









As an industry leader and global manufacturer of surface conditioning solutions, Weiler Abrasives is eager to create a collaborative partnership to overcome your toughest cleaning, grinding, cutting, de-burring, and finishing challenges.

Weiler Abrasives Group's heritage dates to 1879. Today, the tradition of excellence continues under the fourth generation of family ownership. "While the company has grown and expanded significantly since those humble beginnings, our commitment to developing long-term partnerships with customers, co-workers, and community hasn't changed." Chris Weiler, Executive Chairman, Weiler Abrasives Group.

OUR PURPOSE

To make a difference every day by Leading the Weiler Way, improving the lives of our customers, co-workers, and communities.

OUR VISION & MISSION

To be the global market leader in abrasives by being the best partner our end-users and distributors have, period.



Today Weiler Abrasives Group is a global manufacturer of surface conditioning solutions with customers in over 80 countries.



Whether you are looking to improve your surface conditioning processes, optimize your abrasives consumable spend, or train your team on the safe and proper use of abrasives and brushes Weiler Abrasives has a program to help you achieve your goals.





WEILER CONSUMABLE PRODUCTIVITY

The WCP program helps facilities find cost and time savings in their fabrication operations when they don't have the resources or process to quantify results. WCP is a proven process that effectively and efficiently measures real-world data. This program takes minimal effort to deploy in your facility because abrasives experts implement it.

Through a simple, yet effective approach the WCP program identifies improvements by evaluating your operations and how abrasives are used in your facility.

- On-site assessment
- Test abrasives
- Quantify impact
- Present documented cost & time savings





WEILER SPOT SAFETY TRAINING

The SPOT safety training program is designed to educate operators on how to use abrasives and brushes safely and effectively. The program covers information on proper usage, potential hazards, and safety tips.

By completing the SPOT Safety Training Program, participants will be able to:

- Understand the basic principles of abrasive and brush safety
- Identify potential hazards before an incident occurs
- Implement safe work practices to avoid accidents and injuries





WEILER PROCESS SOLUTIONS

The Weiler Process Solutions (WPS) program delivers customized solutions based on your specific application needs. The program leverages the latest technology and on-site technical expertise to optimize high-volume production manufacturing processes for customers. WPS makes it easier to achieve your cost savings and productivity improvement goals.

- Reduce cycle times and eliminate production bottlenecks to improve throughput
- Reduce total cost per part
- Minimize rework and reduce waste
- Improve energy efficiency and sustainability for your business
- Reduce working capital commitment by optimizing consumable inventory
- Reduce process variability to improve part quality and consistency

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LEARN MORE: WEILERABRASIVES.COM

HOW CAN WE HELP YOU? CONTACT US TODAY!

To place an order or locate a distributor in your area, contact our Customer Experience Team at 800-835-9999 or orders@weilerabrasives.com.

For more information and to schedule a consultation with a Weiler Process Solutions expert visit: weilerabrasives.com/wps.

To discuss specific requirements with a specialist call: 800-835.9999.



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.

SAFETY STANDARDS - ESTABLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE

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 "Power Tools Power Driven Brushing Tools - Safety Requirements for Design, Care and Use"
- ANSI B7.1 "Safety Requirements For the Use, Care and Protection of Abrasive Wheels"

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.

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.





DELIVERING VALUE TO GLOBAL MARKETS

Weiler Abrasives works in various industrial settings across the globe to solve tough challenges, enabling businesses like yours to get more done, more efficiently.

Aerospace

Heavy Equipment

Automotive

Manufacturing

Building & Construction

Pipeline Construction

Facility Maintenance

Power Generation

Food & Pharma

Primary Metals

Foundry

Pressure Vessel

Gear

Ship Building

General Fabrication

Transportation



WHAT'S NEW?



Pages 10-20

TIGER 2.0

An evolution in abrasives technology – designed to be more than just a better product. It was created to help you do your best work.



Page 19

MILL SCALE GRINDING WHEELS

Mill Scale wheels are designed to quickly and efficiently remove mill scale from hot-rolled carbon steel. A circular studded design aggressively cuts through the hard surface and prevents loading or glazing.



Pages 48-49

BLENDING DISCS

These improved discs deliver faster material removal and longer product life. They provide the performance needed for increased productivity when grinding and blending in hard-to-reach areas.



NON-WOVEN STRIP DISCS

These discs deliver unmatched cleaning power and product life for steel and stainless steel.

GEAR GRINDING



Cutting Lead Times and Offering Piece of Mind.

Precision Express is our answer to the industry challenge of waiting months for a gear grinding wheel. We understand the urgency of servicing your customers, so we prioritize "on-time" delivery of our precision gear grinding wheels directly to you. Precision Express matches an in-house profiling cell with on-hand stock, cutting your lead times from months to days. Whether you see a spike in demand or need a custom profile at a moment's notice, you can count on us.



"The key differentiator is lead time.

We can't be waiting for a grinding wheel
and then miss our customer's date."



INDUSTRIAL GRINDING WHEELS

DRIVING PRODUCTIVITY

People who take work seriously partner with Weiler Abrasives. We work collaboratively to help solve our customers' biggest challenges.

We understand that every production operation is different, so is every production challenge. One solution does not fit all. Weiler experts can examine your specific production and product challenges and develop customized solutions that optimize your operation.

Together we will maximize productivity enabling your business to be more efficient and ultimately more profitable.

WORLD-CLASS CAPABILITIES

- Best-in-class lead-times
- CNC finishing
- On-site technical support
- Precision tolerances
- Extensive R&D capabilities
- Green manufacturing footprint
- Unrivaled safety inspection
- Global distribution network
- Custom wheel shapes
- Newest abrasive and bond technologies



PRECISION VITRIFIED

Weiler's precision vitrified products use high performance bonding components paired with advanced abrasives to provide the most competitive products in the market. These products are designed to maximize cut rate, reduce cycles times, increase depth of cut, reduce dressing cost and improve surface finish.

Products: Standard and custom profiles that are all CNC finished to tight tolerances with the ability to produce up to 50" diameter wheels



HOT PRESSED CONDITIONING

Weiler specializes in designing high performance conditioning wheels for stainless steel, specialty alloy, carbon steel and titanium applications. These wheels remove hard oxide scale formed in the process of casting slabs, ingots and bars in primary metals facilities.

Products: 24", 25", and 36" diameter hot press metal conditioning wheels



HIGH PERFORMANCE ROLL GRINDING

Weiler produces high performance roll grinding technology for both cold mill and hot mill applications. These wheels are designed to work on rolls ranging from iron roll to specialty tool steel rolls. Our unique technology will maximize your process efficiency and provide substantial cost savings.

Products: Resin and vitrified bonded wheels 30"-42" in diameter



GEAR GRINDING

Utilize Weiler's full line of Gear Grinding Solutions to maximize machine efficiency with high performance products that fit all gear grinding applications.

Products: Single profile, bevel, worm (continuous), honing, and hob sharpening products that are designed to pair with any gear grinding machine.



CUT THROUGH BARRIERS BETWEEN YOU AND YOUR BEST WORK

Introducing Tiger 2.0 — An evolution in abrasives technology. It was designed to be more than just a better product. It was created to help you do your best work.

CUT THROUGH INEFFICIENCY

Tiger 2.0's unique formulation provides the same fast cutting speed, while lasting up to 40% longer. And it's industry first, patent pending optimal use line ensures you get more done with less.

CUT THROUGH SAFETY ISSUES

Tiger 2.0 delivers predictable, smooth cutting and grinding, making the work safer. And it now has a QR code so operators can access crucial safety information right where — and when — they need it.

CUT THROUGH LABOR SHORTAGES

Tiger 2.0 makes cutting and grinding easier, which means operators aren't as worn out at the end of each shift. The unique formulation also produces more consistent work from user to user, reducing training time and even re-work.



Tiger 2.0 cuts through the barriers holding you back from realizing gains while reducing costs. In some cases, users are seeing **3 times more efficiency** over their previous abrasives.





FAST SPEED LONGER LIFE

Up to **40% longer wheel life** reduces change-overs and delivers more cuts.



Tiger 2.0

Industry Standard

ANTI-CHIPPING TECHNOLOGY

Advanced 2.0 bond formulation reduces unever

Advanced 2.0 bond formulation reduces uneven edge wear and chipping, improving user experience and extending wheel life.



SELECTING THE RIGHT WHEEL

Weiler's bonded abrasive wheels help Metal Fabrication professionals get the most demanding jobs done right, and done fast. Our high quality line helps you select the best solution for your toughest jobs. Whether you're looking for serious stock removal, beveling, grinding, notching, cutting or edge softening, Weiler will get it done for you.









TIGER® CERAMIC

Self-sharpening and cool – grinds at lower temperatures with less friction and less effort, reducing heat discoloration of the work piece.

GRAIN TYPE Ceramic alumina

CONTAMINANT FREE CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

BEST ON

STEEL / METAL

Hard-to-Grind metals include tool steel, inconel, high nickel alloy, titanium and armored steel

TIGER® PIPELINE

Designed for bead and angle grinding applications on the pipeline.

GRAIN TYPE

Zirconia alumina + ceramic alumina infusion

BEST ON STEEL / METAL

HIGH PERFORMANCE FAST CUT & LONG LIFE



TIGER ZIRC

Self-sharpening grains retain a high cut rate throughout the life of the wheel for exceptional performance.

GRAIN TYPE

Cutting/Combo: Zirconia alumina Grinding: Zirconia alumina + ceramic alumina infusion

BEST ON

STEEL / METAL

includes structural steel and cast iron

TIGER INOX

Tiger INOX wheels deliver a worry-free solution for stainless steel applications.

GRAIN TYPE

White aluminum oxide



BEST ON

STAINLESS

and harder grade steel



Weiler's non-loading formula delivers a fast and consistent cut rate on aluminum and soft alloys.

GRAIN TYPE

Silicon carbide / aluminum oxide blend

CONTAMINANT FREE CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

BEST ON ALUMINUM







TIGER AO

Tiger wheels provide an even, sharp, clean cut and a hard bond extends wheel life.

GRAIN TYPE

Aluminum oxide

BEST ON

STEEL / METAL



VALUE FAST CUT



LIFE: • • • • •

WOLVERINE®

Fast cut rate and consistent performance at a good value.

GRAIN TYPE

Aluminum oxide

BEST ON STEEL / METAL









TYPE

Cutting Type 1 (Flat) Type 27 (Depressed Center)

Flat profile allows for deep cuts

Added clearance when working at a constrained angle

13,300

Grinding

Type 27 (Depressed Center)

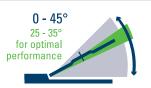
Product code

Manufacturer

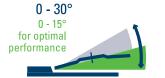
Barcode

Type 28 (Depressed Center)

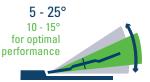
Type 29 (Depressed Center)



Flat profile with depressed center allows for a wide range of grinding angles (0-45)



Designed for increased aggression at lower working angles and increased access



Increases surface contact, deters gouging, and improves operator comfort

Maximum

Maximum

rotation speed

peripheral speed

Safety QR code

Type 11 Cup







e Type 17 Cone



WEILER

Type 18 Plug Grinding Face



Type 18R Plug Grinding Face

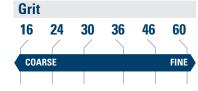
BONDED ABRASIVES



GRAIN / GRIT / GRADE

Selecting the best grain, grit and grade combination for your application can increase wheel effectiveness and user productivity. Use the charts below to help pick the right wheel for the job.







APPLICATION

When selecting a wheel, always choose the thinnest wheel that will perform the cut while maintaining desired product life.

ULTRA THIN WHEEL 1MM **THIN THIN WHEEL WHEEL**.045" .060"

CUTTING WHEEL 3/32" PIPELINE NOTCHING WHEEL 1/8"

COMBO WHEEL 1/8" PIPELINE NOTCHING WHEEL 1/8"

GRINDING WHEEL 1/4"

CONES & PLUGS

CUP

NYLOX BRUSHES



Sheet metal, tubes, profiles and small cross-section rods

Tubes, bar stock and large cross-sections

Angle Iron, large cross-sections Notching

Switching between cutting and grinding

For tough root pass notching & facing

or tough root pass on tothing & facing applications on the pipeline here. Heavy stock, scale and weld removal, weld blending, edge beveling and torch-cut softening



I.D. cleaning, hole edge beveling, smoothing weld seams, removing gates & parting lines



Heavy metal removal, grinding, transitioning, rough beveling & removing crack & flaws



UltraCut wheel making precision cuts on steel tube stock.

TIGER

Weiler's diverse line of cutting wheels provides consistent, well-balanced, high quality solutions. From our 1-millimeter cutting wheels that slice through metal to our large diameter wheels for the biggest cuts, professionals get the most demanding jobs done right and done fast.



FEATURES:

- · Additional fiberglass reinforcement provides added strength for aggressive cutting
- Smooth outer layer reduces friction for an **effortless cut and less kickback** during operation
- 20 Optimum Use Line helps maximize wheel life, improving productivity and sustainability
- Longer wheel life reduces change-overs and delivers more cuts

1MM CUTTING WHEELS



HIGH PERFORMANCE THIN CUTTING

TYPE 1
7/8" Arbor

Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #
4-1/2"	1 mm	Z60T	13,300	50	58005
5"	1 mm	Z60T	12,200	50	58006

STAINLESS GE	K INUX ULI KACUT	IMM / Contamina	nt-free*		
4-1/2"	1 mm	INOX60T	13,300	50	58130
5"	1 mm	INOX60T	12,200	50	58131

^{*}Contaminant-free (Contains less than 0.1% Fe, S, CI)



15



NEW 2.0 BOLD items only.

MAX PERFORMANCE CUTTING

STEEL / META	TIGER° CI	EBVMIC		TYF 7/8" /	E 1 Arbor	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub		
STAINLESS		Life & Cut		770 711301		7/0 2	11001			
HARD-TO-CU		nant-free*								
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #	
4-1/2"	.045"	CER60S	13,300	25	58300	25	58305	10	58306	
5"	.045"	CER60S	12,200	25	58301	25	58307	10	58308	
6"	.045"	CER60S	10,200	25	58302	25	58309	10	58310	
7"	.060"	CER60S	8,600	25	58303	25	58311	10	58312	



58300

NEW 2.0 BOLD items only.

P	HIGH PE	RFORMA	ANCE CU	ITTING	TYP 7/8" <i>I</i>	PE 1 Arbor	TYPI 7/8" <i>A</i>		TYP! 5/8"-1	
	STEEL / META	TIGER ZI	RC / Fast Co	ut & Long Life						
	Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #
	4-1/2"	.045"	Z60T	13,300	25	58000	25	58020	10	58030
	5"	.045"	Z60T	12,200	25	58001	25	58021	10	58031
	6"	.045"	Z60T	10,200	25	58002	25	58022	10	58032
	7"	.060"	Z60T	8,600	25	58003	25	58023	10	58033
	STAINLESS	TIGER IN	OX / Conta	aminant-fre	e*					
	4-1/2"	.045"	INOX60S	13,300	25	58100	25	58110	10	58109
	5"	.045"	INOX60S	12,200	25	58101	25	58111		_
	6"	.045"	INOX60S	10,200	25	58102	25	58112	10	58113
	7"	.060"	INOX60S	8,600	25	58103	25	58107	_	_
	ALUMINUM	TIGER AI	UMINUM	/ Non-loadin	g / Contam	inant-free	*			
	4-1/2"	.045"	ALU60S	13,300	25	58200	25	58205	10	58206
	5"	.045"	ALU60S	12,200	25	58201			_	
	6"	.045"	ALU60S	10,200	25	58202	25	58209	10	58210
	7"	.060"	ALU60S	8,600	25	58203	_	_	_	



TYPE 27 **5/8"-11 Hub**

NEW 2.0 BOLD items only.

P	PERFOR	MANCE	CUTTING				TYF 7/8" /		TYPE 27 7/8" Arbor		
	STEEL / META	TIGER AC) / Long Lif	e		-			_		
	Diameter	Thickness	Grado	May	DDM	Ctd	Dack	Itom #	Ctd Dac	/ Itom #	(

STEEL / META	TIGER A) / Long Lif	е				_		
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	.045"	A60T	13,300	25	57020	25	57041	10	57040
	1/16"	A36T		25	57061	_	_		_
	3/32"	A36S		_	_	25	57081	10	57080
5"	.045"	A60T	12,200	25	57021	25	57043	10	57042
	3/32"	A36S		_	_	25	57083	10	57082
6"	.045"	A60T	10,200	25	57022	25	57045	10	57044
7"	.060"	A60T	8,600	25	57023	25	57046	10	57048
9"	1/16"	A60T	6,600	_	_	25	57047	10	57049



V CUTTING

CUTTING				TYI			E 27	
STEEL / METAL	WOLVERINE* A	40 / Fast Cuttir	ng	5/8" Arbor			5/8" Arbor	
Dia.	Thickness	Grade	Max. RPM	Pack	Item #	Pack	Item #	
4"	.035"	A60T	15,300	25	56271	_	_	
4"	3/32"	A24T	15,200	_	_	25	56474	
5"	U32.	VEUL	12 200	25	56108			

A STATE OF THE PARTY OF THE PAR
MOLVEFINE FAST GUI
AZIT
10.0
WEILER
56474

CUTTING	G			TYP 7/8" /		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
STEEL / META	WOLVER WOLVER	INE AO / F	ast Cutting						
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	.045"	A60T	13,300	25	56281	_	_	_	_
	.045"	A60S		_	_	25	56393	_	_
	1/16"	A60T		25	56103	_	_	_	_
	3/32"	A24T		_	_	25	56475	10	56385
5"	.045"	A60S	12,200	_	_	25	56392	_	_
	1/16"	A36T		25	56118	_	_	_	_
	3/32"	A24T		_	_	25	56476	10	56384
6"	.040"	A60T	10,200	25	56282	_	_	_	
	.045"	A60T		25	56273	_	_	_	_
	.045"	A60S		_	_	25	56283	_	_
	3/32"	A24R		_	_	25	56277	10	56278
7"	.045"	A60T	8,600	25	56275	_	_	_	_
	.060"	A60S		_	_	25	56391	_	_
	3/32"	A24R		_	_	25	56383	10	56477
9"	1/8"	A24T	6,600	_	_	_	_	10	56423





MAX PERFORMANCE CUTTING

STEEL / METAL	TICED® CEDARA	10						
STAINLESS	TIGER® CERAM Superior Life &				PE 1 Arbor	TYPE 1 3/8" Arbor		
HARD-TO-CUT	Contaminant-f			1/4	ATDOI			
Dia.	Thickness	Grade	Max. RPM	Pack	Item #	Pack	Item #	
3"	1/16"	CER36T	25,000	100	58345	100	58342	
4"	1/16"	CER36T	19,000	_	_	25	58348	

TYPF 1

TYPE 1

TYPE 1

TYPF 1

TYPE 1

TYPE 1



3/8" Arbor 1/4" Arbor STEEL / METAL TIGER ZIRC / Fast Cut & Long Life Thickness Grade Max. RPM Pack Item # **Pack** Item # 25.000 100 58011 58012 100 19,000 25 58014 58013



PERFORMANCE CUTTING

EEL / METAL	TIGER AO / Lo	ng Life		1/4"	Arbor	3/8"	Arbor
Dia.	Thickness	Grade	Max. RPM	Pack	Item #	Pack	Item #
2"	.035"	A60T	30,000	100	57014	100	57010
	1/16"	A36T			57015		57011
	1/8"	A36T			57016		57012
3"	.035"	A60T	25,000	100	_	100	57001
	1/16"	A36T			57066		57060
	1/8"	A36T			57068		57063
4"	.035"	A60T	19,000	25	57075	25	57070
	1/16"	A36T			_		57071
	1/8"	V36T					57072



VALUE CUTTING

EL / METAL	WOLVERINE® A	\O / Fast Cut		1/4"	Arbor	3/8" Arbor		
Dia.	Thickness	Grade	Max. RPM	Pack	Item #	Pack	Item #	
2"	.035"	A60T	30,000	100	56013	100	56128	
	1/16"	A36T		100	56015	100	56129	
	1/8"	A36S		100	56022	100	56130	
3"	.035"	A60T	25,000	100	56061	100	56062	
	1/16"	A36T		100	56065	100	56068	
	1/16"	A60T		_	_	100	56070	
	1/8"	A36T		_	_	100	56076	
	1/8"	A36S		50	56060	_	_	
4"	.035"	A60T	19,000	25	56165	25	56080	
	1/16"	A36T		25	56166 •	25	56086	
	1/8"	A36T		_	_	25	56099	
	1/8"	A36S		_	_	_	_	



DIAMETER SNAGGING WHEELS





	ERFORMANCE SNAGGING TEEL/METAL TIGER AO / Long Life			TYF 1/4"			TYPE 1 TYPE 27 3/8" Arbor 3/8" Arb		
STEEL / META	TIGER A	D / Long Life	Э	-		-			—
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #
3"	1/4"	A24T	25,000	_	_	40	57064	_	_
4"	1/4"	A24T	15,300	-	-	10	57073	10	57074



V VALUE SNAGGING

3/8" Arbor STEEL / METAL WOLVERINE® AO / Fast Cutting Dia. Thickness Grade Max. RPM Pack Item # 1/4" A36R 56131 30,000 40 1/4" A24T 40 56064 4' 1/4 A36T 56163 15,300

TYPE 1





PERFORMANCE CUTTING

STEEL / META	STEEL/METAL TIGER AO / Long Life											
Diameter	Thickness	Arbor	Grade	Description	Max. RPM	Std. Pack	Item #					
12"	3/32"	1"	A36T	Long Life Cutting	5,100	10	57090					
14"	3/32"	1"	A36T	Long Life Cutting	4,400	10	57092					
14"	3/32"	1"	A36R	Smooth Cutting	4,400	10	57093 ◆					
14"	3/32"	1"	EA36T	Fast Cut & Long Life	4,400	10	57086					
16"	3/32"	1"	A36P	Long Life Cutting	3,850	10	57087					

Softer bond for smoother, faster cutting.

TYPE 1

TYPE 1

TYPE 1

TYPE 1

CUTTING

STEEL / META	STEEL/METAL WOLVERINE AO / Fast Cutting											
Diameter	Thickness	Arbor	Grade	Description	Max. RPM	Std. Pack	Item #					
12"	3/32"	1"	A46T	Fast Cutting	5,100	10	56239					
14"	3/32"	1"	A46T	Fast Cutting	4,400	10	56240					
14"	3/32"	1"	A46T	Single Center Reinforcement For + Speed	4,400	10	56247					





HIGH PERFORMANCE CUTTING

STEEL/METAL TIGER ZIRC / Fast Cut & Long Life / Rail Cutting										
Diameter	Thickness	Arbor	Grade	Description	Max. RPM	Std. Pack	Item #			
14"	1/8"	1"	Z24U	Rail Cutting	5,500	10	58028			
16"	1/8"	1"	Z24U	Rail Cutting	4,800	10	58029			

PERFORMANCE CUTTING

STEEL/METAL TIGER AO / Long Life											
Diameter	Thickness	Arbor	Grade	Description	Max. RPM	Std. Pack	Item#				
12"	1/8"	1"	A30T	Long Life Cutting	6,400	10	57030				
14"	1/8"	1"	A30T	Long Life Cutting	5,500	10	57032				
14"	1/8"	20 mm	A30T	Long Life Cutting	5,500	10	57094				
14"	1/8"	20 mm	A30T	Triple Reinforcement For + Support	5,500	10	57035				



PERFORMANCE CUTTING

i Lili Oli	WAITOL	0011114				TYP	E 1	
STEEL / METAL TIGER AO / Long Life								
Diameter	Thickness	Arbor	Grade	Description	Max. RPM	Std. Pack	Item #	
14"	1/8"	1"	A30R	Long Life Cutting	4,400	10	57091	
20"	1/8"	1"	A30S	Long Life Cutting	3.100	10	57097	

CUTTING

	_					TYP	E1
STEEL / META	WOLVER WOLVER	INE AO / F	ast Cutting				
Diameter	Thickness	Arbor	Grade	Description	Max. RPM	Std. Pack	Item #
14"	1/8"	1"	A30R	Fast Cutting	4,400	10	56230









Weld blending on a stainless pressure tank with a Tiger Ceramic grinding wheel.

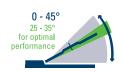
GRINDING WHEELS 0-45°

Whether you're looking for serious stock removal, beveling, grinding, or notching, Weiler's grinding will help get the most demanding jobs done right and done fast.

- Fiberglass cut back design provides aggressive grinding right out of the box (Tiger 27 grinding wheels only)
- Triple fiberglass reinforcement *increases user safety*
- 20 Optimum Use Line helps maximize wheel life, improving productivity and sustainability
- Longer wheel life reduces change-overs and removes more material
- 20 Advanced 2.0 bond formulation *reduces uneven edge wear and chipping*, improving operator experience and extending wheel life









grinding on new wheels



NEW 2.0 BOLD items only.



STEEL / METAL TIGER* CERAMIC / STAINLESS Superior Life & Cut Contaminant-free*				TYP 5/8" /		TYP 7/8" <i>I</i>			TYPE 27 5/8"-11 Hub	
Dia.	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #	
4"	1/4"	CER24R	15,300	10	58335	_	_	_	_	
4-1/2"	1/4"	CER24R	13,300	_	_	10	58325	10	58326	
5"	1/4"	CER24R	12,200	_	_	10	58327	10	58328	
6"	1/4"	CER24R	10,200	_	_	10	58329	10	58330	
7"	1/4"	CER24R	8,600	_	_	10	58331	10	58332	
9"	1/4"	CER24R	6,600	_	_	10	58333	10	58334	



HIGH PERFORMANCE

GRINDING			TYP		TYPI			TYPE 27		
STEEL / N	METAL TIGER	ZIRC / Ce	ramic-infused	5/8" /	Arbor	7/8" <i>F</i>	Arbor	5/8"-11 Hub		
	& Long Life						_			
Dia.	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #	
4"	1/4"	Z24T	15,300	10	58069	_	_	_	_	
4-1/2"	1/4"	Z24T	13,300	_	_	10	58071	10	58070	
5"	1/4"	Z24T	12,200	_	_	10	58073	10	58072	
6"	1/4"	Z24T	10,200	_	_	10	58079	10	58078	
7"	1/4"	Z24T	8,600	_	_	10	58075	10	58074	
9"	1/4"	Z24T	6,650	_	_	10	68384	10	68385	
STAINL	ESS TIGE	R INOX / C	ontaminant-f	ree*						
4-1/2"	1/4"	INOX24R	13,300	_	_	10	58121	10	58120	
5"	1/4"	INOX24R	12,200	_		10	58123	10	58122	
6"	1/4"	INOX24R	10,200	_	_	10	58129	10	58128 •	
7"	1/4"	INOX24R	8,600	_	_	10	58125	10	58124	

/"	1/4"	INUX24R	8,600	_	_	10	58125	10	58124			
ALUMIN	ALUMINUM TIGER ALUMINUM / Non-loading / Contaminant-free*											
4-1/2"	1/4"	ALU24R	13,300	_	_	10	58225	10	58226			
5"	1/4"	ALU24R	12,200	_	_	10	58227	10	58228			
6"	1/4"	ALU24R	10,200	_	_	10	58229	10	58230			
	4-1/2" 5"	ALUMINUM TIGER 4-1/2" 1/4" 5" 1/4"	ALUMINUM TIGER ALUMINU 4-1/2" 1/4" ALU24R 5" 1/4" ALU24R	4-1/2" 1/4" ALU24R 13,300 5" 1/4" ALU24R 12,200	ALUMINUM TIGER ALUMINUM / Non-loading / Conta 4-1/2" 1/4" ALU24R 13,300 — 5" 1/4" ALU24R 12,200 —	ALUMINUM TIGER ALUMINUM / Non-loading / Contaminant-free 4-1/2" 1/4" ALU24R 13,300 — — —	ALUMINUM TIGER ALUMINUM Non-loading Contaminant-free*	ALUMINUM TIGER ALUMINUM / Non-loading / Contaminant-free* 4-1/2" 1/4" ALU24R 13,300 — — 10 58225 5" 1/4" ALU24R 12,200 — — 10 58227	ALUMINUM TIGER ALUMINUM / Non-loading / Contaminant-free* 4-1/2" 1/4" ALU24R 13,300 — 10 58225 10 5" 1/4" ALU24R 12,200 — 10 58227 10			

58225

NEW 2.0 BOLD items only.

GRINDING

4-1/2

4-1/2

5'

6"

STEEL/METAL WOLVERINE® AO / Fast Cutting

Thickness

1/4

1/4'

1/4

1/4'

1/4'

Grade

A24R

A24R

A24N

A24R

A24R

A24R

A24R

Max. RPM

13,300

6,600

PEKF	JKMANC	E GKIN	DING		TYPE 27 TYPI 5/8" Arbor 7/8" A			E 27 TYPE Arbor 5/8"-11	
STEEL / N	METAL TIGER	RAO / Long	g Life						
Dia.	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	1/4"	A24R	13,300	_	_	10	57121	10	57120
5"	1/4"	A24R	12,200	_	_	10	57123	10	57122
6"	1/4"	A24R	10,200	_	_	10	57129	10	57128
7"	1/4"	A24R	8,600	_	_	10	57125	10	57124
9"	1/4"	A24R	6,650	_		10	68376	10	68377

TYPE 27

5/8" Arbor

Item#

56473

Std. Pack

TYPE 27

7/8" Arhor

Item #

56457

56280

56467

56469 •

Std. Pack

10

TYPE 28

7/8" Arbor



_	
m #	
_	
454	
455	
449	
279	
468	
470	

TYPE 27

5/8"-11 Hub

56

56 56

56

56

Std. Pack

10

10

TYPE 28

5/8"-11 Hub

WOLVERINE 56473

TYPE 28 -



NEW 2.0 BOLD items only.

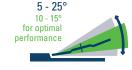
P	HIGH PERFORMANCE GRINDING
	STEEL/METAL TIGER® ZIRC / Ceramic-infused
	Fast Cut & Long Life

Max. RPM Item # Std. Pack Diameter **Thickness** Grade Std. Pack Item # 58081 58080 8.600 Z24T 58083 • 58082

NEW 2.0 BOLD items only.

ANCE GRII	NDING		TYPE 28 7/8" Arbor		TYPE 28 5/8"-11 Hub	
TIGER AO / Lo	ong Life					
Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #
1/4"	A24R	8,600	10	57135	10	57134
	TIGER AO / Lo		TIGER AO / Long Life Thickness Grade Max. RPM	ANCE GRINDING 7/8" / TIGER AO / Long Life Thickness Grade Max. RPM Std. Pack	TIGER AO / Long Life Thickness Grade Max. RPM Std. Pack Item #	ANCE GRINDING 7/8" Arbor 5/8"-1 TIGER AO / Long Life Thickness Grade Max. RPM Std. Pack Item # Std. Pack

STEEL / METAL	TIGER AO / Lo	ng Life					
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #
7"	1/4"	A24R	8,600	10	57135	10	57134
9"	1/4"	A24R	6,600	10	57137	10	57136



TYPE 29 5/8"-11 Hub

Weiler Tiger mill scale wheels are designed to quickly and efficiently remove mill scale from hot-rolled carbon steel. A circular studded design aggressively cuts through the hard surface and prevents loading or glazing. The wheel's type 29 curved shape increases the contact area, maximizes material removal rates, improves operator comfort, and deters gouging. Its Thin Wheel 2.0 formulation increases life and anchors the zirconia alumina grains, which selfsharpen as the wheel wears, ensuring a consistent, high cut rate for the entire life of the wheel.

These wheels offer a high-performance solution for removing tough mill scale, increasing productivity, ensuring proper coating adhesion, and improving the quality of critical welds.

NEW



STEEL / METAL TIGER ZIRC / Fast Cut & Long Life

Dia.	Thickness	Grade	Max. RPM	Std. Pack	Item #
4-1/2"	1/8"	MILL30T	13,300	10	58086
5"	1/8"	MILL30T	12,200	10	58087
6"	1/8"	MILL30T	10,200	10	58088



WEILER

57134

TIGER

19



Back gouging a steel plate with a Tiger combo wheel.

58315

58114

58215

COMBO WHEELS 0-45° (90°)

Weiler's combination wheels offer flexibility and efficiency when switching between cutting and grinding applications.

FEATURES:

- 20 Optimum Use Line helps maximize wheel life, improving productivity and sustainability
- Longer wheel life reduces change-overs and removes more material

CUT & GRIND COMBO WHEELS



NEW 2.0 BOLD items only.

P MAX PERFORMANCE CUT / GRIND COMBO

STEEL / METAL STAINLESS HARD-TO-GRIND	Superior Lite & (JUT		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	1/8"	CER30T	13,300	25	58315	10	58316
5"	1/8"	CER30T	12,200	25	58317	10	58318
6"	1/8"	CER30T	10,200	25	58319	10	58320
7"	1/8"	CER30T	8,600	25	58321	10	58322
9"	1/8"	CER30T	6.600	25	58323	10	58324

NEW 2.0 BOLD items only.

HIGH PERI	FORMANC	E CUT / GR	30 TYPI 7/8" A	TYPE 27 7/8" Arbor		27 I Hub				
STEEL / METAL	TIGER ZIRC / F	_								
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #			
4-1/2"	1/8"	Z30T	13,300	25	58051	10	58050			
5"	1/8"	Z30T	12,200	25	58053	10	58052			
6"	1/8"	Z30T	10,200	25	58064	10	58054			
7"	1/8"	Z30T	8,600	25	58056	10	58055			
9"	1/8"	Z30T	6,650	25	68382	10	68383			
STAINLESS	STAINLESS TIGER INOX / Contaminant-free*									
4-1/2"	1/8"	INOX30T	13,300	25	58115	10	58114			
ALUMINUM	ALUMINUM TIGER ALUMINUM / Non-loading / Contaminant-free*									
4-1/2"	1/8"	ALU30T	13,300	25	58215	10	58216			

NEW 2.0 BOLD items only.

PERFORM	ANCE CUT	/ GRIND C	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub		
STEEL / METAL	TIGER AO / Lo	ong Life		- -			
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item#
4-1/2"	1/8"	A30S	13,300	25	57101	10	57100
5"	1/8"	A30S	12,200	25	57103	10	57102
6"	1/8"	A30S	10,200	25	57109	10	57108
7"	1/8"	A30S	8,600	25	57105	10	57104
9"	1/8"	A30S	6,650	25	68374	10	68375



TIGER

			7/8" Arbor		5/8"-11 Hub	
WOLVERINE® A	10 / Fast Cutti	ng				
Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #
1/8"	A24T	13,300	25	56430	10	56429
1/8"	A24T	12,200	25	56428	10	56427
1/8"	A24T	8,600	25	56426	10	56425
1/8"	A24T	6,600	25	56424	10	56423
	WOLVERINE* A Thickness 1/8" 1/8" 1/8"	Thickness Grade 1/8" A24T 1/8" A24T 1/8" A24T 1/8" A24T	WOLVERINE® A0 / Fast Cutting Thickness Grade Max. RPM 1/8" A24T 13,300 1/8" A24T 12,200 1/8" A24T 8,600	WOLVERINE® A0 / Fast Cutting Thickness Grade Max. RPM Std. Pack 1/8" A24T 13,300 25 1/8" A24T 12,200 25 1/8" A24T 8,600 25	WOLVERINE® A0 / Fast Cutting Thickness Grade Max. RPM Std. Pack Item # 1/8" A24T 13,300 25 56430 1/8" A24T 12,200 25 56428 1/8" A24T 8,600 25 56426	WOLVERINE® A0 / Fast Cutting Thickness Grade Max. RPM Std. Pack Item # Std. Pack 1/8" A24T 13,300 25 56430 10 1/8" A24T 12,200 25 56428 10 1/8" A24T 8,600 25 56426 10

TVDE 27

TVDE 27



Weiler's Pipeline Grinding Wheels are designed specifically for pipeline applications. Whether grinding a bead, facing the land, prepping transitions, or fabricating in the yard, this wheel is ready to work out of the box, delivering consistent, aggressive grinding throughout the life of the wheel, eliminating the need to chip it.

