Grinding Wheels

Applications
- Weld removal
- Cutting and parting
- Rough grinding
- Snagging

All Weiler wheels are resin bond formulated for fast, high quality grinding and cutting, and are reinforced with fiberglass webbing to provide stability.

Grain Selection Guide	
A24N	**Fast Cut** - ideal for use on hard welds and steel, stainless steel, and in low pressure, large contact grinding where the harder wheel grade (R) dulls or glazes.
A24R	**Long Life** - offers longer life than the softer wheel grade (N). Ideal for all general purpose grinding on structural steel, or in foundries or heavy fabrication applications.
Z24T	**High Performance Zirconium** - offers improved cut rate in high pressure applications. Ideal when grinding or cutting stainless steel, high carbon steel, cast iron and other metals.

Superior Construction Ensures Maximum Performance

Weiler's Type 27 Wheels contain no fillers and are made with 100% abrasive grain to maximize cut rate.

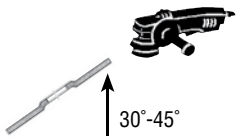
Weiler:
A side view of Weiler's Tiger Abrasives® Type 27 Grinding Wheel shows the even distribution of grain from the top to the bottom of the wheel. This provides a consistent rate of cut throughout the product life.

Competitor's:
A side view of competitor's Type 27 Grinding Wheel shows abrasive grain on the bottom portion of the wheel and filler grain on the top portion. The cut rate deteriorates dramatically when the filler portion of the wheel is reached.

Removing gates and risers from an iron casting.

Type 27 Cutting and Light Grinding Wheels

For root pass grinding, light grinding and cutting applications on various metals



Diameter x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
4" x 1/8" x 5/8"	15,200	A24T	56431
4-½" x 1/8" x 7/8"	13,300	A24T	56430
4-½" x 1/8" x 5/8"-11		A24T	56429
5" x 1/8" x 7/8"	12,200	A24T	56428
5" x 1/8" x 5/8"-11		A24T	56427
7" x 1/8" x 7/8"	8,500	A24T	56426
7" x 1/8" x 5/8"-11		A24T	56425
9" x 1/8" x 7/8"	6,600	A24T	56424
9" x 1/8" x 5/8"-11		A24T	56423

NOTE

Marking System

Grain Type	Grit Size	Grade (Hardness)
A	24	R

NOTE

For mounting wheels with 7/8" arbor holes on right angle grinders, use adapting nuts (Part No. 56494) as illustrated on page 406.

Cutting Wheels

Notching a piece of steel bar prior to welding.

Applications

- Cutting
- Parting
- Notching

Type 27 Thin Cutting Wheels

For fast, burr-free cutting of various metals

Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/ Grade	Part No.	Grain/Grit/ Grade	Part No.
4-½" x .045" x 7/8"	13,300	A60V	56393	Z46T	56389
5" x .045" x 7/8"	12,200	A60V	56392	Z46T	56388
7" x .060" x 7/8"	8,500	A36V	56391	Z36T	56387

Type 27 Cutting Wheels

For a wide range of metal-cutting applications

Dia. x Thickness x Arbor Hole	Maximum RPM	Grain/Grit/Grade	Part No.
4" x 3/32" x 5/8"	15,200	A24T	56474
4-½" x 3/32" x 7/8" 4-½" x 3/32" x 5/8"-11	13,300	A24T A24T	56475 56385
5" x 3/32" x 7/8" 5" x 3/32" x 5/8"-11	12,200	A24T A24T	56476 56384
7" x 3/32" x 7/8" 7" x 3/32" x 5/8"-11	8,500	A24T A24T	56383 56477
9" x 3/32" x 7/8" 9" x 3/32" x 5/8"-11	6,600	A24T A24T	56382 56381

Adapting Nuts

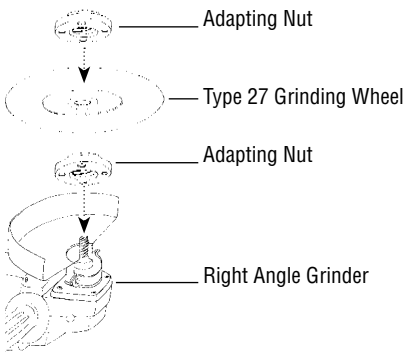
For mounting wheels with 7/8" arbor holes on right angle grinders. For 4-½" & 5" Angle Grinders. Use with Part No. 56103 & 56118

Thread Size	Min. Wheel Thick.	Part No.
5/8" - 11	1/16"	56494

TIP

The following factors can cause wheel breakage:

- Excessive speed
- Excessive rate of wheel feed
- Improper mounting
- Improper machine conditions
- Work improperly clamped
- Misuse

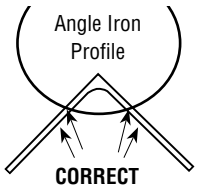


To mount wheels with 7/8" arbor holes on right angle grinders, use adapting nuts (Part No. 56494), as illustrated at left.

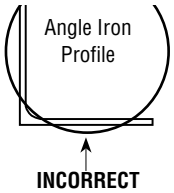
Cut-off Wheel Technical Information

General Operating Recommendations for Cut-Off Wheels

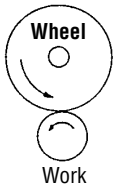
- Fixture work-piece to minimize wheel contact area for a faster, cooler cut.



CORRECT
(Two small contact points)

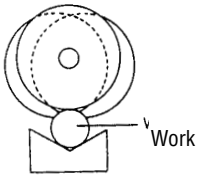


INCORRECT
(Wide contact point)

- 

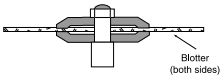
Counter rotation of the work-piece is recommended for cutting large cross sections (over 8") and when cutting tubular stock.

- Wheel

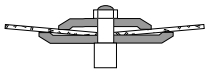


Use an oscillating head when cutting thicker cross sections (over 3"). This reduces arc of contact and permits larger sections to be cut with a given diameter wheel.

- Flanges should be of equal diameter, recessed and at at least one-third the diameter of the wheel.



CORRECT



INCORRECT

Operation Guide for Cut-Off Wheels	
RPM	To maximize performance, run at or close to the Maximum Safe Free Speed or RPM. NEVER EXCEED the MSFS or RPM.
Feed Rate	Only the operator can determine if the feed rate is proper for an efficient operation. A good starting point for dry cutting most materials is 2-3 seconds per square inch.

Application Solutions Guide For Cut-off Wheels

There are many variables in using Cut-Off Wheels. If the product you are using does not accomplish the desired results, select a solution from the suggestions below for your specific application.

Problem	Cause	Recommended Solutions
Slow cut rate	Insufficient power being used	Increase feed rate; run machine at full power
	Contact area too large	Reduce contact area
	Side run out	Check for spindle run out
	Wheel binding	Provide relief under part
Workpiece burn	Insufficient feed rate	Increase feed rate
	Wheel speed too slow	Check for wheel slippage
	Wheel too coarse	Use finer grit or increase power
Non-square cuts	Work not properly fixtured	Support both sides and fixture properly
	Worn spindle bearings	Check spindle
Too much burr	Improper fixturing	Check part fixturing
	Grit too coarse	Use a finer grit

Safety

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

Cut-Off Wheels

Cutting a piece of hex bar stock.

