameter steel stem with a flat for use in a collet or end-mill holder.

Bore-Rx brushes are ideal tools for removing burrs from internal edges. Since they can eliminate manual deburring operations, these internal brushing tools help to improve part-to-part consistency and reduce direct labor costs. Bore-Rx brushes are available in sizes ranging from 3/4" to 4" in diameter, and they are designed to be interpolated within bore sizes that are larger than the brush diameter.

Bore-Rx Brushing Tools - Wire Fill - Feature dense crimped wire fill for aggressive deburring action on ductile metals and other hard-to-deburr materials.

Dia.	Wire Size	Face Width	Overall Length	Max. RPM	Standard Pack	ltem Number
3/4"	.005	3/8" 3/4"	4-3/8" 4-3/4"	8,000	1	17202 17203
7/8"	.006	3/4"	4-3/4"	8,000	1	17205
1"	.006	3/4"	5"	8,000	1	17207
1-1/4"	.006	3/4"	4-3/4"	8,000	1	17209
1-1/2"	.006	1"	5"	8,000	1	17211
2"	.006	1"	4-1/4"	6,000	1	17214
2-1/2"	.008	1"	4-3/4"	6,000	1	17216
3"	.008	1"	5-1/4"	6,000	1	17218
4"	.0118	1"	6-1/4"	6,000	1	17219

^{*} Stainless Steel fill is available by special order.

Note: All Bore-Rx brush stems have a 2" long flat for use in end mill holders. Alternatively, they can be mounted in 3/8" collets. Bore-Rx extension holder is available. Contact Application Engineering at 888-299-APPS (2777).

Replacement Bore-Rx Brush Heads and Reusable Bore-Rx Arbors

In high production applications, reusable arbors reduce manufacturing costs by allowing the use of inexpensive brush head replacements. Brush heads are made-to-order in diameters ranging from 3/4" to 2" with face widths of 1/4" to 1". They are available on 3/16" and 1/4" pins. The pin diameter is based on the application and determines brush density. Contact Application Engineering at 888-299-APPS (2777) for more information.



Operating Parameters For Wire Bore-Rx Brushes

Brush Diameter	Recommended RPM	Recommended Feed Rate
5/8" - 7/8"	8,000	20"/min
1" - 1-1/2"	8,000	20"/min
2" - 2-1/2"	6,000	20"/min
3" - 4"	3,000	20"/min

Tool Paths for Crosshole Deburring

An effective tool path for most crosshole deburring jobs is circular interpolation using the following guidelines to determine diameter of interpolation. The interpolation should be performed at a depth where the center of the brush face is at the center of the intersecting hole.

■ Diameter of Interpolation = Hole Diameter - Brush Diameter



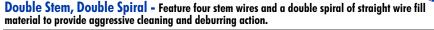
Power and Hand Tube Brushes

wer and Hand Tube Brushes - Weiler offers a comprehensive line of power and hand tube brushes for internal cleaning and deburring applications in tubing, pipe, drilled-and-tapped holes, and machined bores and passages. Due to their twisted-in-wire construction, the use of power tube brushes is limited to low-speed power tools such drills and drill presses and to CNC and manual machine tools in which the RPM can be precisely programmed or set. In addition, they should not be used in reverse rotation to prevent unraveling of the stem wire. Available in a wide variety of brush configurations and fill materials, Weiler can supply a tube brush for any application. If you do not see what you need in this catalog, see the Special Tube Brush Design Specification Sheet on page 54, or call our toll-free Application Engineering Hotline at 888-299-APPS(2777) for assistance.

Applications

- Deburring and cleaning drilled-andtapped holes and other internal threads
- Cleaning and finishing the ID of tubing and pipe
- Crosshole deburring

- Removing burrs and chips from internal keyways, slots, and grooves
- Removing paint, coatings, and build-up other foreign material from the surfaces of bores and passages





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II	

	Wire	Brush	Stem	Overall	Standard	l l	em Number	
Dia.	Size	Part	Dia.	Length	Pack	Steel	Stainless	Brass
3/8"	.003 .006	1-1/2" 2-1/8"	1/8"	4" 6"	10	21342 21232	_	_
1/2"	.004 .006 .0104	2"	5/32"	5"	10	21106 21107 21252	21116 21117 –	21178 –
5/8"	.005 .008 .0104	2"	7/32"	5"	10	21108 21109 21184	21118 21119 –	21219 —
3/4"	.006 .008 .0104	2-1/2"	1/4"	5-1/2"	10	21110 21247 21111	21120 _ 21121	21179 - -
7/8"	.006 .0104	2-1/2"	1/4"	5-1/2"	10	21112 21113	21122 21123	_
1"	.006 .0104	2-1/2"	1/4"	5-1/2"	10	21114 21115	21124 21125	21218 —
1-1/4"	.006 .0104	2-1/2"	1/4"	5-1/2"	10	21164 21167	21245 21236	_
1-1/2"	.014	2-1/2"	1/4"	5-1/2"	10	_	21413	_

Tube Brush Operating Recommendations



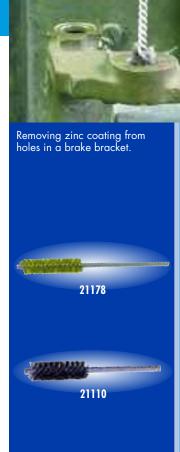
The stems in power tube brushes are not as strong as the stems in most other brushes. Therefore, it is very important to avoid any load conditions and brush speeds that can cause excessive stem deflections and destructive bending.

A suggested guideline to avoid this unsafe condition is minimizing the overhang of the stem to under an inch, and running the brush at speeds below 2,000 RPM.

Increasing overhang could decrease the safe speed at which the brush can operate. To reach into deeper holes, use drill extension rods instead of increasing stem overhang.

Before Starting the Brush:

- Secure brush in chuck
- Ensure clockwise brush rotation (running the brush counter-clockwise could cause the brush to fall apart.)
- Clamp work securely.
- Position all guards in place.
- Align brush with the work so the brush rotates on its true centerline to prevent any stem
- Guide the brush into the hole before starting the brush rotation.
- Always wear eye protection.













Cleaning the threads on the I.D. of a mortar shell.



35825



21074



21152



Weiler manufactures more "special" power & hand tube brushes than the standard products in this catalog.

Power and Hand Tube Brushes

Polyflex® Encapsulated Double Stem, Double Spiral - Burgundy Elastomer*-Encapsulated with an elastomer that leaves only the sharp wire tips exposed for maximum aggression and a very rigid brushing action.



Dia.	Wire Size	Brush Part	Stem Dia.	Overall Length	Standard Pack	Item Number Steel
1/2"	.006	2"	5/32"	5"	10	35821
5/8"	.0104	2"	7/32"	5"	10	35822
3/4"	.0104	2-1/2"	1/4"	5-1/2"	10	35823
1"	.0104	2-1/2"	1/4"	5-1/2"	10	35825

See Elastomer Color Chart on page 20 for more information.

Round - Feature a single continuous length of stainless steel stem wire and a single spiral of crimped wire fill for a more flexible brushing action; for use on smooth or threaded blind holes.





	Wire	Brush	Stem	Overall	Standard		tem Numbe	r
Dia.	Size	Part	Dia.	Length	Pack	Steel	Stainless	Brass
1/4"	.004	1"	1/8"	3-1/2"	10	21072	21081	21332
5/16"	.005	1"	1/8"	3-1/2"	10	21175	_	_
3/8"	.004	1"	1/8"	3-1/2"	10	21073	21082	_
	.006					21282	-	_
	.008					21264	21240	_
_7/16"	.005	1"	1/8"	3-1/2"	10	21142	21181	_
1/2"	.005	1"	3/16"	3-1/2"	10	21074	21083	21182
9/16"	.005	1"	3/16"	3-1/2"	10	21143		_
	.0104						21404	-
5/8"	.005	1"	3/16"	3-1/2"	10	21075	21084	_
	.008					21265	-	-
11/16"	.005	1"	3/16"	3-1/2"	10	21144	-	-
3/4"	.006	1"	7/32"	3-1/2"	10	21076	21085	_
	.008					21266	-	-
13/16"	.005]"	7/32"	3-1/2"	10	21146	-	-
7/8"	.006	1"	7/32"	3-1/2"	10	21077	21086	_
	.008					21267	-	-
15/16"	.005]"	7/32"	3-1/2"	10	21148	-	-
1"	.005	1"	1/4"	3-1/2"	10	21149	21340	_
	.008			2.74211		21078	21087	-
1-1/8"	.005	1"	1/4"	3-1/2"	10	21150	_	_
	.008			2 - (2)		21079	21088	-
1-1/4"	.008	1"	1/4"	3-1/2"	10	21080	21089	
1-1/2"	.008	1"	1/4"	3-1/2"	10	21203	-	21152
	.0104		- /	2.74211		21269	_	-
2-1/4"	.008	1"	1/4"	3-1/2"	10	21322	-	-



Power and Hand Tube Brush Selection Tips

■ A flat burrite style tube brush is most effectively used with a holder • on blind, threaded holes.



■ A round tube brush is most effectively used fully chucked on smooth or threaded blind holes.



- A single stem, single spiral tube brush is most effectively used for manual or hand cleaning applications.
- A double stem, double spiral tube brush is most effectively used with power tools for heavy-duty cleaning and deburring.
- A polyflex encapsulated double stem, double spiral tube brush is most effectively used on power tools for very aggressive cleaning and deburring applications.





Power and Hand Tube Brushes

Burrite Type - Feature a single continuous length of stainless steel stem wire and filled with a tuft of crimped wire to provide an aggressive flat side action; ideal for cleaning and deburring internal threads.



	Wire	Brush	Stem	Overall	Standard	Item N	umber
Dia.	Size	Part	Dia.	Length	Pack	Steel	Stainless
1/4"	.003 .005	9/16"	3/32"	2-1/8"	10	21000 21001	_ 21050
5/16"	.003 .005	9/16"	3/32"	2-1/8"	10	21004 21005	-
3/8"	.003 .005 .005	9/16"	3/32" 1/8"	2-1/8"	10	21008 21009 21023	21051 –
7/16"	.003 .005	9/16"	3/32"	2-1/8"	10	21014 21015	-
1/2"	.003 .005 .005	9/16"	3/32" 1/8"	2-1/8"	10	21020 21021 21025	21053 —
9/16"	.003 .005	5/8"	1/8"	2-1/4"	10	21027 21028	
5/8"	.003 .005	5/8"	1/8"	2-1/4"	10	21030 21031	_ 21055
3/4"	.005 .008	5/8"	1/8"	2-1/4"	10	21034 21035	21056 —
7/8"	.005	5/8"	1/8"	2-1/4"	10	21036	21057
1"	.005 .008	5/8"	1/8"	2-1/4"	10	21040 21041	21058 —
1-1/8"	.005	5/8"	1/8"	2-1/4"	10	21044	_

Burrite Type Holders - Feature a 1/4" stem for convenient mounting into the chuck of a drill or the collet of a machine tool and allow the brush to be used in either direction of rotation. They allow the brush to be used in a standard tapping cycle for deburring threaded holes in CNC machining centers.



For Brush Stem Dia.	Holder Dia.	Overall Length	Standard Pack	ltem Number
3/32"	1/4"	3-1/8"	5	95202
1/8"	3/8"	3-3/8"	5	95203

Single Stem, Single Spiral - Feature a single continuous length of galvanized steel stem wire with a formed eye loop for convenient hand use. The single spiral of straight wire fill allows for easy manual insertion into the ID.

	Wire	Brush	Stem	Overall	Standard		tem Numbei	r
Dia.	Size	Part	Dia.	Length	Pack	Steel	Stainless	Brass
1/8"	.003	1"	3/32"	6"	10	21246	21249	_
3/16"	.003 .005	1-1/2"	3/32"	7"	10	21090 21091	21098 21099	21221 –
1/4"	.003 .005 .006	1-1/2"	3/32"	7"	10	21092 21093 21161	21100 21101 -	21270 21139 -
3/8"	.004 .006	2"	1/8"	8"	10	21094 21095	21414 21103	21191 –
1/2"	.004 .006 .008	2"	1/8"	8"	10	21096 21097 21162	21104 21105 -	21165 - -
9/16"	.005	2-1/2"	5/32"	9"	10	21233	_	_



tapped hole using a burrite brush in a holder.

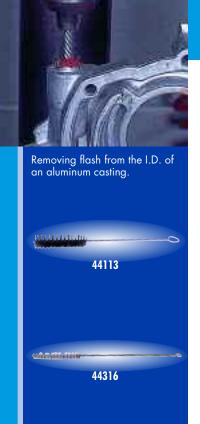














Nylon Hand Tube Brushes - Feature a single continuous length of galvanized steel stem wire with a formed eye loop for convenient hand use. The single spiral of straight nylon fill allows for easy manual insertion and scratch-free cleaning of the ID.

Dia.	Fill Dia.	Brush Part	Stem Dia.	Overall Length	Standard Pack	Item Number Nylon
1/4"	.005	2"	3/32"	6-1/4"	36	44110
3/8"	.005	2"	3/32"	6-1/4"	36	44213
1/2"	.010	3"	1/8"	8-1/2"	36	44111
3/4"	.012	3"	1/8"	8-1/2"	36	44112
1"	.014	4"	5/32"	12-1/4"	36	44113
1-1/4"	.014	4"	5/32"	13"	36	44114
2"	.014	5"	3/16"	16-3/4"	36	44115

Percolator Brush - Features single stem, single spiral construction with an eye loop and straight white nylon fill. Intended for cleaning the internal passages in coffee percolators, this brush can be also be used in other similar manual cleaning applications.

Dia.	Fill	Brush	Stem	Overall	Standard	Item Number
	Dia.	Part	Dia.	Length	Pack	Nylon
7/16"	.010	3-1/2"	5/32"	11-1/2"	10	44316

Valve Guide Brushes - Are made with single stem, single spiral construction and have a permanently-attached long steel handle for convenient hand use or for mounting into a chuck. Intended for removing heavy deposits from valve guides in gas and diesel engines, these brushes can also be used in a range of other similar applications.



Dia.	Fill Dia./ Material	Brush Part	Overall Length	Standard Pack	ltem Number
1/4" 5/16" 11/32" 3/8" 7/16" 1/2"	.0104 Steel	2"	10"	10	95563 95027 95566 95028 95665 95029
11/32" 3/8"	.008 Nylon .012 Nylon	2-1/2"	10"	10	95660 95567

Gun Cleaning Brushes - Rifle Brushes

Constructed using a continuous piece of stem wire and fine bronze wire fill for a scratch-free cleaning action in gun barrels, these flexible tube brushes are designed to be attached to extension rods using the 8-32 male coupling.

Caliber	Brush Part	Overall Length	Coupling Size	Standard Pack	Item Number Bronze
22	2-1/4"	3-1/4"	8-32	1	95301
30	2-1/4"	3-1/4"	8-32	1	99786
35	2-1/4"	3-1/4"	8-32	1	99788
45	2-1/4"	3-1/4"	8-32	1	99791

Gun Cleaning Brushes - Shotgun Brushes

Constructed using a continuous piece of stem wire and fine bronze wire fill for a scratch-free cleaning action in gun barrels, these flexible tube brushes are designed to be attached to extension rods using the 5/16"-27 male coupling.

Gauge	Brush Part	Overall Length	Coupling Size	Standard Pack	Item Number Bronze
12	1-5/8"	2-7/8"	5/16-27	1	99714
16	1-5/8"	2-7/8"	5/16-27	1	99694
20	1-5/8"	2-7/8"	5/16-27	1	95084
410	1-5/8"	2-7/8"	5/16-27	1	95129

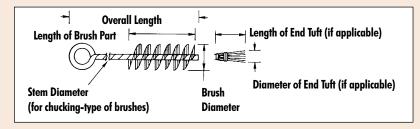


Power and Hand Tube Brushes

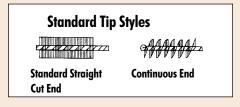
Power and Hand Tube Brushes

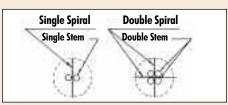
Special Brush Designs - Design a power tube brush for your specific application.

Special Tube Brush Specification Sheet: (Use the illustration on this page as a guide)		
1. Brush diameter	7. Brush fill	material:
2. Length of brush part		wire 🛭 Stainless wire
3. Overall brush length	•	n Abrasive Filament (Nylox®)
4. Special stem diameter (if required)		wire 🗆 Other
5. Stem material:		rial diameter
🗆 Galvanized Steel 🕒 Stainless	☐ Other 9. Special t	rip style (if required)
6. Application		e stem 👊 Double stem
	11. Order G	Quanity
* Special tube brushes are r	not returnable, as they are m	anufactured to order.
Name:	End-User Name:	
Company Name:	City:	
Address:	State:	Zip:
Phone: ()		
Fax: ()		
E-mail:		
For additional information call:	Mail or fax specification sheet to:	Or visit our website at:
Weiler's Application Engineering Hotline toll free at:	Application Engineering Weiler Corporation	www.weilercorp.com E-mail: info@weilercorp.com
888-299-APPS (2777)	One Weiler Drive Cresco, PA 18326-0149	
	Fax: 800-635-3615	













Removing galled spots from a metal forming die.







6041





Miniature Brushes

Miniature Brushes - The Weiler family began producing miniature brushes for the jewelry industry in 1898, and their tradition of providing the highest quality, most cost-effective products continues to this day.

Weiler's line of miniature brushes are designed for precision cleaning, light deburring, and finishing applications in variety of crafts, trades, and industries. In addition to use in jewelry production and in dental and optical labs, miniature brushes have many applications in modern industries such as electronics and instrumentation production, aerospace and aircraft manufacture, and precision tool and die shops. They are permanently mounted on 1/8" or 3/32" stems for quick mounting and efficient use on high-speed electric rotary tools and air-powered pencil die grinders.

Applications

- Decorative finishing
- Light deburring and edge blending
- Buffing and polishing of small parts
- Light-duty cleaning

Wire Wheel Brushes -

Fine crimped wire fill for light-duty cleaning and deburring.



	Wire	Trim	Stem	Max.	Standard		tem Numbe	r
Dia.	Size	Length	Size	RPM	Pack	Steel	Stainless	Brass
5/8"	.005	1/8"	1/8"	37,000	144	_	99554	_
3/4"	.003 .005	3/16"	1/8"	37,000	144	26000 26003	_ 26005	26001 26004
3/4"	.003 .005	3/16"	3/32"	37,000	144	26140 26143	-	26141 26144
1"	.003 .005 .005	5/16" 5/16"	1/8" 3/32"	37,000	144	26012 26015 26155	26014 26017 —	26016 –
1-1/4"	.005	3/8"	1/8"	37,000	144	26021	_	_
1-1/2"	.005	1/2"	1/8"	25,000	144	26296	26294	_

Bristle Wheel Brushes - Natural hair fill for scratch-free cleaning of small parts or for buffing and polishing of features such as slots and grooves using abrasive compounds.



Dia.	Fill	Trim	Stem	Max.	Standard	ltem
	Type	Length	Size	RPM	Pack	Number
3/4"	Stiff Hair Soft Hair Stiff Hair* Stiff Hair	3/16"	3/32" 1/8"	37,000	144	26041 26042 26043 26059

^{*} Double thick

Wire Cup Brushes -

Fine crimped wire fill for light-duty cleaning or deburring in confined areas.



	Wire	Trim	Stem	Max.	Standard		tem Numbei	
Dia.	Size	Length	Size	RPM	Pack	Steel	Stainless	Brass
5/8"	.003 .005	1/4"	1/8"	37,000	144	26071 26074	_ 26076	26072 26075

Bristle Cup Brushes - Natural hair fill for scratch-free cleaning of confined areas or for buffing and polishing of small recessed surfaces using abrasive compounds.



Dia.	Fill Type	Trim Length	Stem Size	Max. RPM	Standard Pack	ltem Number
1/2" 9/16"	Stiff Hair Stiff Hair Soft Hair	7/32" 1/4"	3/32" 1/8"	37,000 37,000	144 144	26091 26093 26094
1"	Stiff Hair Soft Hair	7/16"	1/8"	25,000	144	26095 26096



Miniature Brushes

Wire End Brushes - Fine crimped wire fill for light-duty cleaning or deburring in very small recessed areas or ID's.



Dia.	Wire Size	Trim Length	Stem Size	Max. RPM	Standard Pack	Steel	Item Number Steel Stainless I		
3/16"	.003	1/4"	1/8"	37,000	144	26098 26101	26099 —	26097 - -	
1/4"	.005	7/16"	1/8"	37,000	144	_ 26107		26106	
5/16"	.005	9/16"	1/8"	25,000	144	26113	26114	_	

Deburring the I.D. of a small machined part.





26121





26136

Bristle End Brushes - Natural hair fill for scratch-free cleaning or for buffing and polishing of very small recesses using abrasive compounds.

Dia.	Fill Type	Trim Length	Stem Size	Max. RPM	Standard Pack	ltem Number
3/16"	Stiff Hair Soft Hair Stiff Hair	1/4"	1/8" 3/32"			26115 26122 26116
1/4"	Stiff Hair	3/8"	1/8"	37,000	144	26119
5/16"	Stiff Hair	9/16"	1/8"	25,000	144	26121

Bristle End Brushes - Plastic Ferrule

Feature a plastic ferrule or cup to protect internal surfaces during use.

	Fill	Trim	Stem	Max.	Standard	Item
Dia.	Туре	Length	Size	RPM	Pack	Number
3/16"	Stiff Hair 1/4"		1/8"	37,000	144	26128
1/4"	Stiff Hair	3/8"	1/8"	37,000	144	26131
5/16"	Stiff Hair	9/16"	1/8"	25,000	144	26133

Abrasive Nylon End Brushes - Plastic Ferrule
Nylox® abrasive nylon fill for buffing and polishing without compounds. They can also be used in automated applications for precision deburring and finishing of small part features.

Dia.	Filament Trim Dia./Grit Length		Stem Max. Size RPM		Standard Pack	ltem Number
3/16"	.018/500	1/4"	1/8"	37,000	144	26136
1/4"	.018/500	3/8"	1/8"	37,000	144	26138
5/16"	.018/500	9/16"	1/8"	25,000	144	26146



Weiler Corporation is the largest manufacturer of miniature brushes in the world.

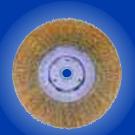




Creating an antique finish on a brass plate.



13121



01475



29078



1764



Non-Sparking Brushes

Pon-Sparking Brushes - Weiler offers an assortment of wire power brushes featuring high-quality bronze or brass wire which offer a very soft brushing action in comparison to steel and stainless steel and which will not generate a spark when used on metal surfaces. They are frequently used for cleaning molds and dies in the injection-molding and extrusion of plastics, and in maintenance activities in areas where flammable or potentially explosive materials are present, such as refineries and petrochemical plants.

Non-sparking brushes are available in a variety of knot wire and crimped wire configurations for use in a broad range of surface cleaning applications, and they are manufactured with individual knot hole and solid ring construction for high performance and long life. Weiler's non-sparking power brushes are available with plain arbor holes, nuts, and permanently-attached stems for use on a variety of tools.

Applications

- Light to medium duty cleaning of surfaces, recesses, and ID's
- Deburring component parts machined from soft, non-ferrous metals

Standard Twist Wheels - Provide a heavy-duty brushing action with some flexibility; ideal for more demanding cleaning applications.



Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Std. Pack	Item Number Bronze
3"	.020	1/2"- 3/8"	20	3/8"	5/8"	1/2"	7/16"	25,000	10	08271
4"	.020	5/8" - 11	24	1/2"	7/8"	_	7/16"	20,000	5	13121

Crimped Wire Wheels - Provide a flexible brushing action and consistent performance for light-duty cleaning and deburring applications.



	Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Std. Pack	Item No. Brass
ľ	6"	.005 .0118	5/8"-1/2"	1/2"	1-7/16"	1-1/4"	7/16"	6,000	2	01415 01475

For other available arbor holes, see Arbor Hole Table pg 20.

Small Diameter Crimped Wire Wheels - Provide a flexible brushing action and consistent performance for light-duty cleaning and deburring applications requiring a small wheel.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. RPM	Std. Pack	Item Number Brass
1-1/2"	.005	3/8"	1/4"	7/16"	20,000	10	29178
2"	.005 .0118	1/2"	3/8"	1/2"	20,000	10	29059 29086
3"	.014	1/2"	5/8"	1"	20,000	10	29078

Conflex Brush - Small diameter copper-center wheels permanently mounted onto a 1/4" stem to provide a very flexible brushing action.



Dia.	Wire Size	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number Brass
3"	.0118	1/2"	1"	20,000	10	17641

Knot Wire Cup Brushes - Provide heavy-duty brushing action with some flexibility for more demanding cleaning applications on relatively flat surfaces.



Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Standard Pack	Item Number Bronze
2-3/4"	.020	5/8"-11 UNC	1"	14,000	1	13299
4"	.020	5/8"-11 UNC	1-1/4"	9,000	1	12776

Non-Sparking Brushes

Crimped Wire Cup Brushes - Provide a very flexible brushing action for light-duty cleaning applications on somewhat irregular surfaces.



	Wire	Arbor	Trim	Max.	Standard	Item N	umber
Dia.	Size	Hole	Length	RPM	Pack	Bronze	Brass
3"	.020	5/8"-11 UNC	7/8"	14,000	1	13231	_
4"	.020	5/8"-11 UNC	1-3/8"	9,000	1	14616	_
5"	.014	5/8"-11 UNC	1-1/4"	8,000	1	_	14606
6"	.020	5/8"-11 UNC	1-1/4"	6,600	1	14316*	-

^{*} With internal nut

Utility Crimped Wire Cup Brushes - Smaller diameter cup brushes which provide a flexible brushing action for light-duty cleaning applications.



Dia.	Wire Size	Trim Length	Stem Diameter	Max. RPM	Standard Pack	Item Number Brass
1-3/4"	.006 .0118	3/4"	1/4"	13,000	10	14310 14314
2-3/4"	.0118	7/8"	1/4"	6,000	1	14311

Knot Wire End Brushes - Feature a hollow end and heavy-duty brushing action with some flexibility; ideal for more demanding cleaning applications in recessed areas.



Dia.	Wire	Trim	Stem	Max.	Standard	Item Number
	Size	Length	Diameter	RPM	Pack	Bronze
1-1/8"	.020	7/8"	1/4"	22,000	10	10067

Crimped Wire End Brushes - Feature a solid end and very flexible brushing action ideal for light-duty cleaning applications in corners and hard-to-reach areas.



Dia.	Wire Size	Trim Length	Stem Diameter	Max. RPM	Standard Pack	Item Number Brass
1/2"	.005	7/8"	1/4"	25,000	10	10158
]"	.005	7/8"	1/4"	20,000	10	10128
]"	.0118	1"	1/4"	22,000	10	10091

Double Stem, Double Spiral Power Tube Brushes - Constructed with four stem wires and a double spiral of straight wire fill material to provide a more aggressive internal cleaning action.



Dia.	Wire Size	Brush Part	Stem Dia.	Overall Length	Standard Pack	Item Number Brass
1/2"	.006	2"	5/32"	5"	10	21178
5/8"	.008	2"	7/32"	5"	10	21219
3/4"	.006	2-1/2"	1/4"	5-1/2"	10	21179
1"	.006	2-1/2"	1/4"	5-1/2"	10	21218

Round Power Tube Brushes - Feature a single continuous length of stainless steel stem wire and a single spiral of crimped wire fill for a more flexible brushing action; suitable for use on smooth or threaded blind holes.



Dia.	Wire Size	Brush Part	Stem Dia.	Overall Length	Standard Pack	Item Number Brass
1/4"	.004	1"	1/8"	3-1/2"	10	21332
1/2"	.005	1"	3/16"	3-1/2"	10	21182
1-1/2"	.008	1"	1/4"	3-1/2"	10	21152

Single Stem, Single Spiral Hand Tube Brushes - Constructed using a single continuous length of galvanized steel stem wire and feature a formed eye loop for convenient hand use. The single spiral of straight wire fill allows for easy manual insertion into the ID.

Dia.	Wire	Brush	Stem	Overall	Standard	Item Number
	Size	Part	Dia.	Length	Pack	Brass
3/16" 1/4"	.003 .003 .005	1-1/2" 1-1/2"	3/32" 3/32"	7" 7"	10 10	21221 21270 21139
3/8"	.004	2"	1/8"	8"	10	21191
1/2"	.004	2"	1/8"	8"	10	21165



Removing labels from a compressed-gas storage cylinder.



14316



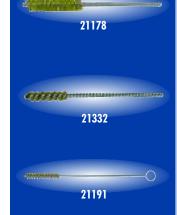
14314



1006



1015







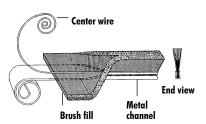
Straight strip brush used as a guard to prevent chips from flying.



Strip Brushes

held securely in place by a U-shaped metal channel and center wire, as illustrated. All Weiler brushes are first manufactured into a straight strip brush. The strip can then be coiled into cylinder brushes, or other shapes such as discs and cups.

There is a variety of brush fill and virtually an infinite number of brush specifications within each metal channel size. All strip brushes are manufactured to our customers' individual requirements. This provides the proper filament stiffness, and allows for customers' unique modification of length and trim, enabling us to provide the ideal brush for the application.



Applications

- Spreading powdered materials
- Dusting tires, tile, paper, etc.
- Splash guard on grinders and machine tools
- Lag brushes
- Eliminating static electricity
- Curtains to prevent chips from flying



General Fiber Characteristics

	6.6 Nylon	6.12 Nylon	Polypropylene	Horse Hair	Татрісо
Heat Distortion (°F)	300	250	225	370	283
Melting Point Bend Recovery (%) Shelf Life	500 90 excellent	405 90 excellent	330 70-80 good	excellent poor	— poor fair
Abrasion Resistance Specific Gravity (G/CC) Tensile Strength (PSI)	excellent 1.13-4 60-70M	excellent 1.04-5 50-60M	good .90-1 50-80M	good 1.3 -	poor .6 —

Chemical and Environmental Resistance

	6.6 Nylon	6.12 Nylon	Polypropylene	Horse Hair	Tampico
Dilute Alkalis Dilute Acids Strong Acids Alcohols Petroleum Distillates Hot Water Alcohols, Vegetable Oils	excellent good fair good excellent good good	excellent good good good excellent good good	excellent excellent good excellent good fair excellent	poor poor good-poor poor poor poor poor	good good good-poor good good good



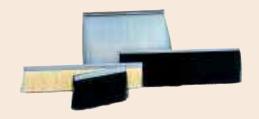
Strip Brushes - Straight

Strip Brushes - Straight

Can be mounted on metal or wood back-up plates or on rotary hubs with machine or wood screws.

Fill Materials

- Hair (horse, goat, etc.)
- Carbon steel
- Type 302 stainless steel
- Non-ferrous metals (brass, bronze, etc.)
- Nylon abrasive filament (Nylox®)
- Natural fibers (tampico)
- Synthetics (nylon, polypropylene)



Strip Brushes - Straight

Metal Channel Size	Before Forming	After Forming (width x height)	Ch Galv. Steel	annel Materials Stainle: 400 Series		Max. OAH	Max. Bristle Dia. (nylon)	Max. Bristle Dia. (wire)
#2.5 #3 #4 #5 #7 #10	5/16" x .025 3/8" x .025 1/2" x .030 5/8" X .040 7/8" X .040 1-1/4" X .050	1/8 (.125) x 1/8" (.125) 5/32" (.156) x 5/32" (.156) 3/16" (.187) x 3/16" (.187) 7/32" (.218) X 1/4" (.250) 5/16" (.312) X 5/16" (.312) 7/16" (.437) X 7/16" (.437)	XXX XXX XXX XXX XXX	XXX XXX XXX XXX XXX	- xxx - xxx -	2-1/2" 3-1/2" 4-1/2" 5" 6" 6"	.014 .016 .025 .030 .050	.006* .006 .010 .014 .020

Straight Strip Brushes Specification Sheet - Use illustration as guide

* Available in brass or bronze only.

1. 2.	Overall brush height Overall brush length	* Straight strip brushes are not returnable, as they are manufactured to order.			
3.		Name:			
	□ #2.5 □ #3 □ #4 □ #5 □ #7 □ #10	Company Name:			
4.	Channel material: ☐ Galvanized Steel ☐ Stainless Steel	Address:			
5.	Brush fill material:				
	☐ Horsehair☐ Nylon☐ Carbon Steel☐ Bronze	Phone: ()			
	□ Polypropylene □ Brass	Fax: ()			
	□ 302 Stainless □ Tampico	E-mail:			
	□ Nylon Abrasive Filament (Nylox)□ Other	End-User Name:			
6.	Fill material: □ Crimped □ Straight	City State			
	Diameter	For additional information call:			
	Color (if applicable)	Weiler's Application Engineering Hotline toll free at: 888-299-APPS (2777)			
7.	Application: Wet Dry	Mail or fax specification sheet to:			
	Operating Temp°F	Application Engineering			
8.	Quantity required	Weiler Corporation One Weiler Drive Or visit our website:			
		Cresco, PA 18326-0149 www.weilercorp.com Fax: 800-635-3615 E-mail: info@weilercorp.com			



Retaining wire

1. Overall height 2. Overall length

3. Channel size

Strip Brushes - Discs, Cups & Holders

Strip Brushes - Coil Wound - Can be supplied as an unmounted refill coil, mounted on disposable tubing or wound on a customer's shaft.

Fill Materials

- Hair (horse, goat, etc.)
- Carbon steel
- Type 302 stainless steel
- Non-ferrous metals (brass, bronze, etc.)
- Nylon abrasive filament (Nylox®)
- Natural fibers (tampico)
- Synthetics (nylon, polypropylene)









Alligator Clips - Use on #7 channel only. Coil Wound Strip Brushes can be supplied with Alligator Clips that have tabs at each end to be attached to customers' mandrel.

Strip Brushes - Coil Wound

Metal Channel Size	Before Forming	After Forming (width x height)	Channel Materials Galv. Stainless Steel 400 Series 300 Series			Min. I.D.	Max. O.D.	Max. Bristle Dia. (nylon)	Max. Bristle Dia. (wire)
#2.5 #3 #4 #7	5/16" x .025 3/8" x .025 1/2" x .030 7/8" X .040	1/8 (.125) x 1/8" (.125) 5/32" (.156) x 5/32" (.156) 3/16" (.187) x 3/16" (.187) 5/16" (.312) X 5/16" (.312)	XXX XXX XXX	XXX XXX XXX	_ _ XXX XXX	3/8" 3/8" 1/2" 1"	5" 7" 7" 11"	.014 .016 .025 .050	.006* .006 .010 .020

* Available in brass or bronze only.

Coil Wound Strip Brushes Specification Sheet - Use illustrations as guide

1.	Outside diameter size					
2 .	Inside diameter size	* Coil wound strip brushes are not returnable, as they are				
3	Brush face	_ manufactured to order.				
4.	Channel size:	Name:				
	□ #2.5 □ #3 □ #4 □ #7	Company Name:				
5.		Address:				
	☐ Galvanized Steel					
	☐ Stainless Steel	Dhana I				
6.	Brush fill material:	Phone: ()				
	□ Horsehair □ Nylon	Fax: ()				
	□ Carbon Steel □ Bronze	E-mail:				
	□ Polypropylene □ 302 Stainless					
	□ Tampico □ Brass	End-User Name:				
	☐ Nylon Abrasive Filament (Nylox)	City: State:				
	□ Other	Zip:				
7.	Fill material: Crimped Straight	For additional information call:				
	Diameter	Weiler's Application Engineering Hotline toll free at: 888-299-APPS (2777)				
	Color (if applicable)					
8.	☐ Close wound ☐ Open wound	Mail or fax specification sheet to:				
	Specify pitch between spirals	Application Engineering				
9.	Mounting Clips: ☐ Yes ☐ No	Weiler Corporation One Weiler Drive Or visit our website:				
	Application:	Cresco, PA 18326-0149 www.weilercorp.com				
	Operating Temperature°F	Fax: 800-635-3615 E-mail: info@weilercorp.com				
	operaning temperature					



spirals



- 1. Outside Diameter
- 2. Inside Diameter
- 3. Brush Face



Strip Brushes - Discs, Cups & Holders

90

Strip Brushes - Disc Brushes

Outside Disc: A circular single loop brush with the bristles facing OUTWARD, and the metal channel on the inside.