One Wheel for





GRINDING NOTCHING

TYPE 27

5/8"-11 Nut

FEATURES:

- **Do Not Chip** Operators will no longer feel the need to chip the wheel to get it to bite.
- Reduced Chatter A unique bond formulation delivers reduced vibration for the entire life of the wheel for a better grinding experience.
- **Superior Life & Cut** A blend of zirconia alumina and ceramic grains bite into the bead and dig out the wagon tracks fast while the strong bond delivers long wheel life.

HIGH PERFORMANCE PIPELINE GRINDING WHEELS

STEEL/METAL TIGER* ZIRC / Ceramic-infused / Fast Grinding & Long Life on Pipe

 Diameter
 Thickness
 Grade
 Max. RPM
 Std. Pack
 Item #

 4-1/2"
 1/8"
 Z30T
 13,300
 10
 58090

 6"
 1/8"
 Z30T
 10,200
 10
 58092

 7"
 1/8"
 Z30T
 8,600
 10
 58094





Weiler's Tiger Mech Wheels are designed for notching applications on mechanical pipe welds. These high-performance wheels are thinner than standard pipe notching wheels, allowing the operator to grind the bead without widening or scarring the bevel.



FEATURES:

- **Designed to Fit** Tiger Mech reaches the bead without widening the bevel.
- **Optimized Performance** Designed specifically to grind starts and stops on J and K bevels.
- Superior Life & Cut A blend of Zirconia Alumina and Ceramic grains bite into the bead fast while the strong bond delivers long wheel life.

HIGH PERFORMANCE MECH NOTCHING WHEELS

STEEL / METAL TIGER ZIRC / Caramic influence / Notching Machanized Pine Wolds

Diameter	Th	iaknasa	Crada		A DDM	Т
STEEL/ METAL	TIGER ZIRC /	' Ceramic-infu	ised / Notching	Mechanized	d Pipe Welds	

Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #
4-1/2"	3/32"+	Z30T	13,300	10	58066
7"	3/32"+	Z30T	8,600	10	58068

+ Specific size for mechanized pipe welds

TYPE 27

5/8"-11 Nut

ACCESSORIES

ADAPTING NUTS & SPANNER WRENCH For 4" - 6" Angle Grinders.

Description	Adapts To	Min. Wheel Thickness	Standard Pack	Item Number
Adapting Nuts	5/8" to 3/8"-24	.045"	1	56484
Adapting Nuts	7/8" to 5/8"-11	.045"	1	56494
Spanner Wrench	_	-	1	56495

MOUNTING MANDRELS 1/4" Stem. For Type 1 Wheels Only.

Arbor Size	Wheel Thickness	Standard Pack	Item Number
1/4"	1/8" to 1/4"	10	56489
3/8"	1/8" to 1/4"	10	56490
1/4", 3/8" *	1/8" to 1/4"	10	56491*

*Combination pack

ADAPTER for mounting Large Cutting Wheels onto a 20mm arbor.

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





5806







21

MAINIENANGE

Type 11 Cup Rock for snagging and heavy stock removal.

TYPE 11

BEST ON: Carbon steel, stainless steel, cast iron and ductile iron.





68356



CUPS, CONES & PLUGS - FOR METAL FABRICATION



Weiler Tiger cups, cones and plugs deliver the right combination of performance and value. Aluminum oxide grains in combination with a strong bond deliver long product life and a consistent cut-rate for grinding metal. Whether you are in a fab shop, foundry, or shipyard you can count on Tiger to get the job done fast and done right.

CUP FEATURES:

- **Precision balanced** to ensure smooth vibration free operation and reduced operator fatigue
- **Zinc plated nut** prevents oxidation, eliminating contamination and allowing for easy mounting
- Unique anchored safety nut locks the nut in place to increase safety and prevent product breakage

APPLICATIONS:

Ideal for heavy metal removal, grinding, transitioning, rough beveling and removing cracks/flaws



TYPE 11 FLARING CUP WHEELS

HIGH PERFORMANCE GRINDING

STEEL/METAL TIGER ZIRC / Fast Cut & Long Life

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Diameter	Thickness	Arbor	Rim	Back		Max.	Std.	
(D / J)	(T)	(H)	(W)	(E)	Grade	RPM	Pack	Item #
4" / 3"	2"	5/8"-11	3/4"	3/4"	ZA16Q	9,070	5	68352
5" / 3-3/4"	2"	5/8"-11	1"	3/4"	ZA160	7,260	5	68355
6" / 4-3/4"	2"	5/8"-11	1"	3/4"	ZA16Q	6,000	5	68358
6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	ZAC16Q	6,000	5	68361+
6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	ZA16R	6,000	5	68362
6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	ZA16Q	6,000	5	68364

⁺ Includes silicon carbide for burnt-in sand and hard-to-grind metals.

PERFORMANCE GRINDING

STEEL / METAL TIGER AO / Long Life

Diameter	Inickness	Arbor	KIM	Васк		iviax.	Sta.	
(D / J)	(T)	(H)	(W)	(E)	Grade	RPM	Pack	Item #
4" / 3"	2"	5/8"-11	3/4"	3/4"	A160	9,070	5	68350 •
5" / 3-3/4"	2"	5/8"-11	1"	3/4"	A160	7,260	5	68353
6" / 4-3/4"	2"	5/8"-11	1"	3/4"*	A160	6,000	5	68356
6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"*	A16Q	6,000	5	68359

^{*}Reinforced metal back

CUP WHEEL MOUNTING FLANGE - Fits over 5/8"-11 spindles

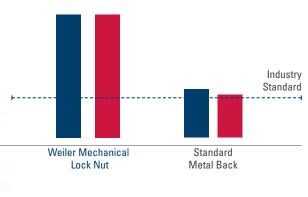
Diameter	Thickness	Std. Pack	Item #
2"	1/4"	1	73054 •

ANCHORED NUT INCREASES SAFETY

Our testing shows that the Weiler anchored safety nut outperformed the industry standard metal back:







- Up to 3X higher torque holding strength
- **Double speed burst** testing ratings

CONES AND PLUGS

FOR STRAIGHT & DIE GRINDERS



CONE & PLUG FEATURES:

- *Open face design* provides aggressive cut-rate right out of the box
- Anchored hexagon nut secures the abrasive to the tool to increase safety and prevent product breakage
- Precision balanced to ensure smooth, vibration free operation and reduced operator fatigue

APPLICATIONS: Ideal for ID cleaning, hole edge beveling, smoothing weld seams, removing gates and parting lines and cleaning castings in hard-to-reach places



Type 18R plug used to grind I.D. bevels and flatten surface on rail frog section.

TYPE 16 CONES

HIGH PERFORMANCE GRINDING

STEEL / METAL TIGER ZIRC TYPE 16 CONES / Fast Cut & Long Life

	· · · · · · · · · · · · · · · · · · ·					
Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #
1"	3"	3/8"-24 Nut	ZA20S	36,290	12	68301
1-1/2"	2-1/2"	5/8"-11 Nut	ZA20S	24,190	12	68304
1-1/2"	2"	3/8"-24 Nut	ZA20S	24,190	12	68306
1-1/2"	3"	5/8"-11 Nut	ZA20S	24,190	12	68308
2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68311
2-3/4"	3-1/2"	5/8"-11 Nut	ZA20S	13,195	12	68313





PERFORMANCE GRINDING STEEL/METAL TIGER AO / Long Life

TIGET AG / Long Life							
Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #	
1-1/2"	2-1/2"	5/8"-11 Nut	A24R	24,190	12	68303	
1-1/2"	3"	3/8"-24 Nut	A24R	24,190	12	68305	
1-1/2"	3"	5/8"-11 Nut	A24R	24,190	12	68307	
2"	3"	3/8"-24 Nut	A24R	18,145	12	68309	
2"	3"	5/8"-11 Nut	A24R	18,145	12	68310	
2-3/4"	3"	5/8"-11 Nut	A24R	13,195	12	68312	
3"	3"	5/8"-11 Nut	A24R	12,100	12	68314 •	



TYPE 17 CONES

HIGH PERFORMANCE GRINDING

STEEL / METAL TIGER ZIRC TYPE 17 CONES / Fast Cut & Long Life

Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #
2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68365

DERECRMANCE CRINDING STEEL/METAL .

PENFUNIVATIVE UNITABLE TIGER AU / Long Life								
Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #		
1-3/4"	3"	5/8"-11 Nut	A24R	20,740	12	68316		
2"	3"	5/8"-11 Nut	A24R	18,145	12	68317		





TYPE 18 PLUGS

HIGH PERFORMANCE GRINDING

STEEL / METAL TIGER ZIRC TYPE 18 PLUGS / Fast Cut & Long Life

Diameter (D)	IIIICKIICSS (I/	AIDUI (IIIICau)	Graue	IVIAA. III IVI	Jiu. Fack	ILCIII #
1-1/2"	2-1/2"	5/8"-11 Nut	ZA20S	24,190	12	68320
1-1/2"	3"	5/8"-11 Nut	ZA20S	24,190	12	68322
2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68324
PERFORM/	ANCE GRIN	DING STEEL	/ METAL TIGER	AO / Long Life		
1						





Diameter (D) Thickness (T) Arbor (Thread) Grade Max. RPM Std. Pack Item #								
Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #		
1-1/2"	2-1/2"	3/8"-24 Nut	A24R	24,190	12	68318		
1-1/2"	2-1/2"	5/8"-11 Nut	A24R	24,190	12	68319		
1-1/2"	3"	5/8"-11 Nut	A24R	24,190	12	68321		
2"	3"	5/8"-11 Nut	A24R	18,145	12	68323		

TYPE 18R PLUGS

HIGH PERFORMANCE GRINDING

DEDECOMANCE CDINIDING STEEL

STEEL / METAL TIGER ZIRC TYPE 18R PLUGS / Fast Cut & Long Life

Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #
1-1/2"	3"	3/8"-24 Nut	ZA20S	24,190	12	68326 •
1-1/2"	3"	5/8"-11 Nut	ZA20S	24,190	12	68328
2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68330

A24R

12,100



Item #



PERFURIVI <i>I</i>	AINGE GRIIV		WETAL HIGER	AU / Long Life	
Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack
1-1/2"	3"	5/8"-11 Nut	A24R	24,190	12
Oll	0.11	E /OII 11 N	A O A D	10 1 1 5	10

5/8"-11 Nut

JOIN THE NEXT REVOLUTION IN GRAND RANGE RANGE REVOLUTION IN GRAND RANGE RANGE

The finishing process in foundries is a tough job. For decades, abrasives technology for off-hand grinding has remained unchanged. It's time for improvement, faster grinding rates, decreased cycle times and an improved operator experience. It's time for a revolution.

As an industry leader and global manufacturer of surface conditioning solutions, Weiler Abrasives is driven to help you overcome the toughest cleaning, grinding, cutting, deburring and finishing challenges. That's why we created a line of abrasives specifically designed to deliver maximum performance in foundry applications. From gate removal to id-cleaning, Weiler offers the right product solutions and expertise to help you find production and process efficiencies in your cleaning room.

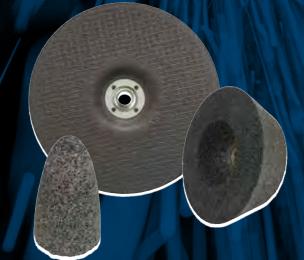
Weiler Foundry Products — A **REVOLUTION** in foundry grinding.

WE PROVIDE VALUE THROUGH:

- Ground Breaking Abrasive Technology
 For Foundry Applications
- Enhanced Safety Features
- Improved Operator Experience
- Expert Abrasives On-Site Technical Support
- Product Available When You Need It
- Custom Engineered Solutions
- Maximum Productivity
- Lowest Cost Of Use







PRODUCT SELECTION

MAX PERFORMANCE SUPERIOR LIFE & CUT





TIGER® CERAMIC

Self-sharpening ceramic alumina grains provide ultrahigh metal removal rates and optimal productivity.

GRAIN TYPE

Ceramic alumina

BEST ON

CAST IRON DUCTILE IRON
CAST STEEL HARD-TO-GRIND

white iron, gray iron, high nickel alloy and stainless steel





CUT RATE: • • • • • • LIFE: • • • • •

TIGER ZIRC

Sharp and durable zirconia alumina grains provide fast and consistent metal removal rates throughout the life of the abrasive.

GRAIN TYPE

Zirconia alumina

BEST ON

CAST IRON DUCTILE IRON

CAST STEEL

white iron, gray iron, high nickel alloy and stainless steel

P

PERFORMANCE LONG LIFE



TIGER SIC

Silicon carbide grains provide a consistent, controlled cutrate on sand castings with burnt-in sand.

GRAIN TYPE

Silicon carbide

BEST ON
BURNT IN SAND

TIGER AO

Aluminum oxide grains provide an even, sharp, clean cut-rate and consistent performance.

GRAIN TYPE

Aluminum oxide

CAST IRON

ductile iron, carbon steel and stainless steel

TIGER AS SHOWN THE PROPERTY OF THE PROPERTY OF

Key:



Read and Comply with ANSI B7.1

Type 11 Cup Rock for snagging and heavy stock removal.

TYPE 11 CUP WHEELS



Weiler Tiger® type 11 flaring cup grinding wheels deliver the next evolution in technology for portable foundry grinding. From Tiger Ceramic, which provides superior productivity, to Tiger SiC for castings with burnt-in sand, our line offers the performance you need to get the job done fast. Tiger Ceramic sets a new standard for performance, delivering up to 30% faster cut-rate compared to competitive zirconia cups. This faster material removal translates to better productivity in the cleaning room and less operator fatigue.

CUP FEATURES:

- Precision balanced to ensure smooth, vibration-free operation and reduced operator fatigue.
- Unique anchored safety nut locks the cup in place to *increase safety* and prevent product breakage.
- Zinc plated 5/8"-11 nut prevents oxidation, *eliminating contamination* and allows for easy spin-on, spin-off changeover.

APPLICATIONS:

Ideal for heavy metal removal, grinding, transitioning, rough beveling and removing cracks/flaws.

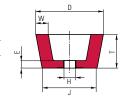


Type 11 Cup

0 - 15° for optimal performance

RIM (W) WIDTH OPTIONS

1-1/2" RIM	Large grinding zone to minimize grind time
1" RIM	Medium grinding zone for maximum material removal in targeted areas
3/4" RIM	Ideal for targeted material removal in small, hard-to-access areas





68400



68352

NEW! MAX PERFORMANCE GRINDING

P	CAST IRON	DUCTILE IRO	N CAST STE	EL HARD-TO-	GRIND TIGER	CERAMIC /	Superior Life & Cut			
1	Diameter	Thickness	Arbor	Rim	Back		Max.	Std.		
	(D / J)	(T)	(H)	(W)	(E)	Grade	RPM	Pack	Item #	
	6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	HZA16Q	6,000	5	68400	

NEW! HIGH PERFORMANCE GRINDING

D	CAST IRON	DUCTILE IRO	N CAST STE	EL TIGER 2	ZIRC / Fast (Cut & Long Life)		
Г	Diameter	Thickness	Arbor	Rim	Back		Max.	Std.	
	(D / J)	(T)	(H)	(W)	(E)	Grade	RPM	Pack	Item #
	4" / 3"	2"	5/8"-11	3/4"	3/4"	ZA16Q	9,070	5	68352
	5" / 3-3/4"	2"	5/8"-11	1"	3/4"	ZA160	7,260	5	68355
	6" / 4-3/4"	2"	5/8"-11	1"	3/4"	ZA160	6,000	5	68358
	6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	ZAC16Q	6,000	5	68361+
	6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	ZA16R	6,000	5	68362
	6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	ZA16Q	6,000	5	68364





PERFORMANCE GRINDING

BURNT IN SAND	TIGER SiC	/ Long Life						
Diameter	Thickness	Arbor	Rim	Back		Max.	Std.	
(D / J)	(T)	(H)	(W)	(E)	Grade	RPM	Pack	Item #
4" / 3"	2"	5/8"-11	3/4"	3/4"	C16Q	9,070	5	68351
5" / 3-3/4"	2"	5/8"-11	1"	3/4"	C16Q	7,260	5	68354
6" / 4-3/4"	2"	5/8"-11	1"	3/4"	C16Q	6,000	5	68357 •
6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	C16Q	6,000	5	68069
CAST IRON	TIGER AO	/ Long Life						
4" / 3"	2"	5/8"-11	3/4"	3/4"	A160	9,070	5	68350 •
5" / 3-3/4"	2"	5/8"-11	1"	3/4"	A16Q	7,260	5	68353
6" / 4-3/4"	2"	5/8"-11	1"	3/4"	A16Q	6,000	5	68356
6" / 4-3/4"	2"	5/8"-11	1-1/2"	3/4"	A16Q	6,000	5	68359

⁺ Includes silicon carbide for burnt-in sand and hard-to-grind metals.

6,000

AC16Q

FLARING CUP WHEEL MOUNTING FLANGE

5/8"-11

Fits over 5/8"-11 spindles

6" / 4-3/4"

Diameter	Thickness	Std. Pack	Item #
2"	1/4"	1	73054
'			



5 68360+

TYPE 27 GRINDING WHEELS

Weiler Tiger type 27 grinding wheels deliver the next evolution in technology for portable foundry grinding. The line is available in three performance tiers, including Tiger Ceramic which sets a new standard for maximum performance. The ceramic grain leverages an engineered ultra-fine microstructure that self-sharpens for ultra-fast grinding. This technology allows Tiger Ceramic to remove up to 40% more material over the life of the wheel compared to competitive zirconia products. This translates to better productivity in the cleaning room and a reduction in abrasives usage.

GRINDING WHEEL FEATURES:

- Advanced anti-chipping technology *improves safety* through the reduction of high energy debris emitted during the grinding process.
- 5/8"-11 nutted metal hub allows for quick spin-on, spin-off changeover and eliminates cross-threading or sticking to spindle due to heat build-up.
- Triple fiberglass reinforcement for added strength.
- 1/8" combo wheels offer *flexibility and efficiency* when switching between cutting and grinding applications.

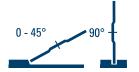


Tiger Foundry wheel removing excess material from a casting.



1/4" GRINDING WHEELS:

Ideal for heavy stock removal, removing cracks and surface imperfections, blending parting lines, removing flash, gate and riser removal.



1/8" COMBO WHEELS:

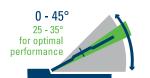
Ideal for light grinding, blending parting lines, removing flash and cutting gates and risers.

TYPE 27

5/8"-11 Hub

TYPE 27 5/8"-11 Hub

68391



NEW!

MAX PERFORMANCE TIGER CERAMIC / Superior Cut & Long Life

CAST IRON	DUCTILE IRON	CAST STEEL	HARD-TO-GRIN	<u> </u>			-			
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #			
	Type 27 Depressed Center 1/4" Grinding Wheels									
7"	1/4"	CER24T	8,600	10	68388	10	68389			
9"	1/4"	CER24T	6,650	10	68392	10	68393			
	Type 27 Depressed Center 1/4" Grinding Wheels 7"									
7"	1/8"	CER30T	8.600	25	68386 •	10	68387			

TYPE 27

7/8" Arbor

TYPE 27

7/8" Arbor



68389



HIGH PERFORMANCE

CER30T

IIUEN ZING /	rasi Gui & Lui	ig Life				_	_
CAST IRON	DUCTILE IRON	CAST STEEL					
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #
		Type 27	Depressed Cen	ter 1/4" Grindin	g Wheels		
7"	1/4"	Z24T	8,600	10	68380	10	68381
9"	1/4"	Z24T	6,650	10	68384	10	68385
		Type 27 Depr	essed Center 1/	8" Cut & Grind	Combo Wheels		
7"	1/8"	Z30T	8,600	25	68378 •	10	68379
9"	1/8"	Z30T	6,650	25	68382	10	68383



68380



PERFORMANCE TIGER AO / Long Life	TYPE 27 7/8" Arbor	TYPE 27 5/8"-11 Hub
CAST IRON		_

	-						i	
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	
Type 27 Depressed Center 1/4" Grinding Wheels								
7"	1/4"	A24T	8,600	10	68372	10	68373	
9"	1/4"	A24T	6,650	10	68376	10	68377	
		Type 27 Depr	essed Center 1/	8" Cut & Grind	Combo Wheels			
7"	1/8"	A30T	8,600	25	68370	10	68371	
9"	1/8"	A30T	6,650	25	68374	10	68375	



68370

Non-stock product, contact Customer Service for lead times.

Using a cone to clean surface imperfections.

CONES & PLUGS - FOR FOUNDRY



Weiler Tiger cones and plugs offer performance grinding solutions for ID cleaning, hole edge beveling, smoothing weld seams, removing parting lines and cleaning castings in hard-to-reach places. Designed with the operator in mind, these abrasives provide smooth, vibration free operation and instant cutting action right out of the box.

CONE & PLUG FEATURES:

- Open face design provides aggressive cut-rate right out of the box.
- Anchored hexagon nut secures the abrasive to the tool to increase safety and prevent product breakage.
- Zinc plated nut prevents oxidation, eliminates contamination and allows for easy mounting.
- Precision balanced to ensure smooth, vibration free operation and reduced operator fatigue.

APPLICATIONS:

Ideal for ID cleaning, hole edge beveling, smoothing weld seams, removing parting lines and cleaning castings in hard-to-reach places.











Type 16

NEW!

Type 17

Type 18

Type 18R









MAX PERFORMANCE GRINDING

CAST IRON DUCTILE IRON CAST STEEL HARD-TO-GRIND TIGER CERAMIC TYPE 16 CONES / Superior Life & Cut

Diameter	Thickness	Arbor		Max.	Std.	
(D)	(T)	(Thread)	Grade	RPM	Pack	Item #
2"	3"	5/8"-11 Nut	HZA20S	18.145	12	68403



HIGH PERFORMANCE GRINDING

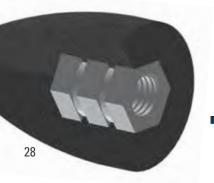
CAST IRON	DUCTILE IRON	CAST STEEL TIG	TIGER ZIRC TYPE 16 CONES / Fast Cut & Long Life						
Diameter	Thickness	Arbor		Max.	Std.				
(D)	(T)	(Thread)	Grade	RPM	Pack	Item #			
1"	3"	3/8"-24 Nut	ZA20S	36,290	12	68301			
1-1/2"	2-1/2"	5/8"-11 Nut	ZA20S	24,190	12	68304			
1-1/2"	2"	3/8"-24 Nut	ZA20S	24,190	12	68306			
1-1/2"	3"	5/8"-11 Nut	ZA20S	24,190	12	68308			
2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68311			
2-3/4"	3-1/2"	5/8"-11 Nut	ZA20S	13,195	12	68313			



PERFORMANCE GRINDING

TIGER AO TYPE 16 CONES / Long Life

UAST IIIUN	TIGER AU TYPE IS CONES / Long Life							
Diameter	Thickness	Arbor		Max.	Std.			
(D)	(T)	(Thread)	Grade	RPM	Pack	Item #		
1-1/2"	2-1/2"	5/8"-11 Nut	A24R	24,190	12	68303		
1-1/2"	3"	3/8"-24 Nut	A24R	24,190	12	68305		
1-1/2"	3"	5/8"-11 Nut	A24R	24,190	12	68307		
2"	3"	3/8"-24 Nut	A24R	18,145	12	68309		
2"	3"	5/8"-11 Nut	A24R	18,145	12	68310		
2-3/4"	3"	5/8"-11 Nut	A24R	13,195	12	68312		
3"	3"	5/8"-11 Nut	A24R	12,100	12	68314		



ANCHORED NUT INCREASES SAFETY

Heavy-duty steel hex nut fully anchored into abrasive bond prevents separation and slippage during use.

NEW! MAX PERFORMANCE GRINDING

P CAST IRON DUCTILE IRON CAST STEEL HARD-TO-GRIND
TIGER CERAMIC TYPE 17 CONES / Superior Life & Cut

Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #
2"	3"	5/8"-11 Nut	HZA20S	18,145	12	68404 •



P	CAST IRON	DUCTILE IRON	CAST STEEL	TIGER ZIRC TYPE 1	7 CONES / Fas	t Cut & Long Life	
•	Diameter	Thickness	Arbor		Max.	Std.	
	(D)	(T)	(Thread)	Grade	RPM	Pack	Item #
	2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68365



NEW! PERFORMANCE GRINDING

CAST IRON TIGER AO TYPE 17 CONES / Long Life									
Diameter	Thickness	Arbor		Max.	Std.				
(D)	(T)	(Thread)	Grade	RPM	Pack	Item #			
1-3/4"	3"	5/8"-11 Nut	A24R	20,740	12	68316			
2"	3"	5/8"-11 Nut	A24R	18,145	12	68317			



NEW! MAX PERFORMANCE GRINDING

CAST IRON DUCTILE IRON CAST STEEL HARD-TO-GRIND
TIGER CERAMIC TYPE 18 PLUGS / Superior Life & Cut

Diameter (D)	Thickness (T)	Arbor (Thread)	Grade	Max. RPM	Std. Pack	Item #
2"	3"	5/8"-11 Nut	H7A20S	18 145	12	68405

NEW! HIGH PERFORMANCE GRINDING

D	CAST IRON	DUCTILE IRON	CAST STEEL TIG	ER ZIRC TYPE 1	8 PLUGS / Fast	Cut & Long Life	
•	Diameter	Thickness	Arbor		Max.	Std.	
	(D)	(T)	(Thread)	Grade	RPM	Pack	Item #
	1-1/2"	2-1/2"	5/8"-11 Nut	ZA20S	24,190	12	68320
	1-1/2"	3"	5/8"-11 Nut	ZA20S	24,190	12	68322
	2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68324



CAST IRON TIGER AO TYPE 18 PLUGS / Long Life								
Diameter	Thickness	Arbor		Max.	Std.			
(D)	(T)	(Thread)	Grade	RPM	Pack	Item #		
1-1/2"	2-1/2"	3/8"-24 Nut	A24R	24,190	12	68318		
1-1/2"	2-1/2"	5/8"-11 Nut	A24R	24,190	12	68319		
1-1/2"	3"	5/8"-11 Nut	A24R	24,190	12	68321		
2"	3"	5/8"-11 Nut	A24R	18,145	12	68323		





NEW! MAX PERFORMANCE GRINDING

CAST IRON DUCTILE IRON CAST STEEL HARD-TO-GRIND
TIGER CERAMIC TYPE 18R PLUGS / Superior Life & Cut

		and the second s				
Diameter	Thickness	Arbor		Max.	Std.	
(D)	(T)	(Thread)	Grade	RPM	Pack	Item #
2"	3"	5/8"-11 Nut	H7A20S	18 145	12	68406

NEW! HIGH PERFORMANCE GRINDING

D	CAST IRON DUCTILE IRON CAST STEEL TIGER ZIRC TYPE 18R PLUGS / Fast Cut & Long Life									
ı	Diameter	Thickness	Arbor		Max.	Std.				
	(D)	(T)	(Thread)	Grade	RPM	Pack	Item #			
	1-1/2"	3"	3/8"-24 Nut	ZA20S	24,190	12	68326 •			
	1-1/2"	3"	5/8"-11 Nut	ZA20S	24,190	12	68328			
	2"	3"	5/8"-11 Nut	ZA20S	18,145	12	68330			

NEW! PERFORMANCE GRINDING

CAST IRON						
Diameter	Thickness	Arbor		Max.	Std.	
(D)	(T)	(Thread)	Grade	RPM	Pack	Item #
1-1/2"	3"	5/8"-11 Nut	A24R	24,190	12	68327
2"	3"	5/8"-11 Nut	A24R	18,145	12	68329
3"	3"	5/8"-11 Nut	A24R	12,100	12	68331





Portable snagging wheels are ideal for targeted heavy stock removal applications.

SNAGGING WHEELS - FOR FOUNDRY



Weiler Tiger type 1 portable snagging wheels feature a flat face with a narrow contact area, making them ideal for heavy grinding, transitioning, rough beveling, and removing cracks and flaws. The line is available in three performance tiers, including Tiger Zirc, which provides an excellent combination of long product life and a fast, consistent cut-rate when grinding.

Tiger 6 & 8 inch snagging wheels are designed for medium to high power pneumatic and high frequency electric straight grinders, while the 3 inch wheels are used on die grinders. The arbor hole is produced with a precision phenolic resin insert to ensure a tight fit on the tool, minimizing vibration and enhancing the operator experience.

FEATURES:

- Open face design provides aggressive cut-rate right out of the box.
- Precision balanced to ensure smooth, *vibration-free operation* and reduced operator fatigue.
- Double fiberglass internal reinforcement in 6 & 8 inch wheels provide added strength for consistent product wear and reduced edge chipping.

APPLICATIONS:

Ideal for snagging, grinding, heavy stock removal, transitioning, rough beveling, removing cracks and flaws, blending parting lines and deflashing.

Type 1 (Flat)



Features a flat face with narrow contact area



68402



68342

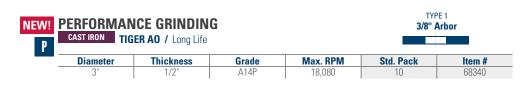




MAX PERFO	DRMANCE SNA	TYPE 1				
CAST IRON D				5/8" Arbor		
CAST STEEL HARD-TO-GRIND Superior Life & Cut						
Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	
6"	1"	HZR16-R	8,000	5	68401	
8"	1"	HZR16-R	6,000	5	68402 •	
	CAST IRON CAST STEEL H. Diameter 6"	CAST IRON DUCTILE IRON TIGER CAST STEEL HARD-TO-GRIND Superior Diameter Thickness 6" 1"	CAST IRON DUCTILE IRON TIGER CERAMIC CAST STEEL HARD-TO-GRIND Superior Life & Cut Diameter Thickness Grade 6" 1" HZR16-R	CAST STEEL HARD-TO-GRIND Superior Life & Cut Diameter Thickness Grade Max. RPM 6" 1" HZR16-R 8,000	CAST IRON DUCTILE IRON TIGER CERAMIC 5/8" A CAST STEEL HARD-TO-GRIND Superior Life & Cut Diameter Thickness Grade Max. RPM Std. Pack 6" 1" HZR16-R 8,000 5	

NEW!	W! HIGH PERFORMANCE SNAGGING				TYPE 1		TYPE 1		
D	CAST IRON	DUCTILE IRON	DUCTILE IRON TIGER ZIRC			3/8" Arbor		5/8" Arbor	
Г	CAST STEEL	Fast Cut & Long Life							
	Diameter	Thickness	Grade	Max. RPM	Std. Pack	Item #	Std. Pack	Item #	
	3"	1/2"	ZA14S	18,080	10	68341	_	_	
	6"	1"	ZA160	8,000	-	-	5	68342 •	
	6"	1"	ZAC16Q	8,000	-	-	5	68343+	
	6"	1"	ZA16R	8,000	-	-	5	68344	
	8"	1"	ZA160	6,000	_	_	5	68345 •	
	8"	1"	ZA16Q	6,000	_	_	5	68346 •	
	8"	1"	ZAC16Q	6,000	_	_	5	68347+	
	8"	1"	ZA16R	6,000	-	-	5	68348 •	
	8"	1"	ZA16T	6,000	-	-	5	68349 •	

⁺ Includes silicon carbide for burnt-in sand and hard-to-grind metals.



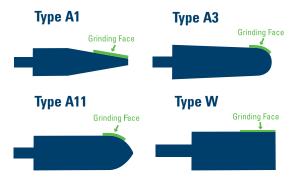
Weiler Tiger Zirc mounted points come in various ANSI point shapes including A1, A11, A3, and W. A zirconia abrasive grain in combination with a strong bond delivers long product life and a consistent cut rate when grinding metal. The unique shapes allow for precise cleaning and grinding of parts with complex geometries and in hard-to-reach areas. Designed for die grinders, mounted points have a standard 1/4" shank diameter and a 1-1/2" shank length.

FEATURES:

- Dressed working surface *eliminates break-in* and provides a consistent finish.
- Engineered stem bonding adds strength and stability to the point, improving safety.
- Tailored product geometry provides optimal control for precise grinding of critical parts.

APPLICATIONS:

Ideal for cleaning ID's, corners and hard-to-reach areas, edge chamfering, light grinding, stock removal and hole edge beveling.





NEW! HIGH PERFORMANCE GRINDING

•	CAST IRON	DUCTILE IRON	CAST STEEL			
	TIGER ZIRC / Fast Cut & Long Life					

TIGEN ZING 7 Tast out & Long Line						
Diameter	Length	Shape	Grade	Max. RPM	Std. Pack	Item #
3/4"	1/2"	A1	RZA24U	19,800	10	68332
7/8"	2"	A11	RZA24U	19,860	10	68333
1"	2-3/4"	A3	RZA24U	16,100	10	68334
1/2"	2"	W189	RZA24U	24,000	10	68335
3/4"	1-1/2"	W207	RZA24U	24,000	10	68336
3/4"	2"	W208	RZA24U	18,750	10	68337 •
1"	1-1/2"	W221	RZA24U	19,120	10	68338
1"	2"	W222	RZA24U	15,900	10	68339
5/8"	2"	W197	RZA24U	21,000	10	68366

CASE STUDY:



Tiger mounted points are ideal for light grinding in hard-to-reach areas and removing cracks from castings.







NYLOX BRUSHES

Non-stock product, contact Customer Service for lead times





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 chatter-free, 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.

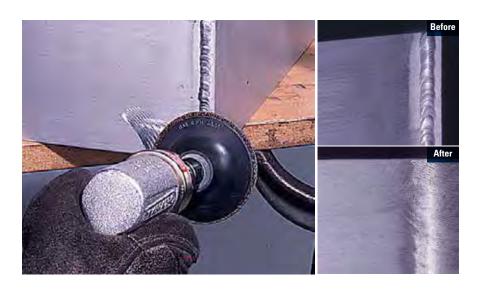
Solution: Weiler's coated abrasive flap wheels are flexible grinding products that are ideal for light stock removal applications. A 60 grit wheel can be used to remove a large burr and produce a smooth blended edge.



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 Tiger® Aluminum discs are specially formulated to prevent loading by lowering the grinding temperature. A 60 grit disc can blend an aluminum weld bead much faster than a conventional disc without loading.









STRUCTURAL STEEL BEAM

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

Solution: Tiger Angled flap discs are a great option for the metalworking professional looking for more versatility than a traditional flap disc can offer and ready to go to work right out of the box. They are ideal for applications that previously required either a carbide burr or trimmable flap disc in order to access welds. Tiger Angled also provides versatility in repair and re-work applications, where it is important to focus grinding in a small area while minimizing impact to the surrounding work piece(s).







TANK AND PRESSURE VESSEL

Problem: The welds inside tanks and pressure vessels must be blended smooth prior to x-ray and pressure testing.

Solution: Weiler's Big Cat* High Density flap discs have the largest flap area in the industry – 22% more cloth. The result is enhanced conformability on curved or irregular surfaces and up to 40% longer life.

SELECTING THE RIGHT FLAP DISC

Weiler's abrasive flap discs grind and finish in one step, saving you time and money. There's no switching from a type 27 grinding wheel to a resin fiber disc.



MAX PERFORMANCE



TIGER® CERAMIC

- TOP COAT for cool grinding
- Protects from heat discoloration
- Prevents loading on soft alloys

GRAIN TYPE

Ceramic alumina

CONTAMINANT FREE

CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

STYLES **BEST ON**



STEEL / METAL ALUMINUM

(Hard-to-grind metals include tool steel, inconel, high nickel alloy, titanium and armored steel)



HIGH PERFORMANCE



TIGER X

- FLAT SURFACE GRINDING
- Less effort required
- · Fast grinding & long life

GRAIN TYPE

Ceramic & zirconia alumina

CONTAMINANT FREE

CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

STYLES



*Big Cat

BEST ON

STEEL / METAL STAINLESS

(Metal includes structural steel and cast iron)



PERFORMANCE



TIGER PAW

- SUPERIOR EDGE GRINDING
- Aggressive stock removal

GRAIN TYPE

100% zirconia alumina

CONTAMINANT FREE

CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

STYLES



BEST ON

STEEL / METAL STAINLESS

(Metal includes structural steel and cast iron)



VALUE



WOLVERINE®

- · Fast stock removal
- Consistent performance

GRAIN TYPE

Zirconia alumina

STYLES



BEST ON

STEEL / METAL



SPECIALTY FLAP DISCS



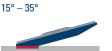




TEAL DISCS	MAX PERFORMANCE	HIGH PERFORMANCE	PERFORMANCE
ANGLED (Fillet Welds)	8	⊗	
TRIMMABLE (Non-Marking)	⊗	⊗	
ALUMINUM BACK (Rigid Support)		⊗	
ALUMINUM (Non-Loading)		⊗	
MINI (Tight Spaces)			(Bobcat)

STYLE

CONICAL (Type 29)



Angled flaps maximize surface contact for aggressive stock removal on flat surfaces.