Applications

- Cutting various shapes of metals and masonry
- Parting
- Snagging

NOTE

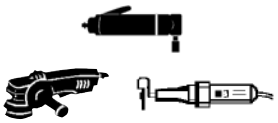
Marking System

Grain Type	Grit Size	Grade (Hardness)
A	24	T

TIP

For maximum wheel life, select the coarsest, hardest wheel that will perform the cut.

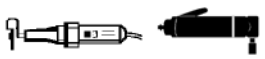
Small Type 1 Reinforced Wheels



For electric or air die grinders and angle grinders

Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
1-½" x .035" x 1/8"	45,000	A60T	56003
2" x .035" x ¼"	30,000	A60T	56013
2" x 1/16" x ¼"		A36T	56015
2" x 1/16" x ¼"		A46T	56016
2" x 1/16" x ¼"		A60T	56017
3" x .035" x ¼"	25,000	A60T	56061
3" x .035" x 3/8"		A60T	56062
3" x 1/16" x ¼"		A36T	56065
3" x 1/16" x ¼"		A46T	56066
3" x 1/16" x ¼"		A60T	56067
3" x 1/16" x 3/8"		A36T	56068
3" x 1/16" x 3/8"		A46T	56069
3" x 1/16" x 3/8"		A60T	56070
3" x 1/8" x 3/8"		A36T	56076
4" x .035" x ¼"	19,000	A60T	56079
4" x .035" x 3/8"		A60T	56080
4" x 1/16" x ¼"		A36T	56083
4" x 1/16" x ¼"		A46T	56084
4" x 1/16" x ¼"		A60T	56085
4" x 1/16" x 3/8"		A36T	56086
4" x 1/16" x 3/8"		A46T	56087
4" x 1/16" x 3/8"		A60T	56088
4" x 1/8" x 3/8"		A36T	56099
4-½" x 1/16" x 7/8"	13,500	A60T	56103
5" x .035" x 3/8"	12,200	A60T	56106
5" x .035" x 5/8"		A60T	56108
5" x 1/16" x 5/8"		A36T	56115
5" x 1/16" x 5/8"		A60T	56117
5" x 1/16" x 7/8"		A36T	56118

Type 1 Portable Snagging Wheels



For electric or air die grinders

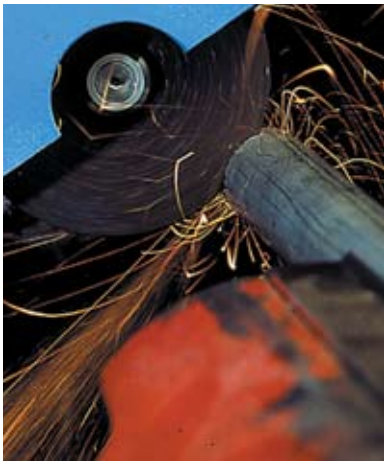
Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
2" x ¼" x 3/8"	30,000	A36T	56131
3" x ¼" x 3/8"	23,000	A36T	56147
4" x ¼" x 3/8"	19,000	A36T	56163

Mounting Mandrels - ¼" stem - Type 1 Wheels only

Arbor Size	Wheel Thickness	Part No.
¼"	.035" to ¼"	56489
3/8"	.035" to ¼"	56490
¼", 3/8"*	.035" to ¼"	56491

*Combination pack

Cut-off Wheel



Cutting a length of steel pipe.

TIP

- Convex wheel wear is a sign of proper wheel usage.
- Pointed wheel wear is a sign of improper usage. Wheel is too hard for application or feed rate is too slow for application.

Plastic Adapters

For Cut-Off Wheels with 1" arbor holes

Wheel Arbor Hole Size	Adapted Arbor Hole Size	Part No.
1"	20mm	04455

Type 1 Reinforced Wheels

For tool room & machine shop use

Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
6" x .035" x ½"	10,200	A60T	56170
6" x .035" x 5/8"		A60T	56171
7" x .035" x 5/8"	8,740	A60T	56183
7" x .035" x 1-¼"		A60T	56184
7" x 1/16" x 5/8"		A36T	56188
7" x 1/16" x 5/8"		A60T	56190
7" x 1/16" x 1-¼"		A60T	56193
8" x .035" x 1-¼"	7,640	A60T	56199

Type 1 Reinforced Wheels

For circular saws

Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
7" x 1/8" x DIA.	8,500	A24T	56208
		C24T	56209
8" x 1/8" x DIA.	7,640	A24T	56210
		C24T	56211

Dia. = 5/8" arbor with diamond knockout adapter

Large Type 1 Reinforced Wheels

For stationary machines

Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
10" x 1/16" x 5/8"	6,100	TA36R	56214
12" x 1/8" x 1"	5,100	TA24R	56226
14" x 1/8" x 1"	4,400	TA30R	56230

Large Type 1 Reinforced Wheels

For portable gas or electric saws

Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
12" x 1/8" x 1"	6,300	A24T	56241
		C24T	56242
		CA30P	56243
14" x 1/8" x 1"	5,200	A24T	56250
		C24T	56251
		CA30P	56252

Large Type 1 Reinforced Wheels

For low horsepower chop saws

Dia. x Thickness x Arbor Hole	Max. RPM	Grain/Grit/Grade	Part No.
12" x 3/32" x 1"	5,100	A46T	56239
14" x 3/32" x 1"	4,400	A46T	56240

Technical Information - Abrasive Flap Discs

Operational Advantages of Abrasive Flap Discs

Grind and Finish in One Step

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

Construction Advantages of Abrasive Flap Discs

Abrasive Flap Disc:
Multi-layer flap construction
As the abrasive cloth flaps slowly wear down, new sharp abrasive grain is constantly exposed, producing a consistently high cut rate throughout disc life.

Resin Fiber Disc:
Solid one-layer construction
The cut rate of a resin fiber disc diminishes rapidly because, as the disc wears, no new abrasive grain is exposed.