Inside Disc: A circular single loop brush with the bristles facing INWARD, and the metal channel on the outside.

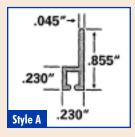


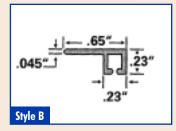
Strip Brushes - Formed Cups

These strip brushes are formed into a circle with the bristles facing down, commonly found in vacuum cleaning applications.



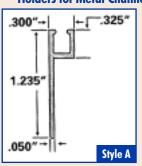
Holders for Metal Channel Size #2.5 - Max. length 12'

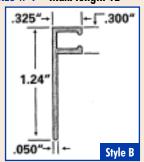


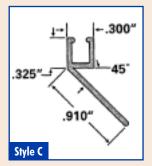




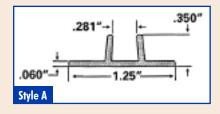
Holders for Metal Channel Size #4 - Max. length 12'

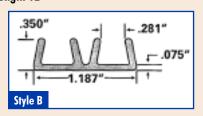


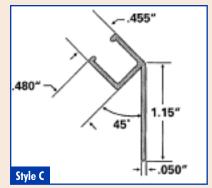


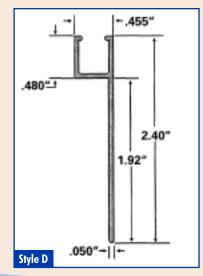


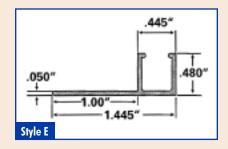
Holders for Metal Channel Size #7 - Max. length 12'















Removing light corrosion and mill scale from coiled steel.



Call our Application
Engineering Hotline at
888-299-APPS (2777). If
the problem is too complex
to be solved over the
phone, we will determine if
an evaluation should be
conducted at our in-house
lab or your facility. Either
way, Weiler will provide
the most cost-effective
solution for your specific
application.

Wide Face Brushes

wide Face Brushes - Cylindrical brush assemblies have proven to be reliable and economical tools for a wide variety of industrial surface conditioning applications. In addition to gang-mounting a series of individual wheel brushes onto a shaft or reusable arbor, one-piece wide face brush units can be manufactured to cover broad surfaces or provide maximum brushing action in a minimum amount of space.

Cylindrical brushes can be manufactured using several different styles of construction, and the characteristics of each style of construction can significantly affect brush performance. Weiler will custom-design a wide face brush in the most appropriate type of construction for your specific application. Please call our Application Engineering Team at 888-299-APPS (2777) to discuss your requirements.

Applications

- Scrubbing debris from the surface of material during processing
- Removing corrosion, surface contamination, mill scale, or heat discoloration
- Roughening surfaces to promote adhesion or bonding
- Removing applied finishes and coatings
- Producing decorative surface finishes
- Deburring or finishing cylindrical parts
- Deburring the cut ends of tubing and extrusions



surfaces can be manufactured as disposable units with a variety of available fill materials depending on the specific application. Available fills include; metallic filaments such as steel, stainless steel, or brass crimped wire; Nylox® nylon abrasive filaments; synthetic filaments such as nylon or heat-stabilized polypropylene; or natural fibers such as tampico.

Disposable mountings can be constructed of carbon steel or stainless steel components, and "flow-through" mountings which allow coolant to be circulated through the core and out the face of the brush are available for wet applications.



surfaces can also be manufactured as a replaceable brush unit wound onto a permanent and reusable arbor. Depending on the specific application and production environment, the refilling of reusable arbors may be a more economical option than using disposable units. Reusable mountings can be designed by Weiler or supplied by the customer.

In addition to the secondary operations such as nibbling and grinding of the brush face and dynamic balancing of the completed unit, Weiler also offers maintenance services on mounting hardware like collars and bearings.

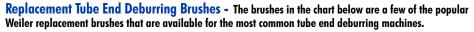


Wide Face Brushes

media for production applications involving the batch deburring of the ends of tubing that has been cut-to-length. Automated brushing systems are readily available and considerably less expensive to purchase and operate than chamfering machines.

Brush deburring machines can be integrated with cut-off operations to eliminate work-in-process and increase throughput, and they are flexible enough to be quickly adjusted for various shapes, sizes, and lengths of tubing. Unlike chamfering operations, brush deburring does not leave secondary burrs, brushing equipment is more tolerant of slight variations in machine set-up and tube length, and quality brushes last much longer than cutting inserts on double-end finishers.

Tube end deburring brushes are most commonly manufactured as disposable assemblies which are then mounted onto keyed shafts. High-tensile steel, hard-drawn steel, and Type 302 stainless steel wire are the most common fill materials used in tube end deburring brushes. Weiler offers high quality brushes with wire sizes from .006 to .020 and four available levels of fill density so that the brushing performance can be tailored to the material, burr condition, and budget of the end-user.



Dia.	Face Width	Arbor Hole	Wire Size	Brush Density	Standard Pack	Item No. Steel
10"	18"	3-1/4"	.014	General Purpose High Performance	1	07340 07341
12"	18"	3-1/4"	.014	General Purpose High Performance	1	07286 07342
12"	18"	3-1/4"	.020	General Purpose High Performance	1	07343 07344

^{*} The most common arbor hole sizes are 3-1/4" and 2" with 1/2" x 1/4" keyways. Other arbor holes are available upon request.

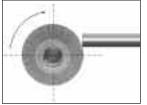
Contact your Weiler Sales Rep. or our Customer Service Department for price and availability.

specification sheet on the next page when requesting a quotation on a custom tube end deburring brush.

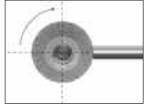


Brush-Tube Orientation

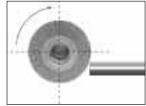
Brush-tube orientation determines which edges of the tube are deburred. The illustrations below show three orientations and the target edge.



Deburring Tube I.D.



Deburring Tube I.D. and O.D.



Deburring Tube O.D.



Deburring steel tubing on an automated machine.

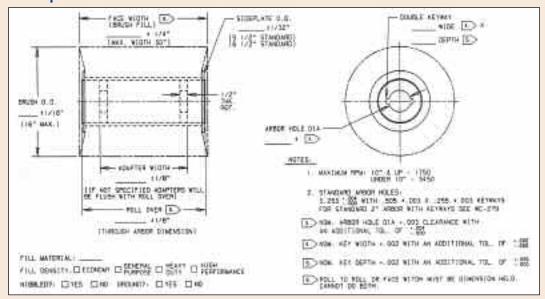


The largest wide face brush we manufacture weighs 152 pounds.



Wide Face Brushes

Wide Face Brush Specification Sheet - For 8" to 16" brushes



Name:						
Company Name:						
Address:						
Phone: ()_	Fax: ()					
E-mail:						
End-user Name:						
City	State	Zip				

For additional information call:

Weiler's Application Engineering Hotline toll free at: 888-299-APPS (2777)

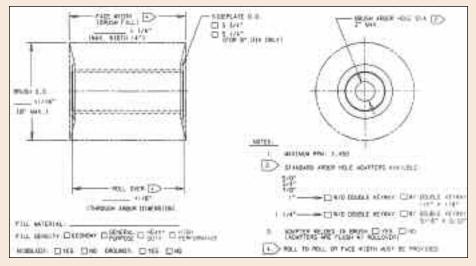
Mail or fax specification sheet to:

Application Engineering Weiler Corporation One Weiler Drive Cresco, PA 18326-0149 Fax: 800-635-3615

Or visit our website:

www.weilercorp.com E-mail: info@weilercorp.com

Wide Face Brush Specification Sheet (2" I.D.) - For 6" & 8" brushes with a 2" I.D.



Name:	
Company Name:	
Address:	
Phone: ()	Fax: ()
E-mail:	
End-user Name:	
City	State Zip

For additional information call:

Weiler's Application Engineering Hotline toll free at: 888-299-APPS (2777)

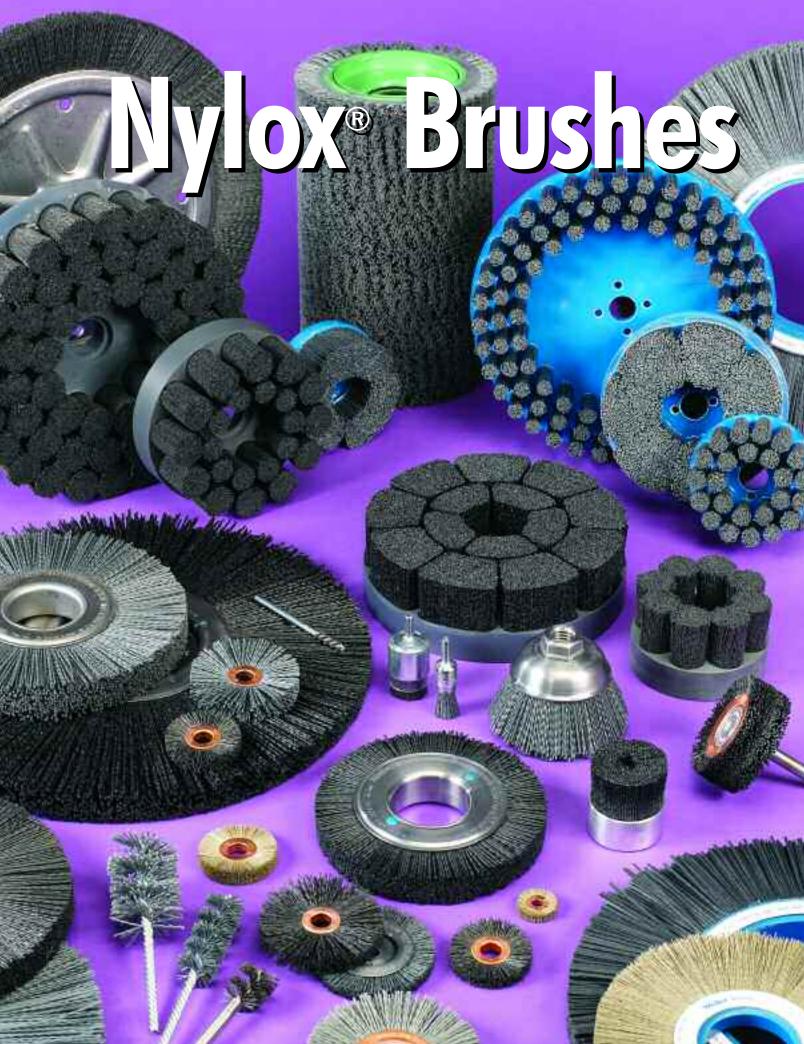
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Or visit our website: www.weilercorp.com

E-mail: info@weilercorp.com





NVIOX® Brushes

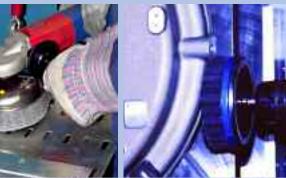


- **Engineered Products & Equipment**
- New! Wheel Brushes
- New! Disc Brushes

 | Disc Brushes Brushes - No Drive Arbor Required!

 Cup Brushes

 - End Brushes
- New! Crosshole Deburring Brushes
- **Tube Brushes** New! Including Burr-Rx® Ceramic Filament Power Tube Brushes!
- **FME Area Product Solutions** New!
 - Adapters & Drive Arbors
 - Knowledgeable and Responsive **Customer Service Team:** 800-835-9999
 - **Application Engineering Support:** 888-299-APPS (2777)
 - Interactive Website: www.weilercorp.com





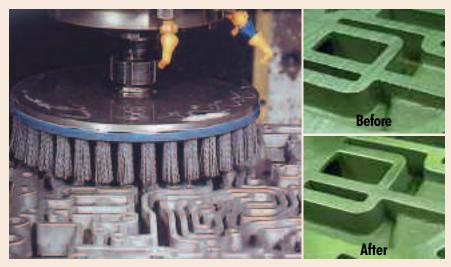


Solutions Showcase

Transmission Valve Body

Problem: Burrs on transmission components can break away from parent components during use and cause transmission wear and eventual failure. Therefore, fluid passages must be completely burr-free.

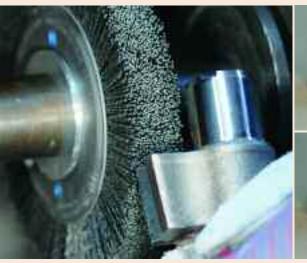
Solution: A 10" Nylox® disc brush operating at 825 RPM in a vertical CNC machining center is an ideal solution for deburring this component. Since all of the burrs are on a single plane, the non-directional nature of a Nylox disc brush produces a part on which all edges have been uniformly deburred.



Steering Component

Problem: Manual deburring can be costly in many respects. Hard deburring tools and aggressive abrasive wheels do not allow much margin for operator error and the result is often high scrap rates.

Solution: Nylox brushes produce a flexible filing action which concentrates all of the abrasive cutting action on sharp edges, giving them the ability to remove burrs without altering overall part dimensions. For example, a 6" Burr-Rx wheel mounted onto a 1,725 RPM pedestal buffer is capable of deburring this steering component just as quickly as a convolute wheel but without the fear of over-radiusing the edges of the teeth or producing flat spots.





Aluminum Wheel

Problem: Sharp burrs cause safety concerns due to handling issues. In the production of aluminum wheels, burrs and sharp edges can also contribute to problems with painting and powder coating.

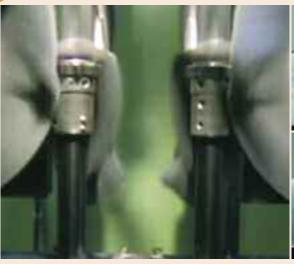
Solution: Weiler designs Nylox disc brushes that are tailored to match the specific geometric features of each aluminum wheel. The customized design and use of next-generation filament technology ensures wheels that are thoroughly deburred at the minimal cost-per-part.





Solutions Showcase

Pump Gear





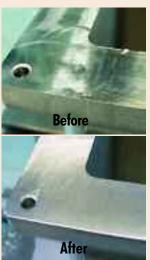


Problem: Pumps are extremely susceptible to failure due to burrs. Due to the tight fit between components, all edges must be deburred and radiused to ensure proper function. Proper deburring of rotating pump gears is especially important.

Solution: A dedicated machine running 14" Nylox wheel brushes at 900 RPM was a low-cost solution for deburring these gears. By using dedicated equipment, cycle time was minimized and an acceptable edge condition was achieved.

Cast Aluminum Housing





Problem: Although deburring the face-milled surfaces of castings is a very straight forward application for Nylox disc brushes, the limited availability of valuable machine time can be a perceived obstacle that prevents users from reaping the many benefits of implementing inmachine deburring operations.

Solution: The advanced ceramic grain technology of Weiler's Burr-Rx tools offer a deburring action that is up to 400% greater than traditional abrasive nylon brushes which contain silicon carbide or aluminum oxide filaments. This allows Burr-Rx deburring tools to be used at feed rates which dramatically reduce the amount of additional machine time required to perform a brushing operation.

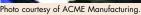
Turbine Blade





Problem: Protecting turbine engine components against high-temperature fatigue is critical to ensure safe, reliable engine operation. Component edges must be burr-free and generally require an edge radius in the range of 0.005" to 0.060".

Solution: Robots are extremely well-suited for this application because they can manipulate the component in many orientations in relation to the brush. Weiler works closely with users and robot integrators to develop products and process programs which maximize brush life while generating exceptional part quality and consistency.





Nylox® Technical Information

Operational Advantages of Nylox® Brushes

Aggressive Yet Compliant



Nylon filaments co-extruded with an abrasive grain act like flexible files precisely deburring and radiusing edges as they wipe across them. Because the cutting pressure with which the abrasive grains are applied against a broad surface is limited by the compliant nature of the filaments, Nylox brushes tend not to alter the overall dimensions or geometry of a part. This high degree of compliance allows them to conform to complex part shapes and reduces the need for ultra-precise programming and fixturing that is typically required with other deburring and finishing tools.

Enhanced Surface Finishes



The compliant cutting action of Nylox brushes not only limits their ability to alter part dimensions, but it makes them an effective tool for refining surface texture characteristics without removing significant amounts of base material. Although they contain the same abrasive grain sizes, Nylox brushes will **not** generate the same prominent scratch pattern as a comparable coated abrasive product. Their limited aggression and flexible filing action also make them suitable for deburring a wider range of materials in comparison to wire filled power brushes.

Ideal For Automation



Because the abrasive grain is evenly distributed throughout the durable nylon filament, Nylox brushes offer extremely consistent performance throughout their product life. Coupled with their extremely compliant nature, this makes them an ideal media for use in automated deburring and finishing processes involving either dedicated production equipment or flexible solutions such as robotic cells. Their use can also be directly integrated into the cycle of CNC machining centers to improve part quality and consistency while reducing direct labor costs.

Construction Advantages of Weiler Nylox Brushes

Metal Hub Construction

- Metal hub components are assembled under high pressure, potentially damaging the filaments and causing premature breakage.
- Retaining ring displaces filament material creating a void in the center of the brush face.
- Lower fill density can result in shorter life and less consistent performance.



Weiler's Composite Hub Construction

- Molded hub construction eliminates filament breakage.
- Uniform distribution of fill material and superior balance.
- Higher fill density provides more aggressive brushing and longer life.
- Consistent performance as the brush wears.



Weiler's Composite Metal Hub Construction

- Filaments retained using the latest polymer technology to prevent filament breakage.
- Metal components add impact resistance and dimensional stability.
- The highest filament density in the market ensures lowest cost-per-part.



Monofilament Construction

This construction is less aggressive due to lack of filament density. This hinders processing of severe burrs or generating larger edge radii in shorter cycle times. The short trim length results in less conformability and decreased brush life, resulting in fewer parts-per-brush.

Weiler's Tufted Construction

Weiler's construction offers increased aggression due to added filament density. This enables processing of severe burrs or generating larger edge radii in shorter cycle times. Our longer trim length allows for greater conformability and longer tool life.

Weiler's Maximum Density Construction

Maximum density brushes are uniquely suited for demanding applications characterized by large burrs and rapid feed rates.



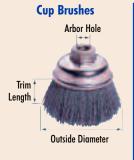


Product Attributes

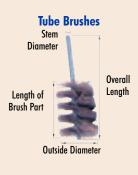
Brush Terminology

Outside Diameter Thickness Through Arbor Arbor Hole Trim Length





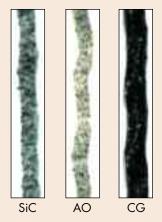


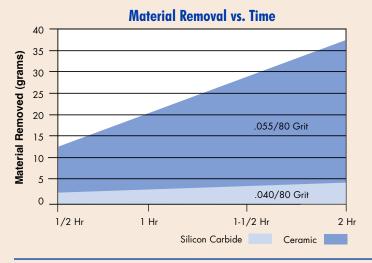


Nylox Filaments

Abrasive brush filaments are manufactured by extruding a mixture of liquefied polymer and abrasive grain. Unlike the filaments used in DIY grade abrasive brushes, industrial grade products like Weiler's Nylox and Burr-Rx brushes feature the highest grade of abrasive filament manufactured using a Type 6.12 nylon polymer. Industrial grade filaments also feature the highest quality abrasive materials which have been sifted and sorted to insure that the grains are consistent in size. These grains may be one of three different types of abrasive:

- Silicon Carbide (SiC) Is a sharp-edged grain which produces an effective cutting action. It is the most common grain used in industrial grade brushes.
- Aluminum Oxide (AO) Is a duller, less aggressive grain typically used in finishing
 applications requiring a less pronounced scratch line pattern or deburring applications
 on materials where the use of SiC may be prohibited
- Burr-Rx Ceramic (CG) An engineered abrasive grain that produces a superior cutting action and is compatible with the widest range of materials. It is the most effective grain available today!





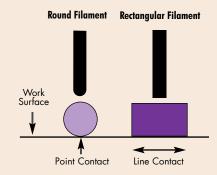
Nylox brushes containing the Burr-Rx black ceramic filament are the most cost-effective choice for a brush deburring tool because the engineered abrasive grain produces a cutting action up to 400% greater than equivalent SiC and AO filaments. This not only allows Burr-Rx brushes to remove burrs that traditional nylon abrasive filament products cannot, but it also minimizes cycle times by allowing the use of much higher feed rates and much shorter dwell times.

Burr-Rx brushes are especially well-suited for use on hard-to-deburr metals such as inconel, stainless steel and titanium, but with proper selection of the product and operating parameters, they can be used on virtually any material.

Round Filaments - Due to their cross-sectional shape and the reduced contact with the work surface or part edges that result, round filaments provide a more compliant brushing action for less aggression and enhanced conformability.

Rectangular Filaments - Due to their shape, larger cross-sectional area and increased contact with the work, rectangular filaments provide a less compliant brushing action for much greater aggression and reduced conformability.

Crimping either type of filament along its length enhances conformability, allowing greater penetration of part edges into the brush face, often increases aggression. Crimped filaments are especially beneficial in maximum density disc brush designs.





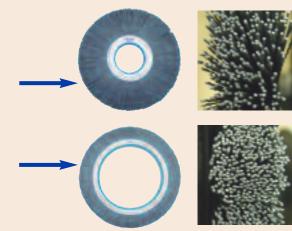
Product Selection

Trim Length and Fill Density

Longer Trim, lower density brushes offer a greater degree of flexibility that is ideal for applications requiring a high degree of brush conformability. However, the lower fill density can result in shorter brush life and less consistent performance.

Shorter Trim, higher density brushes work with a faster action and less engagement with the brush face. This produces shorter cycle times, more consistent performance and longer life in applications that do not require a high degree of brush conformability.

To maximize brush life and reduce costs, always use the shortest trim, highest density brush that will adequately conform to the surface or part edges.



Nylox® Brush Selection Chart	Surface Finishing (Functional, Aesthetic, Decorative, Satin)	Deburring & Edge Blending	Automated Equipment Applications
Wheel	• • •	• • •	•
Disc	•	•	•
Сир	•	•	•
Stem-Mounted	•	•	•
Tube	• •	• •	•

Product & Application Key

- Right Angle Grinder *
- Straight Grinder *



CNC's, Milling & Automatic Machines



<u>fubricut</u>™ Lubricant

Prevents Smearing. Improves the Finish. Lowers Costs.

Lubricut™ is a lubricant that can be used with Nylox wheels operating above the

recommended surface speed. Directing a light spray of Lubricut into the face of the wheel permits the wheel to be operated at higher surface speeds and up to twice the normal load without smearing - while improving the finish.



1. Turn off machine.



2. Slowly rotate wheel by hand.



3. While rotating, direct a light spray of Lubricut into the wheel face.



^{*} Due to the low recommended operating speeds of Nylox products, they typically cannot be used on standard power tools. However, they are suitable for use on low or variable-speed tools.

Nylox® Brush Operating Information

Operating Speed

Nylox® abrasive brushes work with a wiping and filing action. Think of them as flexible files. They work best when operated at speeds that allow fairly deep penetration of the work-piece into the brush filaments. Usually, faster speeds do not work as well as slower speeds. The maximum RPM marked on the brush is not the optimum working speed. A good rule of thumb is to stay under 2,500 SFPM in dry applications and 3,500 SFPM in wet applications.

Operating Speeds - Wheel Brushes

Diameter	RPM
2"	3,450 - 5,000
3"	2,500 - 3,450
4"	1,750 - 2,500
6"	1,350 - 1,750
8"	1,150 - 1,350
10"	950 - 1,150
12"	750 - 950
14"	650 - 850

Operating Speeds - Disc Brushes

Diameter	RPM
1-3/4" & 2"	1,750 - 2,000
3"-4"	1,500 - 1,750
5" - 6"	1,250 - 1,500
8"	800 - 1,000
10"	700 - 800
12"	600 - 700
14"	500 - 600

Wheel Brush Penetration

When using nylon abrasive wheel brushes, optimum aggression is obtained and wheel life maximized when the work-piece penetrates into the face of the



brush approximately 10% of the trim length. The sides of the Nylox filament actually do the work. To achieve a maximum edge radius and complete burr removal, parts should be buried into a slow running brush face.

Disc Brush Penetration

When using nylon abrasive disc brushes, a good starting point for a depth of penetration between the brush face and work surface is 0.075"-0.100". This depth of interference produces the best compromise between aggression and brush life.



Feed Rate Recommendations

Feed rate is determined by the amount of deburring, edge radiusing or surface finishing required, and the type of material that is being processed. It is generally application specific. Slower feeds result in a more aggressive brushing action. Based on the brushing action desired for a specific application, the feed rate can be increased or decreased.

Material	SiC and AO Grain Feed Rate	Burr-Rx Grain Feed Rate
Non-Ferrous	50 in./min.	80 in./min.
Cast Iron	30 in./min.	60 in./min.
Mild Steel and Ductile Iron	25 in./min.	50 in./min.
Stainless and Alloy Steels	15 in./min.	30 in./min.
Titanium and High Nickel Alloys	10 in./min.	30 in./min.

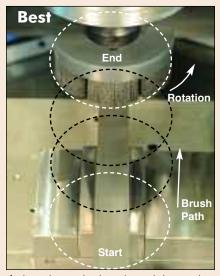


Nylox Brush Operating Information

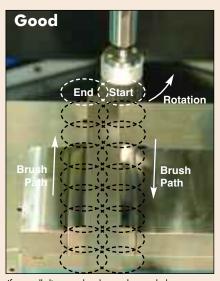
Tool Path

The ideal tool path for a Nylox® Disc brush is very similar to the path of the face mill that produced the burr. However, three differences exist:

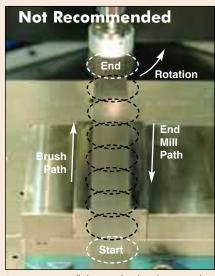
- The rotation direction of the brush should be opposite of the cutting tool that created the burr.
- The length of the path must be longer than the part. Unlike a cutter path that can stop when the leading edge of the cutter reaches the end of the part, the tool path of a brush should continue until the trailing edge of the brush reaches the end of the part.
- The centerline of the brush may need to be off-set from the center of the part in order to maximize the number of filaments that strike the part at a perpendicular angle. This is especially important when the diameter of the brush is similar to the width of the part.
- The part is deburred in the shortest cycletime with the lowest consumable cost-per-part.
- The part is deburred, but requires a longer cycle time. When a large brush will not fit in the tool changer, this method is recommended.
- Produces less deburring than A & B.



If a large diameter brush can be used, the centerline of the brush should be positioned on the center of the part. Ideally, the brush should be 3-4" wider than the part.



If a small diameter brush must be used, the centerline of the brush should be positioned on the edge of the part. This maximizes aggression by increasing the amount of perpendicular contact between the brush filaments and the burred edge.



Positioning a small diameter brush with its centerline on the center of the part is not recommended. This configuration will not allow perpendicular contact of the filaments against the burred edge.

Coolants

Nylox® brushes can be run dry, without coolants. However, certain deburring conditions, such as higher speeds, material properties and greater depth of penetration can create excessive heat buildup, causing the nylon filaments to melt and smear on the work surface. If the speed or depth of penetration cannot be changed, coolants are recommended to overcome heat smear. Coolants will also help produce finer finishes.

Wear Compensation

On dedicated equipment, it is possible to automate wear compensation by using electronic controls to monitor the load on drive motors and adjust the position of the brushing tool to maintain a relatively consistent amount of interference or pressure. Since this is typically not possible with standard CNC machine tools, there are three other possible methods of compensating for tool wear for "in-machine" implementations of Nylox brushes.

Automatic Indexing:

Most CNC controllers allow tool wear compensation to be accomplished by programming a "macro" - routine to periodically adjust the position of the tool based upon the number of parts produced. Some experimentation may be required to determine the frequency and the amount of adjustment that will result in the most consistent performance and maximum brush life.

Probing:

If the machining center has the capability to probe the face of the brush, this feature can be used to gauge the true position of the filament tips. Adjustments to the brush position can then be made to maintain a consistent amount of interference between the tool and the part.

Manual

If the other methods cannot possibly be used, machine operators can adjust the brush position based on either statistical process control data or visual inspection of completed parts.



Nylox Brush Operating Information

Spindle Diameter Requirements: The minimum Spindle Diameter standards of ANSI B165.1 for Power Brushes should also be used for Nylox Brushes. See pg. 20 for more information.

Recommended Motor Sizes

Brush Diameter	Motor Size	RPM*
8"-4"	1/4 HP	3,450
6"	1/2 HP	1,725
8"	3/4 HP	1,725
10"	1 HP	1,140
12"	1 HP	1,140
14"	1-1/2 HP	900

Note: This chart is based on 1" brush face.

* A variable-speed motor control may be required to achieve optimum operating RPM; see charts on page 74.

Nylox Brush Troubleshooting Guide

There are many variables in Nylox applications. If the Nylox brush you are using does not accomplish the desired results, select a solution from the suggestions below for your specific application or call Weiler's Application Engineering Hotline at 888-299-2777.

Problem	Recommended Solutions
Brush not aggressive enough	 Increase filament diameter and/or grit size Increase filament density by using round straight rather than round crimped Increase surface contact by using rectangular rather than round Increase pressure/depth of interference Increase surface speed by increasing spindle RPM Use a larger diameter brush Reduce trim length or feed rate
Brush too aggressive	Reduce filament diameter and/or grit size Reduce filament density by using round crimped rather than round straight Reduce surface contact by using round rather than rectangular Reduce pressure/depth of interference Reduce surface speed by reducing spindle RPM Use a smaller diameter brush Increase trim length or feed rate
Brush not conformable enough	 Increase trim length Reduce filament diameter Reduce filament density by using round crimped rather than round straight or rectangular Reduce surface speed by reducing spindle RPM Reduce feed rate
Finer final finish required	 Increase surface speed by increasing spindle RPM Decrease grit size Use brush with a coolant
Coarser final finish required	 Reduce surface speed by reducing spindle RPM Increase grit size Use brush without a coolant
Filaments melt/smear on workpiece	 Reduce surface speed by reducing spindle RPM Use a smaller diameter brush Use brush with a coolant
Short brush life	Increase filament density Reduce pressure/depth of interference



Two members of our Application Engineering Team discuss the results after testing an engineered product.

Nylox® Engineered Products & Equipment

Nylox® Engineered Products - In order to provide you with the most costeffective media for your particular surface conditioning application, it is sometimes
necessary to design and manufacture a unique, custom tailored product to meet your
requirements. Although Weiler offers such engineered solutions in all of our product lines,
the innovative construction and value-added nature of the Nylox line of nylon abrasive
filament brushes showcases the creativity and expertise of our Application Engineering
Team in designing products that have been tailored to the needs of the customer.



Custom-engineered Nylox brushes can be designed and manufactured as variations on standard product configurations such as wheel, disc, cup, end, or tube brushes. In addition, Weiler's exclusive Burr-Rx[®] and Bore-Rx[™] brushing tools can be engineered to meet the demands of a specific application.

Wide face brush assemblies for applications such as finishing flat surfaces or deburring cylindrical parts can also be designed and manufactured using Nylox nylon abrasive filaments. For more information on Weiler's wide face brushes, see pages 63 and 64.

For solutions to difficult applications, call our Application Engineering Hotline at 888-299-APPS.

If the problem is too complex to be solved over the phone, we will determine if an evaluation should be conducted at our in-house lab or the user's facility.

Available from the surface conditioning experts at Weiler...

A bench-top machine that will make the performance, versatility, and cost-effectiveness of Nylox wheel brushes available to anyone.

Features

- Double-sided spindle for simultaneously mounting two different products.
- Variable-speed control for precisely tailoring wheel speed to the application*.
- Front placement of the wheels and controls for easy access and convenient use.

Specifications:

- 10" diameter x 2" width maximum wheel size
- 3/4" diameter spindle
- 0-2200 RPM variable-speed range
- 1-1/2 HP DC motor with speed controller requiring 110VAC, 60Hz, single-phase power



Appearance of machine may vary.

Nylox Brushing Machine - Item Number 60001



The Nylox Brushing Machine is designed to allow users who require an off-hand machine to take full advantage of the performance benefits, the wide range of potential applications, and the cost savings of Weiler's line of Nylox wheel brushes. However, this machine will also accommodate power brushes, non-woven abrasive wheels, and cotton buffing wheels. (Note: Under no circumstances should grinding wheels ever be used on this machine.)

* When using the machine, it is the operator's responsibility to insure that the speed control is set at or below the rated Maximum Safe Free Speed of the products mounted on the machine.

Nylox® Composite Metal Hub and Composite Hub Wheels -

Weiler's Nylox abrasive nylon wheel brushes featuring composite metal hub and composite hub construction are manufactured using a molded polymer material to retain the filaments. In comparison to traditional metal hub construction which folds the fill material around an internal retaining ring or wrap wire, these techniques result in a significant increase in fill density and the elimination of filament breakage offering the lowest cost-of-use and greatest consistency of performance in production applications.

Weiler's composite metal hub wheels marry the high density and superior filament retention of composite hub wheels with the dimensional stability and shock resistance of metal hub construction, and they feature 2" arbor holes which allows for convenient mounting on many pieces of equipment.

Burr-Rx wheels feature Weiler's advanced black ceramic grain filament which delivers up to a 400% greater edge cutting action in comparison to traditional silicon carbide and aluminum oxide filaments for the fastest, most aggressive deburring action to minimize cycle times and maximize media life.

Applications

- Precision deburring of component parts after machining or grinding
- Improving texture characteristics on machined or ground surfaces
- Honing cutting tools and generating specific edge profiles and radii
- Light duty cleaning and finishing of metals; Light sanding of woods and composites

Burr-Rx® Crimped Filament Wheels - Composite Metal Hub* - Crimped Round Black Ceramic Filament

Dia.	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Thickness At Face Plates	Max. RPM	Standard Pack	Item Number
6"	.026/120 .035/80 .043/120 .055/80	2"	3/4"	1"	15/16"	4,500	1	86123 86181 86124 86120
8"	.026/120 .043/120 .055/80	2"	7/8"	2"	15/16"	4,500	1	86126 86127 86128
10"	.026/120 .035/80 .043/120 .055/80	2"★	1-1/8"	2"	7/8"	1,800	2	86129 86182 86130 86131
12"	.026/120 .043/120 .055/80	2"★	1-1/4"	3"	7/8"	1,800	2	86132 86133 86134
14"	.026/120 .035/80 .043/120 .055/80	2"★	1"	1-3/4"	3/4"	1,800	2	86135 86108 86136 86137
14"	.026/120 .043/120 .055/80	2"★	1-1/4"	4"	7/8"	1,800	2	86138 86139 86140

^{*}Patent Pending

Burr-Rx® Crimped Filament Wheels - Composite Hub - Round Black Ceramic Filament

O.D. x I.D.	Filament Dia./Grit	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
8" x 3-1/4"	.043/120	1"	1-5/16"	13/16"	1,800	2	83394
14" x 7-1/4"	.026/120 .043/120 .035/80 .055/80	1"	2-3/4"	15/16"	1,800	2	84926 84941 84925 83405



Deburring a vane section for a jet engine.



86123



86131



86135



See adapters on page 90.



^{★ 1/2&}quot; x 1/4" Double Keyway

Removing burrs from an aluminum heat sink.



83075



83516



85014



The largest special order Nylox composite hub wheel that we have manufactured was over 40" in diameter.