FLAT (Type 27) 0° – 15°



Smooth grinding, blending and finishing on flat surfaces and slight contours.

HIGH DENSITY (Type 27)



Conformable to irregular surfaces. Smooth grinding, blending and finishing on flat surfaces.

HIGH DENSITY

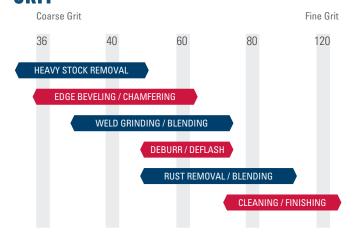
(Type 29) 15° – 35°

Conformable to irregular surfaces. Angled flaps maximize surface contact for aggressive stock removal.



Curved flaps for grinding fillet welds, T-joints and hard-to-reach areas.

GRIT



GRAIN



CERAMIC ALUMINA (CA)

- Self-sharpening micro fracturing crystals expose sharp edges
- Maintains a high cut-rate for the life of the grain
- Longest cutting life under moderate to high pressure
- Exceptional performance on hard-to-grind metals



ZIRCONIA ALUMINA (ZA)

- Self-sharpening crystals
- Holds up under high temperatures and extreme pressure
- · Sharp, fast cutting, long lasting grain

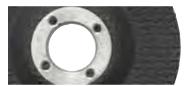


ALUMINUM OXIDE (A0)

- Single crystal that dulls during use
- Good initial cut rate
- · Hard, durable grain

BACKING

PHENOLIC



Prevents backing from scratching the workpiece.

ALUMINUM



Rigid support for maximum aggression; recyclable.

COMPOSITE*



Trimmable, non-marking backing; allows access to hard-to-reach areas.

*BobCat™ Discs are not Trimmable.

ARBOR

5/8" - 11 NUT

- · Quick change over
- Eliminates cross-threading experienced with plastic backs
- Metal nut eliminates the disc from sticking to the grinder due to heat build up



OPEN ARBOR

- Requires adapting nuts
- 5/8" option for 4" grinders
- 7/8" option for 4-1/2" and larger grinders



MOUNTING DISCS WITH OPEN ARBORS





MANDRELS & METAL HUB PADS

• For quick-change on tools with 1/4" collets

STANDARD DENSITY FLAP DISCS





50114♦

TYPF 27

Weiler offers standard density flap discs in four performance tiers, including Tiger X, which is a great choice if you're looking for high performance on relatively flat surfaces, and Tiger Paw for demanding edge grinding applications.

All Tiger flap discs are contaminant free, making them safe to use on stainless steel.

Tiger X flap disc blending a weld on a flat surface.

MAX PERFORMANCE / TIGER® CERAMIC (SABER TOOTH) Top Coated for Cool Grinding / Ceramic Alumina / Phenolic Back / Contaminant-free*

Top Coated for Co	or drinding / Ceraniic	111 6 20	TYPE 29 5/8"-11 Hub			
STEEL / METAL	STAINLESS HARD-TO-GF	RIND ALUMINUM		7/8" Arbor	3/0 -11 Hub	
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	
4-1/2"	36	13,000	10	50100	50104♦	
	40			50101	50105♦ ¥	
	60			50102	50106♦	
	80			50103	50107◆	
7"	36	8,600	10	-	50112♦	
	40			50109	50113♦	

Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

TYPF 27

TYPF 29



HIGH PERFORMANCE / TIGER X

60

Fast Grinding & Long Life on Flat Surfaces / Ceramic & Zirconia Alumina / Phenolic Back / Contaminant-free* TYPE 29

STEEL / MET	AL S1	TAINLESS		7/8" Arbor	5/8"-11 Hub	7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #
4-1/2"	36	13,000	10	51200	51204◆	-	_
	40			51201	51205♦	51223	51226♦
	60			51202	51206♦	51224	51227♦
	80			51203	51207◆	51225	51228♦
5"	36	12,000	10	51208	-	-	_
	40			51209	51212♦	_	_
	60			51210	51213♦	-	_
	80			-	51214♦	-	_
6"	40	10,200	10	51237	51241♦	-	_
	60			51238	51242♦	-	_
7"	36	8,600	10	51215	51219♦	-	_
	40			51216	51220♦	51229	51232◆
	60			51217	51221♦	_	51233♦
	80			-	51222♦	51231	51234◆



PERFORMANCE / ORIGINAL TIGER High cut rate & long life / Zirconia Alumina / Phenolic Back / Contaminant-free*



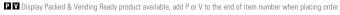
				TYPE 29 5/8" Arbor	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub	TYPE 27 5/8" Arbor	TYPE 27 7/8" Arbor	TYPE 27 5/8"-11 Hub
STEEL /	METAL	STAINI	LESS	0,0 7,11001	770 711501	5/6 11 11415	0/0 /1150/	1/6 /1	0/0 1111015
		Max.	Std.						
Dia.	Grit	RPM	Pack	Item #	Item #	Item #	Item #	Item #	Item #
4"	36	15,000	10	50592	_	-	_	-	-
	40			50593	_	_	_	_	_
	60			50594	_	_	50694	_	_
	80			50595	_	_	_	_	_
4-1/2"	24	13,000	10	-	50601	-	-	-	-
	120			_	50606	_	_	50706	50699♦
5"	40	12,000	10	-	-	-	-	50713	_
	60			-	_	_	_	50714	_
	80			_	_	_	_	50715	_
6"	40	10,200	10	-	50649	50659♦	-	-	_
	60			_	50650	50660◆	_	_	_
	80			_	50651	50661♦	_	_	_



Tiger Paw grinding the edge of a torch-cut steel plate.

PERFORMANCE / TIGER PAW™
Aggressive Stock Removal for Edge Grinding / 100% Zirconia Alumina / Phenolic Back / Contaminant-free*

				TYPE 29 5/8" Arbor	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub	TYPE 27 5/8" Arbor	TYPE 27 7/8" Arbor	TYPE 27 5/8"-11 Hub
STEEL /	METAL	STAINL	ESS						
		Max.	Std.						
Dia.	Grit	RPM	Pack	Item #	Item #	Item #	Item #	Item #	Item #
4"	40	15,000	10	51104	-	-	51101	_	_
	60			51105	_	-	51102	_	_
4-1/2"	36	13,000	10	-	51118	51123♦	_	51107	51112♦
	40			_	51119	51124♦	_	51108	51113♦
	60			-	51120 V	51125♦ ☑	_	51109	51114♦
	80			_	51121	51126♦	_	51110	51115♦
5"	36	12,000	10	-	-	51153+	-	_	51155♦
	40			_	51129	51132♦	_	51134	51156♦
	60			_	_	51133♦	_	51135	51157♦
	80			_	_	51154♦	_	_	51158♦
6"	40	10,200	10	-	51175	51179♦	-	_	- /
	60			-	51176	51180♦	_	-	- /
	80			_	51177 •	51181♦●	_	_	- 🚮
7"	36	8,600	10	_	-	51149♦	_	_	51139♦
	40			-	51145	51146♦	_	51137	51140♦
	60			_	51150	51147♦	_	_	51142
ļ	80			-	_	51148♦	_	_	51143♦





WOLVERINE®

Consistent Performance / Zirconia Alumina / Phenolic Back

				TYPE 29	TYPE 29	TYPE 29	TYPE 27	TYPE 27
				5/8" Arbor	7/8" Arbor	5/8"-11 Hub	7/8" Arbor	5/8"-11 Hub
STEEL /	METAL							
		Max.	Std.					
Dia.	Grit	RPM	Pack	Item #	Item #	Item #	Item #	Item #
4"	36	15,000	10	31337	-	-	-	-
	40			31338	_	_	_	_
	60			31339	_	_	_	_
	80			31340	_	_	_	_
4-1/2"	36	13,000	10	-	31343	31349♦	31401	31407♦
	40			_	31344	31350♦	31402	31408♦
	60			_	31345	31351♦	31403	31409♦
	80			_	31346	31352♦	31404	31410♦
	120			_	31347	31353♦	_	_
5"	36	12,000	10	_	31355	-	_	-
	40			_	31356	_	_	_
	60			_	31357	_	_	_
	80			_	31358	_	_	_
6"	40	10,200	10	_	31447	-	_	_
	60			_	31448	31452♦	_	_
	80			_	_	31453♦	-	_
7"	36	8,600	10	-	31361	31367◆	=	31419♦
	40			_	31362	31368◆	-	31420◆
	60			-	31363	31369♦	31415	31421♦
	80			_	31364	31370◆	_	31422♦



Key:





• Non-stock product, contact Customer Service for lead times and minimum order quantities.

◆ Patent # 6,945,863 *Contaminant-free (Contains less than 0.1% Fe, S, CI)

Blending and finishing a weld with a Big Cat flap disc.

HIGH DENSITY FLAP DISCS

High density discs have more flaps than standard density discs, giving them a thicker profile that increases flexibility and allows the disc to conform to curves and irregular surfaces more easily. The high-density design also reduces vibration, improving operator experience. These discs last up to 40% longer than a standard density disc.





FOOTPRINT

30mm flaps on Big Cat and Tiger Paw Type 27 Style flap discs increases surface area grinding

TYPE 27

7/0" Arbor

TYPE 27

E/0" 11 U.J.





Contaminant-fr		un megulai sun	laces / Cerainic /	Alumina / Thenone Da	TYPE 27	TYPE 27
STEEL / METAL	STAINLESS	HARD-TO-GRIND	ALUMINUM		7/8" Arbor	5/8"-11 Hub
Diameter		Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"		40	12,000	10	50130	50133♦
		60			50131	50134◆
		80			50132	50135♦
7"		40	8,600	10	50136	50139♦
		60			_	50140♦
		80			_	50141♦



HIGH PERFORMANCE / TIGER BIG CAT® HD

Fast Grinding & Long Life on Irregular Surfaces / Zirconia Alumina / Phenolic Back / Contaminant-free*

STEEL / MI	STA STA	INLESS			7/6 Arbor	3/6 -11 Hub
Dia	meter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-	1/2"	40	12,000	10	50803 V	50808♦
		60			50804 V	50809♦ ▼
		80			50805	50810♦
		120			50806	_
	7"	40	8,600	10	50823	50843♦
		60			50824	50844♦
		80			50825	50845♦

P V Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



PERFORMANCE / TIGER PAW™ HD

Aggressive Stock Removal on Irregular Surfaces 100% Zirconia Alumina / Phenolic Back /

Contaminar STEEL / META	nt-free*	AINLESS	TO BUSIC 7	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub	TYPE 27 7/8" Arbor	TYPE 27 5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #
4-1/2"	36	12,000	10	51060	51064♦ •	51160	51164♦
	40			51061	51065♦	51161	51165♦
	60			51062	51066♦ •	51162	51166♦
	80			51063 •	51067♦ •	51163	51167♦
6"	40	10,200	10	-	-	51191	_
	60			_	_	51192	_
	80			_	_	51185	_
7"	40	8,600	10	-	-	51170	51168♦
	60			-	_	_	51169♦



■ WOLVERINE® HD

Consistent Performance on Irregular Surfaces / Zirconia Alumina / Phenolic Back

STEEL / METAL				7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	12,000	10	31387	31390◆
	60			31388	31391◆
	80			31389	31392◆
6"	40	10,200	10	31439 •	31443♦
	60			-	31444◆
	80			31441	31445◆

Non-stock product, contact Customer Service for lead times and minimum order quantities.

TYPE 27

TYPE 27

[♦] Patent # 6,945,863

SPECIALTY FLAP DISCS

ALUMINUM BACK

Tiger Aluminum Back flap discs are the benchmark for the pipeline industry, providing rigid support for maximum aggression. These discs are ideal for removing heavy pitting and resists rolling the bevel ends prior to welding. The aluminum backing also prevents the disc from catching on the bevel when grinding. The aluminum backing plate is 100% recyclable.

HIGH PERFORMANCE / TIGER® ALUMINUM BACK Fast Grinding & Long Life / Zirconia Alumina /

Backing Plate Prov	vides Rigid Support	/ Contaminant-	·free*	TYPE 29	TYPE 29	TYPE 29
STEEL / METAL	STAINLESS			5/8" Arbor	7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #
4"	36	15,000	10	50502	-	-
	40			50503	_	-
	60			50504	_	_
	80			50505	_	-
4-1/2"	24	13,000	10	-	50511	50510
	36			-	50512	50517
	40			-	50513	50518
	60			-	50514	50519
	80			-	50515	50520
	120			-	50516	50509
5"	36	12,000	10	-	50522	-
7"	24	8,600	10	-	_	50541
	36			-	_	50542
	40			-	_	50543
	60			-	_	50544
	80			_	_	50545



Edge chamfering a section of pipe with a Tiger Aluminum Back flap disc.



FOR ALUMINUM

Tiger Aluminum flap discs offer an innovative paired flap design that delivers high performance grinding on aluminum. The top flaps are coated to eliminate loading and allow the disc to maintain a high cut-rate, while the alternating flaps aggressively remove material with self-sharpening zirconia aluminum grains. This unique paired flap design delivers the ultimate combination of high performance grinding for aluminum at an exceptional value.

HIGH PERFORMANCE / **TIGER ALUMINUM**Non-Loading / Contaminant-free / Zirconia Alumina / Phenolic Back

ALUMINUM				TYPE 27 7/8" Arbor	TYPE 27 5/8"-11 Hub	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #
4-1/2"	36	13,000	10	51252	51256	51250	51254
	60			51253	51257	51251	51255



WEILER

Key:





ANGLED DISCS

Weiler's Tiger Angled flap discs offer a curved flap design that is ideal for grinding fillet welds, T-joints and hard-to-reach places. The flaps wrap around the edge of the backing plate, optimizing metal contact and providing exceptional feel and control.

These discs are available in ceramic for maximum performance on hard-to-grind metals and zirc for high performance on steel and stainless.



Angled flaps are ideal for fillet welds and hard-to-reach places



MAX PERFORMANCE / TIGER® CERAMIC ANGLED

Top Coated for Cool Grinding on Fillet Welds / Ceramic Alumina / Phenolic Back / Contaminant-free*

STEEL / METAL STA	INLESS HARD-TO-GRIN	D ALUMINUM		7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	13,000	10	51312	51315
	60			51313	51316
	80			51314	51317
5"	40	12,000	10	51318	51321
	60			51319	51322





HIGH PERFORMANCE / TIGER ANGLED

Fast Grinding & Long Life on Fillet Welds / Zirconia Alumina / Phenolic Back / Contaminant-free*

STEEL / METAL	STAINLESS			7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	13,000	10	51300	51303
	60			51301	51304
	80			-	51305
5"	40	12,000	10	51306	51309

TRIMMABLE DISCS

51303

Tiger Trimmable flap discs provide flexibility and versatility when grinding steel and stainless steel. A trimmable backing plate allows the operator to increase flap overhang. This feature provides the versatility to adjust for hard-to-reach areas such as fillet welds and irregular shapes.

- Composite backing that can be trimmed, exposing more abrasive material.
- Composite backing will not mark the workpiece.

P SUPER SUPE

MAX PERFORMANCE / TIGER CERAMIC TRIM (SABER TOOTH)

Top Coated for Cool Grinding / Ceramic Alumina / Trimmable Composite Back for Versatility / Contaminant-free*

	HARD-TO-GRI	ND ALUMINUM		7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	13,000	10	50117	50121♦
	60			50118	50122♦





PERFORMANCE / TIGER TRIM

Long Grinding Life / Zirconia Alumina /
Trimmable Composite Back for Versatility / Contaminant-free*

STEEL / METAL STA	MINLESS			7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	13,000	10	50002	50006♦
	60			50003	50007♦
	80			50004	50008♦
	120			_	50009♦
5"	40	12,000	10	50010	_



Key





TYPE 29

TYPE 29

TYPE 29

TYPE 29

Tiger Bobcat mini flap discs are ideal for use on air die grinders for smooth grinding and enhanced conformability in tight areas when working with steel and stainless steel. These mini discs leverage self-sharpening zirconia alumina (ZA) grains that hold up under high temperatures and extreme pressure.



R MOUNT+

Bobcat sheds cloth and exposes new grain, delivering a consistent, aggressive cut rate and removing 3 times more material over the life of the disc than a comparable blending disc.

Weiler BobCat Mini Flap Discs are designed and compatible for use on both industry standard hub pads.





R Mount

S MOUNT⁹

S MOUNT*



Removing paint in tight spaces is easy with a BobCat disc.



PERFORMANCE / TIGER® BOBCAT™

Grinding Hard-to-Reach Places / Zirconia Alumina /

Composite Back / Contaminant-free*

STEEL / METAL	STAINLESS			TYPE 29	TYPE 27	TYPE 29	TYPE 27
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #
2"	36	30,000	10	-	50932	50946	50956
	40			50923	50933	50947	50957
	60			50924	50934	50948	50958
	80			50925	50935	50949	50959
	120			_	50936	50950	50960
3"	36	20,000	10	50902	50912	50951	50961
	40			50903	50913	50952	50962
	60			50904	50914	50953	50963
	80			50905	50915	50954	50964
	120			_	50916	_	50965

Back-up pad not required if used with S mount mandrel, 3" discs are compatible with Norton Speed-Lok $^{\circ}$ TS back-up pads.

R MOUNT





ACCESSORIES

BOBCAT DRIVE MANDRELS & METAL HUB PADS

For quick-change on tools with 1/4" collets.

Description	Std. Pack	Item #
2" & 3" S mount mandrel	1	07766
3" S mount hub pad + mandrel	1	60509
3" R mount hub pad + mandrel	1	51552





56495

ADAPTING NUTS & SPANNER WRENCH

For use with standard, HD and specialty flap discs.

Description	Thread Size	For Use With	Std. Pack	Item #
Adapting Nuts	3/8" - 24	4" flap disc with 5/8" arbor hole (can be used with an adjustable or combination wrench)	1 Pair	56484
Adapting Nuts	5/8" -11	4-1/2", 5" & 7" flap discs with 7/8" arbor hole	1 Pair	56494
Spanner Wrench	-	Item No. 56494 only	1	56495





Back-up pad required. Also compatible with 3M Roloc™ back-up pads.

Smoothing the edges of rollercoaster track with a resin fiber disc.

RESIN FIBER DISCS



Faced with the challenge of working on everything from pressure vessels to roller coasters, professionals need a solution they can count on. That's why we've expanded our line up to deliver the options needed to optimize grinding time on a wide variety of applications. With premium grain mixes that aggressively remove metal and a superior design that locks the grain in, Weiler Tiger and Wolverine resin fiber discs are designed to deliver serious grinding solutions.

CASE STUDY: Learn how Tiger Ceramic resin

fiber discs last longer and reduced cost for a

- Advanced grain formulas designed to maximize cut rate
- Superior design minimizes loading, glazing and grain stripping.
- Heavy-duty vulcanized fiber backing holds up to the toughest jobs.
- Quick change hub option reduces down time and eliminates interference from adapter rings.
- Spiral molded backing pad design runs cool by increasing airflow and fits on all right angle grinders.

SELECTING THE RIGHT DISC





TIGER® CERAMIC **TOP COAT** for cool, fast grinding protects from heat discoloration and prevents loading on soft alloys

GRAIN TYPE Ceramic alumina

CONTAMINANT FREE CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

pressure vessel fabrication company.

BEST ON STEEL / METAL STAINLESS HARD-TO-GRIND

(Hard-to-grind metals include tool steel, inconel, high nickel alloy, titanium and armored steel)

HIGH PERFORMANCE



TIGER ALUMINUM **TOP COATING** grinds cool and eliminates loading resulting in higher cut rates, long life and a superior finish **GRAIN TYPE**

Aluminum oxide

CONTAMINANT FREE CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

BEST ON ALUMINUM

(Aluminum and other non-ferrous metals)

HIGH PERFORMANCE



TIGER ZIRC **INFUSED WITH CERAMIC** for faster grinding and longer life. Disc design optimizes grain shedding and promotes cool grinding on stainless

GRAIN TYPE

Ceramic & zirconia alumina

CONTAMINANT FREE CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

BEST ON

STEEL / METAL STAINLESS

(Metal includes structural steel and cast iron)

VALUE PERFORMANCE



WOLVERINE® ZIRC FAST CUT RATE and consistent performance over the life of the disc, resulting in a great value

GRAIN TYPE

Zirconia alumina

CONTAMINANT FREE CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

BEST ON

STEEL / METAL STAINLESS

(Metal includes structural steel and cast iron)

VALUE PERFORMANCE



WOLVERINE AO PREMIUM GRAINS provide an even, sharp, clean cut rate and consistent performance at a great value.

GRAIN TYPE White aluminum oxide **BEST ON** STEEL / METAL

TIGER® CERAMIC RESIN FIBER DISCS Ceramic Alumina / Superior Life & Cut Rate on Metal

Self-sharpening Ceramic Alumina grain delivers a superior combination of life and cut rate.

Top coat grinds cool and eliminates loading.

STEEL / METAL	STAINLESS	ALUMINUM	HARD-TO-GRIND

			7/8" Arbor	5/8"-11 Hub
Diameter	Grit Size	Standard Pack	Item Number	Item Number
4-1/2"	24	25	69850	69880
	36		69851	69881
	50		69852	_
	60		69853	69883
	80		69854	_
5"	24	25	69857	69887
	36		69858	69888
	50		69859	_
	60		69860	69890
7"	24	25	69864	69894
	36		69865	69895
	50		69866	-
	60		69867	-
	80		69868	69898
9"	24	25	69871	-
D	DDM - Charless and			

Do not exceed maximum RPM of back-up pad.



ADVANCED CERAMIC GRAIN delivers greater stock removal with a finer

scratch pattern

LESS PRESSURE

for consistent material removal, reducing operator fatigue

TOP COAT

grinds cool and eliminates loading, glazing & dulling

WIDE RANGE

of grit options professionals need to get a desired finish

TIGER ALUMINUM RESIN FIBER DISCS Aluminum Oxide / Non-Loading on Non-Ferrous Metals

A top coating grinds cool and eliminates loading, which results in higher cut rates, long life and a superior finish.

ALUMINUM				
			7/8" Arbor	5/8"-11 Hub
Diameter	Grit Size	Standard Pack	Item Number	Item Number
4-1/2"	36	25	60401	60601
	60		60403	60603
	80		60404	_
5"	24	25	60410	-
	36		60411	60611 •
	80		60414	_
7"	36	25	60421	_
	60		60423	_

Do not exceed maximum RPM of back-up pad.





TIGER® ZIRC RESIN FIBER DISCS Zirconia Alumina / Ceramic Infused for Faster, Longer Grinding

A unique blend of self-sharping Zirconia Alumina and Ceramic Alumina grains deliver a fast, consistent cut rate. A superior design extends disc life by minimizing grain shedding and promotes cool grinding.

STEEL / METAL	STAINLESS
---------------	-----------

			7/8" Arbor	5/8"-11 Hub
Diameter	Grit Size	Standard Pack	Item Number	Item Number
4-1/2"	24	25	59731	59931 •
	36		59732	59932
	50		59733	_
	60		59734	_
	80		59735	_
	120		59737 •	_
5"	24	25	59701	-
	36		59702	_
	50		59703	_
	60		59704	_
	80		59705	_
	120		59707 •	_
7"	24	25	59711	-
	36		59712	_
	50		59713	_
	60		59714	_

Do not exceed maximum RPM of back-up pad.



59702

• Non-stock product, contact Customer Service for lead times.





WOLVERINE® ZIRC RESIN FIBER DISCS Zirconia Alumina / Fast Grinding on Metal Self-sharping Zirconia Alumina grain delivers a fast cut rate and consistent performance over the life of the disc, resulting in a great value.

STEEL / METAL STAINLESS

			7/8" Arbor	5/8"-11 Hub
Diameter	Grit Size	Standard Pack	Item Number	Item Number
4-1/2"	24	25	62002	_
	36		62003	62053 •
	50		62004 •	_
5"	24	25	62012	_
	36		62013	_
	50		62014 •	_
	60		62015 •	_

Do not exceed maximum RPM of back-up pad.

WOLVERINE® AO RESIN FIBER DISCS White Aluminum Oxide / Fast Grinding on Metal Premium Aluminum Oxide grains provide an even, sharp, clean cut rate and consistent performance at a great value.





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STEEL / MIETAL								
			5/8"	Arbor				
Diameter	Grit Size	Standard Pack	Item N	lumber				
4"	24	25	59	491				
	36		59	492				
	50		59493					
	60		59494					
	80		59495					
	120		59	497 •				
			7/8" Arbor	5/8"-11 Hub				
Diameter	Grit Size	Standard Pack	Item Number	Item Number				
4-1/2"	24	25	59571	_				
	36		59573	_				
	50		59575	_				
	60		59576	_				
	80		59577	_				
	120		59579 •	_				
5"	24	25	59501	_				
	36		59503	61503				
	50		59505 •	_				
	60		59506	_				
	80		59507	_				
7"	16	25	59520	_				
	24		59521	_				
	36		59523	_				
	60		59526 •	_				
	80		59527 •	_				
	100		59528 •	_				
9"	24	25	59541	_				

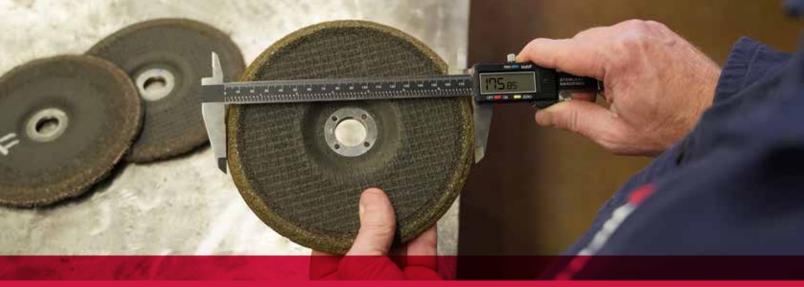
Do not exceed maximum RPM of back-up pad.

ACCESSORIES FOR RESIN FIBER DISCS

80

Description	Thread Size	Max. RPM	Standard Pack	Item 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	-	_	1	59603
Disc Nut	5/8"-11	_	1	59604

^{*} Other thread sizes available on special orders.



WEILER CONSUMABLE PRODUCTIVITY

"You Can't Improve What You Don't Measure"

- Peter Drucker

When was the last time you measured the total operating costs associated with your abrasive consumables?

The **WEILER CONSUMABLE PRODUCTIVITY** (WCP) program helps facilities find cost and time savings in their fabrication operations when they don't have the resources or process to quantify results. WCP is a proven process that effectively and efficiently measures real-world data. This program takes minimal effort to deploy in your facility because abrasives experts implement it.

Through a simple yet effective approach, the WCP program identifies improvements by evaluating your operations and how abrasives are used in your facility.

Our Approach:

- **On-site Assessment:** We come to your facility to walk the shop floor and learn about your production process firsthand.
- **Establish a Baseline:** To make recommendations based on facts, we establish a baseline by capturing data on the current process.
- Testing: We measure the time it takes, how many parts are completed, and how many consumables are used.
- Calculate Impact: Using the collected data, we estimate annual savings based on labor, time, and consumable consumption.
- ▶ **Presenting Improvement:** We then present the test results and provide documented cost and time savings based on our recommendations.





"We don't just swap out abrasives. We look at the process and find a better way to do it. If we can eliminate steps in the production process, we can provide even greater value to our customers."

John Sockman, Director of End User Sales,
 Weiler Abrasives



Take the first step to finding cost and time savings by scheduling an assessment. Contact your local Weiler associate or visit: weilerabrasives.com/wcp



Blending disc smoothing weld seams.

BLENDING DISCS

NEW! These improved quick-change discs deliver faster material removal and longer product life. Available in ceramic, zirconia alumina, and aluminum oxide grain options, they provide the performance needed for increased productivity when grinding and blending in hard-to-reach areas.



- These discs work more efficiently and last longer, giving you the confidence to make significant productivity gains in your fabrication operations.
- Improved grain retention extends product life up to 50% on resin fiber backing, reducing changeovers and abrasive consumption.

Blending Disc Connection Styles



Provides an aggressive cut-rate without applying additional pressure



TYPE S



CLOTH BACK

Conforms to the workpiece, giving the operator greater control of the material being removed

NEW! P



CERAMIC ALUMINA / Contaminant-free*

- · Ceramic alumina grains provide improved micro-fracture technology for an aggressive cut-rate for the entire life of the grain.
- Top coated for cool grinding, protecting high-value parts from heat discoloration.
- For heavy weld grinding and working with hard-to-grind metals like stainless steel and aluminum.



			Resin Fiber Backing		Cloth B	acking		
Diameter	Grit Size	Standard Pack	Type R Item #	Type S Item #	Type R Item #	Type S Item #		
2"	36	50	60570	60550	60170	60150		
	60		60571	60551	60171	_		
	80		60572	_	60172	60152		
3"	36	25	60575	60555	60175	60155		
	60		60576	60556	60176	60156 •		
	80		60577	_	_	_		
	Ceramic Type R Resin Fiber Backing Color Coding: () 36 Grit - White () 60 Grit - Orange () 80 Grit - Yellow							





ZIRCONIA ALUMINA / Contaminant-free*

- Self-sharpening zirconia alumina grains hold up under high temperatures and extreme pressure.
- For weld grinding and blending on tool steel, structural steel, and cast iron.



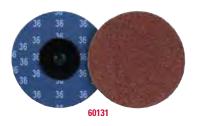
			Resin Fiber Backing		Cloth B	Backing
Diameter	Grit Size	Standard Pack	Type R Item #	Type S Item #	Type R Item #	Type S Item #
2"	36	100	60338	-	60738	60778
	60		60341	_	60741	60781
	80		60342	60382	60742	60782
	120		60344	60384	60744	60784
3"	36	50	60351	60391	60751	60791
	60		60354	_	60754	60794 •
	80		60355	_	60755	60795 •
	120		60357	_	60757	60797





ALUMINUM OXIDE

- Aluminum oxide grains provide a good initial cut-rate and consistent performance.
- For light grinding and blending metal, fiberglass, plastic, and wood.



			Resin Fiber Backing		Cloth B	Backing
Diameter	Grit Size	Standard Pack	Type R Item #	Type S Item #	Type R Item #	Type S Item #
2"	36	100	60660	60640	60118	60040
	60		60663	60643	60121	60043
	80		60664	60644	60122	_
	120		60666	60646	60124	_
3"	36	50	60670	60650	60131	_
	60		60673	60653	60134	_
	80		60674	60654	60135	60057
	120		60676	60656	60137	60059

^{*}Contaminant-free (Contains less than 0.1% Fe. S. CI)

Non-stock product, contact Customer Service for lead times and minimum order quantities

TIGER ALUMINUM BLENDING DISCS - Aluminum Oxide

			Resin Fiber Backing		
Diameter	Grit Size	Standard Pack	Type R Item # *	Type S Item # +	
2"	36	50	59806	59869	
	60		59807	=	
	80		_	59871 •	
3"	36	25	59811	-	
	60		59812	59875	
	80		59813	59876	



BLENDING DISC BACK-UP PADS - 1/4" Stem

Diameter	Max. RPM	Standard Pack	Type R Item # *	Type S Item # +
2"	25,000	1	51551	60508
3"	20,000	1	51552	60509



Do not exceed maximum RPM of back-up pad.

- Compatible with 3M holor® back-up pads. (Roloc® is a trademark of 3M.)
 Compatible with Norton Speed-Lok® TS back-up pads. (Speed-Lok® TS is a registered trademark of Norton Co.)

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



Deburring and chamfering a section of pipe after cutting.



TRIM-KUT® DISCS - Aluminum Oxide

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
3"	5/16" - 18	36	21,000	25	59300
		60			59305
		120			59315

Do not use TRIM-KUT discs in temperatures lower than 48° fahrenheit. Store at 50% relative humidity.







TRIM-KUT DISC - Aluminum Oxide

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
4-1/2"	7/8"	36	13,000	25	59403

Do not use TRIM-KUT discs in temperatures lower than 48° fahrenheit. Store at 50% relative humidity.



TRIM-KUT ADAPTERS

Description	Description For Use With		Item Number
1/4" Mandrel	1/4" Mandrel 3" TRIM-KUT Discs		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 •





Performance line Industrial Grade



Removing burrs from the inside diameter of a cut tube.

COATED ABRASIVE FLAP WHEELS



Weiler's abrasive flap wheels are designed with a solid hub construction that enables wheels to be rated at higher RPMs and provide more aggressive cutting action and increased productivity. They provide perfect balance leading to smooth, chatter-free finishing.

Applications

- Internal diameter cleaning
- Finishing metal surfaces
- Deburring machined parts
- Cleaning and reconditioning pipe threads
- · Polishing, blending & finishing
- · Prepping surface for painting or plating
- Edge blending









A premium line designed to provide long life. Ideal for medium to high production environments.

Diameter	Width	Grit Size	Max. RPM	Standard Pack	Item Number
1"	1"	60	30,000	10	52003
		80			52004
		120			52005
1-1/2"	1"	60	25,000	10	52009
		80			52010
		120			52011
2"	1/2"	60	25,000	10	52366
		80			52367
2"	1"	60	25,000	10	52015
		80			52016
		120			52017
2-1/2"	1"	60	23,000	10	52486
		80			52487
3"	1/2"	60	23,000	10	52024
		80			52025
3"	1"	60	23,000	10	52027
		80			52028
		120			52029







TIGER MOUNTED FLAP WHEELS - 1/4"-20 Threaded Stem - Aluminum Oxide A premium line designed to provide long life. Ideal for medium to high production environments.

Diameter	Width	Grit Size	Max. RPM	Standard Pack	Item Number
1"	1"	60	30,000	10	52601
2"	1"	60	25,000	10	52611
		80			52613
3"	1"	60	20,000	10	52621
		80			52623 •

NOTE

- 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.









GREAT VALUE AT THE RIGHT PRICE

Wolverine Flap Wheels offer a high cut rate at a cost-effective price. The smart option for use in medium production environments.

APPLICATIONS

- Internal diameter cleaning
- Finishing metal surfaces
- Deburring machined parts
- Cleaning and reconditioning pipe threads
- Polishing, blending & finishing
- Prepping surface for painting or plating
- Edge blending





WOLVERINE® 1/4" STEM MOUNTED FLAP WHEELS

Provide fast cutting action at a value price. Ideal for low to medium production environments.

					Item Number
Diameter	Width	Grit Size	Max. RPM	Standard Pack	Aluminum Oxide
5/8"	5/8"	40	30,000	10	30711 •
		60			30712
		80			30713
3/4"	3/4"	40	30,000	10	30715
		60			30716
		80			30717
1"	1"	40	30,000	10	30719
		60			30720 V
		80			30721 V
		120			30722
1-1/2"	1"	40	25,000	10	30771
		60			30772
2"	1"	40	25,000	10	30732
		60			30723 V
		80			30724 V
		120			30725
3"	1"	40	23,000	10	30729
		60			30726 V
		80			30727 V
		120			30728











WOLVERINE 1/4"-20 THREADED STEM MOUNTED FLAP WHEELS

Provide fast cutting action at a value price. Ideal for low to medium production environments.

					Item Number
Diameter	Width	Grit Size	Max. RPM	Standard Pack	Aluminum Oxide
1"	1"	60	30,000	10	30745
		80			30746 •
2"	1"	60	25,000	10	30737
		80			30738
3"	1"	60	20,000	10	30735
		80			30736



DRIVE ARBOR - For 1/4"-20 Mounted Flap Wheels

Thread Size	Adapted Size	Standard Pack	Item Number
1/4"-20	1/4"	5	07756



METAL ADAPTERS - For Unmounted Flap Wheels. Used in pairs and priced per pair.

Wheel Arbor Hole Size	Adapted Arbor Hole Size	Standard Pack	Item Number
1"	3/4"	1	03835 •



Non-stock product, contact Customer Service for lead times and minimum order quantities.

FINEST AT THE FINISH

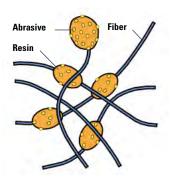
Non-woven abrasive products can be used in a broad range of surface-conditioning applications from cleaning and finishing to deburring and light blending. Unlike bonded and coated abrasives, they cannot be used for applications requiring heavy stock removal such as grinding and weld blending.