Product Selection

Selection Guide For Abrasive Flap Discs

Application Requirement	Abrasive Flap Disc Type	Tool
High cut rate and consistent finish. Enables operator to trim non-marking backing, exposing more flaps, therefore extending life and increased flexibility..	***Trimable*** **Tiger® Flap Disc** Angled (Type 29)	
A high cut rate and a long life.	***Original*** **Tiger® Disc** Angled (Type 29)	
	Original **Tiger® Disc** Flat (Type 27)	
A high cut rate at a value price (maintains similar cut rate as original Tiger Discs™).	**Vortec Pro™ Flap Disc** Angled (Type 29)	
Increased conformability on contoured parts; enhanced ergonomics; long life; minimized gouging on value-added components.	***High Density*** **Big Cat®** Flat (Type 27)	
Increased conformability at a value price.	***High Density*** **Vortec Pro™ Flap Disc** Flat (Type 27)	
Stainless steel and other high strength metal grinding applications.	***High Density*** **Tiger® Discs** ***For Stainless Steel*** Flat (Type 27)	
For use on air and electric right angle die grinders. Ideal for small, tight areas; non-marking backing.	**BobCat® Mini Disc** Angled (Type 29)	
	BobCat® Mini Disc Flat (Type 27)	

Selection Guide For Backing and Grain Types

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

Application Requirement	Grain Type
High rate of stock removal and long life in demanding applications	Zirconium
General purpose metalworking applications	Aluminum Oxide
Maximum material removal	Coarser Grits
Achieve desired finishes	Finer Grits

Tiger Disc™ Abrasive Flap Discs

Blending and finishing edges of a flame-cut steel part.

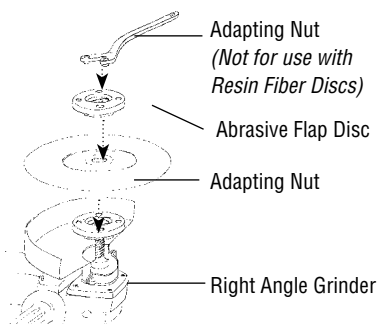
Applications

- Weld blending
- Grinding
- Deburring
- Deflashing
- Surface finishing and blending
- Edge chamfering
- Stock removal

Weiler's Original Tiger Discs™ are designed for the serious industrial user who values both a high cut rate and long life.

For Best Results:
Use 1 grit size coarser than resin fiber disc.

Exception:
36 grit, use same size.



Tiger Disc™ - Angled Style (Type 29)

Maximum aggression and long life.
Ideal for a working angle of 15˚-25˚

Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.		
				Phenolic Backing		Aluminum Backing
				Zirconium	Aluminum Oxide	Zirconium
4"	5/8"	36 40 60 80 120	15,000	50592 50593 50594 50595 50596	50552 50553 50554 50555 50556	50502 50503 50504 50505 50506
4-½"	7/8"	*24 36 40 60 80 120	13,000	50601 50602 50603 50604 50605 50606	50561 50562 50563 50564 50565 50566	50511 50512 50513 50514 50515 50516
4-½"	5/8"-11 Nut	*24 36 40 60 80 120	13,000	– – 50608 50609 50610 –	– – – – – –	50510 50517 50518 50519 50520 50509
5"	7/8"	*24 36 40 60 80 120	12,000	50611 50612 50613 50614 50615 50616	50571 50572 50573 50574 50575 50576	50521 50522 50523 50524 50525 50526
7"	7/8"	*24 36 40 60 80 120	8,600	50621 50622 50623 50624 50625 50626	50581 50582 50583 50584 50585 50586	50531 50532 50533 50534 50535 50536
7"	5/8"-11 Nut	*24 36 40 60 80 120	8,600	50641 50642 50643 50644 50645 50646	50631 50632 50633 50634 50635 50636	50541 50542 50543 50544 50545 50546

*When grinding steel and other ferrous materials, a 36 grit Tiger Disc™ is more productive than a 24 grit. 24 grit Tiger Discs™ are most productive when used on aluminum and other soft materials.

Adapting Nuts and Spanner Wrench

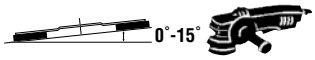
Description	Thread Size	For Use With	Part No.
Adapting Nuts	3/8" - 24	4" Flap Disc with 5/8" arbor hole (Can be used with an adjustable or combination wrench.)	56484
Adapting Nuts	5/8"-11	4-½", 5" & 7" Flap Discs with 7/8" arbor hole	56494
Spanner Wrench	–	Part No. 56494 only	56495

Tiger Disc™ Abrasive Flap Discs

Blending a corner weld on a stainless steel cabinet.

Tiger Disc™ - Flat Style (Type 27)

Smooth grinding action and long life.
Ideal for a working angle less than 15˚



Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.	
				Phenolic Backing	
				Zirconium	Aluminum Oxide
4"	5/8"	40 60 80 120	15,000	50693 50694 50695 50696	50653 50654 50655 50656
4½"	7/8"	40 60 80 120	13,000	50703 50704 50705 50706	50663 50664 50665 50666
5"	7/8"	40 60 80 120	12,000	50713 50714 50715 50716	50673 50674 50675 50676
7"	7/8"	40 60 80 120	8,600	50723 50724 50725 50726	50683 50684 50685 50686
7"	5/8"-11 Nut	40 60 80 120	8,600	50743 50744 50745 50746	50733 50734 50735 50736

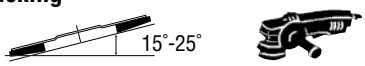
Trimmable Tiger Disc® Abrasive Flap Discs

Featuring a performance engineered, trimmable backing, this unique Tiger Disc™ design enables the operator to trim away the back of the disc, exposing more flap abrasive and dramatically extending the life of the disc.

Grinding corners just got easier!

Tiger Disc™ - Trimmable Backing

Zirconium Grain, Angled Style
(Type 29)



Dia.	Arbor Hole	Grit Size	Max RPM	Std. Pack	Part No.
4½"	7/8"	40	13,000	10	50002
		60			50003
		80			50004
		120			50005
4½"	5/8"-11	40	13,000	10	50006
		60			50007
		80			50008
		120			50009
5"	7/8"	40	12,000	10	50010
		60			50011
		80			50012
		120			50013
5"	5/8"-11	40	12,000	10	50014
		60			50015
		80			50016
		120			50017

The backing can be trimmed up to 3/8" from the original diameter, dramatically extending the life of the disc.

Vortec Pro™ Abrasive Flap Discs

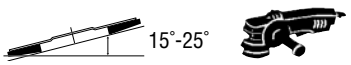
Weld blending after a repair on a steel rack.

***For Best Results:**
When grinding steel and other ferrous materials, a 36 grit Vortec™ flap disc is more productive than a 24 grit.

24 grit flap discs are most productive when used on aluminum and other soft materials.

Vortec Pro™ - Angled Style (Type 29)

High cut rate at a value price.



Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.	
				Phenolic Back - Zirconium	Aluminum Back - Zirconium
4"	5/8"	24* 40 60 80 120	15,000	31337 31338 31339 31340 31341	31301 31302 31303 31304 31305
4-½"	7/8"	24* 36 40 60 80 120	13,000	31342 31343 31344 31345 31346 31347	31306 31307 31308 31309 31310 31311
4-½"	5/8"-11 Nut	24* 36 40 60 80 120	13,000	31348 31349 31350 31351 31352 31353	31312 31313 31314 31315 31316 31317
5"	7/8"	24* 36 40 60 80 120	12,000	31354 31355 31356 31357 31358 31359	31318 31319 31320 31321 31322 31323
7"	7/8"	24* 36 40 60 80 120	8,600	31360 31361 31362 31363 31364 31365	31324 31325 31326 31327 31328 31329
7"	5/8"-11 Nut	24* 36 40 60 80 120	8,600	31366 31367 31368 31369 31370 31371	31330 31331 31332 31333 31334 31335

Vortec Pro™ - Flat Style (Type 27)

Smooth grinding at a value price.

Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.
				Phenolic Back - Zirconium
4-½"	7/8"	36 40 60 80	13,000	31401 31402 31403 31404
4-½"	5/8"-11 Nut	36 40 60 80	13,000	31407 31408 31409 31410
7"	7/8"	36 40 60 80	8,600	31413 31414 31415 31416
7"	5/8"-11 Nut	36 40 60 80	8,600	31419 31420 31421 31422

Vortec Pro™ Abrasive Flap Discs

Grinding welds on a fabricated steel part.

Applications
- Weld blending
- Grinding
- Deburring
- Deflashing
- Surface finishing and blending
- Edge chamfering
- Stock removal

For Best Results:
Use 1 grit size coarser than resin fiber disc.

Exception:
36 grit, use same size.

Vortec Pro™ - High Density - Flat Style (Type 27)

Increased conformability at a value price. 0˚-15˚

Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.
				Phenolic Back - Zirconium
4-½"	7/8"	40 60 80	12,000	31387 31388 31389
4-½"	5/8"-11 Nut	40 60 80	12,000	31390 31391 31392

Vortec Pro™ - Display Packaged Angled Style - (Type 29)

Convenient hang-card makes increasing point-of-purchase sales easy! 15˚-25˚

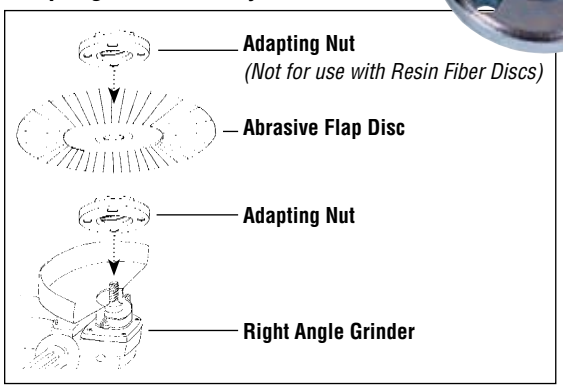
Dia.	Grit Size	Max. RPM	Phenolic Back - Zirconium		Aluminum Back - Zirconium	
			Arbor Hole	Part No.	Arbor Hole	Part No.
4"	36 60 80	15,000	5/8"	30822 30825 30826	5/8"-11	30821 30823 30824
4-½"	36 60 80	13,000	7/8"	30828 30831 30832	5/8"-11	30827 30829 30830
7"	36 60 80	8,600	7/8"	30834 30837 30838	5/8"-11	30833 30835 30836

Vortec Pro™ Assortments

Description	Part No.
Small Angle Grinder Assortment with backmat 3 each of 4" & 4-½" aluminum backed, 36, 60 & 80 grits	30840
Large Angle Grinder Assortment 2 each of 7" aluminum backed, 36, 60 & 80 grits	30841

Adapting Nuts & Spanner Wrench

Adapting Nut Assembly



Adapting Nuts and Spanner Wrench -

For use with Tiger®, Vortec Pro™ and High Density Flap Discs

Description	Thread Size	For Use With	Part No.
Adapting Nuts	3/8" - 24	4" Flap Disc with 5/8" arbor hole (Can be used with an adjustable or combination wrench.)	56484
Adapting Nuts	5/8"-11	4-½", 5" & 7" Flap Discs with 7/8" arbor hole	56494
Spanner Wrench	–	Part No. 56494 only	56495

Specialty Abrasive Flap Discs

Weiler TIGER ABRASIVES

Weld blending on an automotive part.

Big Cat® Applications
Provides increased conformability and long life when:
- Weld blending
- Grinding
- Deburring
- Deflashing
- Stock removal
- Surface finishing and blending
- Edge chamfering

Big Cat® - High Density - Flat Style (Type 27)

A thicker disc with larger flaps which conforms to curved and irregular surfaces while producing a consistent finish. 30-40% longer life than standard flap discs.

Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.	
				Phenolic Backing	
				Zirconium	Aluminum Oxide
4-½"	7/8"	40 60 80 120	12,000	50803 50804 50805 50806	50763 50764 50765 50766
4-½"	5/8"-11 Nut	40 60 80	12,000	50808 50809 50810	– – –
7"	7/8"	40 60 80 120	8,600	50823 50824 50825 50826	50783 50784 50785 50786
7"	5/8"-11 Nut	40 60 80 120	8,600	50843 50844 50845 50846	50833 50834 50835 50836

Note: Weiler's Specialty Abrasive Flap Discs provide users with a flap disc designed for application-specific situations.

Tiger Discs™ for Stainless Steel:
- Made with specially formulated, fast-cutting abrasive cloth which prevents dulling and glazing of abrasive grains leading to consistently high cut rates.
- 50-65% more abrasive cloth than conventional flap discs - disc life is extended resulting in the lowest cost-per-piece finished.
- High density flat configuration adds flexibility which promotes smoother grinding action and reduces the possibility of damage to high-value stainless parts.
- Designed to work under lighter pressures which minimizes gouging, undercutting, heat discoloration and thermal distortion, and reduces operator fatigue.

For use in applications for stainless steel such as:
- Weld blending
- Grinding
- Heavy deburring
- Deflashing
- Stock removal and dressing
- Finishing and blending
- Edge chamfering

Tiger Discs™ for Stainless Steel High Density Flat Style (Type 27)

60 Grit: For maximum cut rate;
80 Grit: For superior finish

Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.
				Phenolic Backing
4-½"	7/8"	60 80	12,000	50864 50865
4-½"	5/8"-11 Nut	60 80	12,000	50869 50870
7"	7/8"	60 80	8,600	50884 50885
7"	5/8"-11 Nut	60 80	8,600	50894 50895

***For Best Results:**
When grinding welds that are less than a ¼" thick, use a 60 grit Tiger Disc™ for Stainless Steel as the first step, instead of a hard grinding wheel. This disc grinds faster while producing a smoother finish than a grinding wheel. This process cuts down the time and the number of abrasive products required to grind and finish the welds.

Specialty Abrasive Flap Discs

Blending excess brazing material on a machine component.

Applications

Used on right angle air die grinders for:

- Grinding, deburring and blending on steel, stainless steel and other metals
- Jobs requiring high aggression and rapid stock removal
- Metal fabrication requiring light weld blending or edge chamfering

BobCat™ - Angled Style (Type 29)

Used on right angle air die grinders for maximum aggression. Small size allows access to confined areas.