Nylox® Wheel Brushes

Crimped Filament Wheels - Composite Metal Hub* - Round Silicon Carbide Filament

Dia.	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Numb
6"	.022/320 .022/120 .035/180 .040/120 .040/80	2"	3/4"	1"	15/16"	4,500	1	8307 8307 8307 8307 8307
6"	.018/500 .022/320 .022/120 .035/180 .040/120 .040/80 .040/80	2"	1" 1" 1" 1" 1" 1" 1/2"	1-1/4"	1-1/16" 1-1/16" 1-1/16" 1-1/16" 1-1/16" 1-1/16" 9/16"	3,600	1	8300 8301 8303 8304 8304 8311 8307
8"	.022/320 .022/120 .035/180 .040/120 .040/80	2"	7/8"	2"	15/16"	4,500	1	835(835(835(835(835(
8"	.018/500 .022/320 .022/120 .035/180 .040/120 .040/80	2"	1"	2-1/4"	3/4"	3,600	2	8310 8311 8311 8314 8314
10"	.022/320 .035/180 .040/120 .040/80	2"★	1-1/8"	2"	7/8"	1,800	2	835 835 835 835
12"	.022/320 .035/180 .040/120 .040/80	2"★	1-1/4"	3"	7/8"	1,800	2	837 837 837 837
12"	.050/80	2"★	1-1/4"	3"	7/8"	1,800	2	837

- *Patent Pending
 ★ 1/2" x 1/4" Double Keyway
- High Aggression

Rectangular Filament Wheel - Composite Metal Hub* - Straight Silicon Carbide Filament

Dia.	Grit Size	Arbor Hole	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
12"	80	2"★	1-1/4"	3"	7/8"	1,800	2	85014

- *Patent Pending
- ★ 1/2" x 1/4" Double Keyway



Prevents Smearing. Improves the Finish. **Lowers Costs.**

Lubricut™ is a lubricant that can be used with Nylox® wheels operating above the recommended surface speed. Directing a light spray of Lubricut into the face of the wheel permits the wheel to be operated at higher surface speeds and up to twice the normal load without smearing - while improving the finish. See page 73 for recommended usage.







Crimped Filament Wheels - Composite Hub - Round Silicon Carbide Filament

0.D. x I.D.	Filament Dia./Grit	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	ltem Number
8" x 2"*	.040/120 .040/80	7/8"	2-1/8"	13/16"	3,600	2	83190 83180
8" x 3-1/4"	.040/80	1"	1-5/16"	13/16"	1,800	2	83393
10" x 2"	.018/500 .022/320 .035/180 .040/120 .040/80	1"	3"	1-1/16"	3,600	2	83300 83310 83330 83340 83350
10" x 3-1/4"	.035/180 .040/120 .040/80	1"	2-5/16"	13/16"	1,800	2	83430 83440 83450
10" x 5-1/4"	.040/80	1"	1-5/8"	15/16"	1,800	2	83550
12" x 3-1/4"	.035/180 .040/120	1-1/8"	3-5/16"	13/16"	1,800	2	83630 83640
12" x 4-1/4"	.022/320 .035/180 .040/120 .040/80	1"	3-1/8"	15/16"	1,800	2	84710 84730 84740 84750
12" x 5-1/4"	.040/120 .040/80	1-1/8"	2-3/4"	15/16"	1,800	2	83740 83750
12" x 5-1/4"-2"*	.022/320	1-1/8"	2-3/4"	1-1/16"	1,800	2	85156•
14" x 5-1/4"	.022/320 .035/180 .040/120 .040/80	1-1/8"	3-3/4"	15/16"	1,800	2	83910 83930 83940 83950
14" x 5-1/4"-2"*	.022/320 .040/80	1-1/8"	3-3/4"	1-1/16"	1,800	2	85150 • 85153 •
20" x 12"	.035/180	1-1/4"	3-1/4"	1-1/16"	1,000	1	85440

[•] Same density as our standard 5-1/4" I.D. brushes, but requires no adapters for mounting on a 2" diameter shaft.

Rectangular Filament Wheel - Composite Hub - Straight Silicon Carbide Filament

0.D. x I.D.	Grit Size	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
14" x 5-1/4"	120	1-1/8"	3-3/4"	1-1/16"	1,800	2	84640

Other diameters and grit sizes available upon request.

Nylox® Metal Hub Basic Sections - Weiler also offers abrasive nylon wheels featuring traditional metal hub construction for light duty deburring and finishing in non-production applications.

Applications

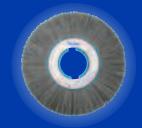
Low volume manual deburring

■ General use in a tool room or shop

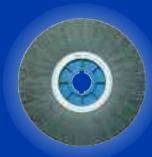
Crimped Filament Basic Sections - Metal Hub - Round Silicon Carbide Filament

0.D. x I.D.	Filament Dia./Grit	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
6" x 2"	.022/320 .035/180 .040/120	5/8"	1-1/2"	9/16"	6,000	2	20600 20610 20620
8" x 2"	.022/320 .040/120	5/8"	2-1/2"	9/16"	5,000	2	20630 20650
10" x 3-1/4"	.035/180	9/16"	2-7/8"	17/32"	4,500	2	20661
14" x 5-1/4"	.035/180	9/16"	3-7/8"	9/16"	3,000	2	20730





83190



85150



84640



20620



See adapters on page 90.



^{* 1/2&}quot; x 1/4" Double Keyway



Deburring threads on a CNC lathe with live tooling.



31110



86165



31255



Nylox® Narrow Face Wheels - Featuring a high density metal hub construction, Weiler's narrow face wheels are designed and manufactured to be the most cost-effective tool for applications requiring a 3" or 4" radial brush.

Burr-Rx® Heavy-Duty Narrow Face Wheels - Metal Hub - Crimped Round Black Ceramic Filament

Dia.	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
3"	.026/120 .035/80 .043/120 .055/80	5/8"-1/2"	9/16"	1/2"	7/16"	6,000	2	31240 31241 31242 31246
4"	.026/120 .035/80 .043/120 .055/80	5/8"-1/2"	5/8"	1"	7/16"	6,000	2	31110 31270 31280 31290

Burr-Rx® Narrow Face Wheels - Metal Hub - Crimped Round Black Ceramic Filament

Dia.	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Numbe
3"	.026/120 .035/80 .043/120	1/2"-3/8"	3/8"	1/2"	7/16"	6,000	2	86164 31102 31101
4"	.026/120 .035/80 .043/120 .055/80	1/2"-3/8"	1/2"	7/8"	7/16"	6,000	2	86165 31103 31100 31105
6"	.026/120 .035/80 .043/120 .055/80	5/8"-1/2"	5/8"	7/8"	11/16"	4,500	2	31134 31135 31136 31137

Heavy-Duty Narrow Face Wheels - Metal Hub - Crimped Round Silicon Carbide Filament

Dia.	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
3" 4"	.040/80 .022/320 .035/180 .040/120 .040/80	5/8"-1/2" 5/8"-1/2"	9/16" 5/8"	1/2" 1"	7/16" 7/16"	6,000 6,000	2 2	31245 31255 31265 31275 31285

Narrow Face Wheels - Metal Hub - Crimped Round Silicon Carbide Filament

Dia.	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
3"	.022/320 .035/180 .040/120	1/2"-3/8"	3/8"	1/2"	7/16"	6,000	2	31074 31084 31094
4"	.022/320 .035/180 .040/120	1/2"-3/8"	1/2"	7/8"	7/16"	6,000	2	31104 31114 31124
6"	.022/320 .035/180 .040/120	5/8"-1/2"	5/8"	7/8"	11/16"	4,500	1	31121 31122 31123

Nylox® **Small Diameter Wheels** - Weiler offers the widest assortment of small diameter radial wheels for addressing recesses and internal features, or delivering a targeted brushing action to a specific area on a part.

Small diameter Burr-Rx® wheels feature Weiler's advanced black ceramic grain filament which delivers up to a 400% greater edge cutting action in comparison to traditional silicon carbide and aluminum oxide filaments for the fastest, most aggressive deburring action for minimum cycle times and maximum media life.

Applications

- Deburring keyways, slots and crosshole intersections
- Honing and finishing of cylindrical bores

Burr-Rx® Small Diameter Wheels - Metal Hub - Crimped Round Black Ceramic Filament

Diameter	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number
1-1/4"	.026/120	1/4"	5/16"	5/16"	10,000	10	17551
1-1/2"	.026/120	1/2"	3/8"	1/4"	10,000	10	17541
2"	.026/120 .035/80 .055/80	1/2"	3/8"	1/2"	10,000	10	17548 17555 17542
2-1/2"	.026/120 .035/80	5/8"	1/2"	11/16"	10,000	10	17556 17557
3"	.026/120 .035/80 .043/120 .055/80	1/2"	1/2"	1"	10,000	10	17565 17567 17568 16000

Other diameters and grit sizes available upon request.

Small Diameter Wheels - Metal Hub - Crimped Round Silicon Carbide Filament

Diameter	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number
1-1/8"	.022/120	1/4"	5/16"	1/4"	10,000	10	17532
1-1/4"	.022/120	1/4"	5/16"	5/16"	10,000	10	17535
1-3/8"	.018/500 ▲	1/4"	5/16"	3/8"	10,000	10	16310
1-1/2"	.022/120 .035/180	1/2"	3/8"	1/4"	10,000	10	17628 29353
2"	.018/500 .022/320 .040/120	1/2"	3/8"	1/2"	10,000	10	17533 17543 17633
2"	.022/120	5/8"	7/16"	7/16"	10,000	10	17629
2-1/2"	.022/320 .022/120 .035/180	5/8"	1/2"	11/16"	10,000	10	29356 29123 29280
3"	.035/180 .022/320 .022/120 .040/120	1/2"	1/2"	1"	10,000	10	29088 17563 16315 16263

▲ Aluminum Oxide

Other diameters and grit sizes available upon request.



Weiler's Application Engineering Team is available to recommend the best product and process to meet your specific application requirements.



Deburring the edges of a machined aluminum component.



16000



1753



See adapters on page 90.



A diamond abrasive disc brush creates a small radius on a ceramic part.



83005



Nylox® Wheel Brushes

Diamond Filament Wheel Brushes - Weiler's diamond filament wheels utilize composite hub construction for high performance in precision applications. Our wheel brushes are made-to-order in a wide range of diameters and thicknesses. Additional configurations are available such as; tube brushes, composite hub disc brushes and end brushes. Common wheel configurations are listed below. Other sizes and pricing are available on request. Additional product configurations are available. Please contact Customer Service at 800-835-9999.

Applications

Ideal for producing edge radii on hard materials:

Diamond

Ceramic

■ CBN

■ Glass

Diamond Filament Wheels - Composite Hub - Round Diamond Filament

0.D. x I.D.	Filament Diam. /Grit	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	ltem Number
6" x 2"	.024/200 .014/600 .012/1000	5/16"	1-1/4"	1/4"	3,600	1	83002 83003 83004
8" x 2"	.024/200 .014/600 .012/1000	5/16"	2-1/4"	1/4"	3,600	1	83005 83006 83007



Operating Speeds - Wheels - Nylox® abrasive brushes work with a wiping and filing action. Think of them as flexible files. They work best when operated at speeds that allow penetration of the work-piece into the brush filaments. The maximum RPM marked on the brush is not the optimum working speed. A good rule of thumb is to stay under 2,500 SFPM in dry applications and 3,500 SFPM in wet applications.

Diameter	RPM
2"	3,450 - 5,000
3"	2,500 - 3,450
4"	1,750 - 2,500
6"	1,350 - 1,750
8"	1,150 - 1,350
10"	950 - 1,150
12"	750 - 950
14"	650 - 850

 $\underline{\text{Note:}}$ See parameter summary on page 74 for additional information.



Weiler was the first manufacturer of Composite Hub Nylox® Brushes.



Nylox[®] Crosshole Deburring Brushes

Bore-Rx™ Brushes - These brushes are designed for automated applications in CNC machining centers and dedicated machines. They are ideal for removing burrs from internal edges and finishing bores. Since they eliminate off-hand deburring, they improve part-to-part consistency and reduce direct labor content. Bore-Rx brushes are available in sizes ranging from 7/8" to 4" and can be readily adapted into a machining center's tool changer using an end-mill holder or 3/8" collet.

Bore-Rx Brushes - 3/8" stems - Crimped Round Black Ceramic Filament

Diameter	Filament Dia./Grit	Face Width	Overall Length	Max. RPM	Standard Pack	Item Number
7/8"	.026"/120	3/4"	4-3/4"	8,000	1	17206
]"	.026"/120	3/4"	4-3/4"	8,000	1	17208
1-1/4"	.026"/120	3/4"	4-3/4"	8,000	1	17210
1-1/2"	.026"/120	1"	5"	8,000	1	17212
2"	.026"/120	1"	4-1/4"	6,000	1	17215
2-1/2"	.055"/80	1"	4-3/4"	6,000	1	17217
3"	.026/120 .043/120 .055/80	1"	5-1/4"	6,000	1	86150 86151 86152
4"	.026/120 .043/120 .055/80	1"	6-1/4"	6,000	1	86154 86155 86156

Note: All Bore-Rx brush stems have a 2" long flat for use in end mill holders. Alternatively, they can be mounted in 3/8" collets.

Replacement Bore-Rx Brush Heads and Reusable Bore-Rx Arbors In high production applications, reusable arbors reduce manufacturing costs by allowing the use of inexpensive brush head replacements. Brush heads are made-to-order in diameters ranging from 7/8" to 2" with face widths of 1/4" to 1". They are available on 3/16" and 1/4" pins. The pin diameter is based on the application and determines brush density. Contact Application Engineering at 888-299-APPS (2777) for more information.



Operating Parameters For Bore-Rx Brushes

Brush Diameter	Recommended RPM	Recommended Feed Rate
5/8" - 7/8"	3000	20"/min
1" - 1-1/2"	3000	20"/min
2" - 2-1/2"	2000	20"/min
3" - 4"	1500	20"/min

Tool Paths for Crosshole Deburring

An effective tool path for most crosshole deburring jobs is circular interpolation using the following guidelines to determine diameter of interpolation. The interpolation should be performed at a depth where the center of the brush face is at the center of the intersecting

■ Diameter of Interpolation = Hole Dia. - 0.975 x Brush Dia.

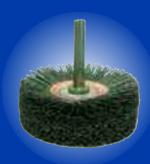
Tool Paths for Bore Finishing

Nylox brushes can be used to improve the surface finish of bores. The best tool path normally involves helically interpolating the bore. The above recommendations for speed, feed and diameter of interpolation are also valid for bore finishing. The use of coolant is highly recommended in order to achieve maximum surface finish improvement.



Deburring the internal bores of an air-cooled cylinder head.





86155



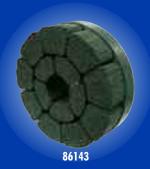
Replacement Head





Deburring a bearing cage in a CNC machining center.







See page 72 for more information about applying Nylox disc brushes in CNC applications.

Nylox® Disc Brushes

Nylox® **Disc Brushes** - Weiler's Nylox disc brushes are manufactured using a tufted filament configuration and longer trim length for increased aggression, greater conformability and longer product life in comparison to monofilament disc brushes which feature a distribution of short individual bristles.

Burr-Rx® disc brushes feature Weiler's advanced black ceramic grain filament which delivers up to a 400% greater edge cutting action in comparison to traditional silicon carbide and aluminum oxide filaments for the fastest, most aggressive deburring action for minimum cycle times and maximum media life.

All of our Burr-Rx disc brushes are manufactured using a new process which results in a very consistent, flat brush face in comparison to traditional construction which utilizes a molded backing. The high dimensional precision of these tools means that the brushes are suitable for the most critical applications and perform more consistently from first part to last. In addition, the machined polymer backings are designed to mount directly onto a standard shell mill holder for convenient use in CNC machining centers.

Applications

- Deburring flat surfaces on machined components
- Improving texture characteristics on machined or ground surfaces
- Deburring face-milled castings or forgings
- Blending tool marks after machining or grinding

Burr-Rx® Shell Mill Holder Disc Brushes - Crimped Black Ceramic Filament

Diameter	Filament Diameter/Grit	Arbor Hole	Trim Length	Max. RPM	Standard Pack	ltem Number
			Round Filament			
4"	.026/120 .043/120 .055/80	1-1/4"	1-1/2"	2,500	1	86112 86113 86114*
6"	.026/120 .043/120 .055/80	1-1/4"	1-1/2"	2,500	1	86115 86116 86117*
8"	.026/120 .043/120 .055/80	1-1/4"	1-1/2"	2,000	1	86141 86142 86143*
10"	.026/120 .043/120 .055/80	1-1/4"	1-1/2"	2,000	1	86125 86121 86122*
			Rectangular Filame	nt		
4"	80	1-1/4"	1-1/2"	2,500	1	86167*
6"	80	1-1/4"	1-1/2"	2,500	1	86198*
8"	80	1-1/4"	1-1/2"	2,000	1	86199*

^{*} Maximum Density



Note: See parameter summary on page 74 for additional information.

Operating Speeds - Discs - Nylox® abrasive brushes work with a wiping and filing action. Think of them as flexible files. They work best when operated at speeds that allow penetration of the work-piece into the brush filaments. The maximum RPM marked on the brush is not the optimum working speed. A good rule of thumb is to stay under 2,500 SFPM in dry applications and 3,500 SFPM in wet applications.

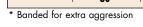
Diameter	RPM		
1-3/4"	1,750 - 2,000		
3"-4"	1,500 - 1,750		
5" - 6"	1,250 - 1,500		
8"	800 - 1,000		
10"	700 - 800		
12"	600 - 700		
14"	500 - 600		



Nylox[®] Disc Brushes

Composite Hub Disc Brushes - Silicon Carbide Filament

Diameter	Filament Dia./Grit	Arbor Hole	Trim Length	Max. RPM	Standard Pack	ltem Number		
Diumeter	Dia./Oili				Tuck	Nonibei		
Crimped Round Filament								
3"	.035/180 .040/120	7/8"	1-1/2"	2,500	1	85776 85778		
3-1/2"	.022/320 .035/180 .040/80	7/8"	1-1/2"	2,500	1	85792 85794 85798		
4"	.022/320 .035/180 .040/120 .040/80	7/8"	1-1/2"	2,500	1	85812 85814 85816 85818		
5"	.035/180 .040/80	7/8"	1-1/2"	2,500	1	85832 85836		
6"	.035/180 .040/120 .040/80	7/8"	1-1/2"	2,000	1	85850 85852 85854		
8"	.035/180 .040/120 .040/80	7/8"	1-1/2"	2,000	1	85908 85912 85914		
10"	.040/120 .040/80	7/8"	1-1/2"	1,750	1	85930 85932		
12"	.035/180 .040/120	7/8"	1-1/2"	1,750	1	85946 85948		
			Rectangular Filam	ent				
3"	120 80	7/8"	1-1/2"	2,500	1	85786 85788		
3-1/2"	320 80	7/8"	1-1/2"	2,500	1	85800 85806		
4"	180 120 80 80 80	7/8"	1-1/2"	2,500	1	85822 85824 85826 85995 • 85900* •		
5"	120 80 80	7/8"	1-1/2"	2,500	1	85842 85844 85978 •		
6"	120 80 80 80	7/8"	1-1/2"	2,000	1	85860 85862 85996 • 85901 * •		
8"	120 80	7/8"	1-1/2"	2,000	1	85920 85922		
9"	80	7/8"	1-1/2"	2,000	1	85997 •		
10"	120 80	7/8"	1-1/2"	1,750	1	85938 85940		





Arbor & Drive Hole Specifications for Composite Hub Disc Brushes

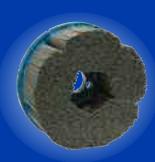
Brush Diameter	Arbor Hole Diameter	Drive Holes
3"-5", 6" Max. Density	7/8"	(2) 1/4" dia. on a 1-1/4" dia. bolt circle
6"	7/8"	(3) 1/4" dia. on a 3" dia. bolt circle
8"	7/8"	(4) 1/4" dia. on a 3" dia. bolt circle
10"	7/8"	(4) 1/4" dia. on a 1.625" dia. bolt circle
12"	7/8"	(4) 1/4" dia. on a 1.625" dia. bolt circle
14"	5"	N.A.



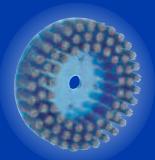
Deburring the edges of an aluminum engine cover.



85852



85978



85920



See adapters & drive arbors on pages 90-91.



Maximum density

Pamaying burns and broaking

Removing burrs and breaking sharp edges on a transmission component.



85733



85753



85752



85981



14413



See adapters & drive arbors on pages 90-91.

Nylox® Disc and Cup Brushes

Nylox Mini-Disc Brushes - Featuring a precision machined aluminum cup, Weiler's mini-disc brushes are designed to be the most cost-effective media for applications requiring a smaller brushing tool.

Applications

- Deburring flat surfaces on machined components
- Improving texture characteristics on machined or ground surfaces
- Deburring face-milled castings or forgings
- Blending tool marks after machining or grinding

Burr-Rx® Mini Disc Brushes - Maximum Density - Crimped Black Ceramic Filament

Diameter	Filament Diameter/Grit	Trim Length	Max. RPM	Standard Pack	ltem Number				
Round Filament									
2"	.026/120 .035/80 .043/120 .055/80	1-1/4"	4,500	1	86106 85738 86107 85733				
3"	.026/120 .035/80 .043/120 .055/80	1-1/4"	4,500	1	86109 86013 86110 86111				
		Rectangula	r Filament						
2"	80	1-1/4"	4,500	1	85736				
3"	80	1-1/4"	4,500	1	86014				

Mini Disc Brushes - Silicon Carbide Filament

Diameter	Filament Dia./Grit	Trim Length	Max. RPM	Standard Pack	ltem Number
		Round I	ilament		
1-3/4"	.035/180 .022/120 .040/80	1-1/4"	6,000	2	85753 85751 85750
		Rectangula	ar Filament		
1-3/4"	80	1-1/4"	6,000	2	85752
2"	80	1-1/4"	4,500	2	85773*
3"	80	1-1/4"	4,500	1	85981*

^{*} Maximum Density

Nylox Cup Brushes - Weiler also offers an assortment of Nylox tools featuring traditional cup brush construction for deburring and finishing use in lighter duty applications. These brushing tools can be used on dedicated machines in automated processes or on low speed/high torque handheld tools for manual applications.

Applications

Deburring and finishing complex or contoured parts

Cup Brushes - Crimped Round Silicon Carbide Filament



Diameter	Filament Dia./Grit	Arbor Hole	Trim Length	Max. RPM	Standard Pack	ltem Number
2-3/4"	.022/320 .035/180 .040/120	1/4" Stem	1-1/4"	6,000	1	14401 14403 14404
3-1/2"	.035/180 .040/120	5/8"-11	1-1/2"	12,000	1	14413 14414
5"	.040/120	5/8"-11	1-1/4"	8,000	1	14576
6"	.040/120 .040/80	5/8"-11	1-1/4"	6,600	1	14516* 14506*

^{*} With internal nut



Nylox® End Brushes

Nylox® End Brushes and Miniature End Brushes - Featuring an integral stem for convenient mounting into a toolholder or collet, Nylox end brushes and miniature end brushes are suitable for addressing recesses and internal features, or delivering a targeted brushing action to a specific area on a part.

Applications

- Deburring small recessed areas and internal part features
- Finishing slots and recessed surfaces on machined parts

Burr-Rx® End Brushes - Banded - Crimped Round Black Ceramic Filament - Mounted on 1/4" Stems

Diameter	Filament Diameter/Grit	Trim Length*	Max. RPM	Standard Pack	ltem Number
3/8"	.026/120 .043/120	1/4"	10,000	10	86098 86099
1/2"	.026/120 .043/120	1/4"	10,000	10	86100 86101
3/4"	.026/120 .043/120	1/4"	10,000	10	86102 86103
1"	.026/120 .043/120	1/4"	10,000	10	86104 86105

^{*} Trim length from bands

End Brushes - Banded - Crimped Round Silicon Carbide Filament - Mounted on 1/4" Stems

Diameter	Filament Dia./Grit	Trim Length*	Max. RPM	Standard Pack	ltem Number
1/2"	.022/320 .035/180 .040/120	3/8"	10,000	10	11160 11161 11162
3/4"	.035/180 .040/120	3/8"	10,000	10	11165 11166
1"	.022/320 .035/180 .040/120	3/8"	10,000	10	11168 11169 11170

^{*} Trim length from bands

End Brushes - Crimped Round Silicon Carbide Filament - Mounted on 1/4" Stems

Diameter	Filament Dia./Grit	Trim Length	Max. RPM	Standard Pack	ltem Number
1/2"	.022/320 .035/180 .040/120	7/8"	10,000	10	10172 10173 10174
3/4"	.022/320 .035/180 .040/120	7/8"	10,000	10	10152 10153 10154
1"	.022/320 .035/180 .040/120	7/8"	10,000	10	10155 10156 10157

Miniature End Brushes - Crimped Round Silicon Carbide Filament Plastic Ferrule - Mounted on 1/8" stems

Diameter	Filament Dia./Grit	Trim Length	Max. RPM	Standard Pack	Item Number
3/16"	.018/500	1/4"	37,000	144	26136
1/4"	.018/500	3/8"	37,000	144	26138
5/16"	.018/500	9/16"	25,000	144	26146





10154



26136





Crosshole deburring an aluminum manifold.



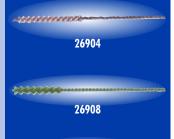




21138



21473





26915

Nylox® Tube Brushes

Nylox® Power Tube Brushes - Weiler offers a comprehensive line of Nylox power tube brushes for internal deburring and finishing applications in tubular component parts, drilled and tapered holes, and machined bores and passages. Power tube brushes are suitable for use in drill presses and manual and CNC machine tools. See pages 50-51 for operating guidelines.

Burr-Rx® Tube Brushes - Crimped Black Ceramic Filament - 1/4" Cadmium Plated Stems

Diameter	Filament Dia./Grit	Length of Brush Part	Stem Diameter	Overall Length	Standard Pack	Item Number
3/8"	.026/120	1"	1/4"	3-1/2"	10	21758
1/2"	.026/120	1"	1/4"	3-1/2"	10	21759
5/8"	.026/120	1"	1/4"	3-1/2"	10	21761
3/4"	.026/120	1"	1/4"	3-1/2"	10	21762
7/8"	.026/120	1"	1/4"	3-1/2"	10	21763
1"	.026/120	1"	1/4"	3-1/2"	10	21764
1-1/4"	.026/120	1"	1/4"	3-1/2"	10	21765

Tube Brushes - Crimped Round Silicon Carbide Filament - Double Stem, Single Spiral

Diameter	Filament Dia./Grit	Length of Brush Part	Stem Diameter	Overall Length	Standard Pack	ltem Number
1/4"	.022/320	2"	5/32"	5"	10	21126
3/8"	.022/320	2"	5/32"	5"	10	21128
1/2"	.022/320 .040/80	2"	3/16"	5"	10	21130 21325
5/8"	.022/320 .040/80	2"	7/32"	5"	10	21132 21326
11/16"	.022/320	2"	7/32"	5"	10	21133
3/4"	.022/320 .040/80	2-1/2"	1/4"	5-1/2"	10	21134 21327
7/8"	.022/320 .040/80	2-1/2"	1/4"	5-1/2"	10	21136 21976
1"	.022/320 .040/80	2-1/2"	1/4"	5-1/2"	10	21138 21328
1-1/4"	.022/320 .022/120 .035/180 .040/80	2-1/2"	1/4"	5-1/2"	10	21306 21304 21305 21329
1-1/2"	.022/320 .035/180 .040/80	2-1/2"	1/4"	5-1/2"	10	21309 21308 21330
1-3/4"	.040/80 .035/180	2-1/2"	1/4"	5-1/2"	10	21311 21312
2"	.022/320 .040/80	2-1/2"	1/4"	5-1/2"	10	21473 21345

Tube Brushes - Micro Abrasive - For ultra-fine deburring and finishing of small internal holes.

Diameter	Length of Brush Part	Stem Diameter	FOR HOLE I Decimal	DIAMETERS Fraction	Overall Length	Standard Pack	Item Number
			Silicate	Filament			
.030" .050" .075" .090" .105" .125" .135"	1/2" 1/2" 3/4" 3/4" 1" 1"	.015 .022 .033 .041 .041 .064	.031" .047" .063" .078" .094" .109" .125"	1/32" 3/64" 1/16" 5/64" 3/32" 7/64" 1/8"	4" 4" 4" 4" 4" 4"	10	26900 26901 26902 26903 26904 26905 26906
		6	600 Grit Aluminu	m Oxide Filame	nt		
.165" .190" .260" .325" .385" .515" .640" .765" .890"	1" 1" 1" 1" 1" 1" 1"	.087 .087 .115 .115 .147 .194 .194 .212	.156" .188" .250" .313" .375" .500" .625" .750"	5/32" 3/16" 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 7/8"	5" 5" 5" 5" 5" 5"	10	26907 26908 26909 26910 26911 26912 26913 26914 26915

Nylox[®] Adapters and Drive Arbors

Metal Adapters - Reusable - Used in pairs and priced per pair.

Diameter	Arbor Hole Size	Used With	Standard Pack	ltem Number
2"	1/2" 5/8" 3/4" 7/8" 1" 1-1/4" 1-1/2"	All 2" I.D. Wheels	1	03809 03810 03811 03824 03812 03813 03814
3-1/4"	3/4" 7/8" 1" 1-1/4" 2"	3-1/4" I.D. Wheels (When mounting only one wheel)	1	03910 03911 03912 03913 03915
5-1/4"	3/4" 7/8" 1" 1-1/4" 2"	5-1/4" I.D. Wheels (When mounting only one wheel)	1	03920 03921 03922 03923 03925





03923

Steel Flanges - Reusable - Used on the ends of a gang mount. Used in pairs and priced per pair. Must be used in conjunction with Pressboard Adapters in chart below.

Flange O.D.	Arbor Hole Size	Used With	Standard Pack	ltem Number
5-5/8"	3/4" 1" 1-1/4" 2"	3-1/4" & 4-1/4" I.D. Wheels	1	03931 03933 03934 03936
6-1/2"	1-1/4" 1-1/2" 2"	5-1/4" I.D. Wheels	1	03944 03945 03946
8-3/4"	1-1/4" 1-1/2" 2"	7-1/4" I.D. Wheels	1	03954 03955 03956



03944

Pressboard Adapters - Used for centering 10", 12" and 14" Nylox® Wheels when gang mounting. Must be used in conjunction with Steel Flanges in chart above.

Brush I.D.	Arbor Hole	Standard Pack	Item Number
I.D.	Size	ruck	Number
3-1/4"	3/4"	1	03890
	1"		03892
	1-1/4"		03893
	2"		03895
4-1/4"	3/4"	1	03960
·	1-1/4"		03963
	2"		03965
5-1/4"	1-1/4"	1	03403
·	1-1/2"		03404
	2"		03405
7-1/4"	1-1/4"	1	03973
•	1-1/2"		03974
	2"		03975



03403



Nylox[®] Adapters and Drive Arbors











Plastic Adapters

Fixed Arbor Hole Size	Adapted Arbor Hole Size	Used With	Standard Pack	ltem Number
1/2"	1/4"	Small Dia. Wheels	10	04400
1/2"	3/8"	Small Dia. Wheels	10	04401
5/8"	1/2"	Small Dia. Wheels	10	04402

Miniature & Burr-Rx™ Disc Brush Drive Arbors - Includes drive arbor, set screw and hex key.

Stem Diameter	Stem Length	Max. RPM	Standard Pack	ltem Number
1/4"	1-3/4"	6,000	1	89023
3/8"	1-3/4"	6,000	1	89024
1/2"	1-3/4"	6,000	1	89029*

^{*} For use with 2" & 3" Burr-Rx brushes only.

Disc Brush Drive Arbors - Mounts Weiler disc brushes to any type of milling machine or CNC machine.

Description	Standard Pack	ltem Number
For 3", 4" and 5" diameter disc brushes with 1-1/4" diameter bolt circle	1	07700*
For 6" diameter disc brushes with 3" diameter bolt circle	1	07701*
For 6" diameter Burr-Rx™ disc brushes and 5" diameter disc brushes	1	07715*
For 8" diameter disc brushes with 3" diameter bolt circle	1	07702
For 10" and 12" diameter disc brushes with 1.625" diameter bolt circle	1	07703
Replacement kit includes (1) 1/2"-13 locking flow-through bolt and (1) Belleville spring washer	1	07718

Standard 3/4" diameter shaft, 2" long. Standard 7/8" diameter shouldered spindle.

^{*} Flow-through drive arbor. 2-1/2" long shaft.



- The adapters and drive arbors listed on this page are for use with small diameter wheel brushes only; do not attempt to use them with cutting or grinding wheels, buffing wheels, or any type of abrasive wheel or disc.
- Do not adapt a wheel brush for use on a shaft diameter less than that specified by ANSI B165.1 (see page 20) or exceed the maximum wheel diameter specified for a drive arbor.
- Never mount a drive arbor onto a tool which operates above the maximum RPM rating of either the arbor or the brush (whichever may be lower) and be sure that the stem of the arbor is properly secured in the collet or chuck before use.



Weiler's Black Ceramic Nylon Abrasive Filament Brushes are being used on key parts of the United States Navy's newest warships.



Nylox[®] FME Area Product Solutions

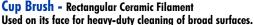
In nuclear power plants, Foreign Material Exclusion (FME) programs may limit or even exclude the use of wire brushes in some areas during the performance of routine maintenance, repair or shut-down activities. Weiler has developed a FME-compliant tooling system to address the needs of plant operators and maintenance contractors working in these facilities as well as other industries where the potential introduction of broken wire filaments may be of concern.

Weiler's FME Solutions program is a complete system consisting of non-wire brushing tools designed to perform a broad range of surface cleaning and preparation applications as well as the power tools <u>required</u> to drive them. For cleaning hot welds in FME-controlled areas, Weiler offers the HFR stringer bead wire wheel (see page 28) which can be used on a standard right angle grinder.

Black Nylox Ceramic Brushes - The engineered ceramic grain in Weiler's Black Nylox filament is up to 400% more aggressive than the silicon carbide and aluminum oxide grain in other abrasive filaments, making it much more effective in surface cleaning applications. The efficient cutting action of the Black Nylox filament also generates less heat and makes it much more resistant to "smearing" than traditional nylon abrasive filaments.

Narrow Face Wheels - Crimped Ceramic Filament Used on edge for weld prep and cold weld cleaning.

Diameter	Filment Dia./Grit Size	Face Width	Arbor Hole	Max. RPM	Standard Pack	Item Number
4"	.055/80	1/2"	5/8"-11 Nut	4,800	5	31112
4"	.043/120	1/2"	5/8"-11 Nut	4,800	5	31111



Diameter	Filment Dia./Grit Size	Arbor Hole	Max. RPM	Standard Pack	Item Number
4"	.049 x .098 - 80 Grit	5/8"-11 Nut	4,800	1	86160

Bevel Brush - Rectangular Ceramic Filament For agaressive cleaning in corners and confined areas.

	35						
Diameter	Filment Dia./Grit Size	Face Width	Arbor Hole	Max. RPM	Standard Pack	Item Number	
4"	.049 x .098 - 80 Grit	3/4"	5/8"-11 Nut	4,800	1	31113	



Nylon abrasive filament brushes require a lower operating RPM than most other power tool accessories and they cannot be used effectively on standard grinders.

Weiler Grinders By Metabo® - Engineered by Metabo exclusively for Weiler, these grinders operate at the optimum speed required to make the most effective use of the Black Nylox brushes. The critical mechanisms of these industrial grade electric grinders are sealed to protect them from the accumulation of dust and swarf. In addition, the housing and case of these virtually indestructible power tools are designed to insure optimum air flow over the motors for reliable performance and long service life. Grinders feature an extended-

slide "Deadman" switch design which insures that the tool shuts off if dropped.

Model 60012 4-1/2" Right Angle Grinder

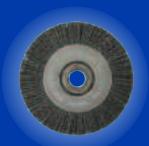
Features:

- Double insulation
- 4.800 RPM
- Deadman switch
- Current interruption protection
- Spindle lock

- Tool-free guard adjustment
- 2-position side handle
- 12.2 Amp
- 5/8"-11 Spindle
- Spanner wrench included



Removing gasket material from a pipe flange.



31112



86160





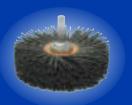
Cleaning internal threads inside a valve.



86148



86159



86171



Nylox[®] FME Area Product Solutions

End Brush - Crimped Ceramic Filament - 1/4" Stem For spot-facing or cleaning in tight areas.