Technical Information	52
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Surface Conditioning Discs	54
Unitized Wheels	55
Interleaf Flap Wheels	56
Hand Pads	56

SELECTING THE RIGHT PRODUCT

The various grades of non-woven products produce scratch patterns that can be compared to those produced by coated abrasive products. However, their pliable nature results in a softer, less pronounced scratch-line pattern. The strength of these products is producing decorative finishes ranging from satin to near-mirror polish.

Denser non-woven products are suitable for applications requiring light stock removal such as removing large, well-attached burrs and blending minor tool marks and imperfections.



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.

Grade	Grit Range
Ultra Fine	600
Very Fine	240-360
Fine	180-220
Medium	100-150
Coarse	50-80
Extra Coarse	24-40

NEW! Weiler Tiger strip discs deliver unmatched cleaning power and product life for steel and stainless steel. Tiger Ceramic provides an aggressive cleaning solution to maximize productivity, while Tiger SiC delivers a high initial cut and penetration for cleaning hard surfaces. The ultra-flexible non-woven nylon fiber and resin formula create a wider footprint, increasing productivity without compromising disc life. This results in industry-leading material removal and cleaning power for maximum surface cleaning efficiency.

FEATURES & BENEFITS

Conformable design increases the contact area with the work surface

MAX PERFORMANCE / TIGER CERAMIC

- Industry-leading material removal and cleaning speed maximizes productivity
- Contaminant-free formula provides a worry-free solution for stainless steel
- Extra coarse grain aggressively cleans the surface and prepares it for finishing

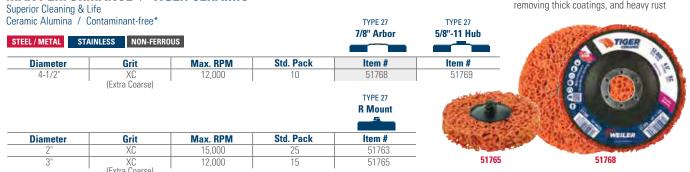


Weld cleaning with a strip disc.



APPLICATIONS

weld cleaning, surface preparation, blending, removing thick coatings, and heavy rust



TYPE 27

NEW!

NEW!

HIGH PERFORMANCE / TIGER SIC Fast Cleaning & Long Life

Silicon Carbide / Low Sparking & Hard Surraces				7/8" Arbor	1YPE 27 5/8"-11 Hub
STEEL / METAL	STAINLESS			776 Alboi	3/8 -11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	XC (Extra Coarse)	12,000	10	51766	51767

				R Mount
Diameter	Grit	Max. RPM	Std. Pack	Item #
2"	XC	18,000	25	51762
3"	ΧC	13 500	15	5176/

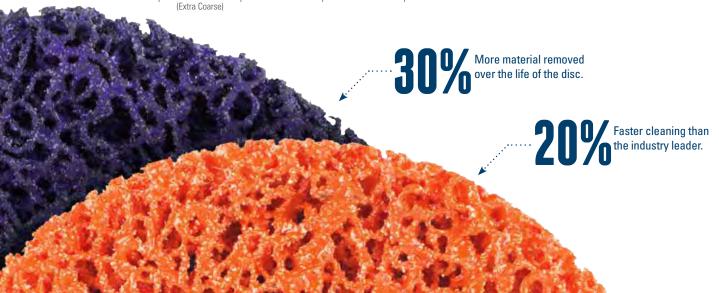
APPLICATIONS

removing paint, rust, light mill scale, varnish, and weld cleaning



51767

NON-WOVEN ABRASIVES



^{*}Contaminant-free (Contains less than 0.1% Fe, S, CI)



Finishing the surface for a stainless steel part for the food service industry.

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, corrosion and oxidation
- · Cleaning and removing stains from stainless steel
- Producing satin finishes on aluminum and stainless steel







TYPE R HUB STYLE DISCS - General Purpose Compatible with 3M Roloc[™] back-up pads.



Diameter	Grade	Standard Pack	Item Number
2"	Very Fine (Blue)	50	51530
	Medium (Maroon)		51531
	Coarse (Brown)		51532
3"	Very Fine (Blue)	25	51533
	Medium (Maroon)		51534
	Coarse (Brown)		51535



TYPE R HUB STYLE BACK-UP PADS - 1/4" Stem

Diameter	Max. RPM	Standard Pack	Item Number
2"	30,000	1	51551
3"	20,000	1	51552

Do not exceed maximum RPM of back-up pad.







HOOK & LOOP STYLE DISCS





Diameter	Grade	Standard Pack	Item Number
4-1/2"	Very Fine (Blue)	10	51512
	Medium (Maroon)		51513
	Coarse (Brown)		51514
5"	Coarse (Brown)	10	51517
7"	Very Fine (Blue)	10	51521
	Medium (Maroon)		51522
	Coarse (Brown)		51523



HOOK & LOOP STYLE BACK-UP PADS

Diameter	Arbor Hole or Stem Size	Max. RPM	Standard Pack	Item Number
3"	1/4" Stem	18,000	1	51562 •
4-1/2"	5/8" -11 Arbor	13,000	1	51569
5"	5/8" -11 Arbor	10,000	1	51575
7"	5/8" -11 Arbor	6,000	1	51578

Non-stock product, contact Customer Service for lead times and minimum order quantities.

UNITIZED WHEELS

FEATURES & BENEFITS

- Ideal for use in a broad range of surface conditioning applications from cleaning and finishing to deburring and light blending
 Can be used in wet and dry applications
 Resist loading and perform consistently as new, fresh abrasive grains are exposed

- Designed for use on die grinders



A unitized wheel deburring a ring gear.





UNITIZED WHEELS - Designed for use on die grinders and are ideal for a variety of cleaning, finishing, deburring and edge blending applications.

Diameter	Face Width	Arbor Hole	Grain	Grade	Max. RPM	Standard Pack	ltem Number
		Seri	es 2 - Cleaning & Fi	nishing - Hardn	ess: Soft		
3"	1/4"	1/4"	Silicon Carbide	Fine	12,000	10	55513 •
		Seri	ies 6 - Deburring - H	lardness: Medi	um/Hard		
3"	1/4"	1/4"	Aluminum Oxide	Fine	18,000		54492
		Series 8 - HD	Deburring & Polishi	ng - Hardness:	Hard (Heavy-D	uty)	
3"	1/8"	1/4"	Aluminum Oxide	Coarse	18,000	10	55546
	1/4"			Medium			55541
	1/2"			Medium			55542



55513

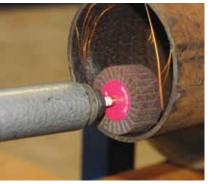


MANDRELS

Stem Diameter	For Wheel Diameter	For Wheel Thickness	Standard Pack	Item Number
1/4"	2" - 3"	1/2"	1	07761
	1"	1"	1	07764 •
	2" - 3"	1/8" - 1/4"	10	56489



[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.



Deburring the I.D. of a steel pipe with an interleaf flap wheel.







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	Item Number
2"	1"	120	1/4"	13,700	10	54500
		180				54501
		320				54502
3"	1"	120	1/4"	8,600	10	54506
		180				54507
		320				54508
3"	2"	120	1/4"	8,600	10	54509
		180				54510



HAND PADS

Industrial Grade:

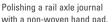
- Producing satin finishes on aluminum and stainless steel
- Light deburring

51457

- Surface preparation
- Blending light scratches

Commercial Grade:

- Cleaning and removing stains from stainless steel
- Removing rust, corrosion and oxidation





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.

Size	Grain	Grade	Description	Standard Pack	Item Number
			Industrial Grade		
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
			Commercial Grade		
6" x 9"	(9" Aluminum Oxide Fine		Economy (Green)	400	51456
6" x 9"	Aluminum Oxide	Medium	Standard-Duty (Green)	60	51457



SOLUTIONS SHOWCASE

TUBE 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.

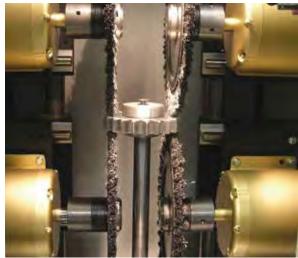
Solution: Wide face crimped wire wheel brushes are an extremely effective solution for tube end deburring. Brushes can deburr the OD and ID of tubing at an extremely high rate and produce a media-cost-per-part of considerably less than \$0.01 per part.



GEAR DEBURRING

Problem: Power transmission components like gears cannot function properly when burrs prevent correct engagement. Further, burrs that 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 6,000 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 that generate an expensive waste stream and can be costly to operate and maintain.















INTER-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.







CLEANING 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.







REMOVAL 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.

SELECTING THE RIGHT BRUSH

SELECTION BY TOOL	Crimped Wheels	Knot Wheels	Crimped Cups	Knot Cups	Crimped Stem-Mtd. Wheels	Knot Stem-Mtd. Wheels	Crimped Stem-Mtd. End	Knot Stem-Mtd. End	Encap- sulated Brushes	Power & Hand Tube Brushes	Mini Brushes
Right Angle Grinder	V	~	~	V					V		
Straight Grinder	V	V			V	~	V	V	V		
Die Grinder	V	V			V	V	V	V	V		
Corded/Cordless Hand Drill					V	V	V	V		V	
High Speed Pencil Grinder											V
Bench/Pedestal Grinder	~	V							V		
Drill Press					V	V	V	V		V	
CNC/Milling/ Automatic Machine	~	~	~	~	~	~	~	~	~	~	

WIRE SIZE 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.

Wire	Coa	arse	Medium	to Coarse	Medium		Fine		Very Fine	
Gauge #	20	24	25	30	33	34	35	38	43	47
Dia. in Inches	.035	.023	.020	.014	.0118	.0104	.0095	.008	.006	.005
Dia. in Millimeters	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)

LARGE DIAMETER WIRE

- Aggressive brushing action
- Fatigues and breaks more quickly

SMALL DIAMETER WIRE

- Resists fatigue and breakage
- Less aggressive
- Flexible brushing action

CRIMPED VS. KNOT WIRE

CRIMPED WIRE BRUSHES:



- Greater flexibility for light/medium duty applications.
- Use on parts that could be damaged by the impact of a knot brush.
- Use for a broad range of applications.

KNOT WIRE BRUSHES:



- 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.

KNOT TWIST CONFIGURATIONS



Provides some flexibility for use on irregular surfaces. Sharp wire tips make this knot aggressive right from the start.



Provides smoother operation but sacrifices much of the cleaning action.



CABLEProvides very aggressive brushing action. Sharp wire tips make this knot aggressive right from the start.



STRINGER BEAD
High-impact action,
primarily for weld cleaning.
Sharp wire tips make this
knot aggressive right from
the start.

TRIM LENGTH & FILL DENSITY

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.

LONG TRIM, LOW DENSITY BRUSHES

- Flexibility that is ideal for applications such as cleaning surfaces that are somewhat irregular
- Lower fill density can result in shorter brush life and less consistent performance in production environments.

SHORT TRIM, HIGH DENSITY BRUSHES

- Less flexible and faster action requires less applied pressure
- Consistent performance and longer life



POLYFLEX® ENCAPSULATED

These brushes are suitable for extremely demanding applications that 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.

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.

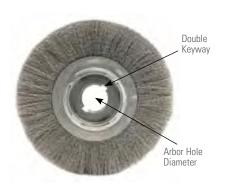
ARBOR HOLE VARIATIONS

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

^{*} Width of keyway + Depth of 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 1" arbor hole is desired, drop the 8 from 01228 and add 0-12. The Item Number becomes 01220-12.

PRODUCT ADVANTAGES

PRODUCT LINE STRUCTURE

P PERFORMANCE LINE (INDUSTRIAL GRADE)

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.

VALUE LINE (PROFESSIONAL GRADE)

Weiler's value line is manufactured using similar product construction and the same exacting standards as other Weiler power brushes, but engineered to provide cost-effective use in less demanding environments. Wolverine™ brushes (Formerly Vortec Pro*) are an economical choice for the construction trades, low volume production shops and light duty industrial MRO use.

OPERATIONAL ADVANTAGES

POWER BRUSHES DO NOT REMOVE BASE MATERIAL

- The impact action of the 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.
- Due to its compliant nature, a power brush is the ideal tool for removing burrs and blending sharp edges without changing overall part dimensions after sawing, cutting, grinding and machining operations.

Grinding Wheel



Wire Wheel



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



Wheel Brush



POWER BRUSHES ARE SELF-SHARPENING

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.

WEILER SUPERIOR CONSTRUCTION





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.



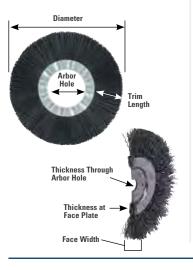


WEILER'S ROUGHNECK® WELD CLEANING BRUSH CONSTRUCTION

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 CHARACTERISTICS

WHEEL BRUSH



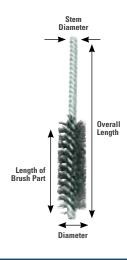
CUP BRUSH



END BRUSH



TUBE BRUSH



FILL MATERIALS



Steel Wire - Carbon steel wire is 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. Wolverine* brushes utilize more cost-effective grades of steel wire to deliver reliable performance in less demanding applications.



Stainless Steel Wire - Stainless steel wire is only recommended when brushing corrosion-resistant or non-ferrous metals such as stainless or aluminum or when the brush is being used in a wet environment. Stainless steel wire is not 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.



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.



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.



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.



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 alkali. Polypropylene is less durable and used primarily in strip brushes.

STAINLESS STEEL BRUSHES

Weiler's stainless steel wire brushes are 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 crosscontamination 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 that 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 not 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.

WORK SAFER WITH PROPER BRUSH USAGE

Weiler products are designed and manufactured to the strictest standards to ensure the highest level of quality and safety. But safety doesn't stop there; raising awareness of basic safety practices and thinking about safety before the job starts — and after the job is complete — can help curb accidents and injuries in the shop. That's why Weiler offers customers a Safety Training Program based on the **SPOT (Speed & Size, Pressure, Orientation, Time)** methodology to help promote safe and proper product usage.

SPOT WHEN USING ABRASIVES & BRUSHES

Deploying our **SPOT Safety Training Program** in your facility helps improve safety, regardless of vour application or work environment.

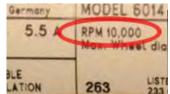
For **SPOT Safety Training** contact your Weiler representative.

SPEED & SIZE

- Power brushes, 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 not 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.

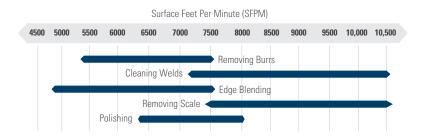
 Make sure spindle size and motor of machine are large enough to accommodate the diameter of brush to be used (see table on pg. 55).





Match the RPM rating of the power brush to the tool being used. The RPM of the tool should never exceed the RPM of the power brush.

RECOMMENDED SURFACE SPEEDS FOR BRUSHING APPLICATIONS



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

SURFACE SPEEDS (PERIPHERAL SPEED IN FT./MIN.)

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

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

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"	1"
14"	3"	1-1/4"
15"	3"	2"
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 (Based on 1" Brush Face)

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

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:

- A brush with more aggressive action (increase filament diameter, decrease trim length, different brush type, i.e.; knot type instead of crimped type.
- Higher surface speed (increase RPM or brush diameter)

Never exceed the recommended Maximum Safe Free Speed or RPM rating of the brush.



CorrectWire Tips Doing the Work

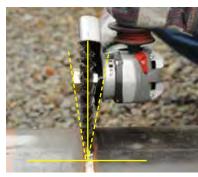


Incorrect
Excessive Pressure Causes Wire
Breakage

ORIENTATION

WORKING ANGLE BY BRUSH TYPE

Never stray more than 15° from the suggested working angles of the brush configurations below.



WHEEL +/- 15°



CUP +/- 15°



BEVEL +/- 15°

TIME

Reduce the time it takes to get the job done by choosing the most appropriate product configuration. (See page 63 for product selection information.)

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.





Remount Securely

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.

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	Select a brush with a larger diameter wire
instead of removing burr	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

NEED HELP?

For more information and to schedule a consultation with a Weiler Process Solutions expert visit: weilerabrasives.com/wps.

To discuss specific requirements with a specialist call: 800-835.9999.





KNOT WIRE WHEELS WITH ARBOR HOLE

Knot wire wheels with arbor holes 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.

		0 0 1									
	140	0.1	No. of	F	T.:	Max.	Thickness		0.1	Item N	lumber
Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	AH Avail.	at Face Plates	Max. RPM	Std. Pack	Steel	Stainless
3"	.0118	1/2"-3/8"	20	3/8"	5/8"	1/2"	7/16"	25,000	10	08004	08254
	.014									08014 V	08264
	.020									08024 ▲	08274
4"	.0118	1/2"-3/8"	24	1/2"	7/8"	1/2"	7/16"	20,000	10	08034	08284
	.014									08044 P	08294
	.020									08064	08314
4"	.014	5/8"-1/2"	24	1/2"	7/8"	7/8"	7/16"	20,000	10	08045	- 1
6"	.0118	5/8"-1/2"	24	1/2"	1-3/8"	1-1/4"	9/16"	9,000	10	08075	08325
	.014									08085	- 1
	.016									08095	08345
	.023									08105	_
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	5/8"	38	5/8"	1-5/8"	2"	1/2"	6,000	2	08125	08375
	.014									08135	-
	.016									08145	08395
	.023									08155	- 1
8"	.014	3/4"	38	5/8"	1-5/8"	2"	1/2"	6,000	2	08138	- 2
10"	.014	3/4"	52	3/4"	1-3/4"	2-1/2"	3/4"	4,500	2	08178	- 40
10"	.014	1-1/4"★	52	3/4"	1-3/4"	2-1/2"	3/4"	4,500	2	08179	- 🕮
	.016									08189	- 100
12"	.014	1-1/4"★	52	3/4"	2-3/4"	2-1/2"	11/16"	3,600	1	08209	- 42
	.016									08219	- / -
12"	.014	2"◆	52	3/4"	2-3/4"	2-1/2"	11/16"	3,600	1	08200-14	- 7
12"	.020	1-1/4"★	56	5/8"	2-3/4"	3"	13/16"	4,500	2	09719	_ 7
12"	.023	2"◆	66	3/4"	2-1/4"	3"	13/16"	5,000	2	09870	-

^{★ 5/16&}quot; x 5/32" Double Keyway

◆ 1/2" x 1/4" Double Keyway

▲ Available in non-sparking bronze wire, see page 102-103 for details. **BOLD BLACK ITEM** numbers indicate color-coded brushes for easy identification.

P V Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



MADE IN

USA

Removing rubber coating from a hydraulic hose.



0826



08189



WOLVERINE® STANDARD TWIST WHEELS provide aggressive brushing action for general-purpose surface cleaning applications.

						Max.	Thickness			Item N	umber
Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	AH Avail.	at Face Plates	Max. RPM	Std. Pack	Steel	Stainless
3"	.014	1/2"-3/8"	20	3/8"	3/8"	1/2"	7/16"	25,000	10	36290	-
4"	.014	1/2"-3/8"	24	5/8"	7/8"	1/2"	9/16"	20,000	10	-	36293 •
6"	.014	5/8"-1/2"	24	1/2"	1-1/4"	5/8"	9/16"	9,000	10	36227	-
8"	.023	5/8"	38	9/16"	1-5/8"	5/8"	1/2"	6,000	2	36279	-

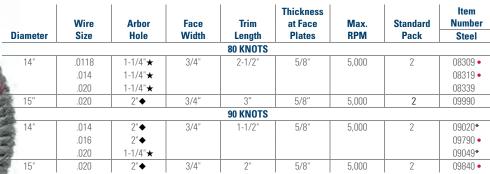
NOTE

If a different arbor hole is required (than listed in the tables) refer to Arbor Hole Table shown on Pg. 61.









★ 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.

Diameter	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Standard Pack	Item Number 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	2"	60	7/8"	1-3/8"	7/8"	8,000	5	09160
8"	.016 .0118	2"	76	1"	1-5/8"	1"	6.000	1	09180 09410
O	.016	Δ	70	'	1-5/0		0,000	'	09410
	.023								09440
10"	.0118	2"	104	1-1/4"	1-3/4"	1-1/4"	4,500	1	09460
	.016								09480
	.023								09490
12"	.0118	2"	104	1-1/4"	2-3/4"	1-1/4"	3,600	1	09510
	.016								09530
	.023								09540

See Metal Adapters on page 76 for brushes with 2" arbor holes.





STANDARD TWIST WHEEL - 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.

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

See Metal Adapters on page 76 for brushes with 2" arbor holes.



CABLE TWIST WHEELS provide maximum brushing action with minimal flexibility; ideal for demanding cleaning and coating removal applications on relatively smooth surfaces.

	Wire	Arbor	No. of	Face	Trim	Max. AH	Thickness at Face				. Thickness at Face	Max.	Std.	Item N	lumber
Dia.	Size	Hole	Knots	Width	Length	Avail.	Plates	RPM	Pack	Steel	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 Variations Table on page 61.

★ 5/16" x 5/32" Double Keyway

*Standard Pack 2



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.

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



JOINT & CRACK CLEANING WHEELS feature heavy-duty construction and an extra long trim length for cleaning expansion joints and cracks in concrete and asphalt.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Standard Pack	Number Steel
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"	6,000	2	94026

^{*}Drive holes are 3/8" diameter with 1/4" x 1/8" double keyway.

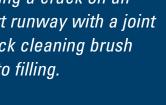


ADAPTER for mounting Joint & Crack Cleaning Wheels onto a 20mm arbor.

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



Cleaning a crack on an airport runway with a joint & crack cleaning brush prior to filling.











If a different arbor hole is required (than listed in the tables) refer to Arbor Hole Table shown on Pg. 61.





Cleaning a corner weld with a bevel brush.

KNOT WIRE WHEELS WITH NUT

Knot wire wheels with a threaded nut are 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.

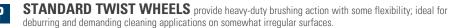




APPLICATIONS

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





	Wire	Arbor	No. of	Face	Trim	Max.	Std.	Item N	lumber
Dia.	Size	Hole	Knots	Width	Length	RPM	Pack	Steel	Stainless
3"	.014	3/8"-24 UNF	20	3/8"	5/8"	25,000	5	13201	13208 •
4"	.014	M10 x 1.50	24	1/2"	7/8"	20,000	5	-	13108 •
		3/8"-24 UNF						13103	13110
		1/2"-13 UNC						13105	_
		5/8"-11 UNC						13106 P V	13113 🛭
4"	.020	3/8"-24 UNF	24	1/2"	7/8"	20,000	5	13117	-
		5/8"-11 UNC						13120 ☑ ▲	_
6"	.016	5/8"-11 UNC	24	1/2"	1-3/8"	9,000	5	_	08346
	.023							08106	_

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.

▲ Available in non-sparking bronze wire, see page 102-103 for details.

☑ ☑ Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.





WOLVERINE® STANDARD TWIST WHEELS provide an aggressive brushing action for general purpose deburring, cleaning, and surface preparation applications.

	Wire	Arbor	No. of	Face	Trim	Max.	Std.	Item N	lumber
Dia.	Size	Hole	Knots	Width	Length	RPM	Pack	Steel	Stainless
4"	.014	5/8"-11 UNC	20	1/2"	7/8"	20,000	5	36212	36213
6"	.025	5/8"-11 UNC	24	3/4"	1-1/4"	11,000	10	36224	-





CABLE TWIST WHEELS provide maximum brushing action with minimal flexibility; ideal for demanding cleaning and surface preparation applications on relatively smooth surfaces.

	Wire	Arbor	No. of	Face	Trim	Max.	Std.	Item N	umber
Dia.	Size	Hole	Knots	Width	Length	RPM	Pack	Steel	Stainless
4"	.020	5/8"-11 UNC	24	1/4"	7/8"	20,000	5	13266 PV	13276

■ ID Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.
BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.





WOLVERINE CABLE TWIST WHEELS provide the most aggressive brushing action for general purpose cleaning and surface preparation applications.

	Wire	Arbor	No. of	Face	Trim	Max.	Std.	Item Number
Dia.	Size	Hole	Knots	Width	Length	RPM	Pack	Steel
4"	.020	5/8"-11 UNC	20	1/4"	7/8"	20,000	5	36255

STANDARD TWIST BEVEL BRUSHES are saucer-shaped radial wheels that provide a heavy-duty brushing action with some flexibility; ideal for cleaning fillet welds and into corners.

_	=	

	Wire	Arbor	No. of	Face	Trim	Max.	Std.	d. Item Number	
Diameter	Size	Hole	Knots	Width	Length	RPM	Pack	Steel	Stainless
4"	.014	5/8"-11 UNC	20	3/8"	3/4"	12,500	1	13406	13416
4"	.020	M14 x 2.0	20	3/8"	3/4"	12,500	1	13423 •	-
		5/8"-11 UNC						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

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification





THREADED ADAPTERS for mounting brushes with a 5/8"-11 UNC nut to other threaded spindles.

Fixe	d Thread Size	Adapted Thread Size	Standard Pack	Item Number
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



KNOT WIRE WHEELS WITH STEM



Knot wire wheels with a permanently attached 1/4" stem or shank are primarily intended for use on highspeed 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, epoxy-based paints, and rubberized coatings
- Weld preparation and cleaning
- Cleaning scale and heavy corrosion
- · Removing heavy burrs from large pieces after cutting



STANDARD TWIST WHEELS 1/4" Stem - Provide heavy-duty brushing action with some flexibility; ideal for deburring and demanding cleaning applications on somewhat irregular surfaces.

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



■ Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.

"We get a competitive edge with Weiler because their prices are









Non-stock product, contact Customer Service for lead times and minimum order quantities

WELD CLEANING BRUSHES

Weiler's stringer bead wheels are the most effective weld cleaning tools for the most demanding users. Our premium weld cleaning brushes are manufactured to the most stringent quality standards, utilizing the highest quality wire available. The twist puts all the sharp tips at the end of the knots, making them the fastest, most aggressive weld cleaning tools on the market.







ROUGHNECK. MAX



Roughneck Max wheels have been re-engineered to MAXimize life, efficiency and consistency. But that is only a small part of what makes this brush better...

- Smooth & Responsive Improved feel and comfort during use makes brush operation effortless
- No Long Wire Breakage Stronger, sharper wire delivers consistency and performance you can count on
- Cleans 40% Faster Unmatched cleaning power compared to competitors
- Less Force Required The operator can apply less pressure to clean, letting the wire do the work



13138

ROUGHNECK® MAX STRINGER BEAD WHEELS deliver unmatched weld cleaning performance by maximizing life, efficiency and consistency. The 4" brushes are recommended for cleaning root pass welds, surface prep and other cleaning applications.



☑ ☑ Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.
BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.

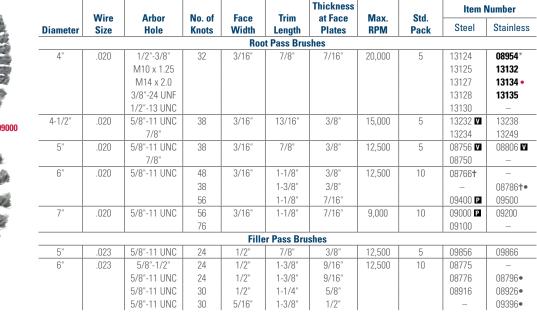


13124

ROUGHNECK.











THE DUALLY®





MADE IN

- **Maximum Cleaning Action** Featuring a knot twist with the most aggressive cutting action, the new dual-hex nut makes it easier for the user to regularly switch mounting position and keep the brush running at peak performance.
- Long Wheel Life Utilizing the highest quality heat-treated Steel wire and construction that virtually eliminates
 knot movement, the Dually delivers smooth operation and long life for the lowest cleaning costs in demanding multi-pass
 welding applications such as pipeline construction.
- **Improved User Safety** The one-piece, dual-hex nut is designed to provide adequate tool clearance so there is no need to remove the guard from the grinder in order to change the position of the wheel.



Removing weld slag before the next weld pass.

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.

	Wire	Arbor	No. of	F	Trim	Thickness at Face	Max.	Standard	Item N	Number
Diameter	Size	Hole	Knots	Face Width	Length	Plates	RPM	Pack	Steel	Stainless
				Roo	t Pass Brus	shes				
4-1/2"	.020	5/8"-11 UNC	38	3/16"	13/16"	3/8"	15,000	5	79801	79811
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	79810 •
				Fille	r Pass Bru	shes				
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	_



79802

P

POLYFLEX™ ENCAPSULATED WELD CLEANING 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.

	Wire	Arbor	No. of	Face	Trim	Thickness at Face	Max.	Standard	ltem Number
Diameter	Size	Hole	Knots	Width	Length	Plates	RPM	Pack	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 ◆
7"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	9,000	10	35600 ▲
	.014		-		1-15/16"	3/8"		5	35216 ♦

^{*} See Elastomer Color Code Chart on page 61 for more information. ▲ Stringer Bead Wheels ◆ Crimped wire



35216



Wolverine wheels offer professional grade quality and performance at a great value. Re-engineered, these 32 knot wheels deliver 20% MORE life while maintaining aggressive cleaning power for weld cleaning applications.



	Wire	Arbor	No. of	Face	Trim	Thickness at Face	Max.	Standard	ltem l	Number
Diameter	Size	Hole	Knots	Width	Length	Plates	RPM	Pack	Steel	Stainless
4"	.020	5/8"-11 UNC	32	3/16"	7/8"	7/16"	20,000	5	36218	36219

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.



36219

WOLVERINE STRINGER BEAD WHEELS are 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.

	Wire	Arbor	No. of	Face	Trim	Max.	Standard	Item N	lumber
Dia.	Size	Hole	Knots	Width	Length	RPM	Pack	Steel	Stainless
5"	.020	5/8"-11 UNC	38	3/16"	7/8"	12,500	5	36295	36296
6"	.020	5/8"-11 UNC	48	1/4"	1-1/4"	12,500	10	36225	_
			38	3/16"	1-3/8"			36307 †	-
7"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	9,000	10	36297	_

• Non-stock product, contact Customer Service for lead times and minimum order quantities.



Removing heat discoloration from a stainless steel canister.

CRIMPED WIRE WHEELS WITH ARBOR HOLE

Crimped Wire Wheels with Arbor Hole are intended for use on straight 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

01035

01238

01299



CRIMPED WIRE WHEELS - Narrow Face - provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications.

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



If a different arbor hole is required (than listed in the tables) refer to Arbor Hole Table shown on Pg. 61.

^{♦ 1/2&}quot; x 1/4" Double Keyway ★ 5/16" x 5/32" Double Keyway • 1/4" x 1/8" Double Keyway * Standard Pack 2

Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

[▲] Available in non-sparking brass wire, see page 102-103 for details.

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.



WOLVERINE® CRIMPED WIRE WHEELS - Narrow Face - provide a flexible brushing action and cost-effective performance in general purpose cleaning and deburring applications.

	Wire Size		Max. AH	Max.RPM	Std.	Item N	lumber		
Dia.	wire Size	Hole	Width	Length	Avail.	IVIAX.NFIVI	Pack	Steel	Stainless
4"	.014	1/2"-3/8"	1/2"	3/4"	1/2"	6,000	2	36262	-
6"	.014	5/8"-1/2"	3/4"	1-1/4"	5/8"	6,000	10	_	36201 •
8"	.014	5/8"	3/4"	2"	5/8"	6,000	2	36205	-







Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Standard Pack	Item Number Steel
			Burg	gundy Elasto	mer* - Stan	dard			
6"	.0104	5/8"-1/2"	1/2"	1-7/16"	1-1/4"	7/16"	6,000	2	35105
8"	.014	5/8"	1/2"	2-1/16"	1-1/2"	1/2"	6,000	2	35135

 $[\]ensuremath{^{\bigstar}}$ See Elastomer Color Code chart on page 61 for more information.



35105



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.

ь.	Wire	Arbor	Face	Trim	Max.	Thickness at Face	Max.	Standard	Item Number
Dia.	Size	Hole	Width	Length	Avail.	Plates	RPM	Pack	Steel
6"	.006	5/8"-1/2"	1/2"	1-1/16"	1-1/4"	7/16"	6,000	10	01085
	.008								01095
	.0118								01115
	.014								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	Max. AH	Thickness at Face	Max.	Std.	Item N	lumber
Dia.	Size	Hole	Width	Length	Avail.	Plates	RPM	Pack	Steel	Stainless
4-1/4"	.014	5/8"-1/2"	3/4"	5/8"	3/4"	9/16"	6,000	1	01502 •	-
6"	.0118	5/8"-1/2"	3/4"	1-1/8"	1"	9/16"	6,000	1	_	01508 •
	.014								01505 •	01509 •
	.020								01506 •	-
7"	.014	5/8"	7/8"	1-5/8"	1"	9/16"	6,000	1	01511	-
8"	.0118	5/8"	7/8"	1-1/2"	1-1/4"	11/16"	4,500	1	01514	_
	.014								01515	_





01515





06040

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.

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



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



WOLVERINE® 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.

	Wire	Arbor	Face	Trim	Thickness	Max.	Standard	Item Number
Dia.	Size	Hole	Width	Length	at Face Plates	RPM	Pack	Steel
6"	.014	5/8"-1/2"	5/8"	1-1/16"	1/2"	6,000	1	02325
			3/4"	1-7/16"	7/16"			36203
7"	.014	5/8"	3/4"	1-9/16"	1/2"	6,000	1	02335

1222



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"	03809
	5/8"	03810
	3/4"	03811
	7/8"	03824
	1"	03812
	1-1/4"	03813
	1-1/2"	03814



22061





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.

	Wire	Arbor	Face	Trim	Number	Max.	Std.	Item Number
Dia.	Size	Hole	Width	Length	of Rows	RPM	Pack	Brass*
4"	.004	1/4"	1"	1-1/4"	4	4,000	5	22061 •

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

Non-stock product, contact Customer Service for lead times and minimum order quantities.



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 Face	Max.	Ctandand	Item N	lumber
Dia.	Size	Hole	Width	Length	Plates	RPM	Standard Pack	Steel	Stainless
4-1/2"	.006	2"	1-1/4"	3/4"	7/8"	6,000	1	03000 •	-
	.0118							03010 •	_
	.014							03020 •	-
6"	.006	2"	1-1/4"	1-1/8"	1"	6,000	1	03030 •	03480
	.0118							03060	03510
	.014							03070	03520
7"	.0118	2"	1-1/4"	1-5/8"	1"	6,000	1	03090	-
	.014							03100	-
8"	.006	2"	1-1/2"	1-3/8"	1-3/8"	4,500	1	03110	
	.0118							03140	03590 • 🗿
	.014							03150	- 8
	.020							03160	- 8
10"	.0104	2"	2"	1-7/8"	1-5/8"	4,000	1	03180	- 1
	.0118							03190	- 1
	.014							03200	_
	.020							03210	-
12"	.0118	2"	2"	2-7/8"	1-9/16"	3,000	1	03220	-
	.014							03230	03680
	.020				1-11/16"			03240	_



For arbor hole reducing adapters, see Metal Adapter Table on page 76.

WOLVERINE® 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	Standard Pack	Item Number Steel
6"	.014	2"-5/8"-1/2"	7/8"	1-1/8"	7/8"	6,000	1	06645
7"	.014	2"-5/8"	7/8"	1-5/8"	7/8"	6,000	1	06655
8"	.014	2"-5/8"	1"	1-3/8"	1"	4,000	1	36206







POLYFLEX™ ENCAPSULATED CRIMPED WIRE WHEEL - Wide Face - Burgundy*

Elastomer* - Features 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.

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

^{*} See Elastomer Color Code Chart on page 61 for more information. For arbor hole reducing adapters, see Metal Adapter Table on page 76.



35160



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

SMALL DIAMETER "COPPER CENTER" WHEELS

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.