Dia.	Grit Size	Max. RPM	Part No. Zirconium
2"	36	30,000	50922
	40		50923
	60		50924
	80		50925
	120		50926
3"	36	20,000	50902
	40		50903
	60		50904
	80		50905
	120		50906

Patented

BobCat™ - Flat Style (Type 27)

Used on right angle air die grinders for smooth grinding and enhanced conformability. Small size allows access to confined areas.

Dia.	Grit Size	Max. RPM	Part No. Zirconium
2"	36	30,000	50932
	40		50933
	60		50934
	80		50935
	120		50936
3"	36	20,000	50912
	40		50913
	60		50914
	80		50915
	120		50916

Patented

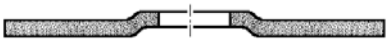
BobCat™ Drive Mandrel

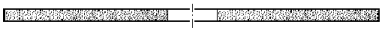
Description	Part No.
For mounting 2" & 3" BobCats on tools with ¼" collets.	07766

3" BobCats™ can also be mounted on Norton Speed-Lok® TS back-up pads and Weiler metal hub pad Part No. 60509. Speed-Lok® TS is a registered trademark of Norton Co.

Coated Abrasive Shop Rolls

Cutting





Type 27 Products:

Type 27 Wheels are offered in .045", .060" and $^{3}/_{32}$" wheel thicknesses. Diameters range from 4" to 9" and are available in aluminum oxide or zirconium grain, with a choice of a $^{5}/_{8}$"-11 hub.

Type 1 Products:

This product category includes wheels ranging from 1-½ " to 14" diameters, in various grit sizes, and aluminum oxide and silicon carbide abrasive grains. Type 1 Wheels are for use on electric or air die grinders, tool room grinders, circular saws, stationary machines, portable gas or electric saws and chop saws.

Wheel Selection Guide	
Grain	
A	Aluminum Oxide: for general purpose use on all metals except titanium
C	Silicon Carbide: for cutting non-metallics and titanium (Type 1 only)
CA	Combination Silicon Carbide/Aluminum Oxide: for cutting ductile iron and non-ferrous metals (Type 1 only)
TA	Treated Aluminum Oxide: for extended wheel life and improved performance of large diameter wheels in coarser grits (Type 1 only)
Z	Zirconium: for higher cut rates in high pressure applications (Type 27 only)
Grit	
16	Extra Coarse: for extremely aggressive grinding
24	Coarse: for fast, aggressive cutting and maximum wheel life
30	Medium/Coarse: for fast cutting and long wheel life
36	Medium/Coarse: excellent for general purpose cutting
46	Fine/Medium: for a smoother finish and reduced burr
60	Fine: for a burr-free cut
Grade	
T-V	Hard: for maximum wheel life
R	Medium/Hard: for cutting large cross sections and improved rate of stock removal
P	Medium: for cutting very large cross sections and applications demanding very rapid stock removal
N	Soft/Medium: for maximum cut rate

Safety

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

Solving User Problems

When users complain of problems with resin bonded abrasives, they usually can be attributed to one of the following causes:

- The wrong application for the wheel being used.
- The operator is not using the product correctly.
- The wheel is being used on a tool other than for which it was designed.
- The wheel is being used on the proper tool, but one that is worn or defective.

Resin Fiber Discs

Weiler TIGER ABRASIVES

Grinding welds on a fabricated steel part.

Applications
Zirconium:
- High performance grinding of stainless steel, tool steel and hard-to-grind materials

Aluminum Oxide:
- All purpose weld blending, grinding, surface preparation and finishing of metals, plastic, wood and fiberglass.

Resin Fiber Discs

Dia.	Arbor Hole	Grit Size	Part No.	
			Zirconium	Aluminum Oxide
4"	5/8"	24	–	59491
		36	–	59492
		50	–	59493
		60	–	59494
		80	–	59495
		120	–	59497
4-½"	7/8"	24	59731	59571
		36	59732	59573
		50	59733	59575
		60	–	59576
		80	59735	59577
		100	–	59578
		120	–	59579
5"	7/8"	16	–	59500
		24	59701	59501
		36	59702	59503
		50	59703	59505
		60	–	59506
		80	59705	59507
		100	–	59508
		120	–	59509
7"	7/8"	16	59710	59520
		24	59711	59521
		36	59712	59523
		50	59713	59525
		60	59714	59526
		80	59715	59527
		100	–	59528
		120	–	59529
9"	7/8"	16	–	59540
		24	–	59541
		36	59722	59543
		50	–	59545
		60	–	59546

Grain Selection Guide

Zirconium:
- Superior cutting action
- 2-3 times the life of conventional grains
- Ultra-high resistance to heat, glazing and loading

Aluminum Oxide:
- Fast, smooth cutting action
- High resistance to heat, glazing and loading

Do not exceed maximum RPM of back-up pad.

Resin Fiber Disc Accessories

Description	Thread Size	Max. RPM	Part No.
4" Back-up Pad	5/8"-11*	14,900	59605
4-½" Back-up Pad	5/8"-11*	13,200	59611
5" Back-up Pad	5/8"-11*	11,900	59600
7" Back-up Pad	5/8"-11	8,550	59601
9" Back-up Pad	5/8"-11	6,500	59602
Spanner Wrench	–	–	59603
Disc Nut	5/8"-11	–	59604

*Other thread sizes available on special orders. Please specify model number and machine make on which accessories are to be used.

AL-tra CUT™ Discs - For Grinding Aluminum

Weiler TIGER ABRASIVES

AL-tra CUT™ Discs

AL-tra CUT™ Discs are specially formulated for superior grinding performance - on aluminum. AL-tra CUT™s improve grinding on aluminum 400-800%! These revolutionary discs resist loading, ensure higher cut rates, prolong disc life and achieve a superior finish compared to conventional sanding/grinding discs in the market. AL-tra CUT™ Discs replace conventional resin fiber discs 5 to 1 or more.

Blending aluminum welds on a machine bracket.

Applications

For aluminum applications such as:

- Weld blending
- Grinding
- Deburring
- Finishing

2" & 3" AL-tra CUT™ Discs

Aluminum Oxide

Dia.	Grit Size	Part No.	
		Plastic Button*	Metal Hub+
2"	36	59806	59869
	60	59807	59870
	80	59808	59871
	120	59809	59872
3"	36	59811	59874
	60	59812	59875
	80	59813	59876
	120	59814	59877

*Compatible with 3M Roloc™ 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.)

Do not exceed maximum RPM of back-up pad.
Do not store AL-tra CUT™ Discs above 120˚F.

4½" & 7" AL-tra CUT™ Discs

Aluminum Oxide

Dia.	Arbor Hole	Grit Size	Part No.
4-½"	7/8"	36	59821
		60	59823
		80	59824
		120	59826
7"	7/8"	36	59862
		60	59864
		80	59865
		120	59867

Do not exceed maximum RPM of back-up pad.
Do not store AL-tra CUT™ Discs above 120˚F.