Diameter	Filment Dia./Grit Size	Trim Length	Max. RPM	Standard Pack	Item Number
1"	.055/80	3/4"	4,800	10	86148

Controlled Flare End Brush - Crimped Ceramic Filament - 1/4" Stem

For cleaning corners and tight greas.

Diameter	Filment Dia./Grit Size	Trim Length	Max. RPM	Standard Pack	Item Number
1"	.035/80	1-1/8"	4,800	10	86159

Conflex Brushes - Crimped Ceramic Filament - 1/4" Stem For O.D. and I.D. cleaning in confined areas.

Diameter	Filment Dia./Grit Size	Face Width	Trim Length	Max. RPM	Standard Pack	Item No.
3"	.043/120	1"	15/16"	4,800	10	86171
3"	.055/80]"	15/16"	4,800	10	86172



Nylon abrasive filament brushes require a lower operating RPM than most other power tool accessories and they cannot be used effectively on standard grinders.

Model 60006 Die Grinder



Features:

- Double insulation
- 4,800 RPM
- Deadman switch
- Spindle lock

- Side handle included
- 7.5 Amp
- 1/4" Collet
- Extended spindle for working in confined areas

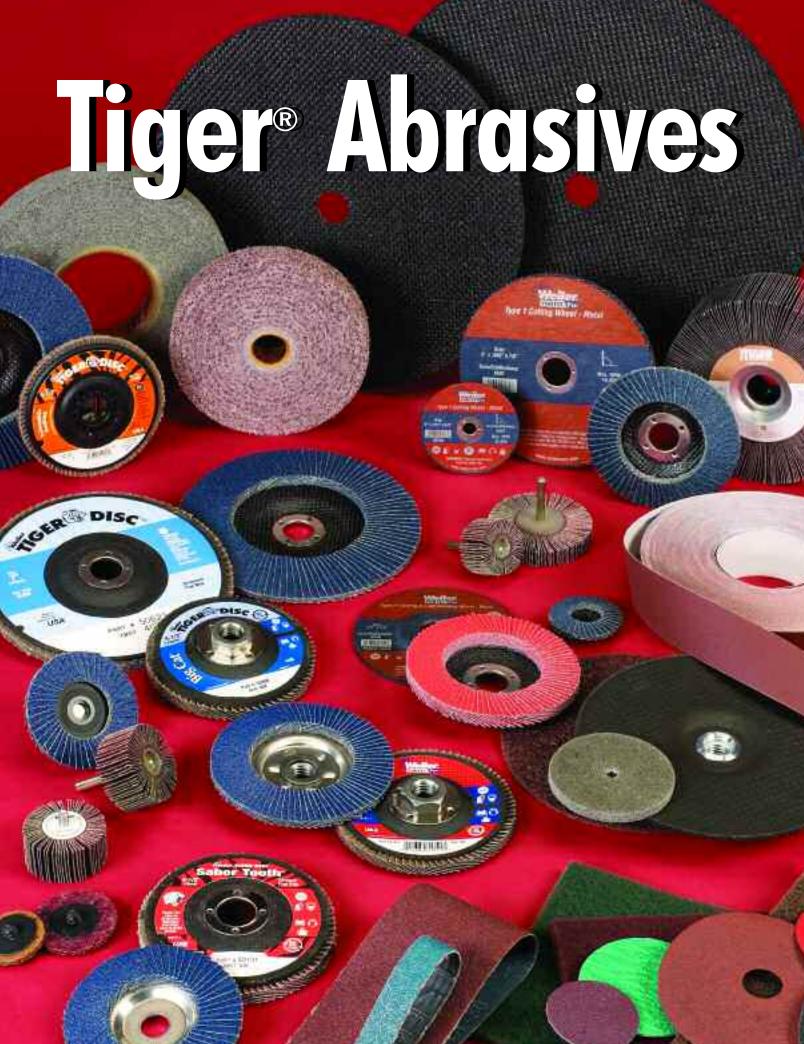
Hand Scratch Brushes - Crimped Ceramic Filament - For general purpose, light-duty cleaning.

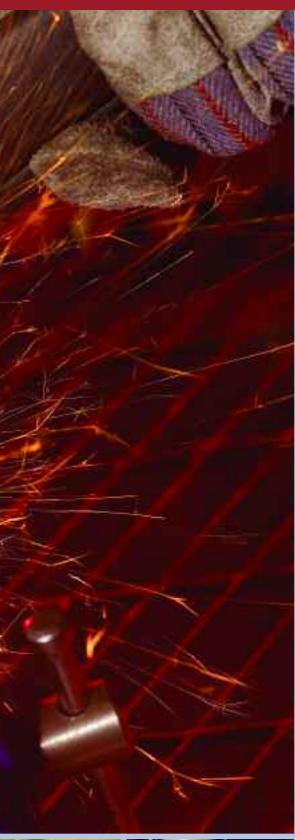
Overall Length	Block Type	Brush Part	Grit Size	Trim Length	Standard Pack	Item No.
10"	Wood	5"	80	3/4"	12	44144
8-3/4"	Wood	2 x 9 Rows	120	5/8"	36	95016



Weiler's Nylox and Burr-Rx brushes are used by all three of the major jet engine manufacturers to deburr critical component parts.







Flap Discs
Market Leader

- Resin Fiber Discs
- AL-tra CUT[™] Discs
- Blending Discs
- TRIM-KUT® Discs
- Flap Wheels
- Belts
- Shop Rolls

- New! Grinding & Cutting Wheels
 - Unitized Wheels
 - Convolute Wheels
 - Surface Conditioning Discs
 - Hand Pads
 - Interleaf Flapwheels
 - Knowledgeable and Responsive **Customer Service Team:** 800-835-9999
 - **Application Engineering Support:** 888-299-APPS (2777)
 - Interactive Website: www.weilercorp.com









Solutions Showcase

Steel Piping

Problem: A clean bevel end free of any surface imperfections is critical to a strong joint when welding heavy-wall piping. Unfortunately, lengths of steel pipe can sit in yards for significant periods of time, and pitting of the bevel ends is usually the result.

Solution: Coated abrasive flap discs like Weiler's original Tiger Disc are ideal tools for quickly removing heavy corrosion and blending pitting from bevel ends. The chatterfree, compliant grinding action and smooth, consistent finish produced by these discs make them the preferred choice for this application.



Steel Channel

Problem: Burrs produced by cut-off operations are dangerous and can prevent parts from fitting together properly which can cause potential structural weak points.

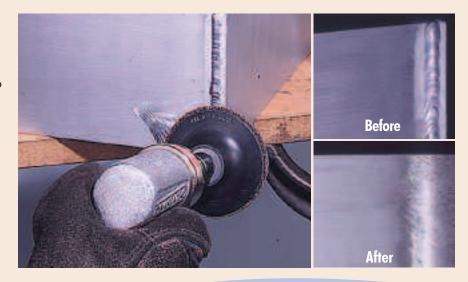
Solution: Weiler's coated abrasive flap wheels are flexible grinding products which are ideal for light stock removal applications. A 60 grit wheel can be used to remove a large burr and produce a smooth blended edge.



Aluminum Frames

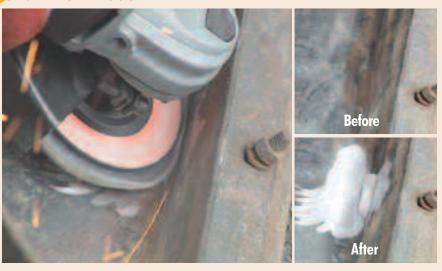
Problem: Aluminum welds are particularly difficult to blend due to the tendency of the chips to become welded to the abrasive media. This causes the cut rate of the abrasive to fall rapidly and generates an expensive grinding operation.

Solution: Weiler's AL-tra Cut™ discs are specially formulated to prevent loading by lowering the grinding temperature. A 60 grit ALtra Cut disc can blend an aluminum weld bead much faster than a conventional disc without loading.



Solutions Showcase

Snow Plow Blade

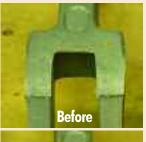


Problem: Grinding fillet welds is a difficult, time-consuming process that is often expensive to perform.

Solution: Weiler's Trimmable Tiger® flap disc offers the ability to create a flexible grinding media that can easily blend fillet welds. The disc's trimmable design also extends the life of the disc, resulting in lower grinding and finishing costs.

Steel Handle





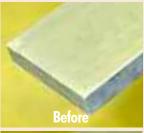


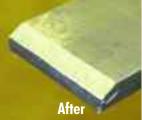
Problem: The removal of parting lines is a common application in the foundry business.

Solution: Weiler's selection of coated abrasive belts includes high performance and value products that help users control their production costs. Belts with 36 and 40 grit are commonly used for parting line removal.

Steel Rack Braces







Problem: To prevent weldments used in the construction of offshore oil platforms from "racking" under load, lengths of steel bar stock are added as braces during the fabrication of these structural members. Beveling or chamfering the ends of the bars increases weld penetration and strengthens the joint.

Solution: The requirement for fast stock removal and long wheel life makes this an ideal application for a good quality Type 27 grinding wheel like those in Weiler's Vortec Pro® line of general-purpose bonded abrasives.



Coated Abrasive Flap Disc Technical Information

Abrasive Flap Disc Product Construction

Grind and Finish in One Step!

Weiler's Coated Abrasive Flap Discs save you time and money. There's no need to switch from a Type 27 Grinding Wheel to a Resin Fiber Disc because flap discs grind and finish in one step. This results in fewer changeovers and increased productivity.

Construction Advantages of Abrasive Flap Discs



Abrasive Flap Disc: Multi-layer flap construction

As the coated abrasive cloth flaps slowly wear down, new sharp abrasive grain is constantly exposed, producing a consistently high cut rate throughout disc life.



Resin Fiber Disc: Solid one-layer construction

The cut rate of a resin fiber disc diminishes rapidly because, as the disc wears, no new abrasive grain is exposed.

Flap Disc Construction Styles



Angled Style - Type 29

- Maximum aggression
- Long life
- Ideal working angle of 15-35°



Flat Style - Type 27

- Smooth grinding action
- Long life
- Ideal working angle of less than 15°

Weiler's Ceramic and Zirconium Flap Discs are contaminant free, which means Iron, Sulfur and Chlorine is ≤ 0.1%.



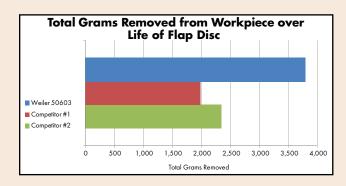
High Density Style - Type 27

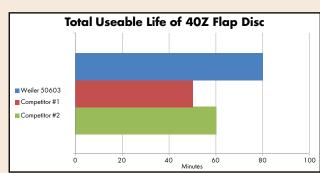
- Thicker disc with longer flaps
- Conforms to curved and irregular surfaces
- Maximum life
- Ideal working angle of less than 15°

Lab Testing Results

Item(s) Tested: 4-1/2" x 7/8" Flap Discs - 40 Grit Zirconium

The following are the results of an automated test comparing the Weiler Tiger 4-1/2" Type 29 standard Flap Disc vs. two major manufacturers of flap discs products. The test involved grinding for up to 80 minutes (only the Tiger made it that long) on mild steel bar stock.





The Weiler Tiger 50603 flap disc outperformed the competition in both material removal and life. More work and fewer changes increases productivity and reduces overall grinding & finishing costs.



Coated Abrasive Flap Disc Technical Information

Abrasive Flap Disc Product Selection

Weiler Tiger® Industrial Grade Products

Engineered and manufactured to maximize performance and minimize operating costs in all surface grinding applications. The use of superior construction, the highest quality materials and the most stringent manufacturing processes deliver the lowest cost-of-use and most consistent performance available in an abrasive product.

Weiler Vortec Pro® Professional Grade Products

Manufactured using similar product construction and to the same exacting standards as other Weiler Abrasives, but engineered to provide cost-effective use specifically designed for the professional, providing a high cut rate at a cost-effective price. Vortec Pro Abrasives are an economical choice for the construction trades, low volume production shops and the professional contractor.

Selection Guide For Abrasive Flap Discs

Application Requirement	Flap Disc Type	Contaminant- Free*	Page #	Tool
High cut rate and a long life.	Original Tiger® Disc	V	101-102	
High cut rate at a value price.	Vortec Pro® Flap Disc	V	103	
Increased conformability on contoured parts; enhanced ergonomics; long life; minimized gouging on value-added components.	High Density Big Cat®	V	104	
Increased conformability at a value price.	High Density Vortec Pro®	V	104	30 -
High cut rate on stainless steel, aluminum, iconel, titanium and other hard-to-grind metals.	Saber Tooth™ Flap Discs	V	105	
High cut rate and a long life. Enables operator to trim non-marking backing, exposing more flaps thereby extending life and increasing flexibility.	Trimmable Tiger® Flap Disc	V	106	
For use on air and electric right angle die grinders; Ideal for small, tight areas; non-marking backing.	BobCat™ (Mini Discs)	~	107	-€EN

Note: Type 29 (Angled) discs are ideal for maximum aggression while Type 27 (Flat) discs are best for smooth grinding.

Selection Guide For Backing and Grain Types

Application Requirement	Backing Type		
Rigid support for maximum aggression; recyclable.	Aluminum		
Prevents backing from scratching the workpiece during operation.	Phenolic		
Trimmable, non-marking backing; allows access to hard-to-reach angles.	Composite*		

^{*}BobCat Mini Discs are not trimmable.

Application Requirement	Grain Type		
High cut rate & long life on stainless, aluminum and other hard-to-grind metals.	Ceramic		
High rate of stock removal and long life in demanding applications.	Zirconium		
General purpose metalworking applications.	Aluminum Oxide		
Maximum material removal.	Coarser Grits		
Achieve desired finishes.	Finer Grits		



Abrasive users and others in area must wear goggles or face shields over safety glasses. Safety guards must be used. Do not exceed maximum RPM.



^{*}Weiler's Ceramic and Zirconium Flap Discs are contaminant-free, which means Iron, Sulfur and Chlorine is $\leq 0.1\%$.



Removing rust, corrosion and pitting from the bevel end of pipe.

50603

50513

Tiger® Disc Abrasive Flap Discs

#1 Seller

Original Tiger® Disc - Weiler's "made in U.S.A." Tiger Discs are the benchmark of the industry. They are designed for the serious industrial user who values both a high cut rate and long life.

Applications

- Grinding and finishing in one step
- Weld blending
- Deburring

- Deflashing
- Edge chamfering
- Stock removal

Tiger Disc - Angled Style (Type 29). Maximum aggression and long life.





						Item Number	
	Arbor Grit	Grit	Max.	Standard	Phe Bac	nolic king	Aluminum Backing
Diameter	Hole	Size	RPM	Pack	Zirconium	Alum. Oxide	Zirconium
4"	5/8"	36 40 60 80 120	15,000	10	50592 50593 50594 50595 50596	50552 50553 50554 50555 50556	50502 50503 50504 50505 50506
4-1/2"	7/8"	★24 36 40 60 80	13,000	10	50601 50602 50603 50604 50605 50606	50561 50562 50563 50564 50565 50566	50511 50512 50513 50514 50515 50516
4-1/2"	5/8"-11 Nut	*24 36 40 60 80 120	13,000	10	- 50608* 50609* 50610* -	- - - -	50510* 50517* 50518* 50519* 50520* 50509*
5"	7/8"	★24 36 40 60 80	12,000	10	50611 50612 50613 50614 50615 50616	50571 50572 50573 50574 50575 50576	50521 50522 50523 50524 50525 50526
6"	7/8"	40 60 80	10,200	10	50649 50650 50651	- - -	- - -
6"	5/8"-11 Nut	40 60 80	10,200	10	50659 50660 50661	- - -	- - -
7"	7/8"	*24 36 40 60 80	8,600	10	50621 50622 50623 50624 50625 50626	50581 50582 50583 50584 50585 50586	50531 50532 50533 50534 50535 50536
7"	5/8"-11 Nut	*24 36 40 60 80	8,600	10	50641* 50642* 50643* 50644* 50645* 50646*	50631* 50632* 50633* 50634* 50635* 50636*	50541* 50542* 50543* 50544* 50545* 50546*



[★] When grinding steel and other ferrous materials, a 36 grit Tiger Disc is more productive than a 24 grit. 24 grit Tiger Discs are most productive when used on aluminum and other soft materials.



Grit Size Selection

For Best Results:

Use 1 grit size coarser than resin fiber disc.

Exception:

36 grit, use same size.



50543



Tiger® Disc Abrasive Flap Discs

Tiger Disc - Flat Style (Type 27). Smooth grinding action and long life.



Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Phenoli	Number c Backing
Didillelei	noie	3126	KFIN	ruck	Zirconium	Aluminum Oxide
4"	5/8"	40 60 80 120	15,000	10	50693 50694 50695 50696	50653 50654 50655 50656
4-1/2"	7/8"	40 60 80 120	13,000	10	50703 50704 50705 50706	50663 50664 50665 50666
4-1/2"	5/8"-11 Nut	40 60 80 120	13,000	10	50708* 50709* 50710* 50699*	50668* 50669* 50670* 50671*
5"	7/8"	40 60 80 120	12,000	10	50713 50714 50715 50716	50673 50674 50675 50676
7"	7/8"	40 60 80 120	8,600	10	50723 50724 50725 50726	50683 50684 50685 50686
7"	5/8"-11 Nut	40 60 80 120	8,600	10	50743* 50744* 50745* 50746*	50733* 50734* 50735* 50736*

^{*}Patent # 6,945,863

Adapting Nuts & Spanner Wrench - For use with Tiger, Vortec Pro and High Density Flap Discs.

Description	Thread Size	For Use With	Standard Pack	ltem Number
Adapting Nuts	3/8" - 24	4" Flap Disc with 5/8" arbor hole (Can be used with an adjustable or combination wrench.)	1	56484
Adapting Nuts	5/8"-11	4-1/2", 5" & 7" Flap Discs with 7/8" arbor hole	1	56494
Spanner Wrench	_	Item No. 56494 only	1	56495

When mounting, adapters must be nested, see illustration below.





Removing heavy weld spatter while prepping surface for painting.





50664



50708

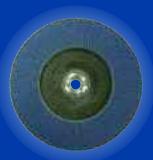




Grinding welds on a fabricated steel part.







31369





Vortec Pro® Abrasive Flap Discs

Vortec Pro® Flap Discs - Made in the U.S.A., these flap discs are designed for the user looking for a high cut rate at a value price (maintains similar cut rate as original Tiger® Discs).

Vortec Pro® - Angled Style (Type 29) - High cut rate at a value price.





					Item N	lumber
	Arbor	Grit	Max.	Standard	Phenolic Backing	Aluminum Backing
Diameter	Hole	Size	RPM	Pack	Zirconium	Zirconium
4"	5/8"	36 40 60 80 120	15,000	10	31337 ■ 31338 31339 ■ 31340 ■ 31341	31301 = 31302 = 31303 = 31304 = 31305
4-1/2"	7/8"	*24 36 40 60 80 120	13,000	10	31342 31343 ■ 31344 31345 ■ 31346 ■ 31347	31306 31307 = 31308 31309 = 31310 = 31311
4-1/2"	5/8"-11 Nut	★24 36 40 60 80 120	13,000	10	31348* 31349* 31350* 31351* 31352* 31353*	31312* 31313* 31314* 31315* 31316* 31317*
5"	7/8"	★24 36 40 60 80 120	12,000	10	31354 31355 31356 31357 31358 31359	31318 31319 31320 31321 31322 31323
7"	7/8"	*24 36 40 60 80 120	8,600	10	31360 31361 = 31362 31363 = 31364 = 31365	31324 31325 = 31326 31327 = 31328 = 31329
7"	5/8"-11 Nut	★24 36 40 60 80 120	8,600	10	31366* 31367* 31368* 31369* 31370* 31371*	31330* 31331* 31332* 31333* 31334* 31335*

★ When grinding steel and other ferrous materials, a 36 grit Vortec Pro flap disc is more productive than a 24 grit. 24 grit Vortec Pro flap discs are most productive when used on aluminum and other soft materials. *Patent # 6,945,863

Vortec Pro® - Flat Style (Type 27) - Smooth grinding action at a value price. ______ 0°-15°





Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number Phenolic Backing Zirconium
4-1/2"	7/8"	36 40 60 80	13,000	10	31401 31402 31403 31404
4-1/2"	5/8"-11 Nut	36 40 60 80	13,000	10	31407* 31408* 31409* 31410*
7"	7/8"	36 40 60 80	8,600	10	31413 31414 31415 31416
7"	5/8"-11 Nut	36 40 60 80	8,600	10	31419* 31420* 31421* 31422*

^{*}Patent # 6,945,863



[■] Available in display pack. See page 172 for details.

High Density Abrasive Flap Discs

High Density Flap Discs - Due to their thickness and larger flaps, Weiler's made in the U.S.A., high density flap discs conform to curved and irregular surfaces while producing a consistent finish and a 30-40% longer life than standard flap discs.

Applications

Provides increased conformability and long life when:

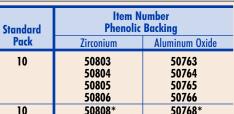
Grit

- Grinding and finishing in one step
- Weld blending
- Deburring

- Deflashing
- Edge chamfering
- Stock removal

Big Cat® - High Density Flat Style (Type 27) Increased conformability and maximum life.

Arbor



Diameter	Hole	Size	RPM	Pack	Zirconium	Aluminum Oxide
4-1/2"	7/8"	40 60 80 120	12,000	10	50803 50804 50805 50806	50763 50764 50765 50766
4-1/2"	5/8"-11 Nut	40 60 80	12,000	10	50808* 50809* 50810*	50768* 50769* 50770*
7"	7/8"	40 60 80 120	8,600	10	50823 50824 50825 50826	50783 50784 50785 50786
7"	5/8"-11 Nut	40 60 80 120	8,600	10	50843* 50844* 50845* 50846*	50833* 50834* 50835* 50836*

^{*}Patent # 6,945,863

Vortec Pro® - High Density Flat Style (Type 27) Increased conformability at a value price.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number Phenolic Backing Zirconium
4-1/2"	7/8"	40 60 80	12,000	10	31387 31388 31389
4-1/2"	5/8"-11 Nut	40 60 80	12,000	10	31390* 31391* 31392*

^{*}Patent # 6,945,863



Weiler was the first manufacturer of Abrasive Flap Discs in the U.S.A.



Blending and finishing edges of a flame-cut steel part.





50804



50765







See adapters on page 102.

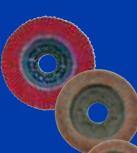


Weld blending on stainless steel with a Saber Tooth Abrasive Flap Disc.





50109



The backing can be trimmed up to 3/8" from the original diameter, dramatically extending the life of the disc.



Bright red grinding aid provides cool, fast cutting.

Saber Tooth™ Ceramic Flap Discs

Saber Tooth™ Ceramic Flap Discs - Weiler's made in the U.S.A., Saber Tooth Ceramic Abrasives provide cool, fast-cutting action on Aluminum, Stainless Steel and other hard-to-grind metals, resulting in lower grinding and finishing costs.

- Fast cut and long life due to the aggressive self-sharpening ceramic grain.
- Specially formulated grinding aid prevents dulling and glazing of grain and allows for "cool-cutting" protecting high value parts from heat discoloration.
- Designed to work with heat sensitive materials such as Aluminum, Stainless Steel, Inconel, Titanium and other hard-to-grind metals.

Applications

- Weld blending
- Deburring
- Surface Finishing

- Grinding
- Deflashing
- Edge chamfering

Saber Tooth™ Flap Disc - Angled Style (Type 29) -

Cool, fast cutting on hard-to-grind metals.



Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
4-1/2"	7/8"	36 40 60 80	13,000	10	50100 50101 50102 50103
4-1/2"	5/8"-11 Nut	36 40 60 80	13,000	10	50104* 50105* 50106* 50107*
7"	7/8"	36 40 60 80	8,600	10	50108 50109 50110 50111
7"	5/8"-11 Nut	36 40 60 80	8,600	10	50112* 50113* 50114* 50115*

^{*}Patent # 6,945,863

Trimmable Back Saber Tooth™ - Angled Style (Type 29) -

Cool, fast cutting on hard-to-grind metals. High stock removal, long life and flexibility.



Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
4 1/2"	7/8"	40 60 80	13,000	10	50117 50118 50119
4 1/2"	5/8"-11 Nut	40 60 80	13,000	10	50121* 50122* 50123*

^{*}Patent # 6,945,863

Saber Tooth[™] Phenolic Back - High Density - Flat Style (Type 27) - Cool, fast cutting on hard-to-grind metals. Increased conformability and 30-40% longer life than standard flap discs.





Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Numb
4-1/2"	7/8"	40 60 80	13,000	10	50130 50131 50132
4-1/2"	5/8"-11 Nut	40 60 80	13,000	10	50133* 50134* 50135*
7"	7/8"	40 60 80	8,600	10	50136 50137 50138
7"	5/8"-11 Nut	40 60 80	8,600	10	50139* 50140* 50141*

^{*}Patent # 6,945,863



Trimmable Abrasive Flap Discs

Trimmable Tiger® **Flap Discs -** Durable and efficient, Weiler's made in the U.S.A., Trimmable Tiger is designed for hard-to-reach angles and increased life!

- The unique composite backing can be trimmed, exposing more abrasive material and extending disc life, resulting in lower grinding and finishing costs.
- The trimmable backing also allows for high flexibility, enabling the operator to access hard-to-reach areas such as right angles and irregular shapes, and grind on-edge without changing tools, increasing productivity.
- The non-marking backing will not damage the workpiece, resulting in less re-work and scrap.
- Like all Tiger Discs, the Trimmable Tiger aggressively removes stock while providing excellent finish consistency all in one step.

Applications

- Grinding and finishing in one step
- Deburring
- Deflashing

- Edge chamfering
- Stock removal
- Weld blending

Trimmable Tiger Disc - Angled Style (Type 29) High stock removal, long life and flexibility.



Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number Zirconium
4-1/2"	7/8"	40 60 80 120	13,000	10	50002 50003 50004 50005
4-1/2"	5/8"-11 Nut	40 60 80 120	13,000	10	50006* 50007* 50008* 50009*
5"	7/8"	40 60 80 120	12,000	10	50010 50011 50012 50013
5"	5/8"-11 Nut	40 60 80 120	12,000	10	50014 50015 50016 50017

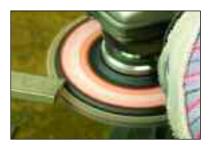
^{*}Patent # 6,945,863



Trimmable Backing For Extended Disc Life.

The Trimmable Tiger Disc's innovative design enables the operator to reduce the diameter of the backing to extend disc life. To trim backing, run against a sharp metal edge until desired backing diameter is achieved as shown at right.







Trimmable Flap Discs are used in the construction and fabrication of the "Up-Armored" Humvees used by the United States Military.



Grinding in corners just got easier with the flexibility of the Trimmable Tiger Disc!







50002



Visit www.weilercorp.com to see a video demonstrating applications and advantages of our Trimmable Tiger Disc.





Surface blending with a BobCat disc in a tight area.



Type 27



50914



BobCat™ Mini Flap Discs

BobCat™ Mini Flap Discs - Weiler's made in the U.S.A. BobCats are designed for use on right angle die grinders, providing smooth grinding and enhanced conformability in tight areas.

Applications

- Grinding and finishing in one step
- Grinding, deburring and blending on steel, stainless steel and other metals
- Jobs requiring high aggression and rapid stock removal
- Metal fabrication requiring light weld blending or edge chamfering



BobCat Mini Flap Discs - Zirconium Grain - Plastic Backing Ideal for tight spaces and in heavy-duty appplications where blending discs do not hold up.

whe	ere	15°-35°		0°-15°
_				
		I day and I	danakan	

	Grit	Max. Standard		Item Number	
Diameter	Size	RPM	Pack	Type 29	Type 27
2"	36 40 60 80 120	30,000	10	50922 50923 50924 50925 50926	50932 50933 50934 50935 50936
3"	36 40 60 80 120	20,000	10	50902 50903 50904 50905 50906	50912 50913 50914 50915 50916

Patent #5,951,389

BobCat Drive Mandrel - For mounting BobCat Discs without a backing pad.

Description	Standard Pack	Item Number
For mounting 2" & 3" BobCats on tools with 1/4" collets	1	07766

^{3&}quot; BobCats can also be mounted on Norton Speed-Lok® TS back-up pads and Weiler metal hub pad #60509. Speed-Lok® TS is a registered trademark of Norton Co.



Our website features a Distributor Locator to make it easy to find Weiler products in your area.

Resin Fiber Discs

Resin Fiber Discs - These fiber backed, coated abrasive discs are for use on right angle grinders. Weiler's line of premium resin fiber discs are suitable for light grinding, blending, surface preparation and finishing on a variety of materials.

Applications

- Saber Tooth[™] Ceramic: Cool, fast cutting action on aluminum, stainless steel and other hard-togrind metals.
- Zirconium: High performance grinding of stainless steel, tool steel and hard-toarind materials.
- Aluminum Oxide: All purpose weld blending, grinding, surface preparation and finishing of metals, plastic, wood and fiberglass.

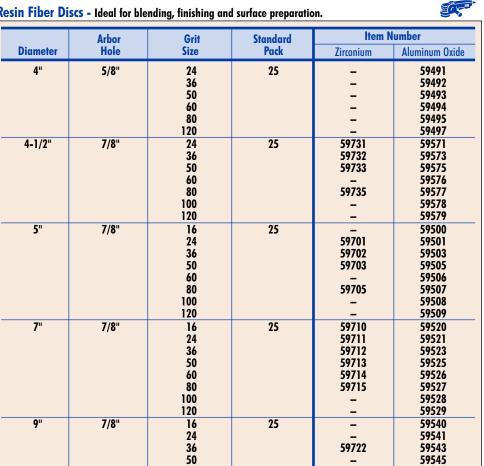




Diameter	Arbor Hole	Grit Size	Standard Pack	Item Number - Ceramic
4-1/2"	7/8"	24 36 50 60 80	25	59550 59551 59552 59553 59554
5"	7/8"	24 36 50 60 80	25	59557 59558 59559 59560 59561
7"	7/8"	24 36 50 60 80	25	59564 59565 59566 59567 59568

Resin Fiber Discs - Ideal for blending, finishing and surface preparation.

Saber Tooth Ceramic Resin Fiber Discs - Ideal for aluminum and stainless steel.



Do not exceed maximum RPM of back-up pad.



Blending welds on the corner of a steel furniture frame.



59557



59732



59503



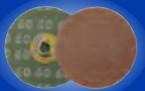
See back-up pads on page 109.



59546

Blending welds and saw marks on a mounting bracket.





59875



51552



60508





59601



AL-tra CUT™ Discs - For Grinding Aluminum

AL-tra CUT™ Discs - Specially formulated for superior grinding performance on aluminum, AL-tra CUTs improve grinding on aluminum 400-800%! These revolutionary discs resist loading, ensure higher cut rates, prolong disc life and achieve a superior finish compared to conventional sanding/grinding discs in the market. AL-tra CUT Discs replace conventional resin fiber discs 5 to 1 or more.

ApplicationsFor aluminum

applications such as:

- Weld blending
- YYCIG DICHG
- Grinding

Deburring

Finishing

AL-tra CUT Performance



Weiler's exclusive AL-tra CUT Discs resist loading when grinding aluminum, ensuring constant grain contact with the work surface.



Conventional resin fiber discs load when grinding aluminum. This prevents the abrasive grain from contacting the work surface and dramatically decreases performance.

2" & 3" AL-tra CUT Discs - Aluminum Oxide

	Grit	Standard	Item I	Number
Diameter	Size	Pack	Plastic Button*	Metal Hub+
2"	36 60 80 120	50	59806 59807 59808 59809	59869 59870 59871 59872
3"	36 60 80 120	25	59811 59812 59813 59814	59874 59875 59876 59877
2" & 3" Ba	ck-up Pads	- 1/4" stem	٨	
Diameter	Max. RPM	Std. Pack	Plastic Button	Metal Hub
2" 3"	25,000 20,000	1	51551 51552	60508 60509

Do not exceed maximum RPM of back-up pad.

Do not store AL-tra CUT Discs above 120° F. * Compatible with 3M Roloc $^{\text{TM}}$ back-up pads. (Roloc $^{\text{TM}}$ is a trademark of 3M.)

+ Compatible with Norton Speed-Lok® TS back-up pads. (Speed-Lok® TS is a registered trademark of Norton Co.)

4-1/2" & 7" AL-tra CUT Discs - Aluminum Oxide



Diameter	Arbor Hole	Grit Size	Standard Pack	ltem Number
4-1/2"	7/8"	36 60 80 120	25	59821 59823 59824 59826
7"	7/8"	36 60 80 120	25	59862 59864 59865 59867

Do not exceed maximum RPM of back-up pad.

Do not store AL-tra CUT Discs above 120° F.

Accessories for Resin Fiber & AL-tra CUT Discs

Description	Thread Size	Max. RPM	Standard Pack	ltem Number
4" Back-up Pad	5/8"-11*	12,000	1	59605
4-1/2" Back-up Pad	5/8"-11*	11,000	1	59611
5" Back-up Pad	5/8"-11*	10,000	1	59600
7" Back-up Pad	5/8"-11	8,500	1	59601
9" Back-up Pad	5/8"-11	6,500	1	59602
Spanner Wrench	_	_		59603
Disc Nut	5/8"-11	_	1	59604

^{*}Other thread sizes available on special orders.



Blending Discs

Blending Discs - These cloth backed, coated abrasive discs are for use on right angle air tools. Available with either a metal hub or a plastic button fastening system, the flexible back-up pads give the discs a great deal of conformability. Weiler's blending discs are suitable for a wide range of light fabrication, repair and maintenance applications.

Applications

■ Saber Tooth[™] Ceramic: Cool, fast cutting action on aluminum, stainless steel and other hard-togrind metals.

Saber Tooth™ Ceramic Blending Discs -

For aluminum, stainless and other hard-to-

grind metal applications.

- Zirconium: High performance blending of stainless steel, tool steel and hard-togrind materials.
- Aluminum Oxide: All purpose blending or finishing metal surfaces, light weld removal, removing handling marks, surface imperfections and

mill marks.



Compatible with Norton Speed-Lok® TS back-up pads.

Compatible with 3M Roloc[™] back-up pads.

-4	

	Grit	Standard	Item N	umber
Diameter	Size	Pack	Metal Hub	Plastic Button
2"	36 60 80	100	60150 60151 60152	60170 60171 60172
3"	36 60 80	50	60155 60156 60157	60175 60176 60177

Blending Discs - Metal Hub Style - Compatible with Norton Speed-Lok® TS back-up pads.



	Grit	Standard	Item N	umber
Diameter	Size	Pack	Zirconium	Aluminum Oxide
2"	36 60 80 120	100	60378 60381 60382 60384	60040 60043 60044 60046
3"	36 60 80 120	50	60391 60394 60395 60397	60053 60056 60057 60059

Blending Discs - Plastic Button Style - Compatible with 3M Roloc™ back-up pads.

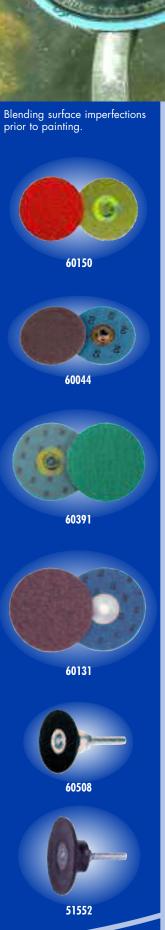


Diameter	Grit Size	Standard Pack	Item Number Aluminum Oxide
2"	36 60 80 120	100	60118 60121 60122 60124
3"	36 60 80 120	50	60131 60134 60135 60137

Back-up Pads - 1/4" Stem

Diameter	Max. RPM	Standard Pack	Metal Hub Style	Plastic Button Style
2"	25,000	1	60508	51551
3"	20,000	1	60509	51552

Do not exceed maximum RPM of back-up pad. (Speed-lok® TS is a registered trademark of Norton Co.) (Roloc™ is a trademark of 3M.)







Deburring and chamfering a section of pipe after cutting.