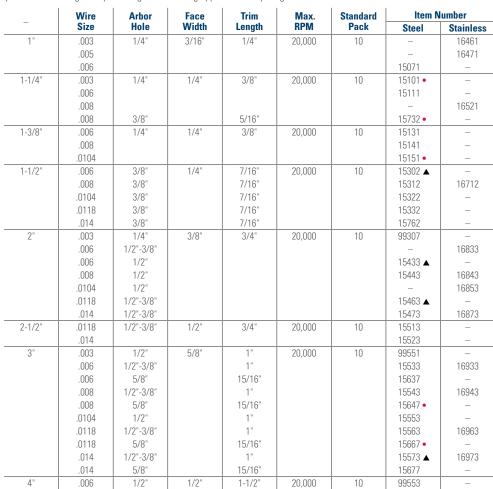
APPLICATIONS

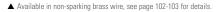
- · Removing carbon build-up and deposits
- Removing rust and light corrosion
- Cleaning and finishing ID's and recessed areas
- Cleaning boiler tubes and internal passages
- Cleaning threads
- Wire stripping
- Light deburring





SMALL DIAMETER WHEELS provide a flexible brushing action and consistent performance for light-duty cleaning and deburring applications requiring a small wheel.











15111



16712



15433



15563



99553

P

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.

	Wire	Arbor	Face	Trim	Max.	Standard	Item Number
Diameter	Size	Hole	Width	Length	RPM	Pack	Steel
2"	.0104	1/2"	1/4"	1/2"	20,000	10	35240
	.014						35070
3"	.0118	1/2"	1/4"	1"	20,000	10	35250
	.014						35260

^{*} See Elastomer Color Code chart on page 61 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, contact a specialist at: 800-835-9999.



NOTE

- 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 55) or exceed
 the maximum wheel diameter specified for a drive arbor.
- Never mount a drive arbor onto a tool that 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.





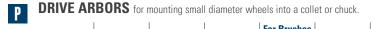












Arbor Dia.	Stem Dia.	Stem Length	Length of Shaft	For Brushes with a Max. Dia. of	Overall Length	Max. RPM	Standard Pack	ltem Number
			U	Inthreaded Sha	ıft			
1/4"	1/4"	1-1/8"	3/16"	2"	2-1/16"	20,000	5	07723
3/8"	1/4"	1-1/8"	3/16"	4"	1-15/16"	20,000	5	07722
				Threaded Shaf	t			
1/4"	1/4"	1-1/16"	1-1/8"	2"	2-9/16"	20,000	5	07725
3/8"	1/4"	3/4"	3/4"	3"	1-9/16"	25,000	5	07727
3/8"	1/4"	1"	1-1/8"	3"	2-9/16"	20,000	5	07726
1/2"	1/4"	3/4"	3/4"	3"	1-3/4"	25,000	5	07724
1/2"	1/4"	7/8"	3/4"	3"	1-11/16"	20,000	5	07721
5/8"	1/4"	3/4"	3/4"	3"	1-13/16"	25,000	5	07729



PLASTIC ADAPTERS for mounting small diameter wheels onto various arbor sizes.

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





Removing flash from a sand-cast iron engine block.

CRIMPED WIRE WHEELS WITH NUT OR STEM

Crimped wire wheels with a threaded nut 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



13085



CRIMPED WIRE WHEELS provide a flexible brushing action and consistent performance for demanding light-duty cleaning and deburring applications.



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

^{*} Polyflex™ encapsulated - Burgundy elastomer. See Elastomer Color Code Chart on page 61 for more information.



36207



WOLVERINE® CRIMPED WIRE WHEEL provides a flexible brushing action and cost-effective performance in general purpose cleaning and deburring applications.



	Wire	Arbor	Face	Trim	Max.	Standard	Item Number
Diameter	Size	Hole	Width	Length	RPM	Pack	Steel
4"	.014	5/8"-11 UNC	1/2"	3/4"	14,000	5	36207

Crimped wire wheels with a 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

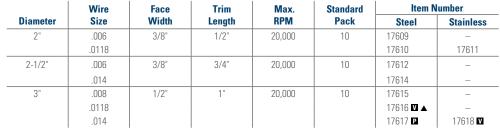
- Cleaning and finishing ID's and recessed areas
- Paint removal and surface cleaning
- Cleaning threads
- Light deburring







CONFLEX BRUSHES Narrow Face - 1/4" Stem - Provide a very flexible brushing action.



Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



35310

POLYFLEX™ ENCAPSULATED CONFLEX BRUSHES - Burgundy Elastomer* -

1/4" Stem - Feature an encapsulation that gradually wears away to expose a consistent short trim for higher aggression, controlled brushing action, and longer life.

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

^{*} See Elastomer Color Code Chart on page 61 for more information.

 $[\]blacktriangle$ Available in non-sparking brass wire, see page 102-103 for details

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

CONFLEX BRUSHES - Wide Face - 1/4" Stem - 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	Face	Trim	Max.	Standard	Item I	Item Number					
Diameter	Size	Width	Length	RPM	Pack	Steel	Stainless					
1-1/4"	.006	1/2"	3/8"	20,000	10	17600	-					
	.008					17601	_					
1-1/2"	.006	1/2"	1/2"	20,000	10	17602	_					
	.008					17603	_					
	.0118					17604	_					
1-3/4"	.006	1/2"	5/8"	20,000	10	17605	_					
	.008					_	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	1"	15/16"	20,000	10	17621	17637					
	.0118					17622	_					
	.014					17623	_					



P CRIMPED WIRE RADIAL WHEELS 1/4" **Stem** - Feature side plates for a shorter trim length and more controlled brushing action in a stem-mounted crimped wire wheel.

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





WOLVERINE® CRIMPED WIRE RADIAL WHEELS 1/4" Stem - Designed to be a flexible and economic small diameter brushing tool for a broad range of general purpose applications.



	Wire	Face	Trim	Max.	Standard	Item Number	
Diameter	Size	Width	Length	RPM	Pack	Steel	
1-1/2"	.0118	1/4"	3/8"	20,000	10	36208*	
2"	.014	3/8"	7/16"	20,000	10	36209*	
3"	.008	7/16"	13/16"	20,000	10	36259*	
	Π14					36211*	



f * Globally sourced products





	Wire	Face	Trim	Max.	Standard	Item N	Number
Diameter	Size	Width	Length	RPM	Pack	Steel	Stainless
1-1/2"	.006	1/4"	3/8"	20,000	10	17901	17930
	.008					17902	_
	.0118					17903	17931 •
2"	.008	3/8"	1/2"	20,000	10	17906	_
	.014					17907	17933
2-1/2"	.006	7/16"	5/8"	20,000	10	17909	_
	.014					17912	17935
3"	.006	1/2"	15/16"	20,000	10	17914	17936
	.008					17915	_
	.014					17917	17937
4"	.008	9/16"	1-1/4"	20,000	10	17922	_
	.014					17923	_



Deburring a plastic part using a nylon brush.

NYLON AND TAMPICO WHEELS

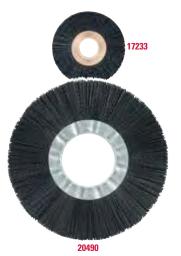
NYLON WHEELS

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
- Removing burrs and die flash from plastic parts
- Sweeping loose chips and debris







NYLON WHEELS feature a chemical-resistant synthetic fill material with excellent bend recovery for use in applications requiring a soft, durable fill material.

	Diameter	Fill Diameter	Arbor Hole	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number
-	2"	.010	1/2"	3/8"	1/2"	20,000	10	17223
		.014						17233
	3"	.010	1/2"	3/8"	1"	20,000	10	29070
		.016						17263
	6"	.016	2"	3/4"	1-1/2"	6,000	2	20490

For arbor hole reducing adapters, see Metal Adapter Table below and plastic adapters on page 79.

TAMPICO 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. Natural vegetable fibers such as Tampico hold abrasive compounds well and can be used for deburring, edge blending, and polishing 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.

Diameter	Arbor Hole	Face Width	Trim Length	Max. RPM	Standard Pack	Item Number
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	2	20190

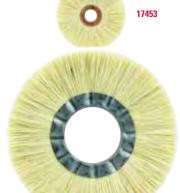
For arbor hole reducing adapters, see Metal Adapter Table below and plastic adapters on page 79.





METAL ADAPTERS for 6" & 8" Brushes. Used in pairs & priced per pair.

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







Cup brushes are 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 manufactured with individual knot hole and solid ring construction for high performance and long life.

APPLICATIONS

- Removal of slag from the edges of plasma or flame-cut plates
- Removing paint and coatings
- Cleaning rust, scale, and corrosion

Wiro

Arbor

- Deburring
- Weld prep and cleaning

CUP BRUSH SIZE SELECTION GUIDE

Angle Grinder Si
4"
4-1/2"
5"
6"
7"
9"





Item Number



Knot wire cup brush removing heat discoloration.









KNOT WIRE CUP BRUSHES - Single Row - Provide heavy-duty brushing action with some flexibility; ideal for demanding cleaning applications on relatively flat surfaces.

	Wire	Arbor	Trim	Max.	Standard	Item Number	
Diameter	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 PV	13009
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 ▲ PV	13258 🛛
3-1/2"	.023	M10 x 1.25	7/8"	13,300	1	13150	_
		M14 x 2.0				13152	_
		3/8"-24 UNF				13153	13160
		1/2"-13 UNC				13155	_
		5/8"-11 UNC				13156 PV	13163 V
3-1/2"	.014	5/8"-11 UNC	1-1/4"	9,000	1	12736	-
	.020					12746	_
4"	.014	5/8"-11 UNC	1-1/4"	10,200	1	12306 ▲	12406
	.023					12316 PV	12416
	.035					12326	_
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	5/8"-11 UNC	1-3/8"	7,000	1	12256*	_
	.023					12276 V *	_
6"	.014	5/8"-11 UNC	1-3/8"	6,600	1	12356 V	12456
	.023					12376 PV	12476
	.035					12396	_
6"	.023	5/8"-11 UNC	1-3/8"	6,600	1	12816*	_
6"	.014	5/8"-11 UNC	1-5/8"	6,000	1	12846	-
	.023					12856	12886
	.035					12866	_

▲ Available in non-sparking bronze wire, see page 102-103 for details.

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification. P V Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



KNOT WIRE CUP BRUSHES - Hurricane Twist - Very smooth brushing action and extended life with reduced cleaning action.

Diameter	Wire Size	Arbor Hole	Trim Length	Max. RPM	Standard Pack	Item Number Steel
2-3/4"	.014	M14 x 2.0	3/4"	14,000	1	13717 •
		5/8"-11 UNC				13718
2-3/4"	.020	M14 x 2.0	3/4"	14,000	1	13711 •
		5/8"-11 UNC				13712





NOTE

If a different arbor hole is required (than listed in the tables) refer to Threaded Adapter Chart shown on Pg. 71.

POWER BRUSHES



WOLVERINE® KNOT WIRE CUP BRUSHES - Single Row

Provide an aggressive brushing action for general-purpose surface cleaning applications.



	Wire	Arbor	Trim	Max.	Standard	Item N	lumber
Dia.	Size	Hole	Length	RPM	Pack	Steel	Stainless
3"	.020	5/8"-11 UNC	1"	14,000	1	36238	36239
4"	.025	5/8"-11 UNC	1-1/4"	10,200	1	36244	-
6"	025	5/8"-11 UNC	1-3/8"	6 600	1	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	lumber
Diameter	Size	Hole	Length	RPM	Pack	Steel	Stainless
2-3/4"	.014	5/8"-11 UNC	5/8"	12,500	1	13300	_
	.020					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 BRUSH - 1-1/2 Rows - Features an internal nut for use on dedicated equipment such as line traveling machines that clean and prep OD of pipe prior to coating.

	Wire	Arbor	Trim	Max.	Standard	Item Number
Diameter	Size	Hole	Length	RPM	Pack	Steel
4"	.023	5/8"-11 UNC	1-1/4"	7,000	1	94012



KNOT WIRE CUP BRUSHES - Double Row - Provide very aggressive brushing while still maintaining some flexibility; ideal for severe cleaning applications.

	Wire	Arbor	Trim	Max.	Standard	Item N	umber
Diameter	Size	Hole	Length	RPM	Pack	Steel	Stainless
4"	.014	5/8"-11 UNC	1-1/4"	9,000	1	12756	-
	.020					12766	12726
6"	.014	5/8"-11 UNC	1-3/8"	6,600	1	12536	-
	.023					12556	12636
	.035					12576	_
6"	.014	5/8"-11 UNC	1-1/2"	6,000	1	12906 •	-
	.023					12916	_
	.035					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.

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



POLYFLEX™ ENCAPSULATED CRIMPED WIRE CUP BRUSHES feature fill material that has been encapsulated in an elastomer that 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.

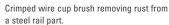
Diameter	Wire Size	Arbor Hole	Trim Length	Max. RPM	Standard Pack	Item Number Steel			
	Burgundy Elastomer* - Standard								
3-1/2"	3-1/2" .014 5/8"-11 UNC 7/8" 12,000 1 35406								
4"	.020	5/8"-11 UNC	1-1/8"	9,000	1	35186			

^{*} See Elastomer Color Code Chart on page 61 for more information.

Non-stock product, contact Customer Service for lead times and minimum order quantities.

CRIMPED WIRE CUP BRUSHES provide very flexible brushing action and the most consistent performance for demanding light-duty cleaning applications; feature a threaded nut for use on angle grinders.

	Wire	Arbor	Trim	Max.	Standard	Item N	lumber
Diameter	Size	Hole	Length	RPM	Pack	Steel	Stainless
3"	.014	M10 x 1.25	1"	14,000	1	13240 ▲	-
		M14 x 2.0				13242	_
		3/8"-24 UNF				13243	_
		1/2"-13 UNC				13244	_
		5/8"-11 UNC				13245 PV	_
3-1/2"	.014	M10 x 1.25	7/8"	13,300	1	-	13182
		M14 x 2.0				13177 •	_
		3/8"-24 UNF				13178	_
		5/8"-11 UNC				13181 V	13188
4"	.0118	5/8"-11 UNC	1-3/8"	10,200	1	14016	-
	.014					14026 V	_
	.020					14036 ₽ ▲	14126
5"	.014	5/8"-11 UNC	1-1/4"	9,000	1	14206 ▼ ▲	-
	.020					14216	14256
6"	.014	5/8"-11 UNC	1-1/4"	6,600	1	14066 ▼ *	_
	.020					14076 ▲*	14166*





13245



Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.



WOLVERINE® CRIMPED WIRE CUP BRUSHES provide flexible brushing action and cost-effective performance in general purpose cleaning applications.

	Wire	Arbor	Trim	Max.	Standard	Item Number
Diameter	Size	Hole	Length	RPM	Pack	Steel
3"	.014	5/8"-11 UNC	1"	14,000	1	36231
4"	.020	5/8"-11 UNC	1-1/8"	9,000	1	36236
6"	020	5/8"-11 UNC	1-1/2"	6 600	1	36237 *

^{*} With internal nut



CUP BRUSHES WITH STEM

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



NOTE If a different arbor hole is

required (than listed in the tables) refer to Threaded Adapter Chart shown on Pg. 71.



flexible brus featuring a

Y CKIIVIPED V	IKE GUP E	SKUSHES a	ire smaller diame	eter cup brushes	which provide	
ushing action and co	nsistent perform	nance for more of	demanding light-	duty cleaning ap	plications;	
a 1/4" stem for use o	n air tools.		0 0	, 0 1		

	Wire	Trim	Overall	Max.	Standard	Item N	lumber
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless
1-3/4"	.006	3/4"	2-5/16"	13,000	10	14300 ▲	14303 •
	.0118					14301 ☑ ▲	14304
2"	.008	5/8"	2-7/8"	13,000	10	14313 •	14318 •
	.0118					14306	_
2-1/2"	.008	7/8"	3-1/8"	13,000	10	14315 •	14320 •
	.014					14317	14321 •
2-3/4"	.0118	7/8"	2-1/2"	6,000	1	14302 ☑ ▲	_

▲ Available in non-sparking brass wire, see page 102-103 for details.

P ■ Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



WOLVERINE UTILITY CRIMPED WIRE CUP BRUSH is a flexible and economic small diameter brushing tool for a broad range of general purpose applications using air tools or drills. 1/4" Stem.

	Wire	Trim	Overall	Max.	Standard	Item Number
Diameter	Size	Length	Length	RPM	Pack	Steel
3"	014	1"	3-1/4"	13 000	1	36230



[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.



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

STEM-MOUNTED END BRUSHES

Wire end brushes are 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 safe 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
- Removal of die flash and excess molded material
 S
- Deburring internal edges and crosshole intersections
 - 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	Overall Length	Max.	Standard Pack	Item N	umber
Diameter	Size	Length		RPM		Steel	Stainless
1/2"	.006	1-1/8"	2-7/8"	20,000	10	_	10215 *
	.0104					10208	10216
	.014					10217	10218
3/4"	.006	1-1/8"	2-7/8"	20,000	10	_	10220 *
	.0104					10210	10211
	.014	7/8"	2-5/8"	25,000		10025 P	10029 ₩
	.020					10026 P	10030
1-1/8"	.006	1-1/8"	2-9/16"	20,000	10	10141 ▼ *	10142 • *
	.0104		2-7/8"			10212	10213
	.0118					10187	_
	.014	7/8"	2-5/8"	22,000		10027 PV	10031
	.020					10028 PV 🔺	10032

• Cooted

▲ Available in non-sparking bronze wire, see page 102-103 for details.

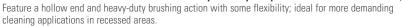
BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.

Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

P

KNOT WIRE END BRUSHES - Nickel-plated Cup compliant with DOD MIL STD 2041D(SH)







	Wire	Trim	Overall	Max.	Standard	Item Number
Diameter	Size	Length	Length	RPM	Pack	Stainless
3/4"	.014	7/8"	2-5/8"	22,000	10	10387 •
	.020					10388 •
1-1/8"	.014	7/8"	2-5/8"	22,000	10	10392
	.020					10393 •



WOLVERINE® KNOT WIRE END BRUSHES feature similar hollow-end







	Wire	Trim	Overall	Max.	Standard	Item N	lumber
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless
3/4"	.014	7/8"	2-5/8"	22,000	10	36286	36287 •
	.020		2-9/16"			36250	-
1"	.014	7/8"	2-5/8"	22,000	10	36288	36289
	020		2-9/16"			36251	_

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.



11141



KNOT WIRE END BRUSHES - Banded - Feature a pair of bands around the fill to reduce the exposed trim length and limit brush flaring to provide a very aggressive, controlled brushing action.



Diameter	Wire	Trim*	Overall	Max.	Standard	Item Number
	Size	Length	Length	RPM	Pack	Steel
1-1/8"	.014 .020	3/8"	2-5/8"	18,000	10	11140 11141

^{*} Trim length from bands

^{*} Globally sourced product

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities

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	Overall	Max.	Standard	Item Number	
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless
3/8"	.0118	7/8"	2-1/2"	20,000	10	10188	_
1/2"	.006	7/8"	2-9/16"	25,000	10	10001 🔺	10013
	.0104					10002	10014
	.014					10003	10015
	.020					10004	10016
3/4"	.006	7/8"	2-9/16"	22,000	10	10005	10017 ☑
	.0104					10006	10018
	.014					10007	10019
	.020					10008	10020
1"	.006	1"	2-3/16"	22,000	10	10009 ▲ 🛛	10021 🛛
	.0104					10010 🔽	10022
	.014					10011 ▲	10023
	.020	1-1/8"	2-15/16"			10012 P	10024



Cleaning the exhaust port of a gasoline engine.



▲ Available in non-sparking brass wire, see page 102-103 for details.

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.

■ ☑ Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



CRIMPED WIRE END BRUSHES - Coated Cup - 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. The plastic sleeve covering the cup protects the work surface from being scratched or marked.





	Wire	Trim	Overall	Max.	Standard	Item I	Number
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless
1/2"	.006	7/8"	2-9/16"	25,000	10	11000	11010
	.0104					11001	11011
3/4"	.006	7/8"	2-9/16"	22,000	10	11003	11013
	.0104					11004	11014
1"	.006	7/8"	2-3/4"	22,000	10	11006	11016
	.0104	1"				11007	11017

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.





 $\textbf{CRIMPED WIRE END BRUSHES - Nickel-plated Cup} \cdot \textbf{Feature a solid end construction}$ and very flexible brushing action ideal for more demanding light-duty cleaning applications in corners and hard-to-reach areas. The nickel-plated cup is compliant with DOD MIL STD 2041D(SH).



	Wire	Trim	Overall	Max.	Standard	Item Number
Diameter	Size	Length	Length	RPM	Pack	Stainless
1/2"	.0104	7/8"	2-9/16"	25,000	10	10371 •
3/4"	.006	7/8"	2-9/16"	22,000	10	10374 •
	.020					10377 •
1"	.006	1"	2-7/8"	22,000	10	10378
	.0104					10379
	.014					10380 •
	.020	1-1/8"	2-15/16"			10381 •





WOLVERINE® 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.



	Wire	Trim	Overall	Max.	Standard	Item Number	
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless
1/2"	.0104	7/8"	2-9/16"	25,000	10	36282	_
3/4"	.006	7/8"	2-9/16"	22,000	10	-	36283
	.0104					36247	_
	.014					36246	_
1"	.006	7/8"	2-3/4"	22,000	10	36284	36285
	.0104					36249	_
	.014					36248	_

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.





CRIMPED WIRE END BRUSHES - Banded - Feature bands around the fill to reduce the exposed trim length and limit brush flaring at operating speed to provide an aggressive, controlled brushing action.



^{*} Trim length from bands

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.



11112

*CONTROLLED FLARE END BRUSHES feature uniquely trimmed crimped wire fill for more effective brushing action and greatly enhanced durability when cleaning corners and fillet welds.

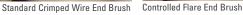
	Wire	Wire Trim	Overall	Overall Max.	Standard	Item Number	
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless
1/2"	.0104	7/8"	2-9/16"	25,000	10	10301	10313
	.014					10302	10314
	.020					10303	10315
3/4"	.0104	7/8"	2-9/16"	22,000	10	10305	10317
	.014					10306	_
	.020					10307	10319
1"	.0104	1"	2-7/8"	22,000	10	10309	10321
	.014					10310	10322
1"	.020	1-1/8"	2-15/16"	22,000	10	10311	10323

^{*}Patent #8,186,000 B2

BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.

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











CRIMPED WIRE PILOT BONDING BRUSHES - Banded - Solid end.

Originally designed to clean around rivet holes in aluminum aircraft panels but may be used in other similar applications.

	Wire	Trim	Overall	Pilot	Max.	Standard	Item Number
Diameter	Size	Length	Length	Diameter	RPM	Pack	Stainless
1/2"	.005	3/8"	2-1/4"	3/32"	20,000	10	10056*
				1/8"			10057*
				5/32"			10058*
				3/16"			10059*

^{*} Globally sourced product





POLYFLEX® ENCAPSULATED CRIMPED WIRE END BRUSHES

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

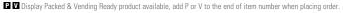
	Wire	Trim	Overall	Max.	Standard	Item Number			
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless		
			Burgundy Elasto	mer* - Standar	d				
1/2"	.0104	7/8"	2-9/16"	18,000	10	35340	35500		
3/4"	.0104	7/8"	2-9/16"	16,000	10	35345	-		
1"	.0104	7/8"	2-3/4"	14,000	10	35350	-		
	Orange Elastomer* - Heavy-Duty								
3/4"	.0104	7/8"	2-9/16"	16,000	10	35540	_		

^{*} See Elastomer Color Code Chart on page 61 for more information.



P CIRCULAR FLARED END BRUSHES feature crimped wire fill that 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	ltem Number			
Diameter	Size	RPM	Pack	Steel	Stainless		
1"	.006	25,000	1	10033	10042		
	.008			10034	10043		
	.020			10099	_		
1-1/4"	.006	20,000	1	10076	_		
	.008			10035	_		
1-1/2"	.006	20,000	1	10044	10045		
	.008			10037	10046		
	.020			10038	10047		
2"	.014	25,000	2	11142	_		
2-3/4"	.008	16,000	2	10039	10048		
	.020			10040	_		
3"	.006	16,000	2	10150	10151		
	.008			10041 ☑	10050		
	.014			10134	_		
	.020			10073	_		



BOLD BLACK ITEM numbers indicate color-coded brushes for easy identification.





10041



POLYFLEX® ENCAPSULATED CIRCULAR FLARED END BRUSHES

Black Elastomer* - Crimped wire fill that has been encapsulated in a heavy-duty elastomer that gradually wears away to keep only the wire tips exposed. Their saucer-shape, narrow face, and aggressive brushing action make them suitable for addressing edges, corners, and confined areas.



0.D.	O.D. Wire		Overall	Max. Standard		Item Number		
Diameter	Size	te Size Length RPM Pack	Pack	Steel	Stainless			
1-3/4"	.006	3/4"	2"	25,000	2	35222	-	
	.0104					35223	35226	
	.020					35224	_	
2"	.0104	3/4"	1-1/8"	20,000	2	35233	-	
	.020					35234	_	







PENCIL END BRUSHES contain straight wire fill material retained in a small diameter steel tube. They provide a light-duty brushing action suitable for very small recessed areas.

due. They provide a fight-duty brushling action suitable for very small recessed areas.								
Tube	Wire	Trim	Overall	Max.	Standard	Item N	lumber	
Diameter	Size	Length	Length	RPM	Pack	Steel	Stainless	
1/4"	.0104	3/4"	3-3/4"	8.000	10	99825	99823	

99825

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.



1. Insert Brush



2. Apply Power



3. Shut-Off Power



4. Remove Brush



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 above for the correct brush orientation.



Deburring intersecting oil passages in an engine block.



BORE-RX™ CROSSHOLE DEBURRING BRUSHES

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 endmill 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.

Operating Parameters For Wire Bore-Rx Brushes

Brush	Recommended	Recommended
Diameter	RPM	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





BORE-RX™ BRUSHING TOOLS - Crimped wire fill - Feature dense wire fill for aggressive

deburring action on ductile metals and other hard-to-deburr materials.

	Wire	Face	Overall	Max.	Standard	Item Number
Diameter	Size	Width	Length	RPM	Pack	Steel*
3/4"	.005	3/8"	4-3/8"	8,000	1	17202 •
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 •

^{*} 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. To discuss specific requirements with a specialist call: 800-835.9999



CUSTOMIZABLE CROSSHOLE DEBURRING SOLUTIONS

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-toorder in diameters ranging from 3/4" to 1-1/2" 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. To discuss specific requirements with a specialist call: 800-835.9999.



Renlacement Head







Reusable Arbor 03993 •

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities

POWER 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 as 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 85, or call 800-835.9999 for assistance.

APPLICATIONS

- Deburring and cleaning drilled-and-tapped 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

Removing zinc coating from holes in a brake bracket.

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.





DOUBLE STEM, DOUBLE SPIRAL feature four stem wires and a double spiral of straight wire fill material to provide aggressive cleaning and deburring action.

7

	Wire	Brush	Stem	Overall	Max.	Standard	Item N	lumber
Diameter	Size	Part	Diameter	Length	RPM	Pack	Steel	Stainless
3/8"	.003	1-1/2"	1/8"	4"	2,000	10	21342	-
	.006	2-1/8"		6"			21232	_
1/2"	.004	2"	5/32"	5"	2,000	10	21106	21116
	.006						21107 🛮 ▲	21117
	.0104						21252	_
5/8"	.005	2"	7/32"	5"	2,000	10	21108 V	21118
	.008						21109 🛦	21119
	.0104						21184	_
3/4"	.006	2-1/2"	1/4"	5-1/2"	2,000	10	21110 ₩ ▲	21120
	.008						21247	_
	.0104						21111	21121
7/8"	.006	2-1/2"	1/4"	5-1/2"	2,000	10	21112	21122
	.0104						21113	-
1"	.006	2-1/2"	1/4"	5-1/2"	2,000	10	21114 ☑ ▲	21124
	.0104						21115	21125
1-1/4"	.006	2-1/2"	1/4"	5-1/2"	2,000	10	21164	21245
	.0104						21167 *	21236
1-1/2"	.014	2-1/2"	1/4"	5-1/2"	2,000	10	_	21413



■ Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.







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.





	Wire	Brush	Stem	Overall	Max.	Standard	Item Number
Diameter	Size	Part	Diameter	Length	RPM	Pack	Steel
1/2"	.006	2"	5/32"	5"	2,000	10	35821 •
5/8"	.0104	2"	7/32"	5"	2,000	10	35822
3/4"	.0104	2-1/2"	1/4"	5-1/2"	2,000	10	35823
1"	.0104	2-1/2"	1/4"	5-1/2"	2,000	10	35825 •

 $[\]ensuremath{^{\bigstar}}$ See Elastomer Color Code Chart on page 61 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.





· I	100	I.	 		l	1	l	
D:	Wire	Brush	Stem	Overall	Max.	Standard		Number
Diameter	Size	Part	Diameter	Length	RPM	Pack	Steel	Stainless
1/4"	.004	1"	1/8"	3-1/2"	2,000	10	21072 🔺	21081 V
5/16"	.005	1"	1/8"	3-1/2"	2,000	10	21175	_
3/8"	.004	1"	1/8"	3-1/2"	2,000	10	21073	21082
	.006						21282	_
	.008						21264	21240
7/16"	.005	1"	1/8"	3-1/2"	2,000	10	21142	21181
1/2"	.005	1"	3/16"	3-1/2"	2,000	10	21074 ☑ ▲	21083
9/16"	.005	1"	3/16"	3-1/2"	2,000	10	21143	_
	.0104						_	21404
5/8"	.005	1"	3/16"	3-1/2"	2,000	10	21075 V	21084
	.008						21265	_
11/16"	.005	1"	3/16"	3-1/2"	2,000	10	21144	_
3/4"	.006	1"	7/32"	3-1/2"	2,000	10	21076	21085
	.008						21266 •	_
7/8"	.006	1"	7/32"	3-1/2"	2,000	10	21077 V	21086
	.008						21267	_
15/16"	.005	1"	7/32"	3-1/2"	2,000	10	21148 •	_
1"	.005	1"	1/4"	3-1/2"	2,000	10	21149	21340
	.008						21078 V	21087
1-1/8"	.005	1"	1/4"	3-1/2"	2,000	10	21150	_
	.008						21079	21088
1-1/4"	.008	1"	1/4"	3-1/2"	2,000	10	21080	21089
1-1/2"	.008	1"	1/4"	3-1/2"	2,000	10	21203 🛦	-
	.0104						21269	_
2-1/4"	.008	1"	1/4"	3-1/2"	2,000	10	21322	_

Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

 \blacktriangle Available in non-sparking brass wire, see page 102-103 for details.

Correct Mounting in Chuck



Incorrect Mounting in Chuck



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 deflections.
- Guide the brush into the hole before starting the brush rotation.
- Always wear eye protection.

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

 $[\]bullet \ \mathsf{Non\text{-}stock} \ \mathsf{product}, \ \mathsf{contact} \ \mathsf{Customer} \ \mathsf{Service} \ \mathsf{for} \ \mathsf{lead} \ \mathsf{times} \ \mathsf{and} \ \mathsf{minimum} \ \mathsf{order} \ \mathsf{quantities}.$

BURRITE - 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.



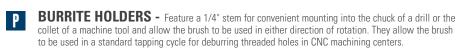
	Wire	Brush	Stem	Overall	Max.	Standard	Item N	lumber
Diameter	Size	Part	Diameter	Length	RPM	Pack	Steel	Stainless
1/4"	.003	9/16"	3/32"	2-1/8"	2,000	10	21000	_
	.005						21001	21050
5/16"	.003	9/16"	3/32"	2-1/8"	2,000	10	21004	_
	.005						21005	_
3/8"	.003	9/16"	3/32"	2-1/8"	2,000	10	21008	_
	.005						21009	21051
	.005		1/8"				21023	_
7/16"	.005	9/16"	3/32"	2-1/8"	2,000	10	21015 •	_
1/2"	.005	9/16"	3/32"	2-1/8"	2,000	10	21021	21053
	.005		1/8"				21025 •	
9/16"	.003	5/8"	1/8"	2-1/4"	2,000	10	21027	-
	.005		<u> </u>				21028	-
5/8"	.005	5/8"	1/8"	2-1/4"	2,000	10	21031	21055
3/4"	.005	5/8"	1/8"	2-1/4"	2,000	10	21034	21056
	.008						21035	_
1"	.005	5/8"	1/8"	2-1/4"	2,000	10	21040	21058
	.008						21041	-



Deburring the threads of a tapped hole using a burrite brush in a holder.









For Brush Stem Dia.	Holder Diameter	Overall Length	Standard Pack	Item 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	Item N	lumber
Diameter	Size	Size Part	Diameter	Length	Pack	Steel	Stainless
1/8"	.003	1"	3/32"	6"	10	21246	21249
3/16"	.003	1-1/2"	3/32"	7"	10	21090 🔺	21098
	.005					21091	21099
1/4"	.003	1-1/2"	3/32"	7"	10	21092 🔺	21100
	.005					21093 🔺	21101
	.006					21161	_
3/8"	.004	2"	1/8"	8"	10	21094 🔺	21414
	.006					21095	21103
1/2"	.004	2"	1/8"	8"	10	21096 🔺	21104
	.006					21097	21105
	.008					21162	_
9/16"	.005	2-1/2"	5/32"	9"	10	21233	_

▲ Available in non-sparking brass wire, see page 102-103 for details.



• Non-stock product, contact Customer Service for lead times and minimum order quantities.



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.



.	Fill	Brush	Stem	Overall	Standard	Item Number
Diameter	Diameter	Part	Diameter	Length	Pack	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*

^{*} Globally sourced product



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.

	Fill	Brush	Stem	Overall	Standard	Item Number
Diameter	Diameter	Part	Diameter	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 1/4" diameter 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.





44316

Diameter	Fill Diameter / Material	Brush Part	Overall Length	Max. RPM	Standard Pack	Item Number
3/8"	.0104 Steel	2"	10"	2,000	10	95028
7/16"						95665 •
1/2"						95029
11/32"	.008 Nylon	2-1/2"	10"	2,000	10	95660 •
3/8"	.012 Nylon					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.



	Brush	Overall	Coupling	Standard	Item Number	
Caliber	Part	Length	Size	Pack	Bronze	
22	2-1/4"	3-1/4"	8-32	10	95301	
30	2-1/4"	3-1/4"	8-32	10	99786 •	
45	2-1/4"	3-1/4"	8-32	10	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.



	Brush	Overall	Coupling	Standard	Item Number
Gauge	Part	Length	Size	Pack	Bronze
12	1-5/8"	2-7/8"	5/16-27	10	99714 •
410	1-5/8"	2-7/8"	5/16-27	10	95129 •

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

WILL MEILEN

SPECIAL TUBE BRUSH SPECIFICATION SHEET:

(Use the illustration on this page as a guide)

Davide diameter

١.	Brush diameter
2.	Length of brush part
3.	Overall brush length
l.	Special stem diameter (if required)
j.	Stem material:
	☐ Galvanized Steel ☐ Stainless ☐ Other

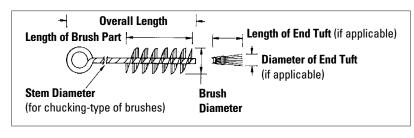
Application _____

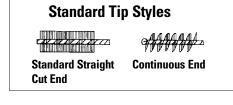
7.	Brush fill material:								
	☐ Steel wire ☐ Stainless wire								
	□ Nylon Abrasive Filament (Nylox*)								
	☐ Brass wire ☐ Other								
8.	Fill material diameter								
9.	Special tip style (if required)								
10.	☐ Single stem ☐ Double stem								

11. Order Quantity ___

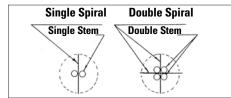
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Company Name:
Address:
Phone: ()
Fax: ()
F-mail:

End-User Name:	
City:	
Stato:	7in:









FOR ADDITIONAL INFORMATION CALL:

To discuss specific requirements with a specialist call: 800-835.9999



^{*} Special tube brushes are not returnable, as they are manufactured to order.

CROSSFLEX™ HONING BRUSHES

CrossFlex offers machinists the right combination of performance and value for professional honing applications. Flexible filaments provide the correct pressure to create an ideal hone; one bore after another. It's the ideal tool to create cross-hatch patterns for improved oil retention and increased part efficiency. The strong self-centering system leaves a smooth, even surface finish free of metal burrs whether used in a manual or automated application.



Deburring cross holes in a firearms component.

No matter what type or size cylinder, Weiler's CrossFlex brushes deliver the options you need to solve your toughest deburring and honing challenges.

CROSSFLEX ABRASIVE GRITS: Every individual brush end tip is colored to indicate the grit of that brush.

GREFN = 120 Grit GREFY = 180 Grit GREFY = 240 Grit WHITE = 320 Grit.