Back-up Pads

for 2" & 3" Discs

Size	Max. RPM	Part No.	
		Plastic Button	Metal Hub
2" x ¼" stem	25,000	51551	60508
3" x ¼" stem	20,000	51552	60509

Disc Accessories

for 4-½" & 7" Discs

Description	Thread Size	Max. RPM	Part No.
4-½" Back-up Pad	5/8"-11*	13,200	59611
7" Back-up Pad	5/8"-11	8,550	59601
Spanner Wrench	–	–	59603
Disc Nut	5/8"-11	–	59604

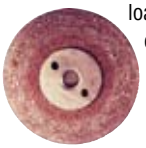
*Other thread sizes available on special orders. Please specify model number and machine make on which accessories are to be used.

NOTE

2" & 3" AL-tra CUT™ Discs vs. Blending Discs

AL-tra CUT™ Discs are made with a fiber backing, as opposed to cloth backed blending discs. This tougher fiber backing extends life, even in the most demanding applications. Combining this increased toughness with the special "load-resistant" formulation provides a long-life disc with superior, unparalleled grinding performance compared to conventional blending discs.

AL-tra CUT™ Performance



Weiler's exclusive AL-tra CUT™ Discs resist loading when grinding aluminum, ensuring constant grain contact

Conventional resin fiber discs load when grinding aluminum. This prevents the abrasive grain from contacting the work surface and dramatically decreases performance.

Coated Abrasive Flap Wheels

Weiler's Flap Wheels are designed with a solid hub construction which:

- Enables flap wheels to be rated at higher RPM's, providing more aggressive cutting action and increased productivity.
- Provides perfect balance leading to smooth, chatter-free finishing.

Applications

- Final finish on metal surfaces
- Deburring and mismatch removal on machined parts
- Edge blending
- Blending and finishing dies, molds, tools, tubing, channels
- Cleaning
- Smoothing metal plastic and wood
- Finish prior to painting or plating

Deburring perforated steel channel after saw-cut.

NOTE

Stems must be fully inserted into chuck or collet and tightened securely.

Vortec™ Mounted Flap Wheels

1/4" Stem - Aluminum Oxide
A price line designed to provide fast cutting action. Ideal for low to medium production environments.

Dia.	Width	Grit Size	Max. RPM	Part No.
1"	1"	60 80 120	30,000	30720 30721 30722
2"	1"	60 80 120	25,000	30723 30724 30725
3"	1"	60 80 120	23,000	30726 30727 30728

Metal Adapters

for Unmounted Flap Wheels
Used in pairs and priced per pair.

Wheel Arbor Hole Size	Adapted Arbor Hole Size	Part No.
1"	½"	03833
1"	5/8"	03834
1"	¾"	03835

Drive Arbor - for ¼"-20 Mounted Flap Wheels

Thread Size	Adapted Size	Part No.
¼"-20 UNC	¼"	07756

Tiger® Mounted Flap Wheels

¼" Stem - Aluminum Oxide - A premium line designed to provide long life. Ideal for medium to high production environments.

Dia.	Width	Grit Size	Max. RPM	Part No.
1"	1"	60 80 120	30,000	52003 52004 52005
1-½"	½"	60 80 120	25,000	52226 52227 52229
1-½"	1"	60 80 120	25,000	52009 52010 52011
2"	½"	60 80 120	25,000	52366 52367 52369
2"	1"	60 80 120	25,000	52015 52016 52017
2-½"	1"	60 80 120	23,000	52486 52487 52489
3"	½"	60 80 120	23,000	52024 52025 52026
3"	1"	60 80 120	23,000	52027 52028 52029

Tiger® Unmounted Flap Wheels

Aluminum Oxide - For use on bench and straight grinders.

Dia.	Width	Arbor Hole	Grit Size	Max. RPM	Part No.
4"	1"	5/8"	60 80 120	9,000	53166 53167 53169
6"	1"	1"	50 60 80 120	6,000	53285 53286 53287 53289
6"	1-½"	1"	50 60 80 120	6,000	53305 53306 53307 53309
6"	2"	1"	50 60 80 120	6,000	53325 53326 53327 53329

Tiger® Mounted Flap Wheels

¼"-20 Threaded Stem - Aluminum Oxide

Dia.	Width	Grit Size	Max. RPM	Part No.
1"	1"	60 80 120	30,000	52601 52603 52605
2"	1"	60 80 120	25,000	52611 52613 52615
3"	1"	60 80 120	20,000	52621 52623 52625

Blending Discs

Removing mill scale on a hot rolled steel part.

Applications

- Blending or finishing metal surfaces
- Light weld removal
- Removing handling marks, surface imperfections and mill marks

Grain Selection Guide

Aluminum Oxide: For general purpose applications on ferrous metals.
Aluminum Oxide Plus: For difficult to grind metals such as aircraft grade high nickel, chrome alloys and heat sensitive metals. Provides lower heat generation than regular aluminum oxide on ferrous metals.
Zirconium: For rapid stock removal and where medium to heavy pressure is applied. The grinding aid allows cool-cutting for extended stock removal on stainless steel.

Blending Discs - Metal Hub Style

Compatible with Norton Speed-Lok® TS back-up pads

Dia.	Grit Size	Part No.	
		Zirconium	Aluminum Oxide
1-½"	36		60027
	60	60368	60030
	80	60369	60031
	120	60371	60033
2"	36	60378	60040
	60	60381	60043
	80	60382	60044
	120	60384	60046
3"	36	60391	60053
	60	60394	60056
	80	60395	60057
	120	60397	60059

Do not exceed the maximum RPM of the back-up pad.
(Speed-Lok® TS is a registered trademark of Norton Co.)

Metal Hub Style Back-up Pads

¼" Stem

Dia.	Max. RPM	Part No.
1-½"	30,000	60507
2"	25,000	60508
3"	20,000	60509

Blending Discs - Plastic Button Style

Compatible with 3M Roloc™ back-up pads

Dia.	Grit Size	Part No. Aluminum Oxide
2"	36	60118
	60	60121
	80	60122
	120	60124
3"	36	60131
	60	60134
	80	60135
	120	60137

Do not exceed the maximum RPM of the back-up pad. (Roloc™ is a trademark of 3M.)

Plastic Button Style Back-up Pads

¼" Stem

Dia.	Max. RPM	Part No.
2"	25,000	51551
3"	20,000	51552

Trim-Kut® Discs

Weiler's Trim-Kut® Discs are abrasive discs designed for light grinding and blending applications on a variety of materials. The abrasive grains are fused directly on to 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 drills or right angle air die grinders, and 4-½" discs are for use on right angle grinders.

Chamfering the edge of a steel pipe.

Applications

- Edge blending
- Deburring
- Preparation for painting and surface finishing
- Light weld and stock removal

Trim-Kut® Discs - Aluminum Oxide

Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.
3"	5/16"- 18	36 60 120	21,000	59300 59305 59315

Trim-Kut® Discs - Aluminum Oxide

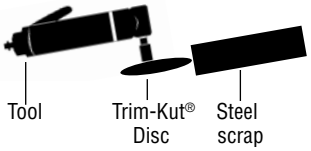
Dia.	Arbor Hole	Grit Size	Max. RPM	Part No.
4-½"	7/8"	36 60 120	13,000	59403 59404 59405

Do not use Trim-Kut® discs in temperatures lower than 48˚ fahrenheit. Store at 50% relative humidity.