59300



59403





56496



If you are using a blending disc or TRIM-KUT Disc, ask our Application Engineering Department if Weiler's BobCat Abrasive Flap Discs can enhance your productivity. BobCats dramatically outperform blending and TRIM-KUT Discs by reducing changeovers and providing consistently high cut rates and extended life. See page 107 for more information.

TRIM-KUT® Discs

TRIM-KUT® Discs - Trim-Kuts are abrasive discs designed for light grinding and blending applications on a variety of materials. The abrasive grains are fused directly onto a wearable polymer backing, resulting in a disc that requires no back-up pad. The polymer backing trims during use to expose new grains to the work surface. 3" discs are designed for use on right angle air die grinders, and 4-1/2" discs are for use on right angle grinders.

Applications

- Edge blending
- Preparation for painting and surface finishing

- Light weld and stock removal
- Deburring

TRIM-KUT Discs - Aluminum Oxide



Diameter	Arbor	Grit	Max.	Standard	ltem
	Hole	Size	RPM	Pack	Number
3"	5/16" - 18	36 60 120	21,000	25	59300 59305 59315

Do not use TRIM-KUT discs in temperatures lower than 48° fahrenheit. Store at 50% relative humidity.

TRIM-KUT Discs - Aluminum Oxide



Diameter	Arbor	Grit	Max.	Standard	ltem
	Hole	Size	RPM	Pack	Number
4-1/2"	7/8"	36 60 120	13,000	25	59403 59404 59405

Do not use TRIM-KUT discs in temperatures lower than 48° fahrenheit. Store at 50% relative humidity.

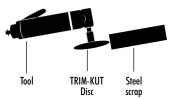
TRIM-KUT Adapters

Description	For Use With	Standard Pack	ltem Number
1/4" Mandrel	3" TRIM-KUT Discs	25	59327
3/8"-24 UNF Adapter	3" TRIM-KUT Discs	25	59326
Adapting Nuts	4-1/2" TRIM-KUT Discs	1	56485
Spanner Wrench	Item No. 56485 only	1	56496



Extend disc life 2-3 times.

Renew TRIM-KUT's sharp cutting edge by running the edge against a clamped piece of steel scrap.





Coated Abrasive Flap Wheels

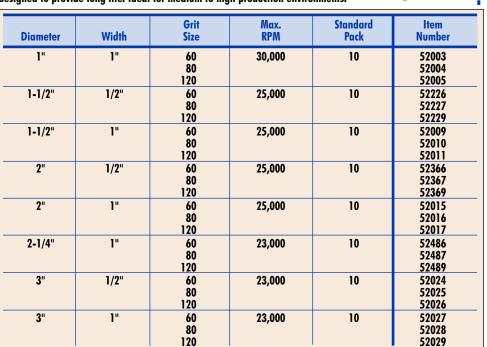
Flap Wheels are designed with a solid hub construction that:

- Enables flap wheels to be rated at higher RPM's, providing more aggressive cutting action and increased productivity.
- Provides perfect balance leading to smooth, chatter-free finishing.

Applications

- Final finishing metal surfaces
- Deburring and mis-match removal on machined parts
- Blending and finishing dies, molds, tools, tubing, and channels
- Smoothing metal, plastics and wood
- Finish prior to painting or plating
- Cleaning
- Edge blending

Tiger® Mounted Flap Wheels - 1/4" Stem - Aluminum Oxide. A premium line designed to provide long life. Ideal for medium to high production environments.



Tiger® Mounted Flap Wheels - 1/4"-20 Threaded Stem - Aluminum Oxide

Diameter	Width	Grit Size	Max. RPM	Standard Pack	ltem Number
1"	1"	60 80 120	30,000	10	52601 52603 52605
2"	1"	60 80 120	25,000	10	52611 52613 52615
3"	1"	60 80 120	20,000	10	52621 52623 52625

Drive Arbor - For 1/4"-20 Mounted Flap Wheels

Thread Size	Adapted Size	Standard Pack	Item Number
1/4"-20	1/4"	5	07756



Deburring perforated steel channel after saw-cut.



52010



52027



52621





- Drive arbor is used individually and must be ordered individually.
- Drive arbor is to be used with Weiler flap wheels only.
- Stems must be fully chucked before using and should not be run above the maximum RPM listed.

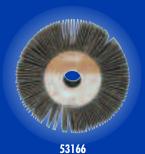




Removing burrs from the inside diameter of a cut tube.



30726



53286



Coated Abrasive Flap Wheels

Vortec® Mounted Flap Wheels - 1/4" Stem - Aluminum Oxide
Provide fast cutting action at a value price. Ideal for low to medium production environments.

Diameter	Width	Grit Size	Max. RPM	Standard Pack	ltem Number
1"	1"	60 80 120	30,000	10	30720 30721 30722
2"	1"	60 80 120	25,000	10	30723 30724 30725
3"	1"	60 80 120	23,000	10	30726 30727 30728

Tiger® Unmounted Flap Wheels - Aluminum Oxide



Diameter	Width	Arbor Hole	Grit Size	Max. RPM	Standard Pack	ltem Number
4"	1"	5/8"	60 80 120	9,000	10	53166 53167 53169
6"	1"]"	50 60 80 120	6,000	5	53285 53286 53287 53289
6"	1-1/2"	1"	50 60 80 120	6,000	4	53305 53306 53307 53309
6"	2"	1"	50 60 80 120	5,700	3	53325 53326 53327 53329

Metal Adapters - For Unmounted Flap Wheels. Used in pairs and priced per pair.

neel Arbor	Adapted Arbor	Standard	ltem
lole Size	Hole Size	Pack	Number
1"	1/2" 5/8" 3/4"	1	

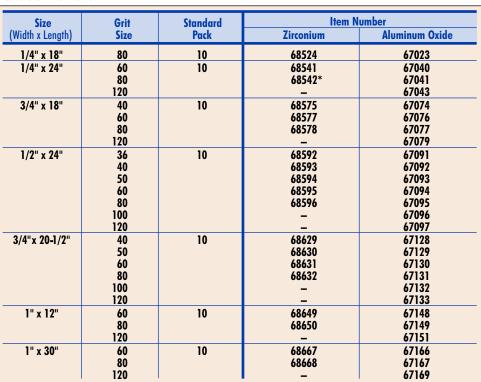


Weiler products were used in the construction of the 'Oasis of the Sea', the world's largest ocean liner.

Coated Abrasive Belts

Coated Abrasive Belts - Enhance productivity and lower operating costs with our wide assortment of coated abrasive belts in sizes ranging from 1/4" x 18" to 6" x 132". We also have the ability to provide custom made belts in sizes, backings and grains for specialized applications.

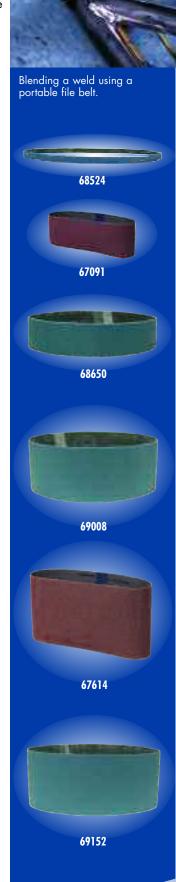
Portable File Belts



Portable Belts

rolluble bells				<u> </u>
Size (Width x Length)	Grit Size	Standard Pack	ltem N Zirconium	umber Aluminum Oxide
			Zircomoni	
3" x 18"	60	10	-	67488
	80		-	67489
	120		-	67491
3" x 21"	40	10	69005	67504
	50		69006	67505
	60		69007	67506
	80		69008	67507
	100		-	67508
	120		-	67509
3" x 24"	36	10	69040	67539
	40		69041	67540
	50		69042	67541
	60		69043	67542
	80		69044	67543
	100		-	67544
	120		_	67545
3-1/2"x 15-1/2"	60	10	-	67614
	80		-	67615
	120		_	67617
4" x 21-3/4"	60	10	_	67632
	80		-	67633
	100		-	67634
	120		_	67635
4" x 24"	36	10	69148	67647
	40		69149	67648
	50		69150	67649
	60		69151	67650
	80		69152	67651
	100		-	67652
	120		-	67653









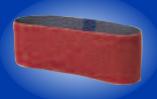
Blending parting lines on a grey iron casting.



69166



Saber Tooth™ Ceramic Belts also available! Contact Customer Service at 800-835-9999 for available sizes and grits.



Coated Abrasive Belts

Applications

- Decorative finishing of metal surfaces
- Grinding, deburring and flash removal on saw-cut parts
- Edge blending

- Smoothing metal, plastic & wood
- Removing tool marks & forging scale
- Finishing prior to painting or plating
- Grinding gates off castings



Benchstand/Backstand Belts

Size	Grit	Standard	Item I	Number
(Width x Length)	Size	Pack	Zirconium	Aluminum Oxide
1" x 42"	40 60 80 100	10	68683 68685 68686 —	67182 67184 67185 67186
1" x 132"	120 36 40 60 80 100	10		67187 67217 67218 67220 67221 67222
2" x 60"	60 80 120	10	68828 68829 —	67327 67328 67330
2" x 118"	40 60	10	68879 68881	67378 67380
2" x 132"	24 36 40 50 60 80 100	10	68895 68896 68897 68898 68899 68900 —	67394 67395 67396 67397 67398 67399 67400
2-1/2" x 60"	36 40 50 60 80 100	10	68950 68951 68952 68953 68954 —	67449 67450 67451 67452 67453 67454 67455
3" x 132"	24 36 40 50 60 80 100 120 150 180 220 240 320	10	69075 69076 69077 69078 69079 69080 — — — — — — —	67574 67575 67576 67577 67578 67579 67580 67581 67582 67582 67583 67584 67585
4" x 36"	36 40 50 60 80 100	10	69166 69167 69168 69169 69170 –	67665 67666 67667 67668 67669 67670
4" x 132"	24 36 40 50 60 80 100	10	69291 69292 69293 69294 69295 69296 —	67790 67791 67792 67793 67794 67795 67796

Note: Other belt sizes available by special order.



Coated Abrasive Belts & Shop Rolls

Benchstand/Backstand Belts



Size	Grit	Standard	Item N	
(Width x Length)	Size	Pack	Zirconium	Aluminum Oxide
6" x 48"	36 40 50 60 80 100 120 150	10	69346 69347 69348 69349 69350 — — —	67845 67846 67847 67848 67849 67850 67851 67852 67853
6" x 60"	36 40 50 60 80	10	69382 69383 69384 69385 69386	67881 67882 67883 67884 67885
6" x 132"	36 40 50 60 80 120	10	69400 69401 69402 69403 69404 —	67899 67900 67901 67902 67903 67905

Shop Rolls - Weiler's Shop Rolls are resin over resin bonded - providing a stronger, heat and moisture resistant bond that better utilizes the abrasive grains. The cotton cloth provides a tougher, durable backing for longer life. J-flex cloth provides a higher degree of flexibility to conform to contoured parts.

Applications

- Off-hand polishing of metal surfaces
- General purpose machine shop use

Off-hand deburring

■ Cleaning stock that is being turned in a lathe

Shop Rolls - Aluminum Oxide - 50 Yards. One roll per box.

Roll	Grit	Standard	Item
Width	Size	Pack	Number
1"	50	1	65204
	60		65205
	80		65206
	100		65207
	120		65208
	150		65209
	180		65210
	240		65212
	320		65213
1-1/2"	50	1	65217
,	60		65218
	80		65219
	100		65220
	120		65221
	150		65222
	180		65223
	240		65225
	320		65226
2"	50	1	65230
	60		65231
	80		65232
	100		65233
	120		65234
	150		65235
	180		65236
	240		65238
	320		65239





65204



Use light machine oil with shop rolls as a lubricant for finer finishes and quicker cut.



Bonded Abrasive Technical Information

Vortec Pro[®] Bonded Abrasives - Specifically designed for general purpose grinding & cutting applications requiring heavy material removal such as rough grinding, weld removal, snagging, cutting and parting. All product is resin bond formulated for aggressive stock removal and fast cutting and are reinforced with fiberglass webbing for stability.



These products range from 4" to 9" diameter and are available in 1/4" thick for grinding and 1/8" thick for light grinding. Type 27 Wheels are offered in aluminum oxide, silicon carbide or zirconium grain with a 5/8"-11 hub option.



Cutting Type 27 Products:

Type 27 Wheels are offered in .045", .060", 3/32" and 1/8" wheel thicknesses. Diameters range from 4" to 9" and are available in aluminum oxide, silicon carbide or zirconium grain, with an option of a 5/8"-11 hub.



Type 1 Products:

This product category includes wheels ranging from 2" to 14" diameter in various thicknesses and grit sizes in aluminum oxide, silicon carbide or zirconium grain. Type 1 Wheels are for use on right angle grinders, electric or air die grinders, tool room grinders, circular saws, stationary saws, chop saws and high speed portable gas and electric saws and walk-behind machines.







Abrasive users and others in area must wear goggles or face shields over safety glasses. Safety guards must be used. Do not exceed maximum RPM.

Bonded Abrasives Safety Guide - For complete and detailed safety information see ANSI safety code B7.1.

- ALWAYS handle and store wheels in a careful manner.
- ALWAYS visually inspect all wheels before mounting for possible
- damage. ALWAYS make sure operation speed established for machine does not exceed wheel speed.
- ALWAYS check mounting flanges for equal and correct diameter.
- ALWAYS use mounting blotters when supplied with wheels.
- ALWAYS keep grinder work rest properly adjusted within 1/8" 6.
- ALWAYS wear safety glasses or some type of eye protection equipment.
- ALWAYS use a safety guard covering at least one-half of the
- ALWAYS allow newly mounted wheels to run at operation speed, with guard in place, for at least one minute before applying to

- DON'T use a wheel that has been dropped.
- DON'T force a wheel onto the spindle or alter the hole size of the wheel.
- DON'T use a wheel that fits the arbor too loosely.
- DON'T exceed maximum operation speed established for the wheel
- 5. DON'T use dirty, nicked, warped or sprung mounting flanges.
- DON'T tighten the mounting nut excessively
- DON'T grind on the side of the wheel unless the wheel is specifically designed for that purpose.
- DON'T start machine without safety guard in place.
- DON'T jam work into the wheel.
- 10. DON'T stand directly in front of a grinding wheel whenever a grinder is started.
 DON'T grind or cut material for which the wheel is not designed.
- DON'T grind or cut without proper ventilation.



Bonded Abrasive Technical Information

Bonded Wheel General Operating Recommendations

Fixture the work-piece

to minimize wheel contact area for a faster, cooler cut.



Incorrect
(Wide contact point)



Correct (Two small contact points)

Use an oscillating head

when cutting thicker cross sections (over 3"). This reduces arc of contact and permits larger sections to be cut with a given diameter wheel.

Wheel



Counter rotation of the work-piece

is recommended for cutting large cross sections (over 8") and when cutting tubular stock.

Wheel



Tech Note

- To maximize performance, run at or close to the Maximum Safe Free Speed or RPM. NEVER EXCEED the MSFS or RPM.
- For maximum wheel life, select the coarsest, hardest wheel that will perform the cut.
- How to determine proper wheel wear:



Pointed wheel wear is a sign of improper usage. Wheel is too hard for application or feed rate is too slow for application.

Bonded Wheel Product Selection

Wheel Grain/Grit/Grade Guide

Grain	WA A C Z	White Aluminum Oxide: Longer wheel life on all metals except titanium & ductile iron Aluminum Oxide: for use on all metals except titanium and ductile iron Silicon Carbide: for use on non-metallics, titanium, ductile iron & stone Zirconium: for higher cut rates in high pressure applications (Type 27 only)
Grit	16 24 30 36 46 60	Extra Coarse: for fast, aggressive cutting and maximum wheel life Coarse: for fast, aggressive cutting and maximum wheel life Medium/Coarse: for fast cutting and long wheel life Medium/Coarse: excellent for general purpose cutting Fine/Medium: for a smoother finish and reduced burr Fine: for a burr-free cut
Grade	S-V R N	Hard: for maximum wheel life Medium/Hard: for cutting large cross sections; improved stock removal rate Soft: for maximum cut rate

Wheel Thickness Guide

1/4"	Grinding Only
1/8"	Light Grind & Cut
3/32"	Cutting Only
1/16"	Cutting Only
.045"	Cutting Only
.040"	Cutting Only
.035"	Cutting Only

Grinding Wheel Application Guide

A24N	Aluminum Oxide - Fast Cut - Ideal for use on hard welds and steel, stainless steel, and in low pressure, large contact grinding where the harder wheel grade (R) dulls or glazes.
A24R	Aluminum Oxide - Long Life - Offers longer life than the softer wheel grade (N). Ideal for all general purpose grinding on structural steel, or in foundries or heavy fabrication applications.
Z24T	High Performance Zirconium - Offers improved cut rate in high pressure applications. Ideal when grinding or cutting stainless steel, high carbon steel, cast iron and other metals.
C24R	High Performance Silicon Carbide - Offers an excellent cut rate on concrete, stone and non-ferrous metals.



Bonded Abrasive Technical Information

Application Solutions Guide

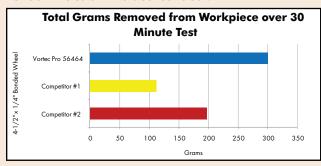
There are many variables in using Cut-Off Wheels. If the product you are using does not accomplish the desired results, select a solution from the suggestions below for your specific application or call Weiler's **Application Engineering Hotline at 888-299-2777.**

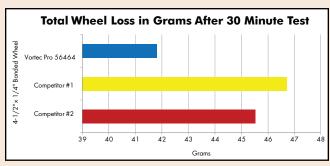
Problem	Possible Cause	Recommended Solution
Slow cut rate	Insufficient power being used	Increase feed rate; run machine at full power
	Contact area too large	Reduce contact area
	Side run out	Check for spindle run out
	Wheel binding	Provide relief under part
Workpiece burn	Insufficient feed rate	Increase feed rate
•	Wheel speed too slow	Check for wheel slippage
	Wheel too coarse	Use finer grit or increase power
Non-square cuts	Work not properly fixtured	Support both sides and fixture properly
	Worn spindle bearings	Check spindle
Too much burr	Improper fixturing	Check part fixturing
	Grit too coarse	Use a finer grit

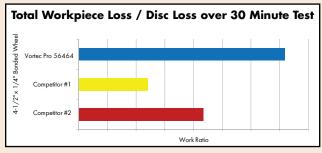
Lab Testing Results

Item(s) Tested: 4-1/2" x 1/4" x 7/8" Bonded Grinding/Cutting Wheels in A24R

The following are the results of an automated test comparing the Weiler Vortec Pro Type 27 4-1/2 X 1/4" general purpose grinding wheel vs. two major manufacturers of general purpose bonded products. The test involved grinding for 30 minutes on mild steel bar stock.





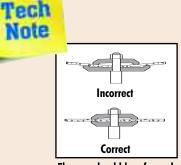


As you can see from this data, the Vortec Pro #56464 Grinding Wheel removed more total material from the workpiece while losing less gram mass than the competition. Combining the higher workpiece removal with the least disc loss makes the Vortec Pro product the obvious choice for your bonded abrasive applications.



Storage and Handling:

- Handle bonded product in a manner to prevent dropping or bumping.
- Do not roll wheels
- Use trucks or other appropriate conveyances to provide support and protection in transporting all bonded products that cannot be carried by hand.
- Store in suitable racks, bins or drawers.
- Store in a dry area not subject to extreme temperature changes. Some bonded product may be affected by excessive humidity and temperature changes.
- Locate racks as near as practical to the grinding location, but never where there is damage from passing trucks, crane handling equipment or excessive vibration.



Flanges should be of equal diameter, recessed and at least one-third the diameter of the wheel.



Vortec Pro® Bonded Abrasives

Cutting & Grinding Wheels - The Vortec Pro® bonded abrasive line is specifically designed for general purpose cutting and grinding applications on steel, iron, and other ferrous metals. All product is resin-bond formulated for aggressive stock removal and fast cutting, and are reinforced with fiberglass webbing for stability.

Applications

■ Weld removal

Diameter 2"

Cutting and parting

- Rough Grinding
- Notching

Vortec Pro® Small Type 1 Reinforced Cut-Off Wheels

General purpo

			ms and machine shops.	1		0° \
ſ	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number
	.035" 1/16" 1/16" 1/4"	1/4" 1/4" 1/4" 3/8"	WA60T - Metal A36T - Metal A60T - Metal A36T - Metal	30,000	100 50 50 25	56013* 56015 56017 56131
	.035" .035" 1/16" 1/16" 1/16"	1/4" 3/8" 1/4" 3/8" 1/4"	WA60T - Metal WA60T - Metal A36T - Metal A36T - Metal A60T - Metal	25,000	100 100 100 100 100	56061* 56062* 56065 56068 56067

	1/16"	1/4"	A36T - Metal	Í	50	56015
	1/16"	1/4"	A60T - Metal		50	56017
	1/4"	3/8"	A36T - Metal		25	56131
3"	.035"	1/4"	WA60T - Metal	25,000	100	56061*
	.035"	3/8"	WA60T - Metal	Í	100	56062*
	1/16"	1/4"	A36T - Metal		100	56065
	1/16"	3/8"	A36T - Metal		100	56068
	1/16"	1/4"	A60T - Metal		100	56067
	1/16"	3/8"	A60T - Metal		100	56070
	1/8"	3/8"	A36T - Metal		50	56076
	1/8"	1/4"	A36T - Metal		50	56270
	1/4"	3/8"	A36T - Metal	23,000	25	56147
4"	.035"	5/8"	WA60T - Metal	19,000	50	56271*
	.035"	1/4"	WA60T - Metal	-	50	56079*
	.035"	3/8"	WA60T - Metal		50	56080*
	1/16"	1/4"	A36T - Metal		50	56083
	1/16"	3/8"	A36T - Metal		50	56086
	1/16"	1/4"	A60T - Metal		50	56085
	1/16"	3/8"	A60T - Metal		50	56088
	1/16"	5/8"	A60T - Metal		50	56272
	1/4"	3/8"	A36T - Metal		25	56163
	1/8"	3/8"	A36T - Metal		50	56099
4-1/2"	.045"	7/8"	WA60T - Metal	13,500	50	56281*
	1/16"	7/8"	A60T - Metal		50	56103
5"	.035"	3/8"	WA60T - Metal	12,200	100	56106*
	.035"	5/8"	WA60T - Metal		100	56108*
	1/16"	5/8"	A36T - Metal		25	56115
	1/16"	5/8"	A60T - Metal		25	56117
	1/16"	7/8"	A36T - Metal		100	56118

Vortec Pro® Type 1 Reinforced Cut-Off Wheels -

General purpose metal applications in toolrooms and machine shops.

Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number
6"	.035" .035" .040" .045" 1/16"	1/2" 5/8" 7/8" 7/8" 5/8"	WA60T - Metal WA60T - Metal WA60T - Metal WA60T - Metal A60T - Metal	10,200	25	56170* 56171* 56282* 56273* 56274
7"	.035" .035" .045" 1/16" 1/16"	5/8" 1-1/4" 7/8" 5/8" 1-1/4"	WA60T - Metal WA60T - Metal WA60T - Metal A36T - Metal A60T - Metal	8,740	25	56183* 56184* 56275* 56188 56193
7"	1/8"	5/8"/DIA.	A24T - Metal C24T - Concrete	8,740	15	56208 56209

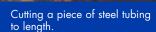
^{*}Contaminant-free.

DIA. = 5/8" arbor with diamond knockout adapter for circular saws.

Mounting Mandrels - 1/4" Stem. For Type 1 Wheels only

Arbor Size	Wheel Thickness	Standard Pack	Item Number
1/4"	.035" to 1/4"	10	56489
3/8"	.035" to 1/4"	10	56490
1/4", 3/8" *	.035" to 1/4"	10	56491*
1/4", 3/8"+	.035" to 1/4"	1	36512+

*Combination pack +Display packaged





56013



56103



All Weiler grinding and cutting wheels are resin bonded and contain at least 2-layers of fiberglass reinforcement.



56282





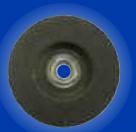


120 www.weilercorp.com

Notching a steel bar prior to welding.



56283



56385



Vortec Pro® Bonded Abrasives

Vortec Pro® Type 27 Thin Cutting Wheels - Aluminum Oxide For general purpose, burr-free cutting with less resistance on various metals.



Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	ltem Number
4-1/2"	.045"	7/8"	WA60V - Metal	13,300	25	56393*
5"	.045"	7/8"	WA60V - Metal	12,200	100	56392*
6"	.045"	7/8"	WA60S - Metal	10,200	25	56283*
7"	.060"	7/8"	WA36V - Metal	8,500	25	56391*

^{*}Contaminate-free.

Type 27 Thin Cutting Wheels - Zirconium

For fast, burr-free cutting with longer life and less resistance on various metals.



Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	ltem Number
4-1/2"	.045"	7/8"	Z46T - Metal	13,300	25	56389
5"	.045"	7/8"	Z46T - Metal	12,200	50	56388
7"	.060"	7/8"	Z36T - Metal	8,500	25	56387

Vortec Pro® Type 27 Cutting Wheels - For general purpose cutting on ferrous metals.



0°

Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number
4"	3/32"	5/8"	A24T - Metal	15,200	25	56474
4-1/2"	3/32"	5/8"-11 7/8"	A24T - Metal	13,300	10 25	56385 56475
5"	3/32"	5/8"-11 7/8"	A24T - Metal	12,200	10 25	56384 56476
6"	3/32"	5/8"-11 7/8"	A24R - Metal	10,200	10 25	56278 56277
7"	3/32"	5/8"-11 7/8"	A24T - Metal	8,500	10 25	56477 56383

Type

A24R - Metal

A24R - Metal

A24T - Metal

A24T - Metal

A24T - Metal

RPM

15,200

13,300

12,200

8,500

6,600

Vortec Pro® Type 27 - Pipeline Cutting & Light Grinding Wheels -

Hole

5/8"

5/8"-11

7/8"

5/8"-11

7/8"

5/8"-11

7/8"

5/8"-11

7/8"







56426

56423

56424



Diameter

4"

4-1/2"

5"

7"

9"

Thickness

1/8"

1/8"

1/8"

1/8"

1/8"

- All Weiler Vortec Pro bonded Thin Cutting wheels (.060 and thinner) contain White AO for a longer life vs the standard brown AO other manufactures use to save cost.
- All Weiler Vortec Pro bonded Thin Cutting wheels (.060 and thinner) are contaminant free, which means Iron, Sulfur and Chlorine is $\leq 0.1\%$ - they will not rust stainless steel.

25

10

Vortec Pro® Bonded Abrasives

Vortec Pro® Type 27 Grinding Wheels - For general purpose, rough grinding.

Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number			
Pramoror	Silicon Carbide - For Stone/Concrete Applications								
4-1/2"	1/4"	5/8"-11 7/8"	C24R Stone/Concrete	13,300	10 25	56482 56483			
7"	1/4"	5/8"-11 7/8"	C24R Stone/Concrete	8,500	10 20	56486 56487			
9"	1/4"	5/8"-11 7/8"	C24R Stone/Concrete	6,600	10 10	56492 56493			
	Alun	ninum Oxide - Fo	r General Purpose	Steel Application	ns				
4"	1/4"	5/8"	A24R - Metal	15,200	25	56473			
4-1/2"	1/4"	5/8"-11 7/8"	A24R - Metal A24R - Metal	13,300	10 25	56454 56464			
4-1/2"	1/4"	5/8"-11 7/8"	A24N - Metal A24N - Metal	13,300	10 25	56455 56457			
5"	1/4"	5/8"-11 7/8"	A24R - Metal	12,200	10 25	56449 56466			
6"	1/4"	5/8"-11" 7/8"	A24R - Metal	10,200	10 25	56279 56280			
7"	1/4"	5/8"-11 7/8"	A24R - Metal	8,500	10 20	56468 56467			
9"	1/4"	5/8"-11	A24R - Metal	6,600	10	56470			



71	<u> </u>	J	, ,	<u> </u>		
Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number
	Zirconium	ı - High Performa	ınce Grain That Cut	s Faster with Lo	ng Life	
4-1/2"	1/8"	5/8"-11 7/8"	Z24T - Metal	13,300	10 25	56420 56421
4-1/2"	1/4"	5/8"-11 7/8"	Z24T - Metal	13,300	10 10	56453 56456
7"	1/8"	5/8"-11 7/8"	Z24T - Metal	8,500	10 20	56416 56417
7"	1/4"	5/8"-11 7/8"	Z24T - Metal	8,500	10 10	56446 56444

Vortec Pro® Type 1 Vitrified Grinding Wheels -

For general purpose rough grinding and heavy stock removal.

				-			
	Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	ltem Number
ľ	6"	3/4"	1"	36AO - Metal 60AO - Metal	4,100	5	36459 36460
	8"	1"	1"	36AO - Metal 60AO - Metal	3,600	5	33052 33053



Adapting Nuts - For 4-1/2" & 5" Angle Grinders.

Adapts To	Min. Wheel Thickness	Standard Pack	Item Number
7/8" to 5/8"-11	1/16"	1	56494
5/8" to 3/8"-24	1/16"	1	56484

When mounting, adapters must be nested, see illustration at right.



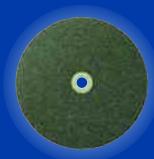
Grinding out weld defects for repair.



56464



56468



Adapting Nut **Assembly Adapting Nut**

Grinding Wheel

Adapting Nut

Right Angle Grinder

33052





Cutting angle iron with a chopsaw.







56238



Vortec Pro® Bonded Abrasives

Vortec Pro® Large Type 1 Reinforced Cut-Off Wheels -

General purpose - For stationary machines.

Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number
12"	1/8"	1"	A24R - Metal	5,100	10	56226
12"	1/8"	1"	C24T - Stone/Concrete	5,100	10	56234
14"	1/8"	1"	A30R - Metal	4,400	10	56230
14"	1/8"	1"	C20R - Stone/Concrete	4,400	10	56246

Vortec Pro® Large Type 1 Reinforced Cut-Off Wheels -

General purpose - For portable gas or electric saws.



Vortec Pro® Large Type 1 Reinforced Cut-Off Wheels -

General purpose - For low horsepower chop saws.

Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number
12"	3/32"	1"	A46T - Metal	5,100	10	56239
12"	3/32"	1"	A46S - Metal	5,100	10	56238
14"	3/32"	1"	A46T - Metal	4,400	10	56240
14"	3/32"	1"	A46S - Metal	4,400	10	56244

Vortec Pro® Large Type 1 Reinforced Cut-Off Wheels -

General purpose - For walk behind machines.

Diameter	Wheel Thickness	Arbor Hole	Туре	Max. RPM	Standard Pack	Item Number
14"	3/16"	1"	C16T - Stone/Concrete C16R - Stone/Concrete	4,400	10	56268 56267

Plastic Adapters - Allows Type 1 wheels to work on machines with a 20mm arbor hole.

Wheel	Adapted	Standard	ltem
Arbor Hole Size	Arbor Hole Size	Pack	Number
1"	20mm	10	04455



The following factors can cause wheel breakage:

- Excessive speed
- Excessive wheel feed rate
- Improper mounting
- Improper machine conditions
 Work improperly clamped
- Misuse



All Weiler Vortec Pro Cutting Wheels have a metal reinforcement ring around the arbor hole.



Non-Woven Unitized Wheels

Non-Woven Abrasives Technical Information

Non-woven abrasive products can be used in a broad range of surface-conditioning applications from cleaning and finishing to deburring and light blending. Unlike bonded and coated abrasives, they cannot be used for applications requiring heavy stock removal such as grinding and weld blending.

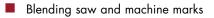
All non-woven products are fabricated from base materials that are composed of a random "web" of nylon fibers that have been bonded together with synthetic resins and impregnated with abrasive grains. Although these materials vary in fiber density, their three dimensional nature results in specialty abrasive products that are pliable, conformable to the work surface, and limited in their ability to remove base stock.

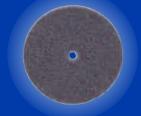
Non-woven products resist loading and perform consistently as new, fresh abrasive grains are exposed as the nylon fibers wear away from the product during use. Non-woven abrasives can be used either wet or dry on a range of materials including ferrous and non-ferrous metals, ceramics, plastics, composites, and wood. Non-woven products are designed for use where stock removal is not required. Non-wovens begin where coated abrasives leave off.

Unitized Wheels - Designed for use on die grinders and are ideal for a variety of cleaning, finishing, deburring and edge blending applications.

Applications

- Deburring machined surfaces
- Removing heat discoloration, rust and oxidation

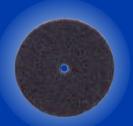




A unitized wheel deburring

a ring gear.

55512



55541



Unitized Wheels

Diameter	Face Width	Arbor Hole	Grain	Grade	Max. RPM	Standard Pack	Item Number
		Ser	ies 2 - Cleaning & Finis	hing - Hardn	ess: Soft		
2"	1/4" 1/2" 1/4"	1/4"	Silicon Carbide Aluminum Oxide Silicon Carbide	Fine Fine Fine	18,000	10	55511 55521 55523
3"	1/4" 1/4"	1/4"	Aluminum Oxide Silicon Carbide	Fine Fine	12,000	10	55512 55513
		Ser	ies 4 - General Purpose	- Hardness:	Medium		
2"	1/4" 1/2"	1/4"	Aluminum Oxide Aluminum Oxide	Fine Fine	18,000	10	55520 55481
3"	1/4" 1/2"	1/4"	Aluminum Oxide Aluminum Oxide	Fine Fine	12,000	10	55522 55487
		Sei	ies 6 - Deburring - Har	dness: Medic	m/Hard		
1"	1"	3/16"	Aluminum Oxide	Fine	30,000	10	55531
2"	1/4"	1/4"	Aluminum Oxide	Fine	22,000	10	54488
3"	1/4" 1/2"	1/4"	Aluminum Oxide Aluminum Oxide	Fine Fine	18,000		54492 55530
	S	eries 8 - HD	Deburring & Polishing	- Hardness:	Hard (Heavy	/-Duty)	
1"]"	3/16"	Aluminum Oxide	Medium	30,000	10	55543
2"	1/8" 1/4"	1/4"	Aluminum Oxide Aluminum Oxide	Coarse Medium	22,000	10	55545 55540
3"	1/8" 1/4" 1/2"	1/4"	Aluminum Oxide Aluminum Oxide Aluminum Oxide	Coarse Medium Medium	18,000	10	55546 55541 55542

Mandrels

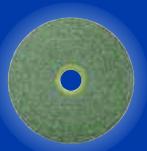
Stem Diameter	For Wheel Diameter	For Wheel Thickness	Standard Pack	Item Number
1/4"	2" - 3" 1" 2" - 3"	1/2" 1" 1/8" - 1/4"	1 1 10	07761 07764 56489



Polishing a stainless steel door handle.



54455



54303



04440



03804



Lubricut™ Lubricant is available for use on Convolute Wheels. See page 73 for usage recommendations.

Non-Woven Convolute Wheels

Convolute Wheels - Weiler's Convolute Wheels are designed for a wide variety of cleaning, finishing, deburring and edge blending needs on straight shaft tools and bench/pedestal grinders.

Applications

- Cleaning and polishing metal surfaces
- Deburring stamped metal parts
- Blending edges

- Polishing and finishing machined parts
- Removing parting lines
- Removing coated abrasive grind lines

Convolute Wheels



Dia.	Face Width	Arbor Hole	Grain	Grade	Density	Max. RPM	Standard Pack	Item Numbe
		MRO/G	eneral Purpose - F	or general cl	eaning and	finishing		
6"	1/2"	1"	Silicon Carbide	Fine	7	6,000	4	54450
	1"	-	Silicon Carbide	Fine	7	0,000		54455
	j"		Silicon Carbide	Medium	8		3 3	54456
8"	1"	3"	Silicon Carbide	Fine	7	4,500	3	54460
•	-	Ū	Silicon Carbide	Medium	7	.,200	?	54461
		Deb	urring Wheels - Fo	r deburring c	ınd edge ble	ending		
6"	1/2"]"	Silicon Carbide	Fine	8	6,000	4	54300
	1/2"		Silicon Carbide	Fine	9	.,	4	54301
	1/2"		Silicon Carbide	Medium	9		4	54401
	Ì"		Silicon Carbide	Fine	8			54303
	1"		Silicon Carbide	Fine	9		3 3 3 2	54304
	1"		Silicon Carbide	Medium	8		3	54050
	2"		Silicon Carbide	Fine	9		2	54307
8"	1"	3"	Silicon Carbide	Fine	8	4,500	3	54309
			Silicon Carbide	Fine	9	•	3	54310
			Silicon Carbide	Medium	8		3	54052

Adapters

Wheel Inside Diameter	Arbor Hole	Standard Pack	Item Number					
	Telescoping Plastic Adapter							
1"	· · · · · · · · · · · · · · · · · · ·							
	Metal Adapters							
3"	1/2" 5/8" 3/4" 1" 1-1/4"	1	03804 03805 03806 03807 03808					



Suggested Wheel Dressing Method

The initial dressing is most important to achieve maximum cutting and face uniformity. This process takes less than one minute.