Coarse / Fine

FEATURES & BENEFITS:

- Desired Finish
 - CrossFlex offers a wide range of grits and sizes allowing machinists to achieve the desired finish.
- Heavy Burr Removal

Increased brush to part contact ensures that the heaviest burrs will be removed, outperforming standard nylon tube brushes.

- Long Life
 - CrossFlex brushes have a long operational life, lowering total cost of use compared to other brush options.
- Flexible Nylon Stems
 - Distribute pressure evenly and self centers within the part to create an ideal hone.
- Consistent Cross Hatch Pattern
 - Helps to seat piston rings and retains oil for lubrication in a combustion cylinder.
- Collet Ready Brushes
 - Deliver a true center rotation and exceptional brush balance for automated applications or hand held use.



COLLET READY BENEFITS FOR SMALL DIAMETER BRUSHES:

- Reduces brush run-out
- Strengthens and sturdies brush shaft for better stability and overall reach
- Strong positive engagement with tool holder



SMALL DIAMETER CROSSFLEX HONING BRUSHES

Silicon carbide cross-honing brushes for standard use. Ideal for deburring small diameter cross hole intersections.





For Hole Sizes in Inches	For Hole Sizes in mm	Length of Brush Part	Overall Length	Shank Diameter	Max RPM	120 Grit Item No.	180 Grit Item No.	240 Grit Item No.	320 Grit Item No.
0.177"	4.5 mm	0.787"	6"	0.083"	1,000	-	_	-	34107
0.197"	5 mm	1.575"	7.875"			34111	_	-	Q
0.25"	6.35 mm			0.098"		34123	_	-	34126
0.276"	7 mm	1.969"		0.13"	900	34127	_	-	34130
0.315"	8 mm			0.142"		34131	_	-	34135
0.354"	9 mm					34136	34137	-	34139
0.375"	9.5 mm					34141	_	34143	_
0.394"	10 mm					_	34146	-	34148
0.433"	11 mm					34149	34150	-	34152
0.472"	12 mm			0.157"		34153	_	-	34156
0.5"	12.7 mm	2.48"		0.173"		34158	34159	34160 •	34161
0.552"	14 mm			0.197"		34162	_	-	_
0.75"	19mm					_	34175	34176	-
0.787"	20 mm					_	_	-	34181
0.875"	22 mm			0.213"		34182	34183	-	_



COLLET READY – SMALL DIAMETER CROSSFLEX HONING BRUSHES

Silicon carbide cross-honing brushes for standard use within automated applications and to reduced brush run-out.



For Hole Sizes in Inches	For Hole Sizes in mm	Length of Brush Part	Overall Length	Shaft Diameter	Max RPM	120 Grit Item No.	240 Grit Item No.	320 Grit Item No.
0.177"	4.5 mm	0.75"	6"	5/32"	1,000	-	34299	-
0.236"	6 mm]				_	-	34314 •
0.354"	9 mm]				34327	-	-
0.375"	9.5 mm	1				-	34333	-
0.472	12 mm	1		8 mm]		34345	-



MEDIUM DIAMETER CROSSFLEX HONING BRUSHES

Silicon carbide cross-honing brushes for standard use. Ideal for changing the surface finish in machined bores and deburring the ID of castings.

pores and depr	ores and depoining the iD or Castrings.												
For Hole	For Hole												
Sizes	Sizes	Length of	Overall	Shank	Max	120 Grit	180 Grit	240 Grit	320 Grit				
in Inches	in mm	Brush Part	Length	Diameter	RPM	Item No.	Item No.	Item No.	Item No.				
1"	25.4 mm	3"	7.875"	0.213"	900	34190	34191	34192 •	-				
1.25"	31.8 mm			0.252"	800	34198	34199	34200 •	34201				
2"	51 mm					34222	34223	-	-				
2.5"	64 mm			0.283"	700	34238	_	_	_				
3"	76 mm	5.5"	7.875"	0.311"		_	_	_	34257				





Engine cylinder head honing.



HEAVY-DUTY MEDIUM DIAMETER CROSSFLEX HONING BRUSHES

Silicon carbide cross-honing brushes for heavy-duty use. Ideal for changing the surface finish in machined bores and deburring the ID of castings.

For Hole Sizes in Inches	For Hole Sizes in mm	Length of Brush Part	Overall Length	Shank Diameter	Max RPM	120 Grit Item No.	180 Grit Item No.	240 Grit Item No.	320 Grit Item No.
3"	76 mm	5.5"	13.5"	0.311"	700	34258	-	34260	-
3.25"	83 mm					34262 •	_	34264	34265 •
3.5"	89 mm					34266	34267	34268	34269



34294

HEAVY-DUTY LARGE DIAMETER CROSSFLEX HONING BRUSHES

Silicon carbide cross-honing brushes for heavy-duty use. Ideal for cross hatching in combustion cylinders.



For Hole Sizes in Inches	For Hole Sizes in mm	Length of Brush Part	Overall Length	Shank Diameter	Max RPM	120 Grit Item No.	180 Grit Item No.	240 Grit Item No.	320 Grit Item No.
3.75"	95 mm	5.5"	13.5"	0.311"	700	34270	_	34272	34273
4"	101 mm	6.5"		0.346	600	34274	34275	34276	34277
4.25"	108 mm					34278	34279	34280	34281
4.5"	114 mm					34282	34283 •	34284	34285
5"	127 mm		18"]		34286	34287	34288 •	34289
5.5"	140 mm			0.402"		34290	_	34292	34293 •
6"	152 mm					34294	34295	34296	_

Non-stock product, contact Customer Service for lead times.

SPECIALTY BRUSHES

Weiler understands that not all your finishing or deburring applications have a standard solution. For instances where applications require unique sizes, lengths or abrasives; Weiler Process Solutions (WPS) specialists work with you to provide custom CrossFlex brushes for your specific application.

- Custom sized for your specific bore diameters
- Brushes with shorter or longer stems for your particular application
- Collet ready or other connection methods
- Options in a variety of abrasives including silicon carbide, aluminum oxide, zirconia alumina and ceramic grains



Custom large diameter ceramic CrossFlex brush.



An application engineering program designed to provide Weiler customers with engineering support to identify value added opportunities in their processes.



Bringing Process, Expertise & Partnership Together.

In today's competitive manufacturing landscape, improving high-volume production processes is crucial for a business to meet the demands of its customers and achieve profitability goals. When it comes to surface conditioning, having a partner you trust is crucial to realizing your continuous improvement objectives.

The **WEILER PROCESS SOLUTIONS** (WPS) program delivers customized solutions based on your specific application needs. The program leverages the latest technology and on-site technical expertise to optimize high-volume production manufacturing processes for customers.

WPS is designed to identify opportunities to make improvements that will immediately impact your business by driving down the total cost per part, increasing productivity, or both. Through the WPS program, Weiler Abrasives brings technical support and experience to your facility and works with your team to develop a tailored solution that achieves your objectives.

Benefits of WPS:

- ➤ Reduce cycle times and eliminate production bottlenecks to **improve throughput**
- ➤ Reduce total cost per part
- ➤ Minimize rework and reduce waste
- ▶ Improve energy efficiency and sustainability for your business
- ➤ Reduce working capital commitment by optimizing consumable inventory
- ➤ Reduce process variability to improve part quality and consistency



"I consider Weiler to be a long-term partner. Their history of meeting our specific application needs has been world-class."

– Gary S., General Manager,Rolling Operations



Continuous improvement doesn't have to be challenging. Talk to a Weiler Abrasives Expert today to unlock your business's full potential with a WPS consultation.



Removing galled spots from a metal forming die.

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 a 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	Stem	Max.	Standard	Item Number		•	
Diameter	Size	Length	Size	Length	RPM	Pack	Steel	Stainless	Brass	
5/8"	.005	1/8"	1/8"	1-1/2"	37,000	144	-	99554	_	
3/4"	.003	3/16"	1/8"	1-1/2"	37,000	144	26000	-	26001 •	
	.005						26003	26005	26004 •	
3/4"	.005	3/16"	3/32"	1-1/2"	37,000	144	26143	-	26144	
1"	.003	5/16"	1/8"	1-1/2"	37,000	144	26012	26014	-	
	.005						26015	26017	26016	
	.005	5/16"	3/32"				26155 •	-	_	
1-1/4"	.005	3/8"	1/8"	1-1/2"	37,000	144	26021	-	-	
1-1/2"	.005	1/2"	1/8"	1-1/2"	25,000	144	26296	26294	-	



P 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.

Diameter	Fill Type	Trim Length	Stem Size	Stem Length	Max. RPM	Standard Pack	Item Number
3/4"	Stiff Hair	3/16"	3/32"	1-1/2"	37,000	144	26041
	Soft Hair						26042
	Stiff Hair*						26043
	Stiff Hair		1/8"				26059

* Double thick



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

	Wire	Trim	Stem	Stem	Overall	Max.	Standard		Item Number		
Dia.	Size	Length	Size	Length	Length	RPM	Pack	Steel	Stainless	Brass	
5/8"	.003	1/4"	1/8"	1-1/2"	2"	37,000	144	26071	_	26072	
	.005							26074	26076	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	Stem Length	Overall Length	Max. RPM	Standard Pack	Item Number
	1/2"	Stiff Hair	7/32"	3/32"	1-1/2"	2"	37,000	144	26091
	9/16"	Stiff Hair	1/4"	1/8"	1-1/2"	2"	37,000	144	26093
	1"	Stiff Hair	7/16"	1/8"	1-1/2"	2-3/8"	25,000	144	26095
		Soft Hair							26096 •

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

P

WIRE END BRUSHES - Fine crimped wire fill for light-duty cleaning or deburring in very small recessed areas or ID's.

	Wire	Trim	Stem	Stem	Overall	Max.	Standard	ı	Item Number	
Dia.	Size	Length	Size	Length	Length	RPM	Pack	Steel	Stainless	Brass
3/16"	.003	1/4"	1/8"	1-1/4"	1-7/8"	37,000	144	26098	26099	26097
			3/32"					26101 •	_	
1/4"	.005	7/16"	1/8"	1-1/4"	2-1/8"	37,000	144	26107	26108	26106
5/16"	.005	9/16"	1/8"	1-1/4"	2-3/8"	25,000	144	26113	26114	-



P

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	Stem Length	Overall Length	Max. RPM	Standard Pack	Item Number
3/16"	Stiff Hair	1/4"	1/8"	1-1/4"	1-7/8"	37,000	144	26115
	Soft Hair							26122
	Stiff Hair		3/32"					26116
1/4"	Stiff Hair	3/8"	1/8"	1-1/4"	2-1/8"	37,000	144	26119
5/16"	Stiff Hair	9/16"	1/8"	1-1/4"	2-3/8"	25,000	144	26121



P

BRISTLE END BRUSHES - Plastic Ferrule

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

Dia,	Fill Type	Trim Length	Stem Size	Stem Length	Overall Length	Max. RPM	Standard Pack	Item Number
3/16"	Stiff Hair	1/4"	1/8"	1-1/4"	1-7/8"	37,000	144	26128
1/4"	Stiff Hair	3/8"	1/8"	1-1/4"	2-1/8"	37,000	144	26131
5/16"	Stiff Hair	9/16"	1/8"	1-1/4"	2-3/8"	25,000	144	26133



P

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 Dia./Grit	Trim Length	Stem Size	Stem Length	Overall Length	Max. RPM	Standard Pack	Item Number
3/16"	.018/500	1/4"	1/8"	1-1/4"	1-7/8"	37,000	144	26136
1/4"	.018/500	3/8"	1/8"	1-1/4"	2-1/8"	37,000	144	26138
5/16"	.018/500	9/16"	1/8"	1-1/4"	2-3/8"	25,000	144	26146



Deburring the I.D. of a small machined part with miniature wire end brush.



[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

Creating an antique finish on a brass plate.

NON-SPARKING BRUSHES

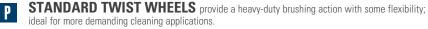
Weiler offers an assortment of wire non-sparking brushes featuring high-quality bronze or brass wire that offer a very soft brushing action in comparison to steel and stainless steel and will not generate a spark when used on metal surfaces. These products are available in a variety of knot wire and 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
- Cleaning molds and dies in the injection-molding and extrusion of plastics
- Maintenance activities in areas where flammable or potentially explosive materials are present, such as refineries and petrochemical plants.







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
Δ"	020	5/8" - 11	2/	1/2"	7/8"		7/16"	20 000	5	13121

For threaded arbor hole adapters see page 71.



CRIMPED WIRE WHEELS provide a flexible brushing action and consistent performance for light-duty cleaning and deburring applications.

Diameter	Wire Size	Arbor Hole	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Standard Pack	Item Number Brass
6"	.005	5/8"-1/2"	1/2"	1-7/16"	1-1/4"	7/16"	6,000	2	01415
	N118								01475

For arbor hole adapters see page 82. For other available arbor holes, see Arbor Hole Variations Table on page 61.



SMALL DIAMETER CRIMPED WIRE 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 Number
Diameter	Size	Hole	Width	Length	RPM	Pack	Brass
1-1/2"	.005	3/8"	1/4"	7/16"	20,000	10	29178
2"	.005	1/2"	3/8"	1/2"	20,000	10	29059
	.0118						29086
3"	.014	1/2"	5/8"	1"	20,000	10	29078

For adapters and drive arbors see page 79



CONFLEX BRUSH - Small diameter wheels permanently mounted onto a 1/4" stem to provide a very flexible brushing action.



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

Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



KNOT WIRE CUP BRUSHES provide heavy-duty brushing action with some flexibility for more demanding cleaning applications on relatively flat surfaces.

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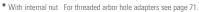
	Wire	Arbor	Trim	Max.	Standard	Item Number
Diameter	Size	Hole	Length	RPM	Pack	Bronze
2-3/4"	.020	5/8"-11 UNC	1"	14,000	1	13299
4"	.020	5/8"-11 UNC	1-1/4"	10,200	1	12776

For threaded arbor hole adapters see page 71.

CRIMPED WIRE CUP BRUSHES provide a very flexible brushing action for light-duty cleaning applications on somewhat irregular surfaces.



	Wire				Standard	Item N	umber
Diameter	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"	10,200	1	14616	_
5"	.014	5/8"-11 UNC	1-1/4"	9,000	1	-	14606
6"	.020	5/8"-11 UNC	1-1/4"	6,600	1	14316*	-





UTILITY CRIMPED WIRE CUP BRUSHES - Smaller diameter cup brushes that provide a flexible brushing action for light-duty cleaning applications.

-7	
	-

Diameter	Wire Size	Trim Length	Stem Diameter	Overall Length	Max. RPM	Standard Pack	Item Number
Diameter	3126	Lengui	Diameter	Lengui	NEIVI	Fack	Brass
1-3/4"	.006	3/4"	1/4"	2-5/16"	13,000	10	14310
	.0118						14314
2-3/4"	.0118	7/8"	1/4"	2-1/2"	6,000	1	14311

• Non-stock product, contact Customer Service for lead times and minimum order quantities.



KNOT WIRE END BRUSH features a hollow end and heavy-duty brushing action with some flexibility; ideal for more demanding cleaning applications in recessed areas.



	Wire	Trim	Stem	Overall	Max.	Standard	Item Number
Diameter	Size	Length	Diameter	Length	RPM	Pack	Bronze
1-1/8"	.020	7/8"	1/4"	2-5/8"	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.



	Wire	Trim	Stem	Overall	Max.	Standard	Item Number
Diameter	Size	Length	Diameter	Length	RPM	Pack	Brass
1/2"	.005	7/8"	1/4"	2-9/16"	25,000	10	10158
1"	.005	7/8"	1/4"	2-5/8"	20,000	10	10128
1"	.0118	1"	1/4"	2-5/8"	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.



	Wire	Brush	Stem	Overall	Standard	Item Number
Diameter	Size	Part	Diameter	Length	Pack	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.



	Wire	Brush	Stem	Overall	Standard	Item Number
Diameter	Size	Part	Diameter	Length	Pack	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.

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





Removing light corrosion and mill scale from coiled steel.





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. For more information and to schedule a consultation with a Weiler Process Solutions expert visit: weilerabrasives.com/wps.

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

DISPOSABLE BRUSH ASSEMBLIES - Wide face assemblies for brushing flat 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.

REFILLABLE BRUSH ASSEMBLIES - Wide face assemblies for brushing flat 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, refilling 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.

TUBE END DEBURRING BRUSHES - Cylindrical rotary brushes are an ideal 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 that 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.

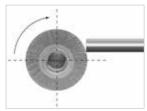
CUSTOM TUBE END DEBURRING BRUSHES - Please use the appropriate specification sheet on the next page when requesting a quotation on a custom tube end deburring brush.

NEED HELP?

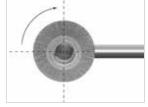
For more information and to schedule a consultation with a Weiler Process Solutions expert visit: weilerabrasives.com/wps.
To discuss specific requirements with a specialist call: 800-835.9999.

BRUSH-TUBE ORIENTATION

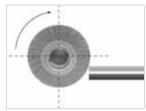
Brush-tube orientation determines which edges of the tube are deburred. The illustrations below show three orientations and the target edge.



Deburring Tube I.D.



Deburring Tube I.D. and O.D.



Deburring Tube O.D.

WIDE FACE BRUSH SPECIFICATION SHEET:

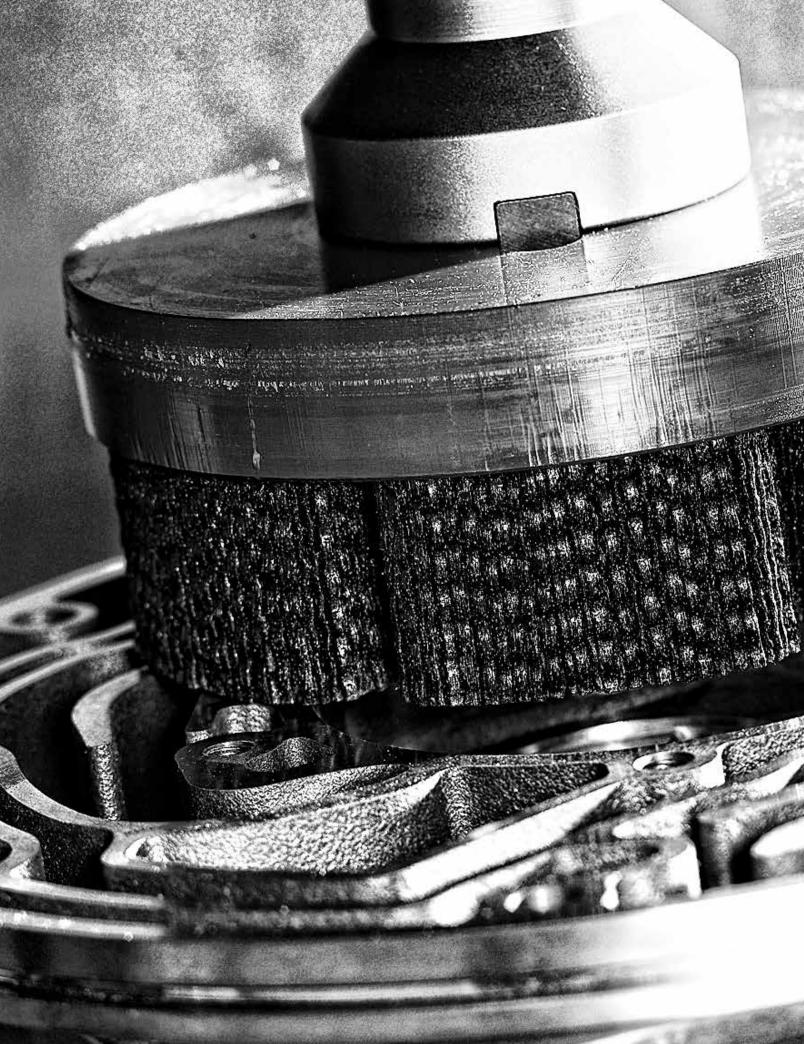
To help us accurately quote a wide face brush for your application, please provide the following information:

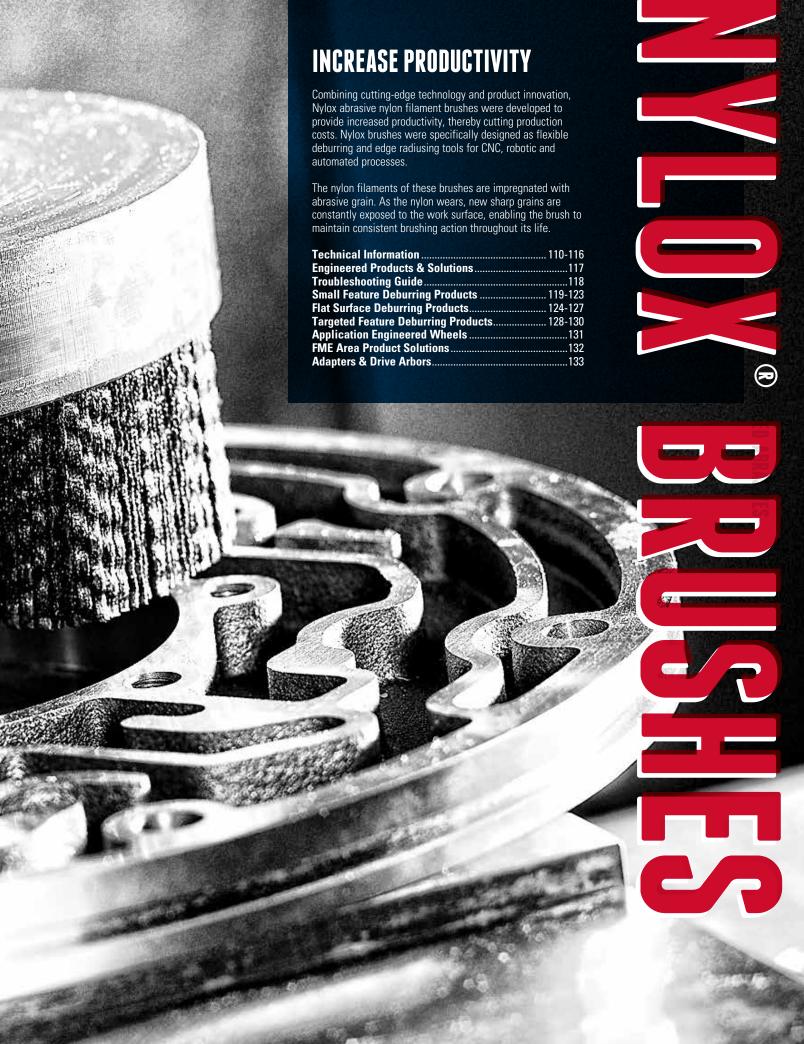
Face Width
Brush Diameter Adapter Width Diameter Roll-to-Roll Distance Brush Diameter Arbor Hole Diameter
Brush Diameter (Note: Tolerance is +/- 1/16")
Fill Material Fill Diameter
Fill Density: ☐ Economy ☐ General Purpose ☐ Heavy-Duty ☐ High Performance
Face Width (Note: Tolerance is +/- 1/4") Roll-to-Roll Distance - Through Arbor Dimension (Note: Tolerance is +/- 1/8")
Brush can be manufactured holding the face width dimension or the roll-to-roll distance, not both.
Sideplate Diameter
Standard sizes:
6" brush = 3-3/4" 0.D.
8" brush = 5-1/4", 5-1/2" or 6-1/2" O.D.
>8" brush = 5-1/2" or 6-1/2" 0.D.
Maximum Operating RPM
Adapter Width (Note: Adapters are 1/2" thick, tolerance on width spacing is +/- 1/8")
Arbor Hole Diameter (Note: Clearance of 0.003" with additional tolerance of + 0.004" - 0 will be added)
☐ Keyway(s) Required ☐ Single ☐ Double Keyway Width Keyway Depth
Intended Brush Use:
Name: End-User Name:
Company Name: City:
Address: State: Zip:
Phone: (

FOR ADDITIONAL INFORMATION CALL:

E-mail: ___

To discuss specific requirements with a specialist call: 800-835.9999





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 that 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.



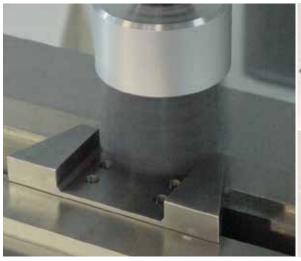




TOOL STEEL DEBURRING

Problem: Traditional nylon abrasive brushes were not sufficiently aggressive to remove large burrs from materials like tool steels and stainless steels.

Solution: Weiler's next generation filament technology, embodied in the company's line of Burr-Rx brushes, creates sufficient aggression to handle the toughest deburring jobs. This enables more users to capture the benefits offered by in-machine deburring.













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 facemilled 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 in-machine 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 that contain silicon carbide or aluminum oxide filaments. This allows Burr-Rx deburring tools to be used at feed rates that dramatically reduce the amount of additional machine time required to perform a brushing operation.



TURBINE BLADE

Before

After

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 wellsuited 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 that maximize brush life while generating exceptional part quality and consistency.

SELECTING THE RIGHT BRUSH

WHERE TO START?

Sometimes it's necessary to design and manufacture a unique, custom-tailored product to meet your application 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 our standard products.
- Wide face brush assemblies for finishing flat surfaces or deburring cylindrical parts can also be designed and manufactured using Nylox nylon abrasive filaments. (See pages 100-101 for more information)

FOR SOLUTIONS TO DIFFICULT APPLICATIONS

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.

For more information and to schedule a consultation with a Weiler Process Solutions expert visit: weilerabrasives.com/wps. To discuss specific requirements with a specialist call: 800-835.9999.

TRIM LENGTH AND FILL DENSITY

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.

LONG TRIM, LOW DENSITY





These 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.

SHORT TRIM, HIGH DENSITY





These 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.

GRIT SIZE COLORS

Grit size is indicated by a dot on the product with the following colors:

Black 46 Grit

Green 120 Grit

Gold 200 Grit

Purple 600 Grit Blue 1000 Grit

Grey 180 Grit

White 320 Grit

Lt. Blue 800 Grit



Pink 1200 Grit

Yellow 80 Grit

Red 60 Grit

Orange 240 Grit

Brown 500 Grit

PRODUCT ADVANTAGES

PRODUCT ADVANTAGES

AGGRESSIVE YET COMPLIANT



- Nylox® brushes do not alter the overall dimensions or geometry of a part.
- Filament compliance allows these brushes to conform to complex part shapes and reduces the need for ultraprecise programming and fixturing.

IDEAL FOR DEBURRING



- Nylox filaments act like flexible files, deburring and radiusing edges as they wipe across them.
- 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 ENHANCED SURFACE AUTOMATION FINISHES



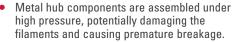
- Abrasive grain is evenly distributed throughout the nylon filament.
- Extremely consistent performance throughout their product life.
- Ideal media for use in automated deburring and finishing processes.
- Ideal for dedicated production equipment or robotic cells.
- Can be directly integrated into the cycle of CNC machining centers.
- Improve part quality and consistency.
- Reduce direct labor cost.



- The compliant cutting action 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.

CONSTRUCTION ADVANTAGES

COMPETITOR'S METAL HUB



- 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

- 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

- 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.



WEILER'S PVC SHELL MILL

The PVC construction results in a very consistent, flat brush face. Their high dimensional precision makes them suitable for the most critical applications. They perform more consistently from the first part to the last.



WEILER'S TUFTED FILAMENTS

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



WEILER'S MAXIMUM DENSITY

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



PRODUCT CHARACTERISTICS

WHEEL BRUSHES



- Precision deburring of component parts after machining or grinding.
- Improving surface texture 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.



DISC BRUSHES



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



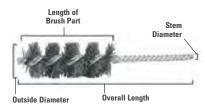
END BRUSHES



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



TUBE BRUSHES



 Deburring and finishing applications in tubular component parts, drilled and tapered holes and machined bores and passages.



CROSSHOLE DEBURRING BRUSHES



- Deburring internal edges.
- Improving surface texture on internal bores.

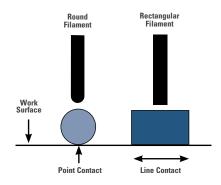


FILAMENT CONFIGURATIONS

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.



ABRASIVE 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 that have been sifted and sorted to ensure that the grains are consistent in size. These grains may be one of four different types of abrasive:

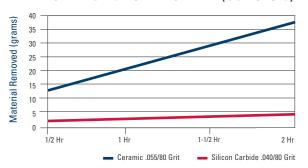
- ALUMINUM OXIDE (AO) is a duller, less aggressive grain typically used in finishing applications requiring a less pronounced scratch line pattern or deburring applications on materials where the use of SiC may be prohibited
- SILICON CARBIDE (SIC) is a sharp-edged grain that produces an effective cutting action. It is the most common grain used in industrial grade brushes.
- BURR-RX CERAMIC (CG) is 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!
- DIAMOND FILAMENT is a sharp-edged grain typically used for producing edge radii on hard materials like diamond, ceramic, CBN and glass.

ADVANTAGES OF BURR-RX® CERAMIC

Nylox brushes containing the Burr-Rx black ceramic filament provide the following advantages over SiC and AO filaments.

- 400% greater cutting action
- Most cost-effective deburring brush
- Deburr tougher materials
- Minimize cycle time
- Maximize tool life
- Reduce finishing costs
- Eliminate hand deburring

DEBURRING ACTION - BURR-RX (CG VS. SIC)



WHEEL VS. DISC BRUSH



Nylox wheel brushes are for applications where a targeted brushing action is required.



Disc brushes are for applications where the burrs lie along a single plane.

OPERATING INFORMATION

OPERATING PARAMETERS

Nylox* abrasive brushes work with a wiping and filing action. Think of them as flexible files. 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. They work best when operated at speeds that allow

WHEEL BRUSHES
PENETRATE 10% OF TRIM LENGTH



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

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.

DISC BRUSHES 0.075" - 0.100" DEPTH OF INTERFERENCE



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

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

RECOMMENDED MOTOR SIZES

Brush Diameter	Motor Size	RPM*
3"-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.

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"	1"
14"	3"	1-1/4"
15"	3"	2"
16"	3"	2"

^{*} A variable-speed motor control may be required to achieve optimum operating RPM; see operating speed charts above.

COOLANT & WEAR COMPENSATION

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 amount of adjustment that will result for 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.

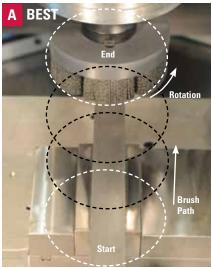
MANUAL

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.

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:

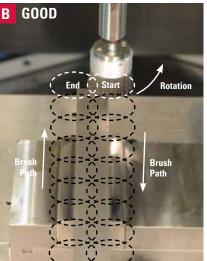
- The rotation direction of the brush should be opposite of the cutting tool that created the burr.
- The length of the path must be longer than the part. Unlike a cutter path that can stop when the leading edge of the cutter
 reaches the end of the part, the tool path of a brush should continue until 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 cycle time with the lowest consumable cost-per-part.



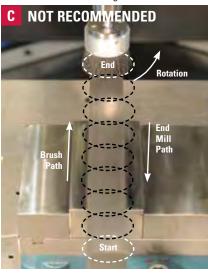
If a large diameter brush can be used, the centerline of the brush should be positioned on the center of the part. Ideally, the brush should be 3-4" wider than the part.

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.



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.

Produces less deburring than A & B.



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.



NYLOX® BRUSHES IN AUTOMATED ENVIRONMENTS

MYTH:

The abrasive grain in the Nylox brush will affect the accuracy of the equipment over time.

FACT:

The abrasive grain in the Nylox brushes will not result in accelerated machine wear over time when used with proper filtration (50-micron or finer).



Automotive Case Study

In the auto industry a five year study was conducted on the use of Weiler Nylox brushes with silicon carbide (SiC) grain in the manufacturing of aluminum intake and exhaust manifolds. Over the period of the study, there was no noticeable difference in way wear between machines that ran brushes and those that did not. A 50-micron coolant filter worked as specified to remove the residuals from the brushing process.

Aerospace Case Study

A three year study was conducted on the use of Weiler Nylox brushes with ceramic grain (CG) in the manufacture of jet engine components. Over the period of the study, there was no loss in accuracy in the aerospace manufacturer's machines. A 50-micron coolant filter worked as specified to remove the residuals from the brushing process.

ENGINEERED PRODUCTS AND CUSTOMIZED SOLUTIONS



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

WE PROVIDE YOU WITH THE MOST COST-EFFECTIVE APPLICATION SOLUTIONS

Sometimes it is necessary to design and manufacture a unique, custom tailored product to meet your application 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.
- 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. (See pages 104-105 for more information)

FOR SOLUTIONS TO DIFFICULT APPLICATIONS

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.

For more information and to schedule a consultation with a Weiler Process Solutions expert visit: weilerabrasives.com/wps. To discuss specific requirements with a specialist call: 800-835.9999.



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.

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

NEED HELP?

For more information and to schedule a consultation with a Weiler Process Solutions expert visit: weilerabrasives.com/wps.

To discuss specific requirements with a specialist call: 800-835.9999.

SMALL FEATURE DEBURRING PRODUCTS

SMALL DIAMETER WHEELS

Ideal for recesses and internal features or delivering targeted brushing action to a specific area. Our Burr-Rx® black ceramic grain filament wheels deliver up to a 400% greater edgecutting action compared to traditional silicon carbide and aluminum oxide filaments for the fastest, most aggressive action for minimum cycle times and maximum 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

	Filament	Arbor	Face	Trim	Max.	Standard	Item
Diamet	er Dia./Grit	Hole	Width	Length	RPM	Pack	Number
1-1/2	.026/120	1/2"	3/8"	1/4"	10,000	10	17541
2"	.026/120	1/2"	3/8"	1/2"	10,000	10	17548
	.035/80						17555
3"	.026/120	1/2"	1/2"	1"	10,000	10	17565
	.035/80						17567
	.043/120						17568

Other diameters and grit sizes available upon request.



Deburring the edges of a machined aluminum component.



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*
2"	.018/500	1/2"	3/8"	1/2"	10,000	10	17533
	.022/320						17543
	.040/120						17633
2"	.022/120	5/8"	7/16"	7/16"	10,000	10	17629 •
2-1/2"	.022/320	5/8"	1/2"	11/16"	10,000	10	29356
	.022/120						29123
3"	.022/320	1/2"	1/2"	1"	10,000	10	17563
	.022/120						16315
	.040/120						16263



DRIVE ARBORS - For mounting small diameter wheels into a collet or chuck.

Arbor Diameter	Stem Diameter	Stem Length	Length of Shaft	For Brushes with Max. Dia. of	Overall Length	Max. RPM	Standard Pack	Item Number
			U	Inthreaded Sha	ft			
1/4"	1/4"	1-1/8"	3/16"	2"	2-1/16"	20,000	5	07723
				Threaded Shaf	t			
1/2"	1/4"	3/4"	3/4"	3"	1-3/4"	25,000	5	07724
5/8"	1/4"	3/4"	3/4"	3"	1-13/16"	25,000	5	07729
1/2"	1/4"	7/8"	3/4"	3"	1-11/16"	20,000	5	07721
1/4"	1/4"	1-1/16"	1-1/8"	2"	2-9/16"	20,000	5	07725

PLASTIC ADAPTERS for mounting small diameter wheels onto various arbor sizes.

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

Non-stock product, contact Customer Service for lead times and minimum order quantities.





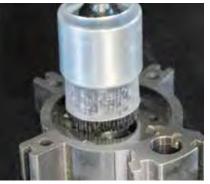








NOTE See adapters on page 133



Deburring small features on a powdered metal part.