Trim-Kut® Adapters

Description	For Use With	Part No.
¼" Mandrel	3" Trim-Kut® Discs	59327
3/8"-24 UNF Adapter	3" Trim-Kut® Discs	59326
Adapting Nuts	4-½" Trim-Kut® Discs	56485
Spanner Wrench	Part No. 56485 only	56496

TIP



Extend disc life 2-3 times. Renew Trim-Kut®'s sharp cutting edge by running the edge against a clamped piece of steel scrap.

If you are using a blending disc or Trim-Kut® Disc, ask our Application Engineering Department if Weiler's BobCat™ Abrasive Flap Discs can enhance your productivity. BobCats™ dramatically outperform blending and Trim-Kut® Discs by reducing changeovers and providing consistently high cut rates and extended life.

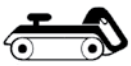
Coated Abrasive Belts

Blending a weld using a portable file belt.

Applications

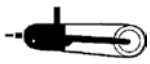
- Decorative finishing of metal surfaces
- Grinding, deburring and flash removal on saw-cut parts
- Edge blending
- Cleaning
- Smoothing metal, plastic and wood
- Removing tool mark and forging scale
- Finishing prior to painting or plating
- Grinding gates off castings

Portable Belts



Size (Width x Length)	Grit Size	Part No.	
		Zirconium	Aluminum Oxide
3" x 18"	60	–	67488
	80	–	67489
	120	–	67491
3" x 21"	40	69005	67504
	50	69006	67505
	60	69007	67506
	80	69008	67507
	100	–	67508
	120	–	67509
3" x 24"	36	69040	67539
	40	69041	67540
	50	69042	67541
	60	69043	67542
	80	69044	67543
	100	–	67544
	120	–	67545
3-½"x15-½"	60	–	67614
	80	–	67615
	120	–	67617
4" x 21-¾"	60	–	67632
	80	–	67633
	100	–	67634
	120	–	67635
4" x 24"	36	69148	67647
	40	69149	67648
	50	69150	67649
	60	69151	67650
	80	69152	67651
	100	–	67652
	120	–	67653

Portable File Belts

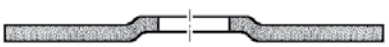


Size (Width x Length)	Grit Size	Part No.	
		Zirconium	Aluminum Oxide
¼" x 18"	80	68524	67023
¼" x 24"	60	68541	67040
	80	68542	67041
	120	–	67043
¾" x 18"	40	68575	67074
	60	68577	67076
	80	68578	67077
	120	–	67079
½" x 24"	36	68592	67091
	40	68593	67092
	50	68594	67093
	60	68595	67094
	80	68596	67095
	100	–	67096
	120	–	67097
¾" x 20-½"	40	68629	67128
	50	68630	67129
	60	68631	67130
	80	68632	67131
	100	–	67132
	120	–	67133
1" x 12"	60	68649	67148
	80	68650	67149
	120	–	67151
1" x 30"	60	68667	67166
	80	68668	67167
	120	–	67169

Bonded Abrasive Technical Information

Bonded abrasive products are used for applications requiring heavy material removal such as rough grinding, weld removal, snagging, cutting and parting.

Grinding



Type 27 Products:
These products range from 4" to 9" diameters and are available in ¼" thick for grinding and $^{1}/_{8}$" thick for light grinding or cutting. Type 27 Wheels are offered in aluminum oxide or zirconium grain with a choice of a $^{5}/_{8}$"-11" hub. Type 27 Flexible Grinding and Blending Wheels are available in 4-½", 5" and 7" diameters in aluminum oxide grain.

Coated Abrasive Shop Rolls

Weiler's Shop Rolls are resin over resin bond - providing a stronger, heat and moisture resistant bond that better utilizes the abrasive grains. The egyptian cotton cloth provides a tougher, durable backing for longer life. J-flex cloth provides a higher degree of flexibility to conform to contoured parts.

Polishing the O.D. of a part turned in a lathe.

Applications

- Off-hand polishing of metal surfaces
- Cleaning stock which is being turned in a lathe
- General purpose machine shop use
- Off-hand deburring

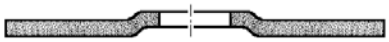
Shop Rolls - Aluminum Oxide - 50 yards

Roll Width	Grit	Part No.
1"	50	65204
	60	65205
	80	65206
	100	65207
	120	65208
	150	65209
	180	65210
	240	65212
	320	65213
1-½"	50	65217
	60	65218
	80	65219
	100	65220
	120	65221
	150	65222
	180	65223
	240	65225
	320	65226
2"	50	65230
	60	65231
	80	65232
	100	65233
	120	65234
	150	65235
	180	65236
	240	65238
	320	65239

TIP

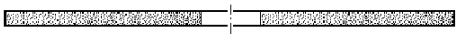
Use light machine oil with shop rolls as a lubricant for finer finishes and quicker cut.

Cutting



Type 27 Products:

Type 27 Wheels are offered in .045", .060" and $^{3}/_{32}$" wheel thicknesses. Diameters range from 4" to 9" and are available in aluminum oxide or zirconium grain, with a choice of a $^{5}/_{8}$"-11 hub.



Type 1 Products:

This product category includes wheels ranging from 1-½ " to 14" diameters, in various grit sizes, and aluminum oxide and silicon carbide abrasive grains. Type 1 Wheels are for use on electric or air die grinders, tool room grinders, circular saws, stationary machines, portable gas or electric saws and chop saws.

Wheel Selection Guide	
Grain	**Grit**
A Aluminum Oxide: for general purpose use on all metals except titanium	24 Coarse: for fast, aggressive cutting and maximum wheel life
C Silicon Carbide: for cutting non-metallics and titanium (Type 1 only)	30 Medium/Coarse: for fast cutting and long wheel life
CA Combination Silicon Carbide/Aluminum Oxide: for cutting ductile iron and non-ferrous metals (Type 1 only)	36 Medium/Coarse: excellent for general purpose cutting
TA Treated Aluminum Oxide: for extended wheel life and improved performance of large diameter wheels in coarser grits (Type 1 only)	46 Fine/Medium: for a smoother finish and reduced burr
Z Zirconium: for higher cut rates in high pressure applications (Type 27 only)	60 Fine: for a burr-free cut
	Grade
	T-V Hard: for maximum wheel life
	R Medium/Hard: for cutting large cross sections and improved rate of stock removal
	P Medium: for cutting very large cross sections and applications demanding very rapid stock removal
	N Soft/Medium: for maximum cut rate

Safety

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

Non-Woven Hand Pads

Weiler's Hand Pads are for cleaning and conditioning surfaces by hand. Unlike steel wool, the hand pads are non-metallic, and do not produce "after-rust" on worksurfaces. Hand pads can be used in wet applications.