- Step 1: Mount a 36 grit abrasive cloth strip to a solid backing (plywood).
- Step 2: Run the wheel at a high RPM (not to exceed Maximum Safe Free Speed). Apply the abrasive strip to the wheel face using light, uniform pressure.
- Step 3: Move the abrasive strip across the wheel face until the wheel face is uniform
- **Step 4:** Use a piece of hardwood to burn away the excess nylon fiber. Hold the wood against the face until the wheel cuts the wood, exposing fresh grain and eliminating excess nylon.



Wheel that needs to



Illustration of Step 2.



Non-Woven Surface Conditioning Discs

Surface Conditioning Discs - Have an open construction, scrim reinforcement and a superior resin system. These features minimize loading, heat build-up, fraying of disc edges, grain shedding and extend disc life, providing superior performance.

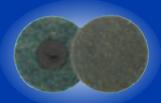
Applications

- Light deburring
- Surface preparation
- Blending light scratches
- Removing rust and corrosion
- Removing rust and oxidation
- Cleaning and removing stains from stainless steel
- Producing satin finishes on aluminum and stainless steel





51532



51533



Plastic Button Style Discs - Compatible with 3M Roloc™ back-up pads.

		Standard	Item N	umber
Diameter	Grade	Pack	General Purpose	High Performance
1-1/2"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	50	51527 51528 51529	: :
2"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	50	51530 51531 51532	57324 57323 57322
3"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	25	51533 51534 51535	57327 57326 57325
4"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	10	51536 51537 51538	:

 $Roloc^{TM}$ is a trademark of 3M.

Plastic Button Style Back-up Pads - 1/4" Stem

Diameter	Max. RPM	Standard Pack	Item Number
1-1/2"	30,000	1	51550
2"	30,000	1	51551
3"	20,000	1	51552
4"	12,000	1	51553

Do not exceed maximum RPM of back-up pad.



- The flexible, open style construction of non-wovens makes them conformable, non-loading and ideal for finishing non-ferrous metals such as aluminum and brass.
- Unlike steel wool, the non-metallic construction of non-wovens will not contaminate metals and cause surface rust.

Putting a decorative satin finish on a stainless steel door.



51508



Non-Woven Surface Conditioning Discs







Hook & Loop Style Discs

Diameter	Grade	Standard Pack	Item Number
2"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	50	51503 51504 51505
3"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	25	51506 51507 51508
4"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	10	51509 51510 51511
4-1/2"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	10	51512 51513 51514
5"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	10	51515 51516 51517
6"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	10	51518 51519 51520
7"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	10	51521 51522 51523
8"	Medium (Maroon) Coarse (Brown)	10	51525 51526

Hook & Loop Style Back-up Pads

Diameter	Arbor Hole or Stem Size	Max. RPM	Standard Pack	ltem Number
2"	1/4" Stem	16,000	1	51561
3"	1/4" Stem	18,000	1	51562
4"	1/4" Stem	16,000	1	51563
4-1/2"	5/8"-11 Arbor	13,000	1	51569
5"	5/8"-11 Arbor	10,000	1	51575
6"	5/8"-11 Arbor	8,000	1	51577
7"	5/8"-11 Arbor	6,000	1	51578
8"	5/8"-11 Arbor	4,500	1	51579

Do not exceed maximum RPM of back-up pad.



Weiler operates 6 warehouses in the U.S.A., Canada & Mexico.



Non-Woven Hand Pads

Hand Pads - For cleaning and conditioning surfaces by hand. Unlike steel wool, hand pads are non-metallic, and do not produce "after-rust" on work surfaces. Hand pads can be used in wet applications.

Applications

Industrial Grade:

- Producing satin finishes on aluminum and stainless steel
- Light deburring
- Surface preparation
- Blending light scratches

Commercial Grade:

- Cleaning and removing stains from stainless steel
- Removing rust, corrosion and oxidation

Cleaning a restaurant sink with a commercial hand pad.

51460

Hand Pads - Industrial Grade

Size	Grain	Grade	Description	Standard Pack	Item Number
6" x 9"	Silicon Carbide	Ultra Fine	Finishing (Grey)	60	51434
6" x 9"	Aluminum Oxide	Medium	Economy General Purpose (Maroon)	60	51460
6" x 9"	Aluminum Oxide	Med/ Coarse	General Purpose (Maroon)	60	51444
6" x 9"	Aluminum Oxide	Heavy-Duty	Heavy-Duty (Tan)	40	51454

Hand Pads - Commercial Grade

Size	Grain	Grade	Description	Standard Pack	Item Number
6" x 9"	Aluminum Oxide	Fine	Economy (Green)	400	51456
6" x 9"	Aluminum Oxide	Medium	Standard-Duty (Green)	60	51457
6" x 9"	Aluminum Oxide	Heavy-Duty	Heavy-Duty (Green) 20% thicker than Standard Duty	60	51458

Hand Pad Holder

Ī			
	Description	Standard Pack	Item Number
	For 3" x 6" Pad	1	59616



Although denser non-woven abrasive products are suitable for applications requiring light stock removal such as removing large, well-attached burrs and blending minor tool marks and imperfections, the strength of these products is producing decorative finishes ranging from satin to near-mirror polish. The various grades of non-woven products produce scratch patterns which can be compared to those produced by coated abrasive products. However, their pliable nature results in a softer, less pronounced scratch-line pattern.

Grade	Grit Range
Ultra Fine	600
Very Fine	240-360
Fine	180-220
Medium	100-150
Coarse	50-80



51457



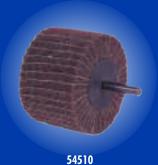
59616



Deburring the I.D. of a steel pipe with an interleaf flap wheel.







Non-Woven Interleaf Flap Wheels

Interleaf Flap Wheels - Provide a combination of non-woven and coated abrasive material to produce a very conformable product compared to a standard coated abrasive flap wheel. They are designed to be a finishing and surface blending tool as compared to a material-removing coated abrasive flap wheel. They are ideal for producing satin or decorative finishes on irregular or contoured surfaces.

Applications

- General decorative finishing
- Applying satin finishes
- Producing antique finishes
- Final sandings

- Soft metal finishing
- Removing oxides from precious metals
- Fine burr removal

Stem-Mounted Interleaf Flap Wheels - Aluminum Oxide

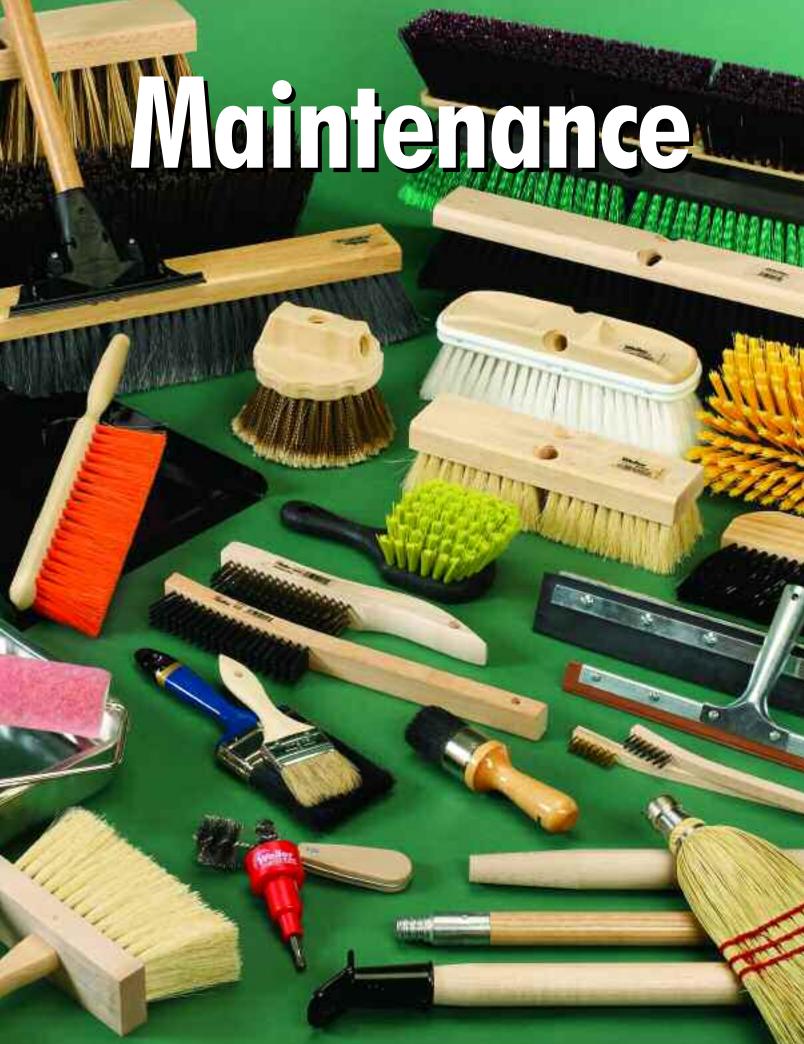


Diameter	Face Width	Grit Size	Stem Size	Max. RPM	Standard Pack	ltem Number
2"	1"	120 180 320	1/4"	13,700	10	54500 54501 54502
3"	1"	120 180 320	1/4"	8,600	5	54506 54507 54508
3"	2"	120 180 320	1/4"	8,600	5	54509 54510 54511



Defuzzing coconuts, finishing casket hardware and cleaning blades used for lasik surgery are all applications in which Weiler products are used.









- Green Works™ Maintenance Products

 Environmentally-friendly!
- Pro-Flex[™] Sweeps
 Ships complete with handle, ready to assemble no tools!
- Floor, Garage and Street Brushes
- Handles
- Upright and Whisk Brooms
- Dusters and Dust Pans
- Squeegees & Window Brushes
- Vehicle Care Products
- Scrub & Utility Brushes
- Mops & Accessories
- Masonry & Applicator Brushes
- Scratch Brushes
- Flue Brushes
- Tube Fitting Brushes
- Paint Brushes, Rollers & Accessories

Knowledgeable and Responsive Customer Service Team: 800-835-9999

Application Engineering Support: 888-299-APPS (2777)

Interactive Website: www.weilercorp.com







Maintenance Product Technical Information

Reorder Number:

Shown on block

Maintenance Brush Terminology and Features

Block: Fill material is set into this part of the sweep.

Synthetic Foam Block:

- Made with a synthetic cellular core surrounded by a solid skin.
- Will not crack, split, warp or house contaminating bacteria. Water, solvent and mild acid resistant
- Lighter weight than hardwood blocks

Lacquered Hardwood Block:

- Made of natural, kiln-dried hardwood
- Resists moisture
- Helps prevent cracking, increasing brush life.

Two Handle Holes:

Allows user to change sweeping direction to prevent the fill material from setting in one direction. Periodically changing sweeping direction increases the life of the brush.

Staggered Hole Pattern:

Prevents gaps in the fill material so brush sweeps up all the dirt in its path.

Dense Fill:

- Set into the block and serves as the actual working part of the brush.
- More efficient sweeping
- Longer brush life

Flagged Tips:

- Each synthetic filament end is mechanically split, forming multiple tips which "pick up" fine dust and dirt particles.

 • Horsehair has naturally tapered or flagged tips.

Solid Brush Face with Flared Ends:

- The tufts of fill material on each end of a contractor, floor, garage or street brush are flared outward. Flared ends allow the brushing material to get into
- corners without marking or scraping the wall with the block.
- Prevents a gap in the middle of the brush.



Care of Floor Brushes

Storage - Floor brushes should be hung when not in use so no weight is against the fill material. This will help keep the shape and prolong the life of the brush.

Handles - The handle should be periodically re-positioned from one staff hole to the other to prevent fill material from setting in one position. The use of a brace will help prevent handle breakage. Perma-Flex™ (#44301) handles are guaranteed to outlast the life of the brush.

Blocks - Avoid knocking a wood block against the floor to remove imbedded material, as this will damage the end of the block.

Cleaning - Synthetic filled brushes can be cleaned with detergent and water. Fiber filled brushes should be combed to remove dirt and other foreign material. Dip coarse natural tiber brushes in water to help prevent breakage due to dry

Product Selection

Floor Brush Selection Guide

Surface Type	Debris	Recommended Brush
Tile, linoleum, highly polished	Fine dust	#42001 black horsehair
Smooth wood	Fine to medium dirt	#42041 flagged silver polystyrene
Smooth concrete	Fine to medium dirt	#42035 black polypropylene
Uneven or rough floors, heavy traffic areas	Medium to heavy dirt and debris	#42007 black tampico
Rough concrete, asphalt	Heavy, caked dirt, grease, litter	#42134 black tampico - inner row of steel wire #42023 palmyra



Maintenance Product Technical Information

Weiler Industrial Grade Products - Engineered and manufactured to maximize performance and minimize operating costs in all cleaning applications. The use of superior construction, the highest quality materials and the most stringent manufacturing processes deliver the lowest cost of use and most consistent performance available in a maintenance product.

Weiler Vortec Pro® Professional Grade Products - Manufactured using similar product construction and to the same exacting standards as other Weiler Maintenance products, but engineered to provide cost-effective use specifically designed for the professional, providing a cost effective price. Vortec Pro Maintenance products are an economical choice for the construction trades, low volume production shops and the professional contractor.

Fill Materials Used In Maintenance Brushes

Animal

Туре	Advantages	Applications	Notes
Horsehair	Very durable and resilient Naturally flagged tips Resistant to high temperatures (to 370°F) Can be blended with other materials Fine texture	 Fine particles Ideal for polished and smooth surfaces Scratch-free sweeping 	Not for use on oily or wet surfaces

Natural

Туре	Advantages	Applications	Notes
Tampico	Material holds water very well Heat, alkali and acid resistant (to 283°F) Soft to medium texture Good durability	 Polishing, buffing and cleaning Scrubbing and washing Ideal for wet and dry applications 	Natural color is off white Can be dyed or bleached
Palmyra	Softer and finer texture than Bassine More economical than Bassine Medium to coarse texture Good durability	Used in garage, scrub, deck and patio brushes Ideal for wet and dry applications	Brown in color
Bassine	Coarse, tough fibers Excellent durability	Heavy scrubbing and cleaning Tasks requiring a tough, long lasting natural fiber	Dark brown in color
Bass	Good flexibility Very coarse, tough fibers Excellent durability	Heavy-duty cleaning applications Use on rough surfaces	Dark brown in color

Synthetic

Туре	Advantages	Applications	Notes
Nylon	Excellent durability Resistant to most acids & alkalis High water absorbency Resistant to high temperatures (to 350°F) Best man-made fiber to resist fatigue	 Heavy-duty industrial Scrubbing and cleaning Wet and dry applications 	• May be level or crimped
Polypropylene	Very durable Acid, oil, bacteria and fungus resistant Versatile Resistant to high temperatures (to 225°F) Will not absorb moisture	 Variety of medium to coarse industrial applications Wet and dry applications 	May be level or crimped
Polystyrene	Extremely durable Liquid and oil resistant Resistant to temperatures (to 180°F) Ends can be flagged	 Used in vehicle care brushes Used in fruit and vegetable wash brushes Wet and dry applications 	May be level or crimped Not for use with sweeping compounds
Recycled PET	• Environmentally-friendly • Less landfill waste	• Fine, Medium & Coarse for a variety of applications	• Fill made from recycled water bottles















42365

Green Works™ Maintenance Products

Green Works™ Maintenance Products - Sustainable, recyclable, environmentally-friendly, Green - all of these come to mind with the new Green Works line from Weiler. Made from recycled or sustainable raw materials, the Green Works line is manufactured in a LEED (Leadership in Energy & Environmental Design) approved facility to insure that even the production environment is environmentally-friendly. All of this, plus the same great performance! Every product is made to the quality levels you expect when you hear the name Weiler.

Green Works Product Construction

- Fill material is made out of recycled water bottles, giving a second life to these waste products and helping to clean up the environment.
- Rubberwood blocks are made from the wood of rubber trees that have ended their life cycle in the rubber production industry. We are putting the waste product of that industry to good use.
- Foam blocks are made from recycled plastics.
- Handles are made from bamboo a very strong and durable natural resource that replenishes at a very rapid rate in the environment.

Floor Sweeps -Choose from flagged tips that pick-up fine dust and dirt to durable fibers that sweep heavy, caked dirt and debris.

Block Size	Block Type	Fill Material	Trim Length	Standard Pack	Item Number			
	Fine Sweeping - For fine dust and dirt on smooth surfaces							
24"	24" Recycled Black Foam Recycled Grey Fill 3" 12 42352							
24"	Renewable Rubberwood	Recycled Grey Fill	3"	12	42355			
	Medium Sweeping - For general purpose sweeping on semi-smooth surfaces							
24"	Recycled Black Foam	Recycled Blue Fill	3"	12	42353			
24"	Renewable Rubberwood	Recycled Blue Fill	3"	12	42356			
	Coarse Sweeping	- For heavy dirt and deb	ris on very rough:	surfaces				
24"	24" Recycled Black Foam Recycled Maroon Fill 3" 12 42354							
24"	Renewable Rubberwood	Recycled Maroon Fill	3"	12	42357			

Handle #42380 or #42381 are recommended for use with these sweeps. See page 136 for details.

Street Broom - Ideal for wet or dry sweeping on streets, parking lots, loading docks and driveways.

Block Size	Block Type	Fill Material	Trim Length	Standard Pack	Item Number
16"	Renewable Rubberwood	Recycled Black Fill	6"	6	42360

Handle #42382 is recommended for use with this broom. See page 136 for details.

Duo Sweep - Heavy-duty upright with two handle holes - one straight and one angled.

Size	Block Type	Fill Material	Trim Length	Standard Pack	Item Number
9"	Recycled Black Foam	Recycled Yellow Fill	7"	12	42365

Handle #42383 is recommended for use with this sweep. See page 143 for details.



Green Works™ Maintenance Products





Block Size	Block Type	Fill Material	Trim Length	Standard Pack	Item Number
8"	Recycled Black Foam	Recycled Grey Fill	2-1/2"	12	42368

Scrub Brushes - Designed to provide the most effective brushing and cleaning action.

Block Size	Туре	Block Type	Fill Material	Standard Pack	Item Number
8"	Utility	Recycled Black Foam	Recycled Yellow Fill	12	42375
9"	Pointed Deck	Renewable Rubberwood	Recycled Yellow Fill	12	42373
10"	Deck	Renewable Rubberwood	Recycled Yellow Fill	12	42371
10"	Bi-Level	Recycled Black Foam	Recycled Blue Fill	12	42372
20"	Utility	Recycled Black Foam	Recycled Yellow Fill	12	42376

Handle #42380 or #42381 are recommended for use with these scrub brushes.

Solid Bamboo Handles - Very strong, abundant source material.

Length	Diameter	Tip Type	Std. Pack	Item Number
5'	7/8"	Threaded Wood	12	42380
5'	7/8"	Threaded Metal	12	42381
5'	1-1/8"	Tapered Wood	12	42382



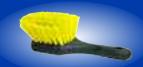
Weiler's 76,000 sq. ft. distribution center was specifically designed with energy conservation in mind.







42371



42375



42380



The Pro-Flex Sweep's

The Pro-Flex Sweep's indestructible design will make it the last sweep you will ever buy!



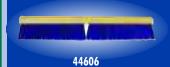
Flexible connection makes

these sweeps the strongest

on the market!



Foam grip handle is strategically placed for users' comfort during long periods of sweeping.



Pro-Flex[™] Sweeps

Weiler Pro-Flex™ Sweep Quick Assembly & Unbreakable!

- Easy-to-Assemble: The convenient and easy-to-assemble T-knob construction of the Pro-Flex Sweep takes less than 1 minute to assemble. The handle connects easily and securely to the broom head, and there's no need for a brace!
- Unbreakable: Utilizing an advanced polymer technology, the Pro-Flex Sweep's unique handle/sweep connector flexes on impact, providing unbelievable shock absorbency...and it's unbreakable! Ideal for the most demanding applications on a construction site.
- More Maneuverable: Without the need for a brace, the Pro-Flex Sweep is lighter, easy to maneuver and eliminates potential damage to low surface areas
- The Pro-Flex Sweep... the strongest sweep on the market AND the easiest to assemble!



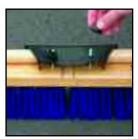
This is how the Pro-Flex Sweep looks straight out of the box, ready to display.

Pro-Flex[™] Sweeps - Hardwood Block Includes comfort grip Pro-Flex handle and scraper for removal of heavy, caked dirt and debris.

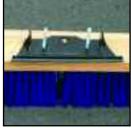
Block Size	Fill Material	Trim Length	Standard Pack	Item Number		
Con	Convenient scraper attaches handle to sweep head for display and shipping purposes					
24"	Flagged Grey Polystyrene Border with Stiff Black Polypropylene Center	3"	1	44600		
24"	Palmyra	4"	1	44601		
24"	Medium Maroon Polypropylene	3-1/4"	1	44604		
24"	Stiff Blue Polypropylene	3-1/4"	1	44606		



Pro-Flex Sweep Assembly - No Tools Required!



Remove lock nuts from broom assembly



Place scraper over bolts



Place handle connector over bolts and tighten lock nuts securely



Specialty Floor Brushes

Contractor Brooms - Designed to withstand rugged, every day use. The 1-1/8" bolt-on handle design combined with a lacquered hardwood block and 12-gauge steel brace makes the Contractor Broom the most durable sweep in our product line.

Contractor Brooms - Hardwood Block - Heavy-duty brace included with all brooms. Ideal for construction sites and other heavy use environments.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number					
	Fine Sweeping - For fine dust and dirt on smooth surfaces								
24"	Flagged Silver Polystyrene	3"	1	44553					
	Medium Sweeping - For general purpose	sweeping on sem	i-smooth surfaces						
18" 24" 30"	Flagged Grey Polystyrene Border with Stiff Black Polypropylene Center	3"	1	44580 44581 44582					
	Coarse Sweeping - For heavy dirt an	nd debris on very ro	ough surfaces						
24"	Palmyra	4"	1	44584					
24"	Medium Maroon Polypropylene	3-1/4"	1	44587					
24" 30"	Stiff Blue Polypropylene	3-1/4"	1	44590 44591					



- For Contractor Brooms, use Handle No. 44635 (1-1/8" x 60").
- Handle not included in price order handle separately.
 See page 143.
- Bolt to assemble broom is included with the broom, not with the handle.

Perma-Sweep™ Floor Brushes - Weiler offers color-coded floor sweeps to make product selection and identification easier. Constructed with foam blocks and synthetic filaments, these materials are durable, resist acid and bacteria and can be used in wet or dry sweeping applications.

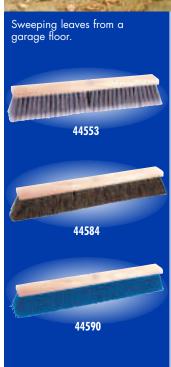
Perma-Sweep™ - Synthetic Foam Block - Made of durable materials designed to resist acid and bacteria.

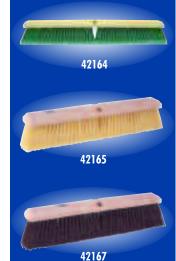
Block Size	Fill Material	Trim Length	Standard Pack	ltem Number			
	Fine Sweeping - For fine dust o	and dirt on smoot	h surfaces				
18" 24"	Flagged Green Polystyrene	3"	1	42163 42164			
	Medium Sweeping - For general purpose sweeping on semi-smooth surfaces						
18" 24"	Yellow Polypropylene	3"	1	42165 42166			
	Coarse Sweeping - For heavy dirt and debris on very rough surfaces						
18" 24"	Maroon Polypropylene	3"	1	42167 42168			



- For Perma-Sweep Floor Brushes, use Perma-Flex Handle No. 44301 (15/16" x 60") Guaranteed for the life of the brush!
- Handle not included in price order handle separately.
 See page 143.











Sweeping saw dust on a smooth surface. 42001



77013



Floor Brushes

Floor Brushes - Weiler offers a broad array of floor brushes in various sizes and fill materials for fine, medium and coarse sweeping applications. Choose from flagged tips that pick up fine dust and dirt to durable fibers that sweep heavy-caked dirt and debris. The lacquered hardwood blocks resist moisture and help prevent cracking, thereby increasing brush life.

Fine Sweeps - Lacquered Hardwood Block

For dust and fine dirt on smooth surfaces: Tile, Wood, Linoleum, Marble, Ceramic Tile and Smooth Concrete.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number	★ Combo Qty. Item Number
18" 24"	Black Horsehair	3"	1	42001 42002	44855 44856
18" 24"	Black Horsehair and Black Polypropylene Blend	3"	1	42013 42014	
10" 18" 24" 36"	Flagged Silver Polystyrene	3"	1	70312 42041 42042 42098*	- 44857 44858 -

^{*} Brace included

Vortec Pro® Fine Sweeps - Lacquered Hardwood Block

Reliable and efficient sweeps at a value price.

Block	Fill	Trim	Standard	ltem
Size	Material	Length	Pack	Number
18" 24"	Flagged Grey Polystyrene	3"	12	77013 77014

Medium Sweeps - Lacquered Hardwood Block

General purpose sweeping on semi-smooth surfaces: Wood, Smooth Concrete, Asphalt and Factory/Shop Floors.

Block Size	Fill Material	Trim Length	Standard Pack	Item Number	★ Combo Qty. Item Number
12" 14" 16" 18" 24" 36"	Black Tampico	3"	1	70112 42114 42006 42007 42008 42047*	- - 44859 44860 -
24" 36"	Horsehair Border with Black Tampico Center	3"	1	42017 42049*	_
18" 24"	Horsehair and Polystyrene Border with Black Polypropylene Center	3"	1	70067 70068	_
18" 24" 36"	Black Polypropylene	3"	1	42035 42037 42095*	44861 44862 —

^{*} Brace included

Vortec Pro[®] Medium Sweeps - Lacquered Hardwood Block Reliable and efficient sweeps at a value price.

Block Size	Fill Material	Trim Length	Standard Pack	Item Number	★ Combo Qty. Item Number
18" 24"	Dark Grey Polystyrene Border with Black Polypropylene Center	3"	1	25234 25235	44851 44852
18" 24"	Black Tampico	3"	1	25231 25232	44853 44819

[★] Combo Packs include 12 sweeps per pack and 12 #44300 handles (not assembled).



- Handle No. 44300 (15/16" x 60") recommended for use with all Floor Brushes.
- Handle not included in price order handle separately. See pages 143-144 for additional options.



[★] Combo Packs include 12 sweeps per pack and 12 #44300 handles (not assembled).

[★] Combo Packs include 12 sweeps per pack and 12 #44300 handles (not assembled).

Floor Brushes

Coarse Sweeps - Lacquered Hardwood Block

For heavy dirt and debris on rough surfaces: Wood, Concrete, Asphalt and Brick.

	lock	Fill	Trim	Standard	Item	★ Combo Qty.
	ize	Material	Length	Pack	Number	Item Number
_	18" 24"	Black Tampico with 1 row Tempered Steel Wire in Center	3"	1	42134 42135	44871 44872

★ Combo Packs include 12 sweeps per pack and 12 #44300 handles (not assembled).



- Handle No. 44300 (15/16" x 60") recommended for use with all Floor Brushes.
- Handle not included in price order handle separately.
 See pages 143-144 for additional options.

Strip Brooms - The corrosion-resistant frame is lightweight, resulting in less user fatigue! Efficient and economical, Strip Brooms make quick work of dirt and debris on all types of surfaces.

Vortec Pro® Strip Brooms - Economy brushes provide lasting, efficient service at minimal cost.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number							
	Fine Sweeping - For smooth surfaces										
24"	Green Polypropylene	3"	12	25299							
	Medium Sweeping - For semi-rough surfaces										
18" 24"	Red Polypropylene	3"	12	25290 25291							
	Coarse Sweeping - For rough surfaces										
18" 24"	Brown Polypropylene	3"	12	25294 25295							



- For Strip Brooms, use Handle No. 25297 (15/16" x 60").
- Handle not included in price order handle separately.
 See page 143.



Weiler scrubs, handles and sweeps were used in the BP oil spill clean-up.







Sweeping metal shavings from a shop floor.













73182

Garage Brushes

Garage Brushes - Palmyra Fill - Lacquered Hardwood Block

For sweeping heavy, caked dirt and debris on rough surfaces: Concrete, Garage/Factory Floors, Rough Wood, Sidewalks, Barns and Brick Surfaces.

Block	Fill	Trim	Standard	Item	★ Combo Qty.
Size	Material	Length	Pack	Number	Item Number
16" 18" 24" 36"	Wet or dry sweeping	4"	1	42021 42022 42023 42138*	44867 44868 —

^{*} Brace included

Garage Brushes - Maroon Polypropylene Fill - Lacquered Hardwood Block

For sweeping heavy, caked dirt and debris on rough surfaces: Concrete, Garage/Factory Floors, Rough Wood, Sidewalks, Barns and Brick Surfaces.

Block	Fill	Trim	Standard	Item	★ Combo Qty.
Size	Material	Length	Pack	Number	Item Number
18" 24" 36"	Wet or dry sweeping Solvent, oil, chemical & liquid resistant	3-1/4"	1	42025 42026 42149*	

^{*} Brace included

Vortec Pro[®] Garage Brushes - Lacquered Hardwood Block Reliable and efficient brushes at a value price.

Block Size	Fill Trim Standard Material Length Pack		ltem Number	★ Combo Qty. Item Number	
18" 24"	Palmyra	4"	1	25241 25242	44865 44866
18" 24"	Maroon Polypropylene	3-1/4"	1	25238 25239	44863 44864

[★] Combo Packs include 12 brushes per pack and 12 #44300 handles (not assembled).

Driveway Coaters - For applying blacktop driveway and parking lot dressings; asphalt, sealers or roof coatings.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number	★ Combo Qty. Item Number
10"	Black Tampico	2-5/8"	12	73180	_
18"	Palmyra	2"	12	73182*	44885

^{*} With squeegee



- Handle No. 44019 (1-1/8" x 60") recommended for use with all Garage Brushes.
- Handle No. 75527 (7/8" x 48") recommended for Driveway Coaters.
- Handle not included in price order handle separately. See pages 143-144 for additional options.

[★] Combo Packs include 12 brushes per pack and 12 #44300 handles (not assembled).

[★] Combo Packs include 12 brushes per pack and 12 #44300 handles (not assembled).

[★] Combo Packs include 12 brushes per pack and 12 #75527 handles (not assembled).

Street and Wire Brooms

Street Brooms - Hardwood Block - Wide flared ends for sweeping close to curbs and walls. For heavy-duty wet or dry sweeping: Streets, Sidewalks, Loading Docks, Parking Lots, Driveways and all Asphalt Surfaces.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number	★ Combo Qty Item Number
16"	Natural Palmyra	6-1/4"	6	70208	_
16"	Dyed Palmyra	6-1/4"	6	70209	_
16"	Bass & Palmyra Blend	6-1/4"	6	42032	44873
16"		7-1/4"		42099	_
16" 18"	Brown Polypropylene	5-1/4"	6	42033 42173	44874
24"				42174	_
16"	Orange Polypropylene	5-1/4"	6	70212	_
18"				42054	-
24"				42055	-
14"	White Polypropylene Fill	4"	6	70210	-
16"	Orange Block			70211	_

[★] Combo Packs include 12 brooms per pack and 12 #44020 handles (not assembled).

Wire Brooms - Hardwood Block

For sweeping or scrubbing concrete or stone floors, driveways, etc. Ideal for sweeping heavy chips and debris.

Block	Fill	Trim	Standard	ltem
Size	Material	Length	Pack	Number
16"	Round Wire	3-3/4"	6	70215
14"	Flat Wire	5"	1	42030



- All sweeps on this page require a tapered tip handle.
 Handle No. 44020 (1-1/8" x 60") recommended for use with all Street & Wire Brooms.
 Use Spring-Loc Adapter to keep tapered wood handle securely fastened to the block.
 Handle not included in price order handle separately. See pages 143-144 for adapter and handle.



Weiler now has a line of environmentallyfriendly maintenance products. See pages 135-136 for details.







The Perma-Flex tip is guaranteed not to break when used with a Perma-Sweep



Handles

Handles - Weiler's wood and metal handles are constructed for long life. Handles are available in a large variety of styles and tips to fit a wide selection of block types. The following charts provide recommended uses for each style handle.

Wood Handles - Quality hardwood handles.

Length	Diameter	Tip	Description	Std. Pack	Item No.
48" 48" 54" 60" 60" 72"	7/8" 15/16" 15/16" 15/16" 1-1/8" 15/16"	Threaded Wood	Use with floor and garage brushes.	12	75527 44571 44572 44018 44019 44303
11" 48" 54" 60" 72"	3/4" 7/8" 1-1/8" 1-1/8" 1-1/8"	Tapered Wood	Use with masonry and roof brushes, street brooms, floor and deck scrubs and squeegees.	36 12 12 12 12	75528 44574 44573 44020 44306
48" 60" 60" 72"	15/16" 15/16" 1-1/8" 15/16"	Threaded Metal	Heavy-duty metal tip provides additional strength.	12	75525 44300 44435 44302
48" 60"	15/16" 15/16"	Perma-Flex™	Durable threaded plastic tip guaranteed not to break when used with Perma-Sweep™ Floor Brushes.	12	75516 44301
60"	15/16"	_	Use with Strip Brooms.	12	25297
60"	1-1/8"	_	Use with Contractor Brooms.	12	44635

Metal Handles - Reinforced, heavy-duty metal handles are available in two colors and optional foam cover.

Length	Diameter	Tip	Description	Std. Pack	Item No.
48"	3/4"	Threaded Plastic	Black metal with plastic hang cap.	12	42383
60"	15/16"	Threaded Metal	Yellow plastic coat with plastic hang cap.	12	44577
60"	15/16"	Threaded Metal	Black plastic coat with black foam cover and plastic hang cap.	12	44578

Vortec Pro® Metal Handles - Reliable and efficient handles at a value price.

Length	Diameter	Tip	Description	Std. Pack	Item No.
60"	15/16"	Threaded Plastic	Black plastic coat with convenient hang-up cap.	12	75555



Handles, Braces and Tips

Metal Telescoping and Fountain Tube Handles - Use telescoping handles to shorten or extend the reach of the handle. Use fountain tube handles when a continuous flow of water is needed, i.e. car/truck washing.

Length	Diameter	Туре	Use	Standard Pack	Item No.
6' extends to 12'	-	Telescoping	Window, wall and Vehicle wash brushes	6	44499
5'	7/8"	Fountain Tube	Vehicle wash brushes	12	44319

Fiberglass Handles - Fiberglass handles are stronger than wood or metal. Virtually indestructible.

Length	Diameter	Tip	Description	Std. Pack	Item No.
60"	1"	Tapered/Threaded	Hollow handle	12	44561*
60"	1"	Threaded	Honeycomb core	12	44562
60"	1"	Threaded	All white	12	44563+

^{*} For use with both tapered and threaded holes + Approved for the food service industry





Fiberglass with polyethylene reinforced hońeycómb core



Fiberglass hollow handle.