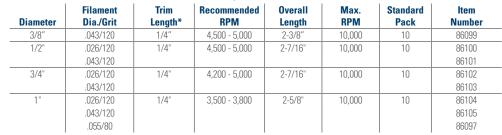
END BRUSHES

Featuring an integral stem for convenient mounting into a tool holder 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



^{*} Trim length from bands



END BRUSHES - Banded - Crimped Round Silicon Carbide Filament - Mounted on 1/4" Stems

Diameter	Filament Dia./Grit	Trim Length*	Overall Length	Max. RPM	Standard Pack	Item Number
1/2"	.022/320	3/8"	2-9/16"	10,000	10	11160
	.035/180					11161
	.040/120					11162
3/4"	.035/180	3/8"	2-7/16"	10,000	10	11165
	.040/120					11166 •
1"	.035/180	3/8"	2-11/16"	10,000	10	11169
	.040/120					11170

^{*} Trim length from bands



END BRUSHES - Crimped Round Silicon Carbide Filament - Mounted on 1/4" Stems

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





MINIATURE END BRUSHES - Plastic Ferrule - Crimped Round Silicon Carbide Filament

Mounted on 1/8" stems

Diameter	Filament Dia./Grit	Trim Length	Overall Length	Max. RPM	Standard Pack	ltem Number
3/16"	.018/500	1/4"	1-7/8"	37,000	144	26136
1/4"	.018/500	3/8"	2-1/8"	37,000	144	26138
5/16"	.018/500	9/16"	2-11/32"	25,000	144	26146

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 Dia./Grit	Arbor Hole	Drive Arbor + Recommendation	Trim Length	Max. RPM	Standard Pack	ltem Number
			Round Fil	ament			
2"	.026/120	3/8"	89029 or 89033	1-1/4"	4,500	2	86106
	.035/80					1	85738
	.043/120					2	86107
	.055/80					2	85733
3"	.026/120	3/8"	89029 or 89033	1-1/4"	4,500	1	86109
	.035/80						86013
	.043/120						86110
	.055/80						86111
			Rectangular	Filament			
2"	80	3/8"	89029 or 89033	1-1/4"	4,500	1	85736
3"	80	3/8"	89029 or 89033	1-1/4"	4,500	1	86014

⁺ See page 133 for drive arbor specifications.

MINI DISC BRUSHES - Silicon Carbide Filament

	Filament	Arbor	Drive Arbor +	Trim	Max.	Standard	ltem
Diameter	Dia./Grit	Hole	Recommendation	Length	RPM	Pack	Number
			Round Fi	ament			
1-3/4"	.035/180	5/8"	89023 or 89024	1-1/4"	6,000	2	85753
	.040/80						85750
			Rectangular	Filament			
1-3/4"	80	5/8"	89023 or 89024	1-1/4"	6,000	2	85752 •
2"	80	3/8"	89029 or 89033	1-1/4"	4,500	2	85773*
3"	80	3/8"	89029 or 89033	1-1/4"	4,500	1	85981*

⁺ See page 133 for drive arbor specifications.



Deburring the machined face of an aluminum component.







85981

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 hand-held 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	1/4" Stem	1-1/4"	6,000	1	14401 •
	.035/180					14403 •
	.040/120					14404
3-1/2"	.035/180	5/8"-11	1-1/2"	12,000	1	14413
	.040/120					14414
5"	.040/120	5/8"-11	1-1/4"	9,000	1	14576
6"	.040/120	5/8"-11	1-1/4"	6,600	1	14516*
	.040/80					14506*

^{*} With internal nut



NOTE See adapters on page 133

^{*} Maximum density

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.



Deburring internal bores of a cylinder head.

BORE-RX™ CROSSHOLE DEBURRING 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.

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

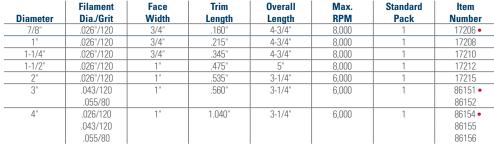
An effective tool path for most crosshole deburring jobs is circular interpolation using the following guidelines to determine diameter of interpolation. The interpolation should be performed at a depth where the center of the brush face is at the center of the intersecting hole.

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.





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.





CUSTOMIZABLE CROSSHOLE DEBURRING SOLUTIONS

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 1-1/2" 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. To discuss specific requirements with a specialist call: 800-835.9999.



Replacement Head





for Replacement Heads

TUBE BRUSHES

Nylox* power tube brushes are ideal for internal deburring and finishing applications in tubular component parts, drilled and tapered holes, and machined bores and passages. These brushes are suitable for use in drill presses, manual drills and CNC machine tools. See page 114 for operating guidelines.

BURR-RX® TUBE BRUSHES - Crimped Black Ceramic Filament - 1/4" Cadmium Plated Stems

Nominal Diameter	Traditional Diameter	Metric Diameter	Filament Dia./Grit	Length of Brush Part	Stem Diameter	Overall Length	Standard Pack	Item Number
1/4"	0.250"	6.35 mm	.026/120	1"	1/4"	3-1/2"	10	21757
3/8"	0.375"	9.53 mm	.026/120	1"	1/4"	3-1/2"	10	21758
1/2"	0.500"	12.70 mm	.026/120	1"	1/4"	3-1/2"	10	21759
5/8"	0.625"	15.88 mm	.026/120	1"	1/4"	3-1/2"	10	21761 •
3/4"	0.750"	19.05 mm	.026/120	1"	1/4"	3-1/2"	10	21762
7/8"	0.875"	22.23 mm	.026/120	1"	1/4"	3-1/2"	10	21763
1"	1.000"	25.40 mm	.026/120	1"	1/4"	3-1/2"	10	21764
1-1/4"	1.250"	31.75 mm	.026/120	1"	1/4"	3-1/2"	10	21765 •



Crosshole deburring an aluminum manifold.



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	Item 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	2"	3/16"	5"	10	21130 •
	.040/80					21325
5/8"	.022/320	2"	7/32"	5"	10	21132
	.040/80					21326
11/16"	.022/320	2"	7/32"	5"	10	21133
3/4"	.022/320	2-1/2"	1/4"	5-1/2"	10	21134
	.040/80					21327
7/8"	.022/320	2-1/2"	1/4"	5-1/2"	10	21136
	.040/80					21976
1"	.022/320	2-1/2"	1/4"	5-1/2"	10	21138
	.040/80					21328
1-1/4"	.022/320	2-1/2"	1/4"	5-1/2"	10	21306
	.022/120					21304
	.035/180					21305
1-1/2"	.022/320	2-1/2"	1/4"	5-1/2"	10	21309
	.035/180					21308
	.040/80					21330
2"	.022/320	2-1/2"	1/4"	5-1/2"	10	21473
	.040/80					21345







TUBE BRUSHES - Micro Abrasive - For ultra-fine deburring and finishing of small internal holes.

	Length of	Stem	For Hole	Diameters	Overall	Standard	ltem
Diameter	Brush Part	Diameter	Decimal	Fraction	Length	Pack	Number
		2000	Grit Alumin	um Oxide Fil	ament		
.030"	1/2"	.015	.031"	1/32"	4"	10	26900
.050"	1/2"	.022	.047"	3/64"	4"		26901
.075"	3/4"	.033	.063"	1/16"	4"		26902
.090"	3/4"	.041	.078"	5/64"	4"		26903
.105"	1"	.041	.094"	3/32"	4"		26904
.125"	1"	.064	.109"	7/64"	4"		26905
.135"	1"	.075	.125"	1/8"	4"		26906
		600	Grit Aluminu	ım Oxide Fil	ament		
.165"	1"	.087	.156"	5/32"	5"	10	26907
.190"	1"	.087	.188"	3/16"	5"		26908
.260"	1"	.115	.250"	1/4"	5"		26909
.325"	1"	.115	.313"	5/16"	5"		26910
.385"	1"	.147	.375"	3/8"	5"		26911
.515"	1"	.194	.500"	1/2"	5"		26912
.640"	1"	.194	.625"	5/8"	5"		26913
.765"	1"	.212	.750"	3/4"	5"		26914







[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

Deburring a bearing cage in a CNC machining center.

DISC BRUSHES

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 life.

All Burr-Rx disc brushes are manufactured using a new process that 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
 Blending tool marks after machining or grinding

FLAT SURFACE DEBURRING PRODUCTS

- Deburring face-milled castings or forgings

OPERATING SPEEDS - DISC BRUSHES



Disc brush shown with shell mill holder

DISC BRUSHES 0.075" - 0.100" DEPTH OF INTERFERENCE

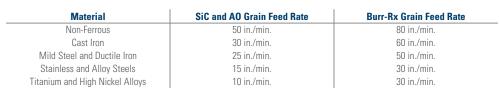


Diameter	RPM
1-3/4" & 2"	1,750 - 2,000
3"-4"	1,500 - 1,750
5" - 6"	1,250 - 1,500
8"	800 - 1,000
10"	700 - 800
12"	600 - 700

500 - 600

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.





86112

BURR-RX® SHELL MILL HOLDER DISC BRUSHES - Crimped Black Ceramic Filament Compatible with 3" shell mill holders.

Diameter	Filament Dia./Grit	Arbor Hole	Trim Length	Max. RPM	Standard Pack	ltem Number
			Round Filament			
4"	.026/120	1-1/4"	1-1/2"	2,500	1	86112
	.043/120					86113
	.043/120					86204*
	.055/80					86114*
6"	.026/120	1-1/4"	1-1/2"	2,500	1	86115
	.043/120					86116
	.055/80					86117*
8"	.043/120	1-1/4"	1-1/2"	2,000	1	86142 •
	.055/80					86143*
10"	.043/120	1-1/4"	1-1/2"	2,000	1	86121
	.055/80					86122*
	,	R	ectangular 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"	2,500	1	86199*



Non-stock product, contact Customer Service for lead times and minimum order quantities.

COMPOSITE HUB DISC BRUSHES - Silicon Carbide Filament

Diameter	Filament Dia./Grit	Arbor Hole	Drive Arbor Recommendation	Trim Length	Max. RPM	Standard Pack	ltem Number
2141110101	214, 011		Crimped Rour			1 1 1 1 1	
3"	.035/180	7/8"	07700	1-1/2"	2,500	1	85776
	.040/120						85778
3-1/2"	.022/320	7/8"	07700	1-1/2"	2,500	1	85792
	.035/180						85794
	.040/80						85798
4"	.035/180	7/8"	07700	1-1/2"	2,500	1	85814
	.040/120						85816
	.040/80						85818 •
5"	.035/180	7/8"	07700	1-1/2"	2,500	1	85832
6"	.035/180	7/8"	07701	1-1/2"	2,000	1	85850
	.040/120						85852
	.040/80						85854
8"	.035/180	7/8"	07702	1-1/2"	2,000	1	85908 •
12"	.040/120	7/8"	07703	1-1/2"	1,750	1	85948 •
			Rectangula	r Filament			
3"	120	7/8"	07700	1-1/2"	2,500	1	85786
	80						85788
3-1/2"	80	7/8"	07700	1-1/2"	2,500	1	85806
4"	120	7/8"	07700	1-1/2"	2,500	1	85824 •
	80						85826
	80						85995 ●
5"	120	7/8"	07700	1-1/2"	2,500	1	85842 •
	80						85844
	80						85978 • •
6"	120	7/8"	07701	1-1/2"	2,000	1	85860 •
	80		07701				85862
	80		07715				85996 ●
	80		07715				85901* • •
8"	120	7/8"	07702	1-1/2"	2,000	1	85920 •
	80						85922 •
9"	80	7/8"	07702	1-1/2"	1,750	1	85997 • •
10"	80	7/8"	07703	1-1/2"	1,750	1	85940



Deburring the edges of an aluminum engine cover.



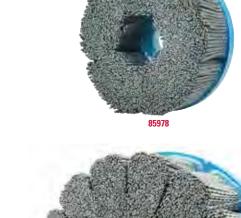




Arbor & Drive Hole Specifications for Composite Hub Disc Brushes

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







^{*} Banded for extra aggression



Removing burrs and breaking sharp edges on a transmission component.

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



85733



35752

BURR-RX® MINI DISC BRUSHES - Maximum Density - Crimped Black Ceramic Filament

Diameter	Filament Arbor Drive Arbor + meter Dia./Grit Hole Recommendation		Trim Length	Max. RPM	Standard Pack	Item Number	
			Round Fi	lament			
2"	.026/120	3/8"	89029 or 89033	1-1/4"	4,500	2	86106
	.035/80					1	85738
	.043/120					2	86107
	.055/80					2	85733
3"	.026/120	3/8"	89029 or 89033	1-1/4"	4,500	1	86109
	.035/80						86013
	.043/120						86110
	.055/80						86111
			Rectangular	Filament			
2"	80	3/8"	89029 or 89033	1-1/4"	4,500	1	85736
3"	80	3/8"	89029 or 89033	1-1/4"	4,500	1	86014

⁺ See page 133 for drive arbor specifications.

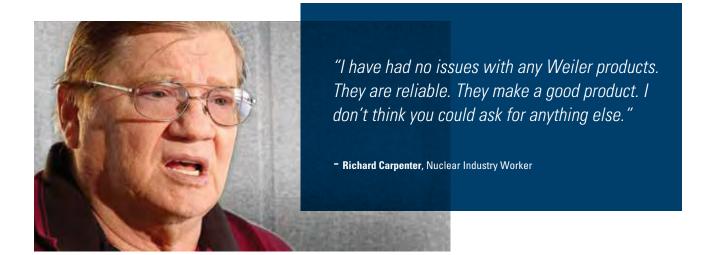


85981

MINI DISC BRUSHES - Silicon Carbide Filament

Diameter	Filament Dia./Grit	Arbor Hole	Drive Arbor + Recommendation	Trim Length	Max. RPM	Standard Pack	Item Number
			Round Fi	lament			
1-3/4"	.035/180	5/8"	89023 or 89024	1-1/4"	6,000	2	85753
	.040/80						85750
			Rectangular	r Filament			
1-3/4"	80	5/8"	89023 or 89024	1-1/4"	6,000	2	85752 •
2"	80	3/8"	89023 or 89024	1-1/4"	4,500	2	85773*
3"	80	3/8"	89023 or 89024	1-1/4"	4,500	1	85981*

⁺ See page 133 for drive arbor specifications. * Maximum density



END BRUSHES

Featuring an integral stem for convenient mounting into a tool holder 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



Diameter	Filament Dia./Grit	Trim Length*	Recommended RPM	Overall Length	Max. RPM	Standard Pack	ltem Number
3/8"	.043/120	1/4"	4,500 - 5,000	2-3/8"	10,000	10	86099
1/2"	.026/120	1/4"	4,500 - 5,000	2-7/16"	10,000	10	86100
	.043/120						86101
3/4"	.026/120	1/4"	4,200 - 4,500	2-7/16"	10,000	10	86102
	.043/120						86103
1"	.026/120	1/4"	3,500 - 3,800	2-5/8"	10,000	10	86104
	.043/120						86105
	.055/80						86097

^{*} Trim length from bands



Blending tool marks on a hydraulic component.



END BRUSHES - Banded - Crimped Round Silicon Carbide Filament - Mounted on 1/4" Stems

Diameter	Filament Dia./Grit	Trim Length*	Overall Length	Max. RPM	Standard Pack	Item Number
1/2"	.022/320	3/8"	2-9/16"	10,000	10	11160
	.035/180					11161
	.040/120					11162
3/4"	.035/180	3/8"	2-7/16"	10,000	10	11165
	.040/120					11166 •
1"	.035/180	3/8"	2-11/16"	10,000	10	11169
	.040/120					11170

* Trim length from bands



END BRUSHES - Crimped Round Silicon Carbide Filament - Mounted on 1/4" Stems

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





MINIATURE END BRUSHES - Plastic Ferrule - Crimped Round Silicon Carbide Filament

Mounted on 1/8" stems

	Filament	Trim	Overall	Max.	Standard	Item
Diameter	Dia./Grit	Length	Length	RPM	Pack	Number
3/16"	.018/500	1/4"	1-7/8"	37,000	144	26136
1/4"	.018/500	3/8"	2-1/8"	37,000	144	26138
5/16"	.018/500	9/16"	2-11/32"	25,000	144	26146



Deburring a vane section for a jet engine.

TARGETED FEATURE DEBURRING PRODUCTS

WHEEL BRUSHES

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 that folds the fill material around an internal retaining ring or wrap wire, these techniques result in a significant increase in fill density and 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

All I EloAllollo

BURR-RX® CRIMPED FILAMENT WHEELS

Composite Metal Hub* - Crimped Round Black Ceramic Filament

6" .026/120 2" 3/4" 1" 15/16" 4,000 .035/80 .043/120 .055/80	1	86123 86181 86124
.043/120		
		06124
055/90		00124
.000/00	1	86120
8" .026/120 2" 7/8" 2" 15/16" 4,000	1	86126
.043/120		86127
.055/80		86128
10"	2	86129
.035/80		86182 •
.043/120		86130
.055/80		86131
12" .026/120 2" ★ 1-1/4" 3" 7/8" 1,800	2	86132
.043/120		86133
.055/80		86134
14" .026/120 2"★ 1" 1-3/4" 3/4" 1,800	2	86135
.035/80		86108
.043/120		86136
.055/80		86137
14" .043/120 2"★ 1-1/4" 4" 7/8" 1,800	2	86139
.055/80		86140

^{*}Patent Pending



^{★ 1/2&}quot; x 1/4" Double Keyway

Non-stock product, contact Customer Service for lead times and minimum order quantities.

BURR-RX CRIMPED FILAMENT WHEELS

Composite Hub - Crimped Round Black Ceramic Filament

0.D. x I.D.	Filament Dia./Grit	Face Width	Trim Length	Thickness At Face Plates	Max. RPM	Standard Pack	Item Number
14" x 7-1/4"	.043/120	1"	2-3/4"	15/16"	1,800	2	84941 •
	.055/80						83405 •



Removing burrs from an aluminum heat sink.

CRIMPED FILAMENT WHEELS - Composite Metal Hub* - Crimped Round Silicon Carbide Filament

Diameter	Filament Dia./Grit	Arbor Hole	Face Width	Trim Length	Thickness Through Arbor	Max. RPM	Standard Pack	Item Number
6"	.018/500	2"	1"	1-1/4"	1-1/16"	4,000	1	83000
	.022/320							83010
	.022/120							83011 •
	.035/180							83030
	.040/120							83040
	.040/80							83050 •
8"	.018/500	2"	1"	2-1/4"	3/4"	4,000	2	83100
	.022/320							83110
	.022/120							83111
	.035/180							83130
	.040/120							83140 •
	.040/80							83150
10"	.022/320	2"★	1-1/8"	2"	7/8"	1,800	2	83513 •
	.035/180							83514 •
	.040/80							83516
12"	.040/120	2"★	1-1/4"	3"	7/8"	1,800	2	83717
	.040/80							83718

^{*}Patent Pending ★ 1/2" x 1/4" Double Keyway



METAL HUB BASIC SECTIONS

CRIMPED FILAMENT BASIC SECTIONS - Metal Hub - Crimped Round Silicon Carbide Filament For light-duty deburring and finishing in applications such as low-volume manual deburring or general use in a tool room or shop.

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	5/8"	1-1/2"	9/16"	6,000	2	20600
	.035/180						20610
	.040/120						20620
8" x 2"	.022/320	5/8"	2-1/2"	9/16"	5,000	2	20630 •
	.040/120						20650



NOTE See adapters on page 133

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.



Deburring the tip of a turbine blade.

31110



NARROW FACE WHEELS

BURR-RX® HEAVY-DUTY NARROW FACE WHEELS - Metal Hub - Crimped Round Black Ceramic Filament

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

BURR-RX NARROW FACE WHEELS - Metal Hub - Crimped Round Black Ceramic Filament

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



HEAVY-DUTY NARROW FACE WHEELS - Metal Hub - Crimped Round Silicon Carbide Filament

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



NARROW FACE WHEELS - Metal Hub - Crimped Round Silicon Carbide Filament

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

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

APPLICATION ENGINEERED WHEELS

CRIMPED FILAMENT WHEELS - Composite Hub - Crimped 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
8" x 2"*	.040/120	7/8"	2-1/8"	13/16"	3,600	2	83190 •
	.040/80						83180 •
10" x 2"	.018/500	1"	3"	1-1/16"	3,600	2	83300
	.035/180						83330
	.040/120						83340
	.040/80						83350
10" x 3-1/4"	.035/180	1"	2-5/16"	13/16"	1,800	2	83430 •
	.040/120						83440
	.040/80						83450
12" x 4-1/4"	.035/180	1"	3-1/8"	15/16"	1,800	2	84730 •
12" x 5-1/4"	.040/80	1-1/8"	2-3/4"	15/16"	1,800	2	83750
14" x 5-1/4"	.022/320	1-1/8"	3-3/4"	15/16"	1,800	2	83910
	.040/120						83940 •
	.040/80						83950
14" x 5-1/4"-2"*	.022/320	1-1/8"	3-3/4"	1-1/16"	1,800	2	85150 ••



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



Deburring a camshaft with a Nylox wheel.



DIAMOND FILAMENT WHEEL BRUSHES

Weiler's diamond filament wheels are ideal for producing edge radii on hard materials such as diamond, CBN, ceramic and glass. 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. Other sizes and pricing are available on request. Please contact Customer Service at 800-835-9999.

DIAMOND FILAMENT WHEELS - Composite Hub - Round Diamond 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"	.024/200	5/16"	1-1/4"	1/4"	3,600	1	83002
	.014/600						83003
	.012/1000						83004
8" x 2"	.024/200	5/16"	2-1/4"	1/4"	3,600	1	83005
	.014/600						83006
	.012/1000						83007



NOTE See adapters on page 133

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities



Removing gasket material from a pipe flange.

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.

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.







CONTROLLED FLARE END BRUSH - Crimped Ceramic Filament - 1/4" Stem

For cleaning corners and tight areas.





95016

HAND SCRATCH BRUSHES - Crimped Ceramic Filament - For general purpose, light-duty cleaning.

Overall	Block	Brush	Grit	Trim	Standard	ltem
Length	Type	Part	Size	Length	Pack	Number
8-3/4"	Wood	2 x 9 Rows	120	5/8"	36	

NOTE

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

METAL ADAPTERS - Reusable - Used in pairs and priced per pair.

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



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	Item Number
6-1/2"	1-1/4"	5-1/4" I.D.	1	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 Size	Standard Pack	Item Number
5-1/4"	1-1/4"	1	03403 •

03403

PLASTIC ADAPTERS

Fixed Arbor Hole Size	Adapted Arbor Hole Size	Used With	Standard Pack	Item 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.

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





MINIATURE & BURR-RX DISC BRUSH DRIVE ARBORS - Includes drive arbor, set screw and hex key. Recommended for operations in which brush rotation alternates between forward and reverse.

For Brush	Stem	Stem	Max.	Standard	ltem
Diameter	Diameter	Length	RPM	Pack	Number
2"-3"	1/2"	1-3/4"	6,000	1	89033*



DISC BRUSH FLOW-THROUGH DRIVE ARBORS

Mounts Weiler disc brushes to any type of milling machine or CNC machine.

Fits	Arbor Hole	Drive Studs	Bolt Circle	Plate 0.D.	Shaft Dia.	Stem Length	Std. Pack	Item Number
3", 4" and 5" Disc Brushes	7/8"	2	1-1/4"	2-7/8"	3/4"	2-3/4"	1	07700
6" Std. Tuft Disc Brushes NOT Max. Density	7/8"	3	3"	5-7/8"	3/4"	2-1/2"	1	07701
6" Max. Density Disc Brushes, also 5" Std. Tuft	7/8"	2	1-1/4"	4-7/8"	3/4"	2-1/2"	1	07715
8" and 9" Disc Brushes	7/8"	4	3"	7-7/8"	3/4"	2-1/2"	1	07702 •
Replacement kit includes: (1) 1/2"-13 locking flow	v-through k	nolt & /1) F	Rallavilla er	nring wash	or		1	N7718 •

Replacement kit includes: (1) 1/2"-13 locking flow-through bolt & (1) Belleville spring washer



NOTE

- Do not adapt a wheel brush for use on a shaft diameter less than that specified by ANSI B165.1 or exceed the maximum wheel diameter specified for a drive arbor.
- Never mount a drive arbor onto a tool that 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.





P PERFORMANCE LINE (INDUSTRIAL GRADE)

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.

V VALUE LINE (PROFESSIONAL GRADE)

Weiler's value line is manufactured using similar product construction and 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 light-duty industrial MRO use.

FILL MATERIALS GUIDE

Туре	
Horsehair	Very of
	 Natur
	 Resis
	• Can b
ENGLISH OF THE ROLL OF THE	 Fine t

Advantages Applications Notes durable and resilient · Fine particles Not for use on oily · Ideal for polished and smooth surfaces rally flagged tips or wet surfaces Scratch-free sweeping stant to high temperatures (to 370°F) be blended with other materials

Tampico	
Palmyra	
Bassine	•
Bass	

Туре	Advantages	Applications	Notes
Tampico (1)	Material holds water very well	Polishing, buffing and cleaning	Natural color is off white
	 Heat, alkali and acid resistant (to 283°F) 	Scrubbing and washing	Can be dyed or bleached
	Soft to medium texture	Ideal for wet and dry applications	
	Good durability		
Palmyra	Softer and finer texture than Bassine	Used in garage, scrub, deck	Brown in color
	 More economical than Bassine 	and patio brushes	
	Medium to coarse texture	Ideal for wet and dry applications	
	Good durability		
Bassine Bassine	Coarse, tough fibers	Heavy scrubbing and cleaning	Dark brown in color
	Excellent durability	Tasks requiring a tough,	
ALVA MARKE NEWSCHILD		long-lasting natural fiber	
Bass	Good flexibility	Heavy-duty cleaning applications	Dark brown in color
THE RESERVE AND A STREET	 Very coarse, tough fibers 	Use on rough surfaces	
	Excellent durability		

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Туре	Advantages	Applications	Notes
Nylon	Excellent durability	Heavy-duty industrial	May be level or crimped
	Resistant to most acids & alkali	Scrubbing and cleaning	
	High water absorbency	Wet and dry applications	
C. (***) *** (***) *** (***) *** (***) *** (***) *** (***) *** (***) *** (***) *** (***) *** (***) *** (***) **	Resistant to high temperatures (to 350°F)		
PERSONAL PROPERTY AND ADDRESS.	Best man-made fiber to resist fatigue		
Polypropylene ///////////////////////////////////	Very durable	Variety of medium to coarse	May be level or crimped
	Acid, oil, bacteria and fungus resistant	industrial applications	
2000 00 00 00 00 00 00 00 00 00 00 00 00	Versatile		
SHEELES AN ASE THE OR 103/03	Resistant to high temperatures (to 225°F)		
	Will not absorb moisture		
Polystyrene	Extremely durable	Used in vehicle care brushes	May be level or crimped
	Liquid and oil resistant	Used in fruit and vegetable wash brushes	Not for use with sweeping
	Resistant to temperatures (to 180°F)	Wet and dry applications	compounds
	Ends can be flagged		

FLOOR BRUSH SELECTION GUIDE

Surface Type	Debris	Recommended Brush
Tile, linoleum, highly polished	Fine dust	Black horsehair
Smooth wood	Fine to medium dirt	Flagged silver polystyrene
Smooth concrete	Fine to medium dirt	Black polypropylene
Uneven or rough floors, heavy traffic areas	Medium to heavy dirt and debris	Black tampico
Rough concrete, asphalt	Heavy, caked dirt, grease, litter	Black tampico - inner row of steel wire or palmyra

FLOOR BRUSH FEATURES

Block: Fill material is set into this part of the sweep.



FLOOR BRUSH CARE

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 embedded material, as this will damage the end of the

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 fiber brushes in water to help prevent breakage due to dry fiber.

PRO-FLEX™ SWEEPS - 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!



Flexible connection makes these sweeps the strongest on the market!



The Pro-Flex Sweep's indestructible design will make it the last sweep you will ever buy!

P

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
	Convenient scraper attaches handle	to sweep head for dis	play and shipping purp	oses
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

CONTRACTOR BROOMS - Hardwood Block - Heavy-duty 12-gauge steel brace included with all brooms. Ideal for construction sites and other heavy use environments.

Block Size	Fill Material	Trim Length	Standard Pack	Item Number
Fine Sweeping - For fi		ine dust and dirt on sm	ooth surfaces	
24" Flagged Silver Polystyrene		3"	1	44553
Medium Sweeping - For general purpose sweeping on semi-smooth surfaces				S
24" Flagged Grey Polystyrene Border		3"	1	44581
	Coarse Sweeping - For hea	nvy dirt and debris on v	ery rough surfaces	
24"	Palmyra	4"	1	44584
24"	Medium Maroon Polypropylene	3-1/4"	1	44587
24" Stiff Blue Polypropylene		3-1/4"	1	44590

NOTE

- For Contractor Brooms, use Handle No. 44635 (1-1/8" x 60").
- Handle not included in price order handle separately.
- Bolt to assemble broom is included with the broom, not with the handle.

P

PERMA-SWEEP™ - Synthetic Foam Block - Made of durable materials designed to resist acid and bacteria.

Fill Material	Trim Length	Standard Pack	Item Number
Fine Sweeping - For f	fine dust and dirt on sm	ooth surfaces	
Flagged Green Polystyrene	3"	1	42163
			42164
Medium Sweeping - For genera	al purpose sweeping o	n semi-smooth surfaces	1
Yellow Polypropylene	3"	1	42165
			42166
Coarse Sweeping - For hea	avy dirt and debris on v	ery rough surfaces	
Maroon Polypropylene	3"	1	42167
			42168
	Fine Sweeping - For the Flagged Green Polystyrene Medium Sweeping - For general Yellow Polypropylene Coarse Sweeping - For head	Fine Sweeping - For fine dust and dirt on sm Flagged Green Polystyrene 3" Medium Sweeping - For general purpose sweeping of Yellow Polypropylene 3" Coarse Sweeping - For heavy dirt and debris on was a small state of the same of the	Fine Sweeping - For fine dust and dirt on smooth surfaces Flagged Green Polystyrene 3" 1 Medium Sweeping - For general purpose sweeping on semi-smooth surfaces Yellow Polypropylene 3" 1 Coarse Sweeping - For heavy dirt and debris on very rough surfaces

NOTE

- 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.

P Performance line Industrial Grade

42165

COATED ABRASIVES

-WOVEN ABRASIVES

WER BRUSHES

YLOX BRUSHES

PAGKAGEDITEMS



Sweeping saw dust on a smooth surface.

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.





- Handle No. 44300 (15/16" x 60") recommended for use with all Floor Brushes.
- Handle not included in price order handle separately.

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	Item Number
18"	Black Horsehair	3"	1	42001
24"				42002
18"	Black Horsehair	3"	1	42013
24"	and Black Polypropylene Blend			42014
10"	Flagged Silver Polystyrene	3"	12	70312
18"			1	42041
24"			1	42042
36"			1	42098 *



VORTEC PRO® FINE SWEEPS - Lacquered Hardwood Block

Reliable and efficient sweeps at a value price.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number
18"	Flagged Grey Polystyrene	3"	12	77013
24"				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
14"	Black Tampico	3"	1	42114
16"				42006
18"				42007
24"				42008
36"				42047 *
18"	Horsehair Border	3"	1	42016
24"	with Black Tampico Center			42017
36"				42049 *
18"	Black Polypropylene	3"	1	42035
24"				42037
36"				42095 *

* 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	ltem Number
18"	Dark Grey Polystyrene Border	3"	1	25234
24"	with Black Polypropylene Center			25235
18"	Black Tampico	3"	1	25231
24"				25232





COARSE SWEEPS - Lacquered Hardwood Block

For heavy dirt and debris on rough surfaces: Wood, Concrete, Asphalt and Brick.

Block	Fill	Trim	Standard	Item
Size	Material	Length	Pack	Number
18"	Black Tampico with 1 row	3"	1	42134
24"	Tempered Steel Wire in Center			42135

GARAGE BRUSHES - Lacquered Hardwood BlockFor wet or dry sweeping heavy, caked dirt and debris on rough surfaces: Concrete, Garage/Factory Floors, Rough Wood, Sidewalks, Barns and Brick Surfaces. Solvent, oil, chemical and liquid resistant.

Block Size	Fill Material	Trim Length	Standard Pack	Item Number
16"	Palmyra	4"	1	42021
18"				42022
24"				42023
36"				42138 *
18"	Maroon Polypropylene	3-1/4"	1	42025
24"				42026
36"				42149 *





Sweeping metal shavings from a shop floor.



VORTEC PRO® GARAGE BRUSHES - Lacquered Hardwood Block

Reliable and efficient brushes at a value price.

Block	Fill	Trim	Standard	Item
Size	Material	Length	Pack	Number
18"	Palmyra	4"	1	25241
24"				25242
18"	Maroon Polypropylene	3-1/4"	1	25238
24"				25239



NOTE



- Handle No. 44435 (1-1/8" x 60") recommended for use with all Garage Brushes.
- · Handle not included in price order handle separately.



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	Fill	Trim	Standard	Item
Size	Material	Length	Pack	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
16"		7-1/4"		42099
16"	Brown Polypropylene	5-1/4"	6	42033
18"				42173
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
				•









WIRE BROOMS - Hardwood Block

For sweeping or scrubbing concrete or stone floors, driveways, etc. Ideal for sweeping heavy chips and debris.

Block Size	Fill Material	Trim Length	Standard Pack	ltem Number
14"	Flat Wire	5"	1	42030
16"	Round Wire	3-3/4"	6	70215

NOTE

- Street and wire brooms require a tapered tip handle.
- Handle No. 44020 (1-1/8" x 60") recommended for use with all Street & Wire Brooms.
- Handle not included in price order handle separately.



The Perma-Flex tip is guaranteed not to break when used with a Perma-Sweep.





















HANDLES, BRACES & TIPS

P

WOOD HANDLES - Quality hardwood

Length	Diameter	Tip	Description	Std. Pack	Item No.
48"	7/8"	Threaded	Use with floor and garage brushes.	12	75527
48"	15/16"	Wood			44571
60"	15/16"				44018
60"	1-1/8"				44019
72"	15/16"				44303
11"	3/4"	Tapered	Use with masonry and roof brushes,	36	75528 •
48"	7/8"	Wood	street brooms, floor and deck scrubs	12	44574
54"	1-1/8"		and squeegees.	12	44573
60"	1-1/8"			12	44020
72"	1-1/8"			12	44306
48"	15/16"	Threaded	Heavy-duty metal tip provides	12	75525
60"	15/16"	Metal	additional strength.		44300
60"	1-1/8"				44435
72"	15/16"				44302
60"	15/16"	Perma-Flex™	Durable threaded plastic tip guaranteed not to break when used with Perma-Sweep™ Floor Brushes.	12	44301
60"	1-1/8"	_	Use with Contractor Brooms.	12	44635

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.



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	Black plastic coat with plastic hang cap.	12	44577
60"	15/16"	Threaded Metal	Black plastic coat with black foam cover and	12	44578



VORTEC PRO® METAL HANDLES - Reliable and efficient handles at a value price.

Length Diameter Tip		Tip	Description	Std. Pack	Item No.
60"	15/16"	Threaded Plastic	Black plastic coat with convenient hang-up cap.	12	75555



METAL TELESCOPING HANDLES

Use telescoping handles to shorten or extend the reach of the handle.

Length	Diameter	Type	Use	Std. Pack	Item No.
6' extends to 12'		Telescoping	Window, wall and Vehicle wash brushes	6	44499



FIBERGLASS HANDLES - Fiberglass handles are stronger than wood or metal. Virtually indestructible.

Length	Diameter	Tip	Description	Std. Pack	Item No.
56-3/4"	1"	Tapered/Threaded	Hollow handle	12	44561*
54"	1"	Threaded	Honeycomb core	12	44562
60"	1"	Threaded	All white	12	44563+

^{*} For use with both tapered and threaded holes



Fiberglass with polyethylene reinforced honeycomb core



Fiberglass hollow handle.

P

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

holes + Approved for the food service industry

UPRIGHT AND 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.

P UPRIGHT BROOMS - Ideal for sweeping floors, reaching into corners, cleaning ceilings, etc.

Description	Fill Material	Trim Length	Overall Length	Standard Pack	Item Number			
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			



Sweeping plastic and metal chips in a tool room



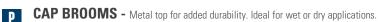
ANGLE BROOM - Angled trim allows access to corners, under low cabinets and other hard-to-reach areas.

Description	Fill Material	Trim Length	Overall Length	Standard Pack	Item Number
Large Plastic 12" sweep face	Flagged Plastic	7-1/2"-6"	54"	12	44305



$\begin{tabular}{ll} \textbf{VORTEC PR0}^* & \textbf{ANGLE BR00M} & \textbf{-} & \textbf{Reliable and efficient broom at a value price.} \end{tabular}$

Description	Fill Material	Trim Length	Overall Length	Standard Pack	Item Number
Small Plastic 8" sweep face	Flagged Plastic	3-7/8"-4-1/2"	54"	12	75160



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



VORTEC PRO LOBBY BROOMS - Reliable and efficient brooms at a value price.