Handle Accessories

Description	Use	Std. Pack	Item No.
Steel brace. Fits all handle sizes.	Reinforces & locks handle to block. (Standard with sweeps 30" and larger)	12	44021
Heavy-duty steel brace attaches to block with wood screws and wraps around handle. Fits all handle sizes.	Increases life of the brush by providing extra support for handle and block.	12	44290
Replacement handle thread. Made of heavy-duty fiberglass. For any 15/16" diameter handle.	Cut off damaged threads and slip this tip in place for a new handle.	12	44317
Tapered Adapter to tapered ends.	Converts threaded handle ends	12	75505
Spring Loc Adapter for any 1-1/8" diameter tapered wood handle for street brooms and window brushes.	Keeps tapered wood handles from separating from the block.	6	44624



Weiler handles are sanded to avoid splinters.





Superior plactic and matel

Sweeping plastic and metal chips in a tool room







70325



70300



Upright and Whisk Brooms

Upright & Whisk Brooms - Made of fine quality broom corn, fiber or synthetic material, Weiler's upright brooms and whisks are durable enough to meet all industrial and commercial applications.

Upright Brooms - Ideal for sweeping floors, reaching into corners, cleaning ceilings, etc.

Description	Fill Material	Trim Length	Overall Length	Standard Pack	Item Number					
	Household Broom - Good Quality									
4 sews - 7/8" handle	Corn & Fiber	15"	54"	12	44547					
	Light Industrial Brooms - Better Quality									
5 sews - 7/8" handle	Corn & Fiber	17"	57"	12	44548					
5 sews - 7/8" handle	100% Corn	15"	56"	12	44009					
6 sews - 1-1/8" handle	100% Black Corn	16"	56"	12	70304					
	Janitor's	Broom - Best (Quality							
5 sews - 1-1/8" handle Wire banded	Corn & Fiber	17"	57"	12	70308					
	Warehouse Broom - Heavy-Duty									
4 sews - 1-1/8" handle Wire banded	Corn & Fiber	18"	57"	12	44008					

Angle Broom - Angled trim allows access to corners, under low cabinets and other hard-to-reach areas.

Description	Fill	Trim	Overall	Standard	Item
	Material	Length	Length	Pack	Number
Large Plastic - 12" sweep face	Flagged Plastic	7-1/2"-6"	54"	12	44305

Vortec Pro® Angle Broom - Reliable and efficient broom at a value price.

Description	Fill Material	Trim Length	Overall Length	Standard Pack	ltem Number
Small Plastic - 8" sweep face	Flagged Plastic	3-3/4"-5"	54"	6	75160

Cap Brooms - Metal top for added durability. Ideal for wet or dry applications.

Description	Fill Material	Trim Length	Overall Length	Standard Pack	Item Number
Metal Cap - Wire banded 12" sweep face	Palmyra	10"	55"	6	44007
Metal Cap - Wire banded 12" sweep face	Brown Poly	10"	55"	6	70325
Track & Switch - Steel chisel point on handle end	Palmyra	8"	55"	6	70324

Lobby Broom - For light-duty spot sweeping.

Description	Fill	Trim	Overall	Standard	ltem
	Material	Length	Length	Pack	Number
Lobby Broom - 3 sews	Black Synthetic	10"	38"	12	70327

Vortec Pro® Lobby Brooms - Reliable and efficient brooms at a value price.

Description	Fill Material	Trim Length	Overall Length	Standard Pack	Item Number
Plastic Cap - 8" sweep face	Flagged Plastic	5"	36"	12	44546
Toy/Lobby - 3 sews, 7/8" handle	Corn & Fiber	11"	40"	12	70300

Whisk Brooms - For fast, efficient clean-up.

Use	Number of Sews	Fill Material	Trim Length	Standard Pack	ltem Number
General purpose - all applications	3	Corn & Fiber	10"	12	44266
Sweeping coarse & heavy material	2	Palmetto	7"	12	44099
Coarse sweeping of hot chips	-	Bassine	5-1/4"	12	44103



Dusters and Dust Pans

Dusters & Dust Pans - Whether cleaning fine particles or heavy debris, Weiler has a Counter Duster to do the job. These brushes are available in a wide selection of fill materials and have comfortably shaped blocks in wood or foam. Also choose from an array of Dust Pans to meet the application requirements.

Counter Dusters - For clean up in hard-to-reach areas.

Fill Material	Trim Length	Brush Length	Block Type	Standard Pack	ltem Number				
Horsehair									
Horsehair	2-1/4" 2-1/4"	8" 9"	Wood	12	44003 44351				
Black Horsehair and Fiber Mix	2-1/2"	8"	Wood	12	71019				
		Synthetic							
Flagged Silver Polystyrene	2-1/2"	8"	Wood	12	44354				
Black Polystyrene	2-1/2"	8"	Wood	12	25252				
Orange Polystyrene	2"	9"	Foam	12	42213				
Natural Fiber									
Black Tampico	2-1/2"	8"	Wood	12	25251				
Tri-colored Tampico	2-1/2"	8"	Wood	12	44004				

Dust Pans - Durable, industrial grade - For quick clean-ups.

Description	Height	Width	Depth	Standard Pack	ltem Number
Heavy-duty 20 gauge steel Black enamel finish	-	12"	13-1/2"	12	71078
Extra wide - Heavy-duty 20 gauge steel Black enamel finish	-	16"	15"	12	71079
Lobby Dust Pan Black enamel metal hopper Aluminum handle	39-1/2"	12"	9"	6	71081

Vortec Pro® Dust Pans - Reliable and efficient pans at a value price.

Description	Height	Width	Depth	Standard Pack	ltem Number
Molded plastic	_	12-1/4"	12"	12	71077
Lobby Dust Pan Molded plastic hopper Aluminum handle	39-1/2"	12"	11"	6	71080

Radiator Brushes - 24" Overall Length. Ideal for cleaning radiators and narrow, hard-to-reach places.

Fill Material	Туре	Brush Part	Trim Length	Standard Pack	ltem Number
Black Tampico	Foam Handle	9-1/2"	2-1/2"	12	73050
Black Horsehair	Twisted-in- Wire Handle	7-1/2"	2-1/2"	12	73055

Wall Dusting Brush - For dusting ceilings, valances, high moldings and other hard-to-reach places. Twisted-in-wire construction with plastic handle.

Fill	Overall	Trim	Standard	ltem
Material	Length	Length	Pack	Number
Horsehair	12" x 5"	2-3/4"	2	

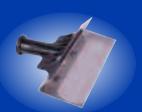




Cleaning a window with a window squeegee.



45510



75242



45503



Squeegees & Window Brushes

Squeegees - For fast, efficient cleaning, Weiler provides a variety of non-scratching floor and window squeegees and window brushes. Designed for high durability.

Floor Squeegees - Heavy-duty construction, iron handle socket.

Description	Length	Туре	Standard Pack	ltem Number	Standard Pack	Refill Blade Item No.
Black rubber blade for rough, heavy use	18" 24" 30" 36"	Straight	6	45506 45507 45534 75202	12	45508 45512 45536 45513
Black rubber blade for rough, heavy use	18" 24" 30" 36"	Curved	12 6 6 6	75206 45510 45535 45511	12	75225 45512 45536 45513
Stainless steel scraper	8"	-	12	75242	-	_

Window Squeegees - Rust-proof handle socket and frame.

Description	Length	Standard Pack	Item Number	Standard Pack	Refill Blade Item No.
One piece frame with hard rubber section joined with a soft, red rubber blade.	6" 12" 14" 16" 18"	12	45537 45500 45538 45501 45502	12 24 24 24 24 24	75233 45503 75228 45504 45505



- All squeegees require a tapered tip handle.
 Handle No. 44020 (1-1/8" x 60") recommended for use with all Squeegees.
 Use Spring-Loc Adapter to keep tapered wood handle securely fastened to the block.
- Handle not included in price order handle separately. See pages 143-144 for adapter and handle.

Window Brushes - Two threaded handle holes

High quality, non-scratching brushes used for industrial window washing.

Description	Block Size	Block	Trim Length	Standard Pack	ltem Number		
Round Style							
Flagged Gold Polystyrene	4-1/2"	Plastic	2-1/2"	12	25271		
Stiff Black Horsehair and Polypropylene Mix	4-1/2"	Plastic	2-3/4"	12	73003		



- Handle No. 44019 (1-1/8" x 60") recommended for use with #25271 & #73003 Window Brushes.
- Handle not included in price order handle separately. See page 143 for handle.

Vehicle Care Products

Vehicle Care Brushes - Weiler's line of vehicle care brushes meets the cleaning needs of car and truck fleets. Brushes are also popular in the marine industry. All products are designed to provide professional results.

Vehicle Wash Brushes - Protective bumper - Foam block with two handle holes. Can be used with flow-through handle #44319 on page 144.

Block Size	Fill Material	Trim Length	Standard Pack	Item Number	★ Combo Qty. Item Number
9-1/2" x 2-3/4"	Grey Fiber	2-1/2"	12	44318*	-
9-1/2" x 2-3/4"	Flagged White Polystyrene	2-1/2"	12	44510	44875
9-1/2" x 2-3/4"	Flagged Orange Polystyrene	2-1/2"	12	42210	-
9-1/2" x 2-3/4"	Flagged Green Polystyrene	2-1/2"	12	73146	-

^{*}May scratch smooth or high gloss surfaces, use polystyrene filled products for these surfaces.

School Bus Brush - Easily sweeps between school bus seats. Lacquered hardwood block with one threaded handle hole. Use handle #44571 on page 143.

Block	Fill	Trim	Standard	ltem
Size	Material	Length	Pack	Number
10" x 2-1/2"	Flagged Silver-grey Polystyrene	3"	12	

Bi-Level Scrub Brushes - Foam Block - The bi-level design allows the brush to stay in contact with the surface at various working angles. Can be used with flow-through handle #44319 on page 144.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number
10"	Flagged White Polystyrene	2-3/4"	6	44699
10"	Fine Green Nylex	2-3/4"	12	44693

Upholstery/Spotting Brush - Wet & dry cleaning, prespotting, carpet touch-up, etc. Shaped plastic handle.

Block	Fill	Trim	Number	Standard	ltem
Size	Material	Length	of Rows	Pack	Number
8-1/2" x 2-9/16"	.016 Crimped Polypropylene	5/8"	8 x 9	12	44307

Spoke Brushes - Ideal for cleaning spokes or confined spaces.

Length of Brush Part	Fill Material	Brush Part	Overall Length	Standard Pack	ltem Number
6"	Polypropylene	2" tapered to 3/4"	11"	12	44482
10"	White Tampico	2-7/8" tapered to 1-1/4"	15"	12	44315

Tire Cleaning Brushes - Foam block - Used for cleaning sidewalls of tires.

Block Size	Fill Material	Trim Length	Number of Rows	Standard Pack	Item Number
8-1/2" x 2-9/16"	.008 Brass	5/8"	8 x 9	12	99593
7" x 1-9/16"	.008 Brass	5/8"	6 x 8	12	73156

Car Wash Mitt - Can be used with all types of soaps and detergents.

Description	Standard Pack	ltem Number
Lint-free synthetic mitt with protective plastic liner	12	49005





44510



70312



44699



44307



44015



99593





[★] Combo Packs include 12 brushes per pack and 12 #44319 handles (not assembled).



Scrubbing a stainless steel sink.



43999



44395



44024



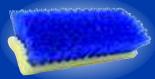
44023



44026



44434



44692



73075



Scrub Brushes

Scrub & Utility Brushes - A broad range of high quality scrub and utility brushes are available from Weiler. From quick cleaning to heavy-duty scrubbing, Weiler's brushes are designed to provide the most effective brushing and cleaning action.

Hand Scrub Brushes - Heavily filled for heavy-duty scrubbing.

Block Size	Fill Material	Trim Length	Block Type	Standard Pack	ltem Number
7-1/2"	Light Blue Polypropylene	1"	Contoured Plastic w/Rubber Insert	24	43999
6"	White Polypropylene	1-1/8"	Iron Style - Plastic	12	44395
7-1/4"	Palmyra	1"	Square - Wood	24	72034
8"	White Tampico White Tampico Palmyra	1-1/8" 1" 1-1/8"	Square - Wood	12	44024 72058* 44025
8-1/4"	White Tampico	1-1/8"	Square - Wood	12	73111
9"	White Tampico	1-1/8"	Pointed - Wood	12	44023

^{*} Threaded handle hole

Deck Scrub Brushes - Excellent for scrubbing decks or floors. One threaded and one tapered handle hole. Can be used with threaded handle #44018 or tapered handle #44020 on page 143.

Block Size	Fill Material	Trim Length	Number of Rows	Block Type	Standard Pack	ltem Number	★ Combo Q Item Numb
9"	Palmyra Tampico	2"	5 x 14	Wood	12	44428 44429	_
10"	Palmyra Tampico Polypropylene	2″	6 x 18	Wood	12	44026 44028 44434	44876 44877 44878
10"	Polypropylene	2"	5 x 14	Foam	12	44728*	_
12"	Palmyra Tampico Polypropylene	2"	6 x 20	Wood	12	44027 44029 44438	- - -

^{*} Threaded handle hole

Bi-Level Scrub Brushes - The bi-level design allows the brush to stay in contact with the surface. Can be used with flow-through handle #44319 on page 144 or the Perma-Flex handle #44301 on page 143.

Block Size	Fill Material	Trim Length	Block Type	Standard Pack	ltem Number
10"	Stiff Crimped Blue Polypropylene	1-3/4"	Foam	6	44692
10"	Flagged White Polystyrene	2-3/4"	Foam	6	44699
10"	Fine Green Nylex	2-3/4"	Foam	12	44693

Baseboard Brush - Can be used with threaded handle #44018 on page 143.

Block	Fill	Trim	Standard	ltem
Size	Material	Length	Pack	Number
5-1/2" x 2-7/8"	Black Polypropylene	1-3/4"	12	73075

Vortec Pro® Boot Brush - Reliable and efficient brush at a value price.

ı	Size	Description	Item Number
•	9" x 6"	Boot Cleaning Brush - Metal Frame - Wood Block - Black Nylon Fill	44391

[★] Combo Packs include 12 scrubs per pack and 12 #44018 handles (not assembled).

Scrub Brushes & Utility Brushes

Utility Scrub Brushes - Wood Block. For general scrubbing in factories, kitchens, institutions, etc.

Overall Length	Fill Material	Trim Length	Block Type	Standard Pack	ltem Number
8"	Palmyra Yellow Polypropylene White Tampico	2"	Wood	12	72086 44013 44014
20"	Palmyra Yellow Polypropylene White Tampico	2"	Wood	12	72101 44016 44017

Utility Scrub Brushes - Foam Block. Chemical and water resistant, will not warp or crack.

Overall Length	Fill Material	Trim Length	Block Type	Standard Pack	Item Number
8"	Palmyra Yellow Polypropylene White Tampico	2"	Foam	12	79101 79120 79100
20"	Palmyra Yellow Polypropylene White Tampico	2"	Foam	12	79107 79109 44663

Utility Scrub Brushes - Plastic Block. Designed for high temperature cleaning, ideal for food service.

Overall	Fill	Trim	Block	Standard	ltem
Length	Material	Length	Type	Pack	Number
20"	White Nylon	2"	Plastic	12	44418

Vortec Pro® Utility Scrub Brushes - Ideal for general purpose cleaning.

Overall Length	Fill Material	Trim Length	Block Type	Standard Pack	ltem Number
8"	Tampico	2"	Foam	12	25262
20"	Tampico	2"	Foam	12	25263

Vortec Pro® Dish/Sink Brush - Plastic Block - Reliable and efficient brush at a value price.

Overall	Fill	Trim	Standard	ltem
Length	Material	Length	Pack	Number
8-3/4"	White Plastic with Blue Polypropylene Border	1"	12	75002

Grout Detail Brush - Use for removing stubborn dirt, grime and mildew from tiled surfaces.

Block	Fill	Trim	Standard	ltem
Size	Material	Length	Pack	Number
8-1/2"	Stiff Black Nylon	7/8"	24	73233

Bowl Brushes - 2" Trim Length - For thorough, efficient cleaning.

Brush Part	Fill Material	Handle	Overall Length	Standard Pack	ltem Number
3-1/2" x 3-3/4"	White Plastic	Plastic	14-1/2"	12	75001
4-1/2" x 4"	White Plastic	Plastic	16"	12	75070
5-3/4" x 4-3/4"	Black Nylon	Plastic	21"	12	75068
6-1/2" x 4"	Black Saran	Wood	21"	12	75071







Utility Brushes

Professional Bowl Brushes - Hardwood handle and natural fiber - For thorough cleaning.

Brush Part	Fill Material	Diameter	Overall Length	Standard Pack	ltem Number
6" x 5"	White Tampico	2"	20"	12	44001*
6-1/2"	Tampico	3-1/4"	23"	12	75060
7-1/4" x 6"	Marble Union Fiber	2-1/2"	22"	12	75072

^{*} Foam handle

Vortec Pro® Bowl Brush Set - 2" Trim Length - Reliable and efficient brushes at a value price.

Brush	Fill	Handle	Overall	Standard	ltem
Part	Material		Length	Pack	Number
3-1/2" x 3-3/4"	White Plastic	Plastic	14-1/2"	6	75000

Vortec Pro® Nail Brushes - Great for use in shop or industrial settings.

Brush Part	Fill Material	Block Type	Trim Length	Number of Rows	Standard Pack	ltem Number
4-3/4" x 1-1/2"	Plastic	Wood	3/4"	4 x 15	36	44314
3-1/2" x 1-1/4"	Poly- propylene	Plastic	3/8"	6 x 18 • 4 x 17 (double-sided)	24	75003
4-3/4" x 1-1/2"	White Tampico	Wood	11/16"	4 x 15	12	75021

Bottle Washing Brush - Brush shape enables access to hard-to-reach areas when cleaning.

Length of	Fill	Handle	Overall	Standard	Item
Brush Part	Material		Length	Pack	Number
6"	Black Horsehair	Wood	16"	12	99594

Vortec Pro® Bottle Washing Brush - Reliable and efficient brush at a value price.

Length of	Fill	Handle	Overall	Standard	ltem
Brush Part	Material		Length	Pack	Number
5-1/2" x 2-3/8"	White Nylon	Twisted-in-wire	1 <i>7</i> "	24	75085

Nylon Tube Brushes - Loop handle, Straight black nylon fill.

Diameter	Fill Diameter	Brush Part	Stem Diameter	Overall Length	Standard Pack	ltem Number
1/4"	.005	2"	3/32"	6-1/4"	36	44110
3/8"	.005	2"	3/32"	6-1/4"	36	44213
1/2"	.010	3"	1/8"	8-1/2"	36	44111
3/4"	.012	3"	1/8"	8-1/2"	36	44112
1"	.014	4"	5/32"	12-1/4"	36	44113
1-1/4"	.014	4"	5/32"	13"	36	44114
2"	.014	5"	3/16"	16-3/4"	36	44115

Percolator Brush - Straight white nylon fill

Ideal for internal cleaning in industrial, laboratory and food service.

Diameter	Fill	Brush	Stem	Overall	Standard	ltem
	Diameter	Part	Diameter	Length	Pack	Number
7/16"	.010	3-1/2"	5/32"	11-1/2"	10	44316

Vat Brush - For valves, outlets, small tanks, beverage dispensers & coffee urns. Can be used with the Perma-Flex handle #44301 on page 143.

Fill	Block	Overall	Standard	ltem
Material	Type	Length	Pack	Number
White Nylon	White Nylon	8"	1	75570



Mops & Accessories

Industrial Grade Mops - Our wet and dry mops are made with industrial grade cotton and can be laundered. They will not scratch floors or unravel.

Wet Mop Heads - Durable, ideal for all-purpose cleaning. Can be laundered.

Weight	Material	Standard Pack	ltem Number
	Cu	t End	
12 oz. 16 oz. 20 oz. 24 oz. 32 oz.	8-ply tight twist cotton	12	75100 75102 75103 75104 75105
#16 #20 #24 #32	4-ply high bulk cotton economy	12	75170 75171 75172 75173
	Loo	p End	
Small Medium Large X-Large	4-ply tight twist cotton	12	75180 75181 75182 75183
Small Medium Large X-Large	4-ply tight twist rayon finishing candy striped	12	75190 75191 75192 75193

Wet Mop Handles - Industrial Grade. Hardwood handle with plated metal heads.

Description	Size	Standard Pack	ltem Number
Quick-Change Plastic Head	54" x 15/16"	12	75140
Screw Type	54" x 1-1/8"	12	75131
Spring Type	54" x 1-1/8"	12	75132
Jaw Type	54" x 1-1/8"	12	75130

Professional Dust Mops - Tie-on style, 4-ply cotton. Can be laundered.

Mop Size	Frame Size	Standard Pack	ltem Number
18"	5" x 18"	12	75116
24"	5" x 24"	12	75117
36"	5" x 36"	12	75118

Professional Dust Mop Frames - Heavy-duty full swivel frame.

Mop Size	Frame Size	Standard Pack	Item Number
18"	5" x 18"	12	75136
24"	5" x 24"	12	75137
36"	5" x 36"	12	75138

Professional Dust Mop Handle - Heavy-duty clamp-on style.

Length	Diameter	Standard Pack	ltem Number
60"	15/16"	12	75133





Use the Combo Bucket with 12 to 32 oz. mop heads

Mops & Accessories

Wedge-Style Dust Mop - Tie-on style, 4-ply cotton Durable, ideal for all-purpose cleaning. Can be laundered.

Size	Frame	Standard	ltem
	Size	Pack	Number
8" wedge	5" x 8"	12	75127

Wedge-Style Frame and Handle

Length	Diameter	Standard Pack	Item Number
60"	15/16"	12	75126

One-Piece Cotton Deck Mops - Industrial grade. Mop head securely tied to handle.

Description	Weight	Standard Pack	ltem Number
#10	7 oz.	12	75096
#12	9 oz.	12	75097
#16	11 oz.	12	75109
#20	14 oz.	12	75098
#24	16 oz.	12	75110

Combo Bucket - One-piece construction that will not rust, fade, crack, peel, chip, dent or warp. Wringer fits all sizes of plastic or metal buckets.

Size	Description	Standard Pack	ltem Number
26 qt.	26 qt. bucket and 12-32 oz. wringer	1	75583

Wax Applicators - 100% lambswool. Washes easily and dries quickly. Pads are easily changed. Can be used with threaded handle #44018 on page 143.

Block and Pad Size	Pad Refill Number	Standard Pack	ltem Number
6" x 10"	75155	1	75150
6" x 12"	75156	12	75151
6" x 14"	75157	12	75152
6" x 16"	75158	12	75153
6" x 18"	75159	12	75154









Masonry & Applicator Brushes

Mesonry & Applicator Brushes - Weiler's full line of Masonry & Applicator Brushes covers everything from the ground up - cement finishing and stippling brushes for texturing and applying cement and asphalt; whitewashing and masonry brushes for applying cement, water paints and liquid waterproofing materials on concrete block and masonry walls; smoothing brushes for applying wallpaper; and roof brushes for spreading roofing tar and coatings.

Knot-Type Roof Brushes - For application of roof coatings. Can be used with tapered handle #44574 on page 143.

Block Size	Fill Material	Trim Length	Number of Knots	Standard Pack	Item Number	★ Combo Qty.
6-1/4"	Tampico	3-1/4"	3	12	44010	44883
8-3/4"	Tampico	3-1/4"	4	12	73177	-

[★] Combo Packs include 12 brushes per pack and 12 #44574 handles (not assembled).

Block-Type Roof Brushes - For application of roof coatings.

Can be used with tapered handle #44574 or threaded handle #75527 on page 143.

Block Size	Fill Material	Trim Length	Number of Knots	Standard Pack	Item Number	★ Combo Qty. Item Number
7"	White Tampico One tapered handle hole	2"	5	12	44011	44884
7"	Cream Colored Polypropylene One tapered handle hole	2"	5	12	73171	-
7"	White Tampico One threaded handle hole	2"	5	12	73195	_

[★] Combo Packs include 12 brushes per pack and 12 #44574 handles (not assembled).

Masonry Brushes - Useful tools for applying cement, waterpaints and liquid waterproofing materials on masonry walls. Handle attached.

Block Size	Fill Material	Trim Length	Number of Rows	Standard Pack	ltem Number
7"	White Tampico	3-1/4"	2	12	44032
6"	Solvent Resistant Polypropylene	3-1/4"	3	12	74020
4"	White Tampico	3"	4	12	74004
6-1/2"	White Tampico	3-1/2"	4		44031
6"	White Tampico	3"	5	12	74002
6-1/2"	White Tampico	4"	5		44448

Whitewash Brushes - Two tapered handle holes allow user to choose the correct brush angle needed. Can be used with tapered handle #75528 on page 143.

Block Size	Fill Material	Trim Length	Number of Rows	Standard Pack	ltem Number
6"	White Tampico	2-5/8"	2	12	74048
7"	White Tampico	2-5/8"	2	12	44034 74053*

^{*} Includes a 12" tapered wood handle.





44010



4401



44031



44448







Creating texture on newly poured concrete.

Masonry & Applicator Brushes

Acid Brush - Detachable handle.

For the application of Kalsomine, cold water, acid and water repellents to concrete and other rough surfaces.

Block	Fill	Trim	Number	Standard	ltem
Size	Material	Length	of Rows	Pack	Number
7"	White Tampico	3-1/2"	3	12	74015

Acid Scrub Brush - Hardwood block- Tapered handle hole Recommended for applying sealcoating, cement slurry, water-proofing, etc.

Block	Fill	Trim	Standard	ltem
Size	Material	Length	Pack	Number
8-1/4" x 2-3/4"	White Tampico	1-1/8"	12	73111

NOTE: Handle not included - can be used with tapered handle #44574 on page 143.

Cement Finishing Brushes - Hardwood block. Ideal for creating texture to newly poured cement and for applying coatings on asphalt or concrete. Use handle #44303 on page 143.

Block Length	Fill Material	Trim Length	No. of Rows	Standard Pack	Item Number	★ Combo Qty. Item Number
24"	Black Polypropylene	2-1/4"	3	6	79251	_
24"	Black Polypropylene	3-1/4"	3	6	79252	44879
36"	Black Polypropylene	3-1/4"	3	6	79253	44880
24"	Horsehair	2-1/2"	3	6	79255	44881
36"	Horsehair	2-1/2"	3	6	79256	44882

[★] Combo Packs include 12 brushes per pack and 12 #44303 handles (not assembled).

Smoothing Brush - Hardwood block. For smoothing wallpaper.

Block	Fill	Trim	Standard	Item
Length	Material	Length	Pack	Number
12"	White Tampico	2"	12	74078



Weiler scrubs and sweeps were used to help with the clean-up after Hurricane Katrina.









Scratch Brushes

Scratch Brushes - Weiler's extensive Scratch Brush offering includes many block and handle types and sizes. The wide variety of fill materials available assures the right brush for the right job. Common applications are cleaning dirt, rust, scale, chips and paint; plating and welding operations.

Curved Handle Scratch Brushes - Hardwood block - Ideal for cleaning and prepping surfaces.

Block Size	Brush Length	Number of Rows	Trim Length	Standard Pack	ltem Number					
.012 Steel Wire										
13-3/4" x 1-1/8"										
14" x 7/8"	5-1/2"	1-3/16"	12	44053						
14" x 1-1/8"	6"	4 x 18	1-3/16"	12	44056					
		.012 Steel Wire v	vith Scraper							
14" x 7/8"	5-1/2"	3 x 19	1-3/16"	12	44055					
14" x 1-1/8"	6"	4 x 18	1-3/16"	12	44058					
	.012 Stainless Steel Wire									
13-3/4" x 1-1/8"	13-3/4" x 1-1/8" 5-1/4" 3 x 14 1-1/4" 12 44432*									
14" x 7/8"	5-1/2"	3 x 19	1-3/16"	12	44054					
14" x 1-1/8"	6"	4 x 18	1-3/16"	12	44057					

^{*} V-Groove

Vortec Pro® Curved Handle Scratch Brushes - Reliable and efficient brushes at a value price.

Block Size	Brush Length	Number of Rows	Trim Length	Standard Pack	Item Number
		.012 Steel	Wire		
13-1/2" x 1"	6"	3 x 19	1"	12	25150
14" x 1-1/8"	6"	4 x 18	1"	12	25201
		.012 Stainless S	iteel Wire		
13-1/2" x 1"	6"	3 x 19	1"	12	25154
14" x 1-1/8"	6"	4 x 18	1"	12	25202

Shoe Handle Scratch Brushes - Hardwood blocks - Ideal for cleaning and prepping surfaces.

noo manaro seraren				una propping so						
Block Size	Brush Length	Number of Rows	Trim Length	Standard Pack	ltem Number					
.012 Steel Wire										
10" x 3/8"	5"	1 x 17	1-1/16"	12	44100					
10" x 5/8"	5"	2 x 17	1-3/16"	12	44061					
10" x 1-1/8"	5"	4 x 16	1-3/16"	12	44063					
11"	5"	4 x 16	1-3/16"	12	73217•					
	.012 Steel Wire with Scraper									
10" x 1-1/8"	5"	4 x 16	1-3/16"	12	44065					
		.012 Stainless	Steel Wire							
10" x 3/8"	5"	1 x 17	1-1/16"	12	44101					
10" x 3/8"	5"	1 x 17	3/4"	12	44235					
10" x 5/8"	5"	2 x 17	1-3/16"	12	44062					
10" x 1-1/8"	5"	4 x 16	1-3/16"	12	44064					
11"	5"	4 x 16	1-3/16"	12	44299•					
	.012 Brass Wire									
11"	5"	4 x 16	1-1/4"	12	73218•					

Plastic block

Vortec Pro[®] Shoe Handle Scratch Brushes - Reliable and efficient brushes at a value price.

Block Size	Brush Length	Number of Rows	Trim Length	Standard Pack	ltem Number						
	.012 Steel Wire										
10" x 1"	5"	4 x 16	1"	12	25100						
	.012 Stainless Steel Wire										
10" x 1"	5"	4 x 16	1"	12	25104						







Removing dirt and oil from a lathe. 44069 THE PERSON NAMED IN 44076 mmmm 44116 ARTHUR PROPERTY. 44119 44075 in m 44551 44189 44619 95151 99383 44732

Scratch Brushes

Heavy-Duty Scratch Brush with Scraper - .012 Steel Wire - Ideal for cleaning and prepping surfaces.

Block	Brush	Number	Trim	Standard	ltem
Size	Length	of Rows	Length	Pack	Number
11-1/2" x 1-1/2"	5-1/2"	4 x 11	1-1/2"	12	44069

Vortec Pro® Heavy-Duty Scratch Brush with Scraper - .012 Steel Wire - Reliable and efficient brushes at a value price.

Block	Brush	Number	Trim	Standard	ltem
Size	Length	of Rows	Length	Pack	Number
11-1/2" x 1-1/2"	5"	4 x 11	1-5/8"	12	

Plater's Brushes - Hardwood block. For general cleaning in the plating, metal finishing, aircraft and missile industries. Also used with inert arc aluminum welding.

Block Size	Brush Length	Number Trim of Rows Length		Standard Pack	ltem Number						
Tampico											
13" x 1-1/4"	5-1/4"	4 x 18	1"	12	44076						
	Nylon										
13" x 1-1/8"	5-1/4"	4 x 19	1"	12	44077						
	.006 Steel Wire										
10" x 1-1/8"	5"	4 x 16	1"	12	44117						
13" x 7/8"	5-1/2"	3 x 19	1"	12	44116						
		.006 Stainless S	Steel Wire								
10" x 1-1/8"	5"	4 x 18	1"	12	44240						
13" x 7/8"	5-1/2"	3 x 19	1"	12	44660						
13" x 1-1/8"	5-1/2"	4 x 19	1"	12	44232						
	.006 Brass Wire										
10" x 1-1/8"	5"	4 x 18	1"	12	44119						
13" x 7/8"	5-1/2"	3 x 19	1"	12	44118						

Small Hand Scratch Brushes - Ideal for cleaning and prepping surfaces.

Block		No. of	Wire	Trim	Standard	ltem				
Size	Block	Rows	Size	Length	Pack	Number				
Stainless Steel Wire										
7-1/2" x 1/2"	Plastic	3 x 7	.006	1/2"	36	44075				
7-1/2" x 1/2"	Wood	3 x 7	.006	1/2"	36	44167+				
7-3/4" x 3/8"	Wood	3 x 7	.006	1/2"	36	44551*				
8-3/4" x 1/2"	Wood	2 x 9	.006	5/8"	36	95013				
		Str	aight Brass V	Vire						
7-1/2" x 1/2"	Wood	3 x 7	.006	1/2"	36	44189				
	Crimped Brass Wire									
6" x 1/2"	Wood	3 x 10	.005	5/8"	72	44619				
8-3/4" x 1/2"	Wood	2 x 9	.008	5/8"	36	95014				
		Cri	imped Alumir	ıum						
6-3/4" x 1-5/8"	Wood	6 x 9	.008	5/8"	12	95151				
8-3/4" x 1/2"	Wood	2 x 9	.008	5/8"	36	44251				
		Stro	aight Black N	ylon						
6-1/2" x 1/2"	Plastic	4 x 15	.010	1/2"	24	99383				
7-1/2" x 1/2"	Wood	3 x 7	.012	1/2"	36	44637				
			White Nylon							
7-1/2" x 1/2"	Plastic	3 x 7	.016	1/2"	36	44609				
		Double-S	ided Brass/W	hite Nylon						
7-1/2" x 1/2"	Plastic	3 x 7	.006/.016	1/2"	24	44731				
			ded Brass/Sta							
7-1/2" x 1/2"	Plastic	3 x 7	.006/.016	1/2"	24	44732				
	Do	uble-Sided	Stainless Ste	el/White Ny	lon					
7-1/2" x 1/2"	Plastic	3 x 7	.006/.016	1/2"	24	44733				
Counterton display available. See page 172										

⁺ Countertop display available. See page 172. *Wire drawn



Scratch Brushes

Vortec Pro® Small Hand Scratch Brushes - Reliable and efficient brushes at a value price.

Block Size	Handle	No. of Rows	Wire Size	Trim Length	Standard Pack	ltem Number			
Stainless Steel Wire									
7-1/2" x 1/2"	Wood	3 x 7	.006	1/2"	36	44805			
7-1/2" x 1/2"	Plastic	3 x 7	.006	1/2"	36	44806			
Straight Brass Wire									
7-1/2" x 1/2"	Wood	3 x 7	.006	1/2"	36	44810			

Block Type Scratch Brushes - For rugged cleaning on bricks, stone and similar large flat areas.

Block Size	Fill Material	Brush Part	No. of Rows	Trim Length	Standard Pack	Item Number
7-1/4" x 2-5/8"	.012 Round Wire Curved Face	7"	9 x 21	1-3/16"	12	44066
7-1/4" x 2-1/4"	.014 Round Wire Flat Face	7"	6 x 19	1-5/8"	12	44067

Vortec Pro® Block Type Scratch Brush - Reliable and efficient brushes at a value price.

Block	Fill	Brush	No. of	Trim	Standard	ltem
Size	Material	Part	Rows	Length	Pack	Number
7-1/4" x 2-1/4"	.012 Steel	7"	6 x 19	1-5/8"	12	

Butcher Block Brush - For cleaning concrete forms and green concrete after forms have been removed.

Block	Fill	Brush	No. of	Trim	Standard	ltem
Size	Material	Part	Rows	Length	Pack	Number
7-1/2" x 2-3/4"	.017 x .110 Flat Wire	7"	5 x 10	1-1/4"	12	44073

Chipping Hammer Refill - A refill brush for most chipping hammers. Used for weld cleaning.

	Block	Fill	Brush	No. of	Trim	Standard	ltem
	Size	Material	Part	Rows	Length	Pack	Number
l	4-5/8" x 7/8"	.012 Steel	4-1/2"	3 x 15	1-1/8"	12	44070

Wire Duster - For cleaning chips, borings, solder, rust, dirt & corrosion from castings.

Block	Fill	Handle	No. of	Trim	Standard	Item
Size	Material	Length	Rows	Length	Pack	Number
3" x 1-1/8"	.012 Steel	5-3/4"	4 x 8	2-1/2"	12	

File Card Brush - Waxed hardwood block. Use for file cleaning or to roughen and prepare surface material prior to sweating and soldering.

Overall	Fill	Brush	Trim	Standard	Item
Length	Material	Part	Length	Pack	Number
8-1/4"	.012 Steel	1-5/8" x 4"	1/4"	12	44260

Metal Chip Brush - Small stiff wire brush for brushing hot metal. Can be exposed to flames without burning.

Overall	Fill	Trim	Face	Standard	ltem
Length	Material	Length	Width	Pack	Number
5-1/2"	.012 Steel	1-1/2"	1-1/4"	12	







44074



Cleaning boiler pipes with a flue brush.



44131



44154



Flue Brushes

Flue Brushes - Designed and engineered from black oil-tempered wire. Flue brushes are available in single spiral and double spiral construction. Other fill materials and sizes available by special order. Contact Customer Service for details.

Applications

Pipe cleaning

■ Flue cleaning

■ Boiler tube cleaning

Flue Brushes - Filled with .012 round wire and fitted with 1/4" x 2" NPT pipe nipple. For internal cleaning of pipes and flues.

Brush Diameter	Brush Length	Overall Length	Standard Pack	ltem Number						
	Single Spiral									
7/8"	7/8" 4-1/2" 7-1/2" 1									
1"	4-1/2"	7-1/2"	1	44125						
1-1/4"	4-1/2"	7-1/2"	1	44047						
1-1/2"	4-1/2"	7-1/2"	1	44128						
1-3/4"	4-1/2"	7-1/2"	1	44048						
2"	4-1/2"	7-1/2"	1	44131						
2-1/2"	4-1/2"	7-1/2"	1	44133						
3"	4-1/2"	7-1/2"	1	44135						
3-1/2"	4-1/2"	7-1/2"	1	44137						
4"	4-1/2"	7-1/2"	1	44139						
		Double Spiral								
1"	4-1/2"	7-1/2"	1	44149						
1-1/4"	4-1/2"	7-1/2"	1	44035						
1-1/2"	4-1/2"	7-1/2"	1	44150						
1-3/4"	4-1/2"	7-1/2"	1	44036						
2"	4-1/2"	7-1/2"	1	44152						
2-1/4"	4-1/2"	7-1/2"	1	44037						
2-1/2"	4-1/2"	7-1/2"	1	44154						
2-3/4"	4-1/2"	7-1/2"	1	44038						
3"	4-1/2"	7-1/2"	1	44156						
4"	4-1/2"	7-1/2"	1	44169						
4-7/8"	4-1/2"	7-1/2"	1	44159						

Flue Brush Extension Rod - One 1/4" male pipe nipple and one 1/4" female pipe coupling allows user to extend flue brush.

Description	Standard Pack	ltem Number
36" Fiberglass Extension Rod	1	95925



- "Pipeline" Flue Brushes By Special Order Only.
- Heavy-duty. Exact size diameter. Rugged double stem, single spiral.
- Fitted with 1/4" pipe nipple. Available in diameters of 1-5/8" 15".



Flue Brushes are available in additional sizes and fill materials.



Tube Fitting Brushes

Tube Fitting Brushes - Several configurations and sizes of Tube Fitting Brushes are available for cleaning and deburring copper, internal and external tube fittings. The handy 4-in-1 tube fitting brush cleans both outside and inside diameters of multiple tube sizes.

Internal Tube Fitting Brushes - Wire Fill - For internal cleaning and deburring of copper tube fittings. Also used in trucking and marine industries as a light socket cleaning brush.

Tube Diameter	Actual Diameter	Brush Length	Overall Length	Handle Length	Standard Pack	ltem Number
1/8"	1/4"	1"	6-1/2"	3-1/4"	12	44078
1/4"	3/8"	1"	6-1/2"	3-1/4"	12	44079
3/8"	1/2"	1"	6-1/2"	3-1/4"	12	44080
1/2"	5/8"	1"	6-1/2"	3-1/4"	12	44081
5/8"	3/4"	1"	6-1/2"	3-1/4"	12	44082
3/4"	7/8"	1"	6-1/2"	3-1/4"	12	44083
7/8"	1"	1"	6-1/2"	3-1/4"	12	44084
1"	1-1/8"	1"	6-1/2"	3-1/4"	12	44085
1-1/4"	1-3/8"	1"	6-1/2"	3-1/4"	12	44086
1-1/2"	1-5/8"	1-1/2"	6-1/2"	3-1/4"	6	44087



Ideal for cleaning tube ends. Mount to a hand drill for fast results.

Outside Diam.	Standard Pack	ltem Number
3/8"	40	44734
1/2"	40	44735
5/8"	40	44736
3/4"	40	44737
7/8"	40	44738
1"	40	44739

4-in-1 Tube Fitting Brush

One Brush Replaces Four! - Steel Wire

Cleans the outside and inside diameters of 1/2" and 3/4" tubes and fittings.

Use for soldering prep, deburring, drill hole cleaning and cleaning battery terminals.

Tube	Tube	Standard	ltem
Inside Diameter	Outside Diameter	Pack	Number
3/4" and 1/2"	7/8" and 5/8"	1	

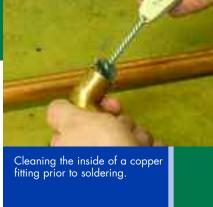
Turbo Tube™ Brushing Tool - The Turbo Tube Brushing Tool is two brushes in one, so fittings and copper tubing can be easily cleaned without changing tools!

Applications

- Fitting brush cleans outside diameter
- Ideal for plumbing and HVAC projects
- Tube brush cleans inside diameter

Vortec Pro® Turbo Tube Brushes - Clean I.D. and O.D. with the same tool. Rust-proof stainless steel bristles. Reliable and efficient brushes at a value price.

		·			
I.D. Size	O.D. Size	Wire Type	Standard Pack	ltem Number	
1/2"	5/8"	Stainless	1	36303	
3/4"	7/8"	Stainless	1	36304	
1"	1 1/9"	Ctainlace	1	24205	







44734



44690



36303



Paint & Varnish Brush Technical Information

General Information

Brush Types:

Weiler brushes are designed for industrial use. These quality brushes are made with the finest materials, yet priced to give the lowest cost-per-use.

- Wall Paint
- Varnish
- Flat Sash
- Angular Sash
- Oval Sash
- Chip & Oil

- Acid
- Glue
- Stencil
- Parts Cleaning
- Marking
- Round Sash

Paint Brush Terminology

Fill Material: The part of the brush that actually does the work. Weiler brushes are filled with Natural China Bristle or Tapered Polyester. Various sizes of fill material are blended together to create the proper taper.

Ferrule: The metal band that holds the fill material and handle together. All Weiler paint and varnish brushes are made with plated metal ferrules which will not rust or corrode.

Flagged Ends:

A split at the end of each tapered fiber of fill material. Bristle is naturally tapered with a flagged tip. Polyester fibers are made tapered and then mechanically processed to form a flagged tip. Flagging allows each tip to pick up more paint and spread it more evenly.

brush,

Trim Length: The length

Trim Length: The length

Handle: Weiler handles are made of quality wood or synthetics. Wood handles are sanded and lacquered. Synthetic handles are not affected by paints, varnishes or solvents. All handles provide a comfortable grip for hours of fatigue-free use.

Thickness: The thickness of the brush, measured at the ferrule, will determine the quality level of the brush. The thicker the brush, the more paint pickup and release.

Trim Length: The length of the fill material extending from the ferrule. The longer the trim, the more paint is picked up and released for a quicker, easier job.

Paint & Varnish Brush Selection Guide

The chart below provides information on paint brush fill types to allow you to recommend the correct brush for the job.

Brush Fill	Recommended For	Benefits
China Bristle	All oil based and alkyd paints, stains, varnish urethane & shellac	Softest tip for fewest brush marks Natural fibers hold paint better than synthetics
Polyester/Nylon blend	All paints and coatings	Most durable material Precise tipping Cleans up easily
Polyester	All paints and coatings	Low cost Does not absorb water

Paint & Varnish Brush Care

Brushes Used In	Clean With
Oil base paintLatex paintWater base paintVarnishShellac	 Turpentine or mineral spirits Warm soapy water Warm soapy water Turpentine or mineral spirits Alcohol

Note: After cleaning, shake out, comb bristles and hang by handle.

Special Paint Brushes

The brushes listed in this catalog will cover the major requirements of industry. However, if an application requires another type, size or style of brush, contact your nearest Weiler distributor or Weiler's Customer Service Team.



Professional Paint, Varnish & Sash Brushes

Professional Wall, Varnish and Sash Brushes - These high quality brushes are available in a wide variety of sizes and materials to fill all applications. The Professional Wall Brushes have a sanded wooden handle, the preferred standard among professional users. The Professional Varnish and Sash Brushes are color coded - Blue for Bristle and Red for Polyester/Nylon Blend, and feature painted foam handles in the "beaver tail" style. These handles are attractive and easier to grip, reducing user fatigue.

Wall Paint Brushes - For interior/exterior painting of large flat surfaces.

Width	Thickness	Bristle Length	Standard Pack	ltem Number
Black China Bristle - Sanded Wood Handle				
3"	7/8"	3-1/4"	6	40022
4"	7/8"	3-3/4"	6	40023
	Poly	/Nylon - Sanded Wood	Handle	
3"	7/8"	3"	6	40061
4"	7/8"	3"	6	40062

Varnish Brushes - Comfortable foam grip handle; smooth paint flow.

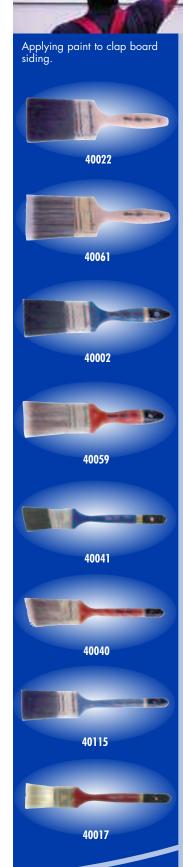
Width	Thickness	Bristle Length	Standard Pack	ltem Number		
	Black China Bristle - Blue Foam Handle					
1"	7/16"	2"	12	40000		
1-1/2"	1/2"	2-1/4"	12	40001		
2"	9/16"	3"	12	40002		
2-1/2"	5/8"	3"	12	40003		
3"	11/16"	3"	12	40004		
4"	11/16"	3"	12	40010		
	Po	ly/Nylon - Red Foam Ho	ındle			
1"	7/16"	2-1/4"	12	40058		
2"	3/4"	2-3/4"	12	40059		
3"	7/8"	3"	12	40060		
4"	7/8"	3"	12	40106		

Angled Sash Brushes - For trim or cut work like window sills, door frames, etc.

Width	Thickness	Bristle Length	Standard Pack	ltem Number
Black China Bristle - Blue Foam Handle				
1-1/2"	7/16"	2-1/4"	12	40041
2"	1/2"	2-1/4"	12	40008
	Pol	y/Nylon - Red Foam Ha	ındle	
1-1/2"	7/16"	2-1/2"	12	40011
2"	1/2"	2-1/2"	12	40040

Flat Sash Brushes - For trim or cut work like window sills, door frames, or other narrow, flat surfaces.

Width	Thickness	Bristle Length	Standard Pack	ltem Number
	Black Ch	ina Bristle - Blue Foar	n Handle	
1"	3/8"	2"	12	40113
1-1/2"	7/16"	2-1/4"	12	40114
2"	9/16"	3"	12	40115
	Poly	/Nylon - Red Foam Ha	ındle	
1"	3/8"	2-1/4"	12	40014
1-1/2"	7/16"	2-1/4"	12	40017
2"	9/16"	2-1/2"	12	40018







Professional Sash & Parts Cleaning Brushes

Oval Sash Brushes - Ideal for cleaning parts, crevices and painting hard-to-reach areas.

Size	Thickness	Bristle Length	Standard Pack	ltem Number
	Black China Br	istle - Plain Foam Ha	ndle - Chisel Trim	
#2	7/16"	1-3/4"	24	40116
#4	11/16"	1-3/4"	12	40019
#6	13/16"	1-3/4"	12	40056
#8	15/16"	3"	12	40020
#10	1-1/16"	3"	12	40021
#12	1-3/16"	3"	12	40057

Round Sash Brushes - Ideal for cleaning parts, crevices and painting hard-to-reach areas.

Size	Thickness	Bristle Length	Standard Pack	ltem Number
	Grey Brist	le - Plain Foam Handl	le - Flat Trim	
#2	7/16"	1-3/4"	24	40118
#4	11/16"	2"	12	40119
#6	13/16"	2"	12	40120
#8	15/16"	2-1/4"	12	40121
#10	1-1/16"	2-1/4"	12	40122
#12	1-3/16"	2-1/4"	12	40123

Parts Cleaning Brushes - Ideal for applications such as cleaning carburetors, transmission components, applying adhesives and lubricants.

Parts Cleaning Brushes - Stainless steel ferrule - Heavily filled.

Thickness Fill Bristle Standard Number Plain Foam Handle - Chisel Trim 1" Synthetic 2-1/2" 12 40035										
					1" Tampico 2-3/4" 12 4003					

Vortec Pro® Parts Cleaning Brushes - Reliable and efficient brushes at a value price.

Thickness	ltem Number				
Plain Foam Handle - Chisel Trim					
15/16" Nylon 2-1/2" 12				25221	
1" Tampico 2-3/4" 12 2522					



Industrial Paint Brushes

Industrial Paint Brushes - The Industrial line features color coded plastic handles to provide quality paint brushes at competitive prices.

Industrial Varnish Brushes - Heavily-filled brush with comfortable handle in a variety of sizes.

Width	Thickness	Bristle Length	Standard Pack	ltem Number	
Black Bristle – Black Plastic Handle					
1/2"	1/2" 1/4" 1-3/4" 48				
1"	3/8"	1-3/4"	36	40089	
1-1/2"	7/16"	2"	24	40101	
2"	7/16"	1-3/4"	12	40074	
2-1/2"	1/2"	2-1/4"	12	40102	
3"	1/2"	2"	12	40103	
4"	5/8"	2-3/4"	12	40104	
	Black I	Polyester - Red Plastic H	landle		
1/2"	1/4"	1-3/4"	48	40112	
1"	3/8"	2"	36	40107	
1-1/2"	7/16"	2"	24	40108	
2"	7/16"	2"	12	40109	
2-1/2"	1/2"	2-1/4"	12	40167	
3"	1/2"	2"	12	40110	
4"	11/16"	2-3/4"	12	40111	

^{*}Grey Bristle

Bent Radiator Brush - Black Bristle - Wood Handle

Ideal for painting radiators and other hard-to-reach areas.

Width	Thickness	Bristle Length	Standard Pack	ltem Number
2"	9/16"	2-1/4"	12	95502

Detail Brushes - Grey Bristle - Plastic Handle

	Width	Thickness	Bristle Length	Standard Pack	ltem Number
-	1-1/2"	5/16"	5/8"	24	40012
	1-1/2"	5/16"	1"	24	40013

Vortec Pro® Foam Applicator Brushes - Wood Handle

Reliable and efficient brushes at a value price. Not recommended for use with lacquer, shellac or solvents.

	<u> </u>			
Width	Thickness	Foam Length	Standard Pack	ltem Number
1"	5/8"	2-5/8"	50	99801
2"	5/8"	2-5/8"	50	99805
3"	7/16"	2-5/8"	40	99806
4"	7/16"	2-5/8"	30	40199



Flagged tips on synthetic and bristle style brushes help them carry more paint to the work surface.



Painting inside the fins of a radiator with a Radiator brush.



40074







99806







40068

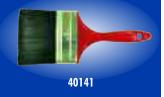




40161



40029



Chip and Oil Brushes

Chip And Oil Brushes - Chip and Oil brushes are inexpensive, multi-purpose brushes for use in applications requiring disposable brushes.

Chip and Oil Brushes - White Bristle - Wood Handle

Width	Thickness	Bristle Length	Standard Pack	Item Number
1/2"	5/16"	1-3/4"	30	40065
]"	5/16"	1-3/4"	30	40066
1-1/2"	5/16"	1-3/4"	30	40067
2"	5/16"	1-3/4"	20	40068+
2-1/2"	3/8"	1-3/4"	20	40069
3"	3/8"	1-3/4"	10	40070+
4"	5/8"	2"	10	40071
	3/8"			40076

⁺ Countertop display available. See page 172.

Vortec Pro® Chip and Oil Brushes - Reliable and efficient brushes at a value price.

		Bristle	Standard	Item
Width	Thickness	Length	Pack	Number
	White Bri	stle - Wood Handle		
1/2"	5/16"	1-1/2"	36	40177
1"	5/16"	1-1/2"	36	40179
1-1/2"	5/16"	1-1/2"	24	40180
2"	5/16"	1-1/2"	24	40181
2-1/2"	3/8"	1-1/2"	12	40182
3"	3/8"	1-1/2"	12	40183
4"	5/8"	1-3/4"	12	40184
	3/8"			40185
	Black Bris	tle - Plastic Handle		
1/2"	1/4"	1-5/8"	30	40160
1"	5/16"	1-5/8"	30	40161
1-1/2"	5/16"	1-5/8"	30	40162
2"	5/16"	1-5/8"	20	40163
2-1/2"	3/8"	1-3/4"	20	40164
3"	3/8"	1-3/4"	10	40165
4"	11/16"	2"	10	40166
	Grey China E	Bristle - Plastic Hand	le	
1/2"	1/4"	1-7/8"	48	40026
1"	5/16"	1-7/8"	36	40027
1-1/2"	5/16"	1-7/8"	24	40028
2"	3/8"	1-7/8"	24	40029
2-1/2"	1/2"	1-7/8"	12	40030
3"	1/2"	1-7/8"	12	40031
4"	11/16"	1-7/8"	12	40032
	Grey China E	Bristle - Plastic Hand	le	
1/2"	1/4"	1-3/4"	48	40129
]"	5/16"	1-3/4"	36	40130
1-1/2"	5/16"	1-3/4"	24	40131
2"	3/8"	1-3/4"	24	40132
2-1/2"	1/2"	1-3/4"	12	40133
3"	1/2"	1-3/4"	12	40134
4"	11/16"	1-3/4"	12	40135
	Black Synthet	ic - Red Plastic Hand	lle	
1/2"	1/4"	1-3/4"	48	40136
1"	5/16"	1-3/4"	36	40137
1-1/2"	5/16"	1-3/4"	24	40138
2"	3/8"	1-3/4"	24	40139
3"	1/2"	1-3/4"	12	40140
4"	11/16"	2-3/4"	12	40141

Marking Brushes

Marking Brushes - Weiler's high quality Marking Brushes come in a variety of animal, natural and synthetic bristles in numerous handle styles for many applications such as fine artwork, pin striping and sign painting.

Red Sable Watercolor Brushes - Seamless ferrule. Pointed tip - Round black handle

Size	Diameter	Trim Length	Standard Pack	ltem Number
3/0	3/64"	1/4"	12	41000
0	1/16"	5/16"	12	41001
2	3/32"	7/16"	12	41002
4	1/8"	5/8"	12	41003

Black Bristle Marking Brushes - Long, lacquered handle

Size	Diameter	Trim Length	Standard Pack	ltem Number
1	1/8"	3/4"	12	41004
2	5/32"	15/16"	12	41005
4	7/32"	1-1/8"	12	41007
5	1/4"	1-1/4"	12	41008
6	9/32"	1-3/8"	12	41009

Flat Marking Brushes - Ox hair - Single stroke - Round black handle

Width	Trim Length	Standard Pack	ltem Number
1/4"	7/8"	12	41018
1/2"	1"	12	41019
3/4"	1-1/4"	12	41020
1"	1-3/8"	12	41021

Sign Brushes - Ox hair - Flat red handle

Width	Trim Length	Standard Pack	ltem Number
1/4"	3/4"	12	41014
1/2"	1"	12	41015
3/4"	1-1/8"	12	41016
]"	1-1/4"	12	41017

Fitch Brushes - Black china bristle - Chiseled edge - Clear lacquered handle

Width	Trim Length	Standard Pack	ltem Number
1/4"	13/16"	12	41022
1/2"	1-1/16"	12	41023
3/4"	1-5/16"	12	41024
]"	1-9/16"	12	41025

Lacquering Brushes - Seamless aluminum ferrule. Camel hair - Round black handle

Size	Diameter	Trim Length	Standard Pack	ltem Number
1	5/32"	11/16"	12	41010
3	7/32"	13/16"	12	41011
5	1/4"	1-1/8"	12	41012
6	5/16"	1-3/16"	12	41013







Applying flux to a copper tube prior to soldering.













Glue and Acid Brushes

Glue And Acid Brushes - Weiler's Glue and Acid Brushes come in multiple sizes, ferrule types, handles and fill materials for a wide variety of cleaning and coating applications.

Bridled Glue Brushes - Grey china bristle - Steel ferrule - Long foam handle

Diameter	Trim Length	Standard Pack	ltem Number
7/16"	1-1/4"	36	40077
13/16"	1-3/4"	24	40078
15/16"	1-3/4"	24	40079

Acid/Flux Brushes - Horsehair - Tin ferrule

Width	Trim Length	Overall Length	Standard Pack	ltem Number
5/16"	3/4"	5-3/4"	144	44088
3/8"	3/4"	5-3/4"	144	44089
1/2"	3/4"	5-3/4"	144	44090

Stylus Brush - Stiff grey horsehair. Aluminum tube with cork to hold cleaning fluid. For cleaning electrical contact points.

Width	Trim Length	Overall Length	Standard Pack	ltem Number
1/2"	3/8"	5"	100	44097

Stencil Brushes - China bristle - Seamless steel ferrule - Lacquered wood handle

Diameter	Bristle Length	Standard Pack	ltem Number
1"	1-3/8"	12	40080
1-1/2"	1-5/8"	12	40081
2"	1-3/4"	12	40082

Dope Brushes - With hanger for coating applications in drilling operations.

Brush	Fill	Diameter	Overall	Standard	ltem
Part	Material		Length	Pack	Number
4"	Mixed Tampico	2" 2-1/2" 3"	16"	12	44261 44262 44263

Dauber Brush - For applying dope to the thread ends of drill pipe.

Brush	Fill	Overall	Standard	ltem
Size	Material	Length	Pack	Number
4"	White Tampico	16"	12	



Paint Rollers and Accessories

Paint Rollers And Accessories - Paint Rollers can be used almost anywhere including walls, ceilings, floors, decks, fences, metal surfaces, concrete, and brick walls. Weiler carries a wide variety of rollers for the professional painter, industrial use and those weekend DIY projects. Accessories include roller frames, paint trays, bucket grids and painter's mitts.

Paint Roller Selection Guide

Work Surface	Coating	Recommended Nap
Metal, Smooth Wood, Smooth Concrete	Enamels, Epoxies Adhesives, Paint	3/16", 3/8" (Low nap)
Rough Wood, Drywall, Cement Block	All Paint	1/2", 3/4" (Medium nap)
Stucco, Brick, Concrete	All Paint	1" (High nap)

Professional Grade Rollers - Poly blend with phenolic core.

Size	Nap	Painting Surface	Standard Pack	ltem Number
9"	3/16" 1/2" 3/4" 1"	Smooth Semi-smooth Rough Extra Rough	12	49050 49051 49052 49053

Industrial Grade Rollers - Poly blend with PVC core.

Size	Nap	Painting Surface	Standard Pack	ltem Number
3"	3/8"	Semi-smooth	24	49046
4"	3/8" 3/4"	Semi-smooth Rough	12	49044 49045
9"	3/16" 1/2" 3/4"	Smooth Semi-smooth Rough	12	49061 49062 49063
18"	3/8" 3/4"	Smooth Rough	1	49082 49086

Vortec Pro® Rollers - Poly blend with PVC core. Reliable and efficient rollers at a value price.

Size	Nap	Painting Surface	Standard Pack	ltem Number
9"	3/8" 1/2"	Semi-smooth Semi-smooth	12	49070 49071

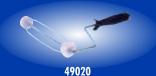
Specialty Rollers - Can be used with all paints. Ideal for trim and touch-up.

	<u> </u>	
Description	Standard Pack	ltem Number
3" Roller with 3/8" nap. Standard duty frame	24	49016
3" Roller with 3/8" nap. Wire frame with two tin end caps. Bent wire handle	12	49015
4" Pipe Roller with 3/8" nap	24	49024
4" Micro Perlon Roller Reach	24	49025
4" Micro Perlon Twin Pack Cover	24	49066



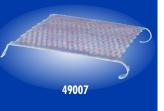
The bucket grid is a must for every painting project!













Paint Rollers and Accessories

Frames - All metal with two plastic caps. Solid plastic handle with threaded grip. Can be used with threaded handle #44300 on page 143.

Size	Description	Standard Pack	ltem Number
3"	Standard-duty 1/4" dia. frame with 4 wire cage	24	49019
4"	Standard-duty 1/4" dia. frame with 4 wire cage	24	49018
9"	Heavy-duty 5/16" dia. frame with 5 wire cage	12	49022
12"-18"	Adjustable frame fits 12"-18" rollers	1	49021

Vortec Pro® Frame - Reliable and efficient frame at a value price.

Size	Description	Standard Pack	ltem Number
9"	Standard-duty 1/4" dia. frame with 4 wire cage	24	49020

Paint Trays - A variety of trays available to meet users' specific needs.

Description	Paint Capacity	Standard Pack	ltem Number
4" Plastic tray	1 Quart	24	49008
9" Galvanized steel tray; Rust resistant	1 Quart	24	49010
9" Deluxe plastic tray; Rust proof	1 Quart	20	49012
9" Paint tray liner	1 Quart	24	96702

Vortec Pro® Paint Tray - Reliable and efficient tray at a value price.

Description	Paint	Standard	ltem
	Capacity	Pack	Number
9" Economy plastic tray; Rust proof	1 Quart	20	49011

Bucket Grid - Permits use of paint roller directly from a 5-gallon pail.

Description	Standard Pack	ltem Number
Heavy steel - 5 gallon size	12	49007

Painter's Mitt -

Can be used with all types of paint and stain. Use on pipes, rails, fences and hard-to-reach areas.

Description	Standard Pack	ltem Number
Lint-free synthetic mitt with protective plastic liner	12	49005



Display Packaged Product

Display Packaged Product - In order to generate impulse purchases, a variety of our most popular Weiler industrial grade items are available in highly visible display packaging to stimulate impulse sales. Customers can easily view the product and assess its high quality. Package labeling includes key technical information and UPC barcodes. A multi-lingual safety slip is included with all products, providing comprehensive information on the safe use of the product.

Standard Twist Wheels - Provide heavy-duty brushing action with some flexibility; Ideal for demanding cleaning applications on somewhat irregular surfaces.



Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Std. Pack		lumber Stainless
3"	.014	1/2"-3/8"	20	3/8"	5/8"	1/2"	7/16"	25,000	1	08014P	_
4"	.014	1/2"-3/8"	24	1/2"	7/8"	1/2"	7/16"	20,000	1	08044P	_
4"	.014	5/8"-11	24	1/2"	7/8"	_	7/16"	20,000	1	13106P	13113P
6"	.014	5/8"-1/2"	24	1/2"	1-3/8"	1-1/4"	9/16"	9,000	1	08085P	_



13106P

Cable Twist Wheel - Maximum brushing action with minimal flexibility; ideal for demanding cleaning and surface prep applications on relatively smooth surfaces.

Dia.	Wire Size	Arbor Hole		Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Standard Pack	Item No. Steel
4"	.020	5/8"-11	24	1/4"	7/8"	1/2"	7/16"	20,000	1	13266P



13266P

Roughneck® Stringer Bead Wheels - Maximum impact action for fast removal of slag, spatter, oxidation as well as other surface prep and cleaning applications.



	Wire	Arbor	No. of	Face	Trim	Thickness at Face	Max.	Standard	Item Number	
Dia.	Size	Hole	Knots	Width	Length	Plates	RPM	Pack	Steel	Stainless
4"	.020	M10 x 1.25 5/8"-11	32	3/16"	7/8"	7/16"	20,000	1	13125P 13131P	_ 13138P
6"	.020 .023	5/8"-11	56 24	3/16" 1/2"	1-1/8" 1-3/8"	7/16" 9/16"	12,500	1	09400P 08776P	-
6-7/8"	.020	5/8"-11	56	3/16"	1-1/8"	7/16"	9,000	1	09000P	_



13131P

Crimped Wire Wheels - Provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Standard Pack	Item Number Steel
6"	.014	5/8"-1/2"	3/4"	1-7/16"	1-1/4"	7/16"	6,000	1	01075P
6"	.014	5/8"-1/2"	5/8"	1-1/16"	_	1/2"	6,000	1	02325P
6"	.014	5/8"-1/2"	7/8"	1-1/8"	-	7/8"	6,000	1	06645P
7"	.014	5/8"-1/2"	3/4"	1-9/16"	_	1/2"	6,000	1	02335P
8"	.014	5/8"	3/4"	2-1/16"	1-1/4"	1/2"	6,000	1	01175P



01075P

Conflex Brushes - Small diameter copper center wheels permanently mounted onto a 1/4" stem to provide a very flexible brushing action.



Dia.	Wire	Face	Trim	Max.	Standard	Item Number
	Size	Width	Length	RPM	Pack	Steel
3"	.008 .014	1/2"	1"	20,000	1	17615P 17617P



17617

4

07771P

Threaded Adapters - For mounting brushes with a 5/8"-11UNC nut to other threaded spindles.

Fixed Thread Size	Adapted Thread Size	Standard Pack	Item No.
5/8" - 11 UNC	M10 x 1.25	1	07771P
5/8" - 11 UNC	M10 x 1.50	1	07772P

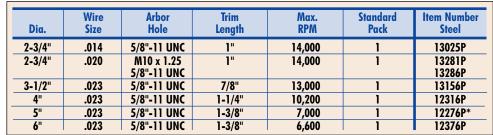
Display Packaged Product

Knot Wire Cup Brushes - Single Row - Provide heavy-duty brushing action with some flexibility; ideal for demanding cleaning applications on relatively flat surfaces.





12316P



^{*} With internal nut

Crimped Wire Cup Brushes - Very flexible brushing action and the most consistent performance for demanding light-duty cleaning applications; featuring a threaded nut for use on angle grinders.



			•				
	Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Standard Pack	Item Number Steel
	3"	.014	M10 x 1.25 5/8"-11 UNC	1"	14,000	1	13240P 13245P
-	4"	.020	5/8"-11 UNC	1-3/8"	9,000	1	14036P
	6"	.020	5/8"-11 UNC	1-1/4"	6,600	1	14076P*

^{*} With internal nut



13245P

Knot Wire End Brushes - Feature a hollow end and heavy-duty brushing action with some flexibility; ideal for more demanding cleaning applications in recessed areas.



Dia.	Wire Size	Trim Length	Max. RPM	Standard Pack	Item Number Steel
3/4"	.014 .020	1-1/8"	22,000	1	10025P 10026P
1-1/8"	.014 .020	7/8"	22,000	1	10027P 10028P





10012P 10028P

Crimped Wire End Brush - Feature a solid end construction and very flexible brushing action ideal for more demanding light-duty cleaning applications in corners and hard-to-reach areas.

Mini-Grinder Kit - For use on small right angle grinders. All products have a 5/8"-11 Arbor Hole



Dia.	Wire	Trim	Max.	Standard	Item Number
	Size	Length	RPM	Pack	Steel
1"	.020	1-1/8"	20,000	1	10012P



13001

Kit Contains	Item No.
4-1/2" Abrasive Flap Disc (Zirconium Grain, 60 Grit); Item #50519: For grinding and finishing in one step.	13001
2-3/4" Knot Wire Cup Brush (.020 Steel Wire); Item #13286: For cleaning large surface areas.	
4" Stringer Bead Knot Wire Wheel (.020 Steel Wire); Item #13131 For weld cleaning, deburring and surface preparation.	



All products have a 1/4" Stem and are ideal for general purpose cleaning and deburring in recessed or confined areas.



Kit Contains	Item No.
3" Crimped Wire Wheel (.0118 Steel Wire); Item #17616 1-3/4" Crimped Wire Cup Brush (.0118 Steel Wire); Item #14301 3/4" Crimped Wire End Brush (.020 Steel Wire); Item #10008 3" Abrasive Flap Wheel (Aluminum Oxide Grain, 80 Grit); Item #52028	13002



13002



Display Packaged Product

Vortec Pro® - Display Packaged Flap Discs- Angled Style (Type 29)

Convenient hang-card makes increasing point-of-purchase sales easy!





			Pheno	olic Back - Ziro	onium	Aluminum Back - Zirconium		
Diameter	Grit Size	Max. RPM	Arbor Hole	Standard Pack	Item Number	Arbor Hole	Standard Pack	Item Number
4"	36 60 80	15,000	5/8"	6	30822 30825 30826	5/8"-11	6	30821 30823 30824
4-1/2"	36 60 80	13,000	7/8"	6	30828 30831 30832	5/8"-11	6	30827 30829 30830
7"	36 60 80	8,600	7/8"	6	30834 30837 30838	5/8"-11	6	30833 30835 30836



Multi-Purpose Brush Countertop Display -

Economical brushes provide lasting, efficient service at minimal cost.

Display Contains	Item No.
(20) 2" Multi-Purpose Brushes, White Bristle - Wood Handle; Item #40068 (10) 3" Multi-Purpose Brushes, White Bristle - Wood Handle; Item #40070	61011



61011

Stainless Steel Scratch Brush Countertop Display -

Ideal for removing rust, scale and paint from metal surfaces.

Display Contains	Item No.
(36) Stainless Steel Small Hand Scratch Brushes,	61012
7-1/2" x 1/2" Block Wood Handle; Item #44167	ı



61012

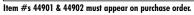
FREE Sweeping Center Rack And Header with Qualifying Order - Rack #44901 and Header #44902

Contact Customer Service at 800-835-9999 for details on how to receive a FREE rack and header to use when displaying Weiler maintenance products.

A Qualifying Order is required. Below is an example of a Qualifying Order.

Recommended List of Product for Sweeping Center Display

	Description	Item No.
6 each:	24" Contractor Broom, Flagged Grey Polystyrene Border with Stiff Black Polypropylene Center, 3" Trim	44581
	24" Contractor Broom, Palmyra, 4" Trim 24" Contractor Broom, Medium Maroon Polypropylene, 3-1/4" Trim 24" Contractor Broom, Stiff Blue Polypropylene, 3-1/4" Trim	44584 44587 44590
12 each:	57" Light Industrial Corn Broom, 17" Trim	44548
24 each:	5' x 1-1/8" Contractor Broom Handle with Free Brace	44635





42300

FREE Pro-Flex™ Display Box with Qualifying Order - Display Box #44625

Contact Customer Service at 800-835-9999 for details on how to receive your FREE display box to use when displaying Weiler Pro-Flex products. A Qualifying Order is required. Below is an example of a Qualifying Order.

Recommended List of Product for Pro-Flex™ Display Box

	Description	Item No.
3 each:	24" Flagged Grey Polystyrene Border with Stiff Black Polypropylene Center, 3" Trim 24" Palmyra, 4" Trim	44600 44601
	24" Medium Maroon Polypropylene, 3-1/4" Trim	44604
	24" Stiff Blue Polypropylene, 3-1/4" Trim	44606

Each sweep comes with handle attached and ready to display.

Item #44625 must appear on purchase order.





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7322		59732		65221		67542		68667	
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7326		59807		65226		67574		68686	
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9523		60040		67129		67653		69042	
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9527	108	60046	110	67132	114	67667	115	69075	
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9543	108	60118	110	67166	114	67790	115	69080	
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9554	108	60137	110	67187		67797		69167	11
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9560	108	60155		67221		67848		69291	11
9561	108	60156		67222		67849		69292	11
9564	108	60157	110	67327		67850	116	69293	11
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9566		60171	110	67330		67852		69295	
9567	108	60172	110	67378		67853	116	69296	
9568	108	60175	110	67380		67881		69346	11
9571	108	60176	110	67394		67882		69347]]
9573	108	60177		67395		67883		69348	
9575	108	60378	110	67396		67884		69349	
at 11	108	60381	110	67397		67885		69350	
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9577	108	60382	110	67398		67899		69382	



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