Description	Fill Material	Trim Length	Overall Length	Standard Pack	Item Number
Toy/Lobby - 3 sews, 7/8" handle	Corn & Fiber	11"	40"	12	70300



WHISK BROOMS - For fast, efficient clean-up.

Use	No. of Sews	Fill Material	Trim Length	Overall Length	Std. Pack	Item No.
General purpose - all applications	3	Corn & Fiber	10"	12-1/2"	12	44266
Sweeping coarse & heavy material	2	Palmetto	7"	9-1/4"	12	44099
Coarse sweeping of hot chips	-	Bassine	5-1/4"	10-1/4"	12	44103









Cleaning up oil absorbent from a shop floor.



42213

71078

P COUNTER DUSTERS - For clean up in hard-to-reach areas.

DUSTERS, DUST PANS & SQUEEGEES

Fill Material	Trim Length	Brush Length	Overall Length	Block Type	Std. Pack	Item No.	
'		Hor	sehair				
Horsehair	2-1/4"	8"	13-1/4"	Wood	12	44003	
	2-1/4"	9"	14-1/4"			44351	
Black Horsehair and Fiber Mix	2-1/2"	8"	13-1/2"	Wood	12	71019	
		Syn	thetic				
Flagged Silver Polystyrene	2-1/2"	8"	13-1/4"	Wood	12	44354	
Black Polystyrene	2-1/2"	8"	13-1/4"	Wood	12	25252	
Orange Polystyrene	2"	9"	14"	Foam	12	42213	
Natural Fiber							
Black Tampico	2-1/2"	8"	13-1/4"	Wood	12	25251	
Tri-colored Tampico	2-1/2"	8"	13-1/2"	Wood	12	44004	

PUST PANS - Durable, industrial grade - For quick clean-ups.



[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

VORTEC PRO® DUST PAN - Reliable and efficient pans at a value price.

Description	Height	Width	Depth	Std. Pack	Item No.
Molded plastic	_	12-1/4"	12"	12	71077

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FLOOR SQUEEGEES - Heavy-duty construction, iron handle socket.

Description	Length	Туре	Standard Pack	Item Number
Black rubber blade for rough, heavy use	18"	Straight	6	45506
	24"			45507
	30"			45534
	36"			75202
Black rubber blade for rough, heavy use	24"	Curved	6	45510
	30"			45535
	36"			45511



WINDOW SQUEEGEES - Rust-proof handle socket and frame.

Description	Length	Standard Pack	Item Number
One piece frame with hard rubber section	6"	12	45537
joined with a soft, red rubber blade.	12"		45500
	14"		45538 •



NOTE

- All squeegees require a tapered tip handle.
- Handle No. 44020 (1-1/8" x 60") recommended for use with all Squeegees.
- Handle not included in price order handle separately.

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

VEHICLE CARE PRODUCTS

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.

P VEHICLE WASH BRUSHES - Protective bumper - Foam block with two handle holes.

Block Size	Fill Material	Trim Length	Standard Pack	ltem 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
9-1/2" x 2-3/4"	Flagged Orange Polystyrene	2-1/2"	12	42210

^{*} May scratch smooth or high gloss surfaces, use polystyrene filled products for these surfaces.



Washing a car with a vehicle wash brush and fountain tube handle.



SCHOOL BUS BRUSH - Easily sweeps between school bus seats. Lacquered hardwood block with one threaded handle hole. Use handle #44571.

Block	Fill	Trim	Standard	ltem
Size	Material	Length	Pack	Number
10" x 2-1/2"	Flagged Silver-grey Polystyrene	3"	12	70312



P UPHOLSTERY/SPOTTING BRUSH - Shaped plastic handle

Wet & dry cleaning, prespotting, carpet touch-up, etc.

5, 5 - 7, 5 - 5, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,						
Block Size	Fill Material	Trim Length	Overall Length	No. of Rows	Std. Pack	Item Number
8-1/2" x 2-9/16"	.016 Crimped	5/8"	8-1/2"	8 x 9	12	44307



SPOKE BRUSH - Ideal for cleaning spokes or confined spaces.

Length of	Fill	Brush	Overall	Standard	Item
Brush Part	Material	Part	Length	Pack	Number
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	Overall Length	No. of Rows	Std. Pack	Item No.
8-1/2" x 2-9/16"	.008 Brass	5/8"	8-1/2"	8 x 9	12	99593
7" x 1-9/16"	.008 Brass	5/8"	7"	6 x 8	12	73156





Key:





Scrubbing a stainless steel sink.

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.







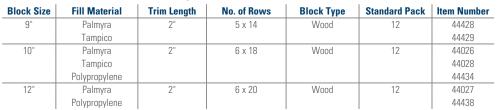
HAND SCRUB BRUSHES - Heavily filled for heavy-duty scrubbing.

Block Size	Fill Material	Trim Length	Block Type	Standard Pack	Item Number
6"	White Polypropylene	1-1/8"	Iron Style - Plastic	12	44395
7-1/4"	Palmyra	1"	Square - Wood	24	72034 •
8"	White Tampico	1-1/8"	Square - Wood	12	44024
	White Tampico	1"			72058 *
	Palmyra	1-1/8"			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

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.









BI-LEVEL SCRUB BRUSHES - The bi-level design allows the brush to stay in contact with the surface. Can be used with Perma-Flex handle #44301.

Block Size	Fill Material	Trim Length	Block Type	Standard Pack	Item 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





UTILITY SCRUB BRUSHES - For general scrubbing in factories, kitchens, institutions, etc.

Overall Length	Fill Material	Trim Length	Block Type	Standard Pack	Item Number
8"	Palmyra	2"	Wood	12	72086
	Yellow Polypropylene				44013
	White Tampico				44014
20"	Palmyra	2"	Wood	12	72101
	Yellow Polypropylene				44016
	White Tampico				44017





UTILITY SCRUB BRUSHES - Chemical and water resistant, will not warp or crack.

	Overall Length	Fill Material	Trim Length	Block Type	Standard Pack	Item Number
ď	8"	Palmyra	2"	Foam	12	79101
		Yellow Polypropylene				79120
		White Tampico				79100
	20"	Palmyra	2"	Foam	12	79107
		Yellow Polypropylene				79109
		White Tampico				44663



UTILITY SCRUB BRUSHES - Designed for high temperature cleaning, ideal for food service.

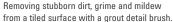
Overall Length	Fill Material	Trim Length	Block Type	Standard Pack	Item Number
8"	White Nylon	2"	Plastic	12	44416
20"	White Nylon	2"	Plastic	12	44418

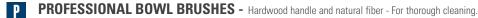
⁺ Tapered handle hole

Block Size	Fill Material	Trim Length	Standard Pack	Item Number
8-1/2"	Stiff Black Nylon	7/8"	24	73233

VAT BRUSH - For valves, outlets, small tanks, beverage dispensers & coffee urns. Can be used with the Perma-Flex handle #44301.

Fill	Block	Overall	Standard	ltem
Material	Type	Length	Pack	Number
White Nylon	White Nylon	8"	1	75570





Brush	Fill		Overall	Standard	Item
Part	Material	Diameter	Length	Pack	Number
6" x 5"	White Tampico	2"	20"	12	44001*
6-1/2"	Tampico	3-1/4"	23"	12	75060
* Ecom bondlo					'

VORTEC PRO® BOWL BRUSH SET - 2" Trim Length - Reliable and efficient brushes at a value price.

Brush Part	Fill Material	Handle	Overall Length	Standard Pack	ltem Number
3-1/2" x 3-3/4"	Polypropylene	Plastic	14-1/2"	6	75000

VORTEC PRO NAIL BRUSH - Great for use in shop or industrial settings.

Block Size	Fill Material	Trim Length	No. of Rows	Block Type	Standard Pack	Item Number
4-3/4" x 1-1/2"	Polypropylene	3/4"	4 x 15	Wood	36	44314

BOTTLE WASHING BRUSH - Brush shape enables access to hard-to-reach areas when cleaning.

Length of Brush Part	Fill Material	Handle	Overall Length	Standard Pack	ltem Number
6"	Rlack Horsehair	Wood	16"	12	99597

NYLON TUBE BRUSHES - Loop handle, Straight black nylon fill.

Diameter	Fill Diameter	Brush Part	Stem Diameter	Overall Length	Standard Pack	Item 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 Jahoratory and food service

dear for internal electring in industrial, laboratory and rood service.							
Diameter	Fill Diameter	Brush Part	Stem Diameter	Overall Length	Standard Pack	Item Number	
7/16"	.010	3-1/2"	5/32"	11-1/2"	10	44316	

VORTEC PRO® BOOT BRUSH - Reliable and efficient brush at a value price.

Size	Description	Item Number
9" x 6"	Boot Cleaning Brush - Metal Frame - Wood Block - Black Nylon Fill	44391

















44316

44391

Key:





Use the Combo Bucket with 12 to 32 oz. mop heads

MOPS & DUSTING BRUSHES

WET MOP HEADS - Durable, ideal for all-purpose cleaning. Can be laundered.

Weight	Material	Standard Pack	Item Number
	Cut End		
16 oz.	8-ply tight twist cotton	12	75102
20 oz.			75103
24 oz.			75104
32 oz.			75105

WET MOP HANDLES - Industrial Grade. Hardwood handle with plated metal heads.

Description	Size	Standard Pack	Item 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



ONE-PIECE COTTON DECK MOPS - Industrial grade. Mop head securely tied to handle.

Description	Weight	Standard Pack	Item Number
#16	16 oz.	12	75109
#24	24 oz.	12	75110



VORTEC PRO® 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.

Bucket Size	Wringer	Standard Pack	Item Number
36 qt.	12-32 oz.	1	36666



RADIATOR BRUSHES - 24" Overall Length. Ideal for cleaning radiators and narrow, hard-to-reach places.

Fill Material	Туре	Brush Part	Trim Length	Overall Length	Std. Pack	Item No.
Black Horsehair	Foam Handle	9-1/2"	2-1/2"	23-13/16"	12	73050
Black Horsehair	Twisted-in-wire handle	7-1/2"	2-1/2"	24-11/16"	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	Item
Material	Length	Length	Pack	Number
Horsehair	12" x 5"	2-3/4"	2	71076



Key:

Performance line Industrial Grade



MASONRY & 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.

BLOCK-TYPE ROOF BRUSHES - For application of roof coatings.

Can be used with tapered handle #44574 or threaded handle #75527.

Block Size	Fill Material	Trim Length	No. of Knots	Standard Pack	Item Number
7"	White Tampico One tapered handle hole	2"	5	12	44011
7"	White Tampico One threaded handle hole	2"	5	12	73195



masonry brush.

MASONRY BRUSHES -

Useful tools for applying cement, waterpaints and liquid waterproofing materials on masonry walls. Handle attached.

Block Size	Fill Material	Trim Length	Overall Length	No. of Rows	Standard Pack	Item Number
7"	White Tampico	3-1/4"	11"	2	12	44032
6"	Solvent Resistant Polypropylene	3-1/4"	11-1/2"	3	12	74020
4"	White Tampico	3"	10-3/4"	4	12	74004
6-1/2"	White Tampico	3-1/2"		4		44031
6"	White Tampico	3"	10-1/2"	5	12	74002
6-1/2"	White Tampico	4"	11-3/4"	5		44448



Block Size	Fill Material	Trim Length	No. of Rows	Standard Pack	Item 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.



Block	Fill	Trim	No. of	Standard	Item
Size	Material	Length	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 Size	Fill Material	Trim Length	Standard Pack	Item 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.

CEMENT FINISHING BRUSHES - Hardwood block - Ideal for creating texture to newly poured cement and for applying coatings on asphalt or concrete. Use handle #44303.

Block Length	Fill Material	Trim Lenath	No. of Knots	Standard Pack	Item Number
24"	Black Polypropylene	3-1/4"	3	6	79252
36"	Black Polypropylene	3-1/4"	3	6	79253

DRIVEWAY COATERS - For applying blacktop driveway and parking lot dressings; asphalt, sealers or roof coatings.

Block	Fill	Trim	Standard	Item
Size	Material	Length	Pack	Number
10"	Black Tampico	2-5/8"	12	73180





- Handle No. 75527 (7/8" x 48") recommended for Driveway Coaters.
- · Handle not included in price order handle separately.

















Removing excess concrete from the surface of a steel support plate.











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	Item Number
		.012 Ste	el Wire		
13-3/4" x 1-1/8"	5-1/4"	3 x 14	1-1/4"	12	44594*
14" x 7/8"	5-1/2"	3 x 19	1-3/16"	12	44053 V
14" x 1-1/8"	6"	4 x 18	1-3/16"	12	44056
		.012 Steel Wir	e with 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 Stainles	s Steel Wire		
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 V
14" x 1-1/8"	6"	4 x 18	1-3/16"	12	44057
V Granua	D W n	ienlav Parked & Vending R	oody product available, add	P or V to the end of item n	umbar whan placing

P V Display Packed & Vending Ready product available, add P or V to the end of item number when placing order

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	ltem Number
		.012 Stee	el 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	Steel 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 block - Ideal for cleaning and prepping surfaces.

Block Size	Brush Length	Number of Rows	Trim Length	Standard Pack	ltem Number
		.012 Ste	el 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 V
11"	5"	4 x 16	1-3/16"	12	73217 •
		.012 Steel Wir	e with Scraper		
10" x 1-1/8"	5"	4 x 16	1-3/16"	12	44065
		.012 Stainles	s 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 V
11"	5"	4 x 16	1-3/16"	12	44299 •
		.012 Bra	ss Wire		
11"	5"	4 x 16	1-1/4"	12	73218 •

• Plastic block Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

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 Ste	el Wire		
10" x 1"	5"	4 x 16	1"	12	25100
		.012 Stainles	s Steel Wire		
10" x 1"	5"	4 x 16	1"	12	25104

HEAVY-DUTY SCRATCH BRUSH WITH SCRAPER - .012 Steel Wire

Ideal for cleaning and prepping surfaces.

Block	Brush	Number of Rows	Trim	Standard	Item
Size	Length		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 of Rows	Trim Length	Standard Pack	Item Number
		Tam	pico		
13" x 1-1/4"	5-1/4"	4 x 18	1"	12	44076
		Ny	on		
13" x 1-1/8"	5-1/4"	4 x 18	1"	12	44077
		.006 Ste	el 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 Stainles	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 Bra	ss 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		Number	Wire	Trim	Standard	Item
Size	Block	of Rows	Size	Length	Pack	Number
			tainless Steel Wir			
7-1/2" x 1/2"	Plastic	3 x 7	.006	1/2"	36	44075 V
7-1/2" x 1/2"	Wood	3 x 7	.006	1/2"	36	44167 V
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
			Straight Brass Wire)		
7-1/2" x 1/2"	Wood	3 x 7	.006	1/2"	36	44189 V
		(rimped Brass Wire	9		
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
			Crimped Aluminum	1		
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
		S	traight Black Nylo	n		
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-	Sided Brass/Whit	e Nylon		
7-1/2" x 1/2"	Plastic	3 x 7	.006/.016	1/2"	24	44731
		Double-S	ided Brass/Stainle	ess Steel		
7-1/2" x 1/2"	Plastic	3 x 7	.006/.006	1/2"	24	44732
		Double-Side	d Stainless Steel/	White Nylon		
7-1/2" x 1/2"	Plastic	3 x 7	.006/.016	1/2"	24	44733

^{*}Wire drawn

▶ ☑ Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.



44075

Key:









VORTEC PRO® SMALL HAND SCRATCH BRUSHES - Reliable and efficient brushes at a value price.

Block		Number	Trim	Standard	Item
Size	Handle	of Rows	Length	Pack	Number
		.006 Stainles	s Steel Wire		
7-1/2" x 1/2"	Wood	3 x 7	1/2"	36	44805
7-1/2" x 1/2"	Plastic	3 x 7	1/2"	36	44806
		.006 Straight	Brass Wire		
7-1/2" x 1/2"	Wood	3 x 7	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	Number 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





WIRE DUSTER - For cleaning chips, borings, solder, rust, dirt & corrosion from castings.

Block Size	Fill Material	Handle Length	Number of Rows	Trim Length	Standard Pack	Item Number	
3" x 1-1/8"	.012 Steel	5-3/4"	4 x 8	2-1/2"	12	44451	





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	ltem
Length	Material	Part	Length	Pack	Number
8-1/4"	012 Steel	1-5/8" x 4"	1/4"	12	





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

Provides increased conformability and long life when:

- Pipe cleaning
- Flue cleaning
- Boiler tube cleaning



Cleaning boiler pipes with a flue brush.

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	Brush	Overall	Standard	ltem
Diameter	Length	Length	Pack	Number
		Single Spiral		
7/8"	4-1/2"	7-1/2"	1	44124 •
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





44154



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	Item Number
36" Fiberglass Extension Rod	1	95925



NOTE

"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".

Kev:





[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.



Cleaning the inside of a copper fitting prior to soldering.

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.



Pipe Size	Actual Brush Diameter	Brush Length	Overall Length	Handle Length	Standard Pack	Item 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 V
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

Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.





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 Inside Diameter	Tube Outside Diameter	Standard Pack	Item Number
3/4" and 1/2"	7/8" and 5/8"	1	44690



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
- Tube brush cleans inside diameter
- Ideal for plumbing and HVAC projects





SELECTING THE RIGHT BRUSH

P PERFORMANCE LINE (INDUSTRIAL GRADE)

Engineered and manufactured to maximize performance and minimize operating costs. 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.

V VALUE LINE (PROFESSIONAL GRADE)

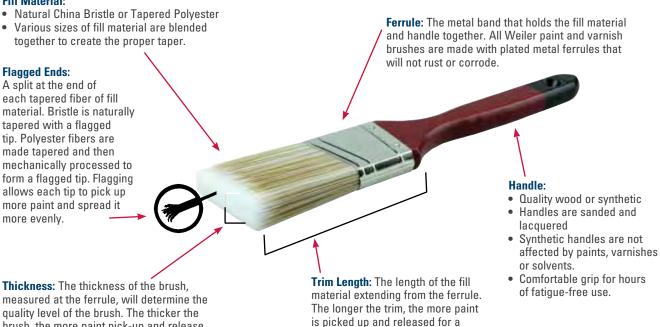
Weiler's value line is manufactured using similar product construction and the same exacting standards as other Weiler paint & varnish products, but engineered to provide cost-effective use specifically designed for the professional, providing a cost-effective price. Vortec Pro® paint & varnish products are an economical choice for the construction trades, low volume production shops and light-duty industrial MRO use.

SELECTION GUIDE

Brush Fill	Recommended For	Benefits
China Bristle	All oil based and alkyd paints, stains,	Softest tip for fewest brush marks
	varnish urethane & shellac	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 BRUSH FEATURES

Fill Material:



quicker, easier job.

PAINT BRUSH CARE

brush, the more paint pick-up and release.

Brushes Used In	Clean With
Oil base paint	 Turpentine or mineral spirits
Latex paint	 Warm soapy water
 Water base paint 	 Warm soapy water
 Varnish 	 Turpentine or mineral spirits
Shellac	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 Experience Team.

Applying paint to clap board siding.











PROFESSIONAL PAINT & PARTS CLEANING BRUSHES

These high quality brushes are available in a wide variety of sizes and materials to fill all applications. The Professional 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. Parts cleaning brushes are ideal for applications such as cleaning carburetors, transmission components, applying adhesives and lubricants.

VARNISH BRUSHES - Comfortable foam grip handle; smooth paint flow.

Width	Thickness	Bristle Length	Overall Length	Standard Pack	Item Number
		Black China Bristle	- Blue Foam Handle		
1"	7/16"	2"	8-1/2"	12	40000
1-1/2"	1/2"	2-1/4"	8-7/8"	12	40001
2"	9/16"	3"	9-3/4"	12	40002
3"	11/16"	3"	10-1/8"	12	40004
4"	11/16"	3"	10-9/16"	12	40010
		Polystyrene/Nylon	- Red Foam Handle		
1"	7/16"	2-1/4"	8-13/16"	12	40058
2"	3/4"	2-3/4"	9-15/16"	12	40059
3"	7/8"	3"	10-1/8"	12	40060
4"	7/8"	3"	11"	6	40106

ANGLED SASH BRUSHES - For trim or cut work like window sills, door frames, etc.

Width	Thickness	Bristle Length	Overall Length	Standard Pack	Item Number	
Black China Bristle - Blue Foam Handle						
1-1/2"	7/16"	2-1/4"	10-7/8"	12	40041	
2"	1/2"	2-1/4"	10-3/4"	12	40008	
	Polystyrene/Nylon - Red Foam Handle					
2"	1/2"	2-1/2"	11-1/8"	12	40040	

OVAL SASH BRUSHES - Ideal for cleaning parts, crevices and painting hard-to-reach areas.

Size	Thickness	Bristle Length	Overall Length	Standard Pack	Item Number	
Black China Bristle - Plain Foam Handle - Chisel Trim						
#2	7/16"	1-3/4"	8-7/8"	24	40116	
#6	13/16"	1-3/4"	9-5/16"	12	40056	
#8	15/16"	3"	11-1/8"	12	40020	
#10	1-1/16"	3"	11-3/16"	12	40021	

ROUND SASH BRUSHES - Ideal for cleaning parts, crevices and painting hard-to-reach areas.

Size	Thickness	Bristle Length	Overall Length	Standard Pack	Item Number	
Grey Bristle - Plain Foam Handle - Flat Trim						
#2	7/16"	1-3/4"	8-3/4"	24	40118	
#4	11/16"	2"	8-13/16"	12	40119	
#6	13/16"	2"	10-1/16"	12	40120 •	
#8	15/16"	2-1/4"	10-9/16"	12	40121	

PARTS CLEANING BRUSHES - Stainless steel ferrule - Heavily filled.

Thickness	Fill Material	Bristle Length	Overall Length	Standard Pack	Item Number	
Plain Foam Handle - Chisel Trim						
1"	Polypropylene	2-1/2"	10-11/16"	12	40035	
1"	Tampico	2-3/4"	11-1/8"	12	40036	

VORTEC PRO® PARTS CLEANING BRUSHES - Reliable and efficient brushes at a value price.

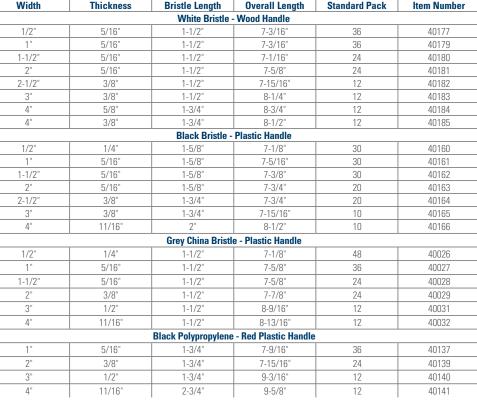
Thickness	Fill Material	Bristle Length	Overall Length	Standard Pack	Item Number	
Plain Foam Handle - Chisel Trim						
15/16"	Nylon	2-1/2"	11-3/16"	12	25221	
1"	Tampico	2-3/4"	11-3/8"	12	25222	

[•] Non-stock product, contact Customer Service for lead times and minimum order quantities.

CHIP AND OIL & INDUSTRIAL PAINT BRUSHES

VORTEC PRO® CHIP AND OIL BRUSHES - Reliable and efficient brushes at a value price.

Width	Thickness	Bristle Length	Overall Length	Standard Pack	Item Number
		White Bristle	- Wood Handle		
1/2"	5/16"	1-1/2"	7-3/16"	36	40177
1"	5/16"	1-1/2"	7-3/16"	36	40179
1-1/2"	5/16"	1-1/2"	7-1/16"	24	40180
2"	5/16"	1-1/2"	7-5/8"	24	40181
2-1/2"	3/8"	1-1/2"	7-15/16"	12	40182
3"	3/8"	1-1/2"	8-1/4"	12	40183
4"	5/8"	1-3/4"	8-3/4"	12	40184
4"	3/8"	1-3/4"	8-1/2"	12	40185
		Black Bristle -	Plastic Handle		
1/2"	1/4"	1-5/8"	7-1/8"	30	40160
1"	5/16"	1-5/8"	7-5/16"	30	40161
1-1/2"	5/16"	1-5/8"	7-3/8"	30	40162
2"	5/16"	1-5/8"	7-3/4"	20	40163
2-1/2"	3/8"	1-3/4"	7-3/4"	20	40164
3"	3/8"	1-3/4"	7-15/16"	10	40165
4"	11/16"	2"	8-1/2"	10	40166
		Grey China Bristl	e - Plastic Handle		
1/2"	1/4"	1-1/2"	7-1/8"	48	40026
1"	5/16"	1-1/2"	7-5/8"	36	40027
1-1/2"	5/16"	1-1/2"	7-5/8"	24	40028
2"	3/8"	1-1/2"	7-7/8"	24	40029
3"	1/2"	1-1/2"	8-9/16"	12	40031
4"	11/16"	1-1/2"	8-13/16"	12	40032
	1	Black Polypropylene	- Red Plastic Handle		
1"	5/16"	1-3/4"	7-9/16"	36	40137
2"	3/8"	1-3/4"	7-15/16"	24	40139
3"	1/2"	1-3/4"	9-3/16"	12	40140
4"	11/16"	2-3/4"	9-5/8"	12	40141





Width	Thickness	Bristle Length	Overall Length	Standard Pack	ltem Number					
Black Bristle - Black Plastic Handle										
1"	3/8"	1-3/4"	7-3/4"	36	40089					
2"	7/16"	1-3/4"	8"	12	40074					
3"	1/2"	2"	8-13/16"	12	40103					
4"	5/8"	2-3/4"	9-7/8"	12	40104					
		Black Polyester -	Red Plastic Handle							
1"	3/8"	2"	8"	36	40107					
2"	7/16"	2"	8-1/2"	12	40109					
3"	1/2"	2"	9-1/4"	12	40110					
4"	11/16"	2-3/4"	9-7/8"	12	40111					

BENT RADIATOR BRUSH - Ideal for painting radiators and other hard-to-reach areas.

Width	Thickness	Bristle Length	Overall Length	Standard Pack	Item Number		
Black Bristle - Wood Handle							
2"	9/16"	2-1/4"	19-1/2"	12	95502		

VORTEC PRO® FOAM APPLICATOR BRUSHES - Reliable and efficient brushes at a value price. Not recommended for use with lacquer, shellac or solvents.

Width	Thickness	Foam Length	Overall Length	Standard Pack	Item Number					
	Wood Handle									
1"	5/8"	2-5/8"	6-3/8"	50	99801					
2"	5/8"	2-5/8"	6-1/2"	50	99805					
3"	7/16"	2-5/8"	6-1/2"	40	99806					



Removing chips from the ways of a lathe.























Applying flux to a copper tube prior to



RED SABLE WATERCOLOR BRUSHES - Seamless ferrule. Pointed tip - Round black handle

Size	Diameter	Trim Length	Overall Length	Standard Pack	Item Number
3/0	3/64"	1/4"	7"	12	41000
0	1/16"	5/16"	7-1/4"	12	41001
2	3/32"	7/16"	7-3/8"	12	41002
4	1/8"	5/8"	7-5/8"	12	41003



MARKING, GLUE & ACID BRUSHES

Size	Diameter	Trim Length	Overall Length	Standard Pack	Item Number
1	1/8"	3/4"	11-7/8"	12	41004
2	5/32"	15/16"	12"	12	41005
4	7/32"	1-1/8"	12-1/2"	12	41007
5	1/4"	1-1/4"	12-1/2"	12	41008
6	9/32"	1-3/8"	12-3/4"	12	41009

FLAT MARKING BRUSHES - Ox hair - Single stroke - Round black handle

Width	Trim Length	Overall Length	Standard Pack	Item Number
1/4"	7/8"	7-7/8"	12	41018
1/2"	1"	8-3/4"	12	41019
3/4"	1-1/4"	8-3/4"	12	41020
1"	1-3/8"	9-3/8"	12	41021

FITCH BRUSHES - Black china bristle - Chiseled edge - Clear lacquered handle

Width	Trim Length	Overall Length	Standard Pack	Item Number
1/2"	1-1/16"	12-3/8"	12	41023
3/4"	1-5/16"	12-7/8"	12	41024

LACQUERING BRUSHES - Seamless aluminum ferrule - Camel hair - Round black handle

Size	Diameter	Trim Length	Overall Length	Standard Pack	Item Number
1	5/32"	11/16"	7-1/2"	12	41010
3	7/32"	13/16"	8"	12	41011
5	1/4"	1-1/8"	8-3/4"	12	41012 •
6	5/16"	1-3/16"	9_7/9"	12	/11N13 ·

BRIDLED GLUE BRUSHES - Grey china bristle - Steel ferrule - Long foam handle

Diameter	Trim Length	Overall Length	Standard Pack	Item Number
7/16"	1-7/16"	8-1/4"	36	40077
12/16"	1_3///"	0_3/8"	2/	40078

ACID/FLUX BRUSHES - Horsehair - Tin ferrule

Width	Trim Length	Overall Length	Standard Pack	Item Number
5/16"	3/4"	5-3/4"	144	44088 V
3/8"	3/4"	5-3/4"	144	44089 V
1/2"	3/4"	5-3/4"	144	44090 V

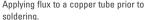
P V Display Packed & Vending Ready product available, add P or V to the end of item number when placing order.

STENCIL BRUSHES - China bristle - Seamless steel ferrule - Lacquered wood handle

Diameter	Bristle Length	Overall Length	Standard Pack	Item Number
1"	1-3/8"	5-1/2"	12	40080
2"	1-3/4"	6-3/8"	12	40082

DOPE BRUSHES - With hanger for coating applications in drilling operations.

Brush Part	Fill Material	Diameter	Overall Length	Standard Pack	Item Number
4"	Mixed	2"	16"	24	44261
	Tampico	3"		6	44263





















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.

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)			



Applying primer to new drywall.

INDUSTRIAL GRADE ROLLERS - Poly blend with PVC core.

Size	Nap	Painting Surface	Standard Pack	Item Number
3"	3/8"	Semi-smooth	24	49046
4"	3/8"	Semi-smooth	12	49044
	3/4"	Rough		49045
9"	3/16"	Smooth	12	49061
	1/2"	Semi-smooth		49062
	3/4"	Rough		49063



49045

VORTEC PRO® ROLLERS - Poly blend with PVC core. Reliable and efficient rollers at a value price.

Size	Nap	Painting Surface	Standard Pack	Item Number
9"	3/8"	Semi-smooth	12	49070
	1/2"	Semi-smooth		49071



49070

SPECIALTY ROLLERS - Can be used with all paints. Ideal for trim and touch-up.

Description	Overall Length	Std. Pack	Item No.
3" Roller with 3/8" nap. Wire frame with two tin end caps. Bent wire handle.	6-1/8"	12	49015
4" Micro Perlon Roller Reach	16-3/8"	24	49025
4" Micro Perlon Twin Pack Cover	4-1/8"	24	49066



FRAMES - All metal with two plastic caps. Solid plastic handle with threaded grip. Can be used with threaded handle #44300.

Size	Description	Overall Length	Standard Pack	Item Number
3"	Standard-duty 1/4" dia. frame with 4 wire cage	11-3/8"	24	49019
4"	Standard-duty 1/4" dia. frame with 4 wire cage	11-3/4"	24	49018
9"	Heavy-duty 5/16" dia. frame with 5 wire cage	13-1/2"	12	49022



VORTEC PRO FRAME - Reliable and efficient frame at a value price.

Size	Description	Overall Length	Standard Pack	Item Number
9"	Standard-duty 1/4" dia. frame with 4 wire cage	12-3/4"	24	49020



PAINT TRAYS - A variety of trays available to meet users' specific needs.

Description	Paint Capacity	Standard Pack	Item Number
4" Plastic tray	1 Quart	24	49008
9" Galvanized steel tray; Rust resistant	2 Quart	24	49010
9" Paint tray liner	2 Quart	24	96702



Description	Paint Capacity	Standard Pack	Item Number
9" Economy plastic tray; Rust proof	2 Quart	20	49011

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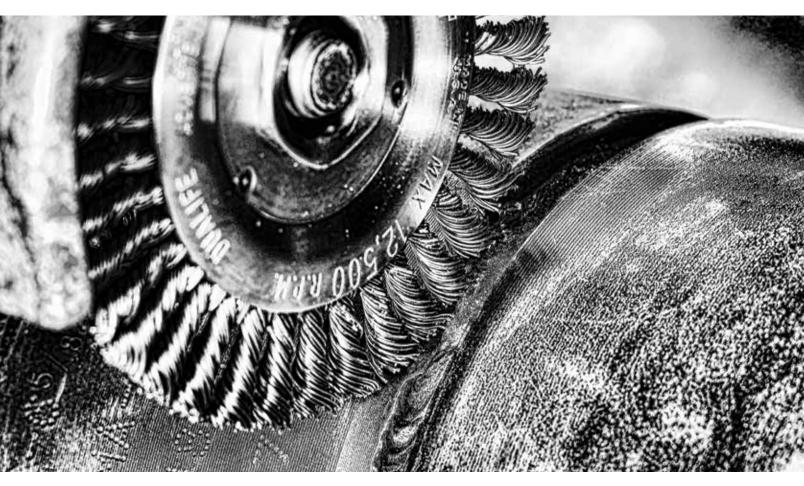
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4139	151	49011	157	50810	40	51163		51535	54	5h4/4	/[]	57136	19
l4149 l4150	151	49015	15/	50823 50824	40 40	51164 51165		51551 51552	49,54	56425	20	57137 58000	19 15
4152	151	49018 49019	157	50825	40	51166		51562	54	56425 56426 56427	20	58001	15
4154	151	49020	157	50843	40	51167	40	51562 51569	54	56428	20	58002 58003	15
4156	151	49022		50844	40	51168		h1h/h	h/l	56429	20	58003	15
4159 4167	1/10	49025	15/	50845	40	51169 51170		515/8	54 53	56430 56449 56454	20	58005 58006	14 1/1
4169		49044 49045	157	50902 50903	43	51175		51763	53	56454	19	58011	16
4189 4213	149	49046	157	50904	43	51176	39	51764	53	56455	19	58012	16
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4240	149	49066	157	50914	43	51181	39	51768	53	56467	19	E0021	15
14251	149	49070	157	50915	43	51184	40	51769 52003	53	56468	19	58022 58023 58028 58029 58030	15
14260	150	49071	157	50916	43	51185		52003	50	56469	19	58023	15
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4266	141	50004	42	50925	43	51201	38	52009	50	56474	15	58030	15
4290	140	50006	42	50932	43	51202	38	52010	50	56475	15	20031	1ວ
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14300	140	50008 50009	42 42	50934 50935	43 43	51204 51205		52016	50 50	56484	21 43	58033 58051	
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58056 58064	20	59300 59305	49	60391 60401	48	68334 68335	31	70312 70324	143	83516 83717	129	86156 86159	122
58066	21	59315	49	60403	45	68336	31	70325	141	83718	129	86165	130
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58073 58074	18	59493	46	60423	45	68342 68343	30	71081 72034	142	84941 85150	129	86204 89023	124
58075	18	59494 59495	46	60509		68344	30	72058	144	85733	121.126	89024	133
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58081	19	59503	46	60555	48	68347	30	73050	146	9575N	121 126	94000	68
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58083	19	59507	46	60571	48	68350	22,26	73111	147	85773	.121,126	94012 94026	69
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58103	15	59575	46	60646	48	68361	22,26	74048	147	85818	125	95301	94
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58123	18	59702	45	60676 60738	48	68377 68378	19	75132	146	85908	125	99593 99594	143
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58319 58320	20 20	60137 60150	48 48	68312 68313	23,28 23,28	69868 69871		83040 83050	129 129	86126 86127	128 128		
58321	20	60152	48	68314	23,28	69880	45	83100	129	86128	128		
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58325 58326	18	60171 60172	48 48	68320	23,29 23,29	69888 69890	45 45	83140 83150	129	86133	128 128		
58327	18	60175	48	68321	23,29	69890 69894	45	83180 83190	131	86134 86135 86136	128		
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58333	18	60351 60354	48	68324 68326 68327 68328 68330	23,29	70211 70212	139	83405 83430	129	86142 86143	124		
58334 58335	18	60355	48	68330	23,29	70215	139	83440	131	86151	122		
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