Cleaning a sink in a restaurant with a commercial hand pad.

Applications

Hand Pads (Industrial):
- Producing satin finishes on aluminum and stainless steel
- Light deburring
- Surface preparation
- Blending light scratches
- Removing rust and oxidation

Hand Pads (Commercial):
- Cleaning and removing stains from stainless steel
- Removing rust and corrosion

Grain Types:
A - Aluminum Oxide S - Silicon Carbide

Hand Pads - Industrial Grade

Size	Grain	Part No.
Ultra Fine - Grey		
6" x 9"	S	51434
Economy General Purpose - Maroon		
6" x 9"	A	51460
General Purpose - Maroon		
6" x 9"	A	51444
Heavy-Duty - Tan		
6" x 9"	A	51454

Hand Pads - Commercial Grade

Size	Grain	Part No.
Economy - Green		
6" x 9"	A	51456
Standard-Duty - Green		
6" x 9"	A	51457
Heavy-Duty - Green (20% thicker than Standard-Duty)		
6" x 9"	A	51458

Hand Pad Holder

Description	Part No.
For 3" x 6" pad	59616

Surface Conditioning Discs

Weiler's 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 extends disc life, providing superior performance.

Applications
- Scratch removal
- Removing flash, rust and oxidation
- Light deburring
- Blending ground out welds
- Gasket removal
- Cleaning, blending and conditioning metal surfaces
- Removing heat discoloration

Plastic Button Style Discs

Compatible with 3M Roloc™ back up pads

Dia.	Grade	Part No.	
		General Purpose	High Performance
1-½"	Very Fine (Blue)	51527	–
	Medium (Maroon)	51528	–
	Coarse (Brown)	51529	–
2"	Very Fine (Blue)	51530	57324
	Medium (Maroon)	51531	57323
	Coarse (Brown)	51532	57322
3"	Very Fine (Blue)	51533	57327
	Medium (Maroon)	51534	57326
	Coarse (Brown)	51535	57325
4"	Very Fine (Blue)	51536	–
	Medium (Maroon)	51537	–
	Coarse (Brown)	51538	–

Do not exceed the maximum RPM of the back-up pad.
(Roloc™ is a trademark of 3M.)

Surface Conditioning Discs

Surface blending on stainless steel

Hook & Loop Style Discs

Dia.	Grade	Part No.
2"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51503 51504 51505
3"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51506 51507 51508
4"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51509 51510 51511
4-½"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51512 51513 51514
5"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51515 51516 51517
6"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51518 51519 51520
7"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51521 51522 51523
8"	Very Fine (Blue) Medium (Maroon) Coarse (Brown)	51524 51525 51526

Hook & Loop Style Back-up Pads

1/4" Stem

Size	Max. RPM	Part No.
2" x ¼" Stem	16,000	51561
3" x ¼" Stem	16,000	51562
4" x ¼" Stem	16,000	51563
4-½" x 5/8"-11 Arbor Hole	13,000	51569
5" x 5/8"-11 Arbor Hole	10,000	51575
6" x 5/8"-11 Arbor Hole	8,000	51577
7" x 5/8"-11 Arbor Hole	6,000	51578
8" x 5/8"-11 Arbor Hole	4,500	51579

Do not exceed the maximum RPM of the back-up pad.

Plastic Button Style Back-up Pads

¼" Stem

Dia.	Max. RPM	Part No.
1-½"	30,000	51550
2"	25,000	51551
3"	20,000	51552
4"	12,000	51553

Industrial Brushes

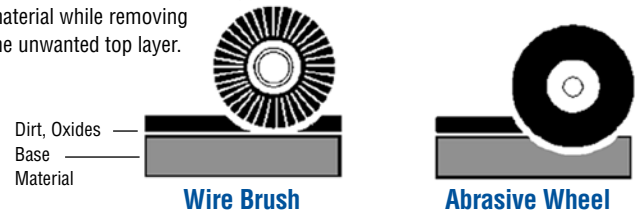
Brushing Guide

Proper Brushing Procedure

For maximum brushing results, use the lightest pressure necessary to accomplish the job. Let the wire tips do the work; excessive pressure can cause wire breakage.

Wire Brushes vs. Abrasive Wheel

Power brushing removes dirt, contaminants and oxides from base material, not the base material itself. In some applications, hard abrasive wheels will remove the base material while removing the unwanted top layer.



Safety Guide

No. 1
Safety Goggles

Safety goggles or full face shields worn over safety glasses with side shields must be worn by all operators and others in the area of power brush operations.

No. 2
Protective Equipment

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

No. 3
Guards

Keep all machine guards in place.

No. 4
Speeds

Observe all speed restrictions indicated on brushes, containers, labels or printed pertinent literature. MSFS, “Maximum Safe Free Speed” should not be exceeded under any circumstances.

Bench and Straight Grinder Wire Wheels

Steel Wire Wheels

- Provide fine to medium brushing action.
- Excellent for uneven surfaces.

Diameter	Wire Size	Arbor Hole	Face Width	Max. RPM	Part No.
6"	.014	5/8"-1/2"	1/2"	6,000	BW-605
			1"		BW-610

Safety Information

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

Guards
Keep all machine guards in place.

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

Protective Equipment
Appropriate protective clothing and equipment must be used where there is a possibility of injury that can be prevented by such clothing or equipment.

Tool/Work Rest
On bench grinders and pedestal machines, 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.

Safety Standards
Comply with the Safety Standards of the American National Standards Institute Standards ANSI B165.1 "Safety Requirements - Power Brushes" and ANSI B7.1 "Safety Requirements - For the Use, Care and Protection of Abrasive Wheels".

WARNING
Failure to observe safety precautions may result in injury.

Power Tool Icons

These icons illustrate the power tools used to drive Weiler brushed and abrasives.


Right Angle Grinder


Straight Grinder


Bench/Pedestal Grinder

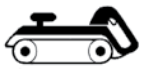

Die Grinder


Right Angle Air Die Grinder


Cut-Off Die Grinder


Stationary Belt Sander


Portable Chop Saw


Portable Belt Sander

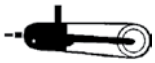

Chop Saw

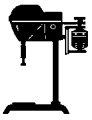

Circular Saw


High Speed Pencil Grinder


Low HP Chop Saw


Benchstand Belt Sander


Portable File Belt Sander


Drill Press


Flexible Shaft Tool


Stationary Cut-Off Machine

Availability of ANSI Standards

Based on the collective experience of the ABMA 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 be adhered to generally. Any applicable federal, state, local law or regulation must be strictly adhered to and is controlling over any recommendation contained herein. American National Standards are subject to periodic review and users are cautioned to obtain the latest editions. Contact The American National Standards Institute (ANSI), 1430 Broadway, New York, NY 10018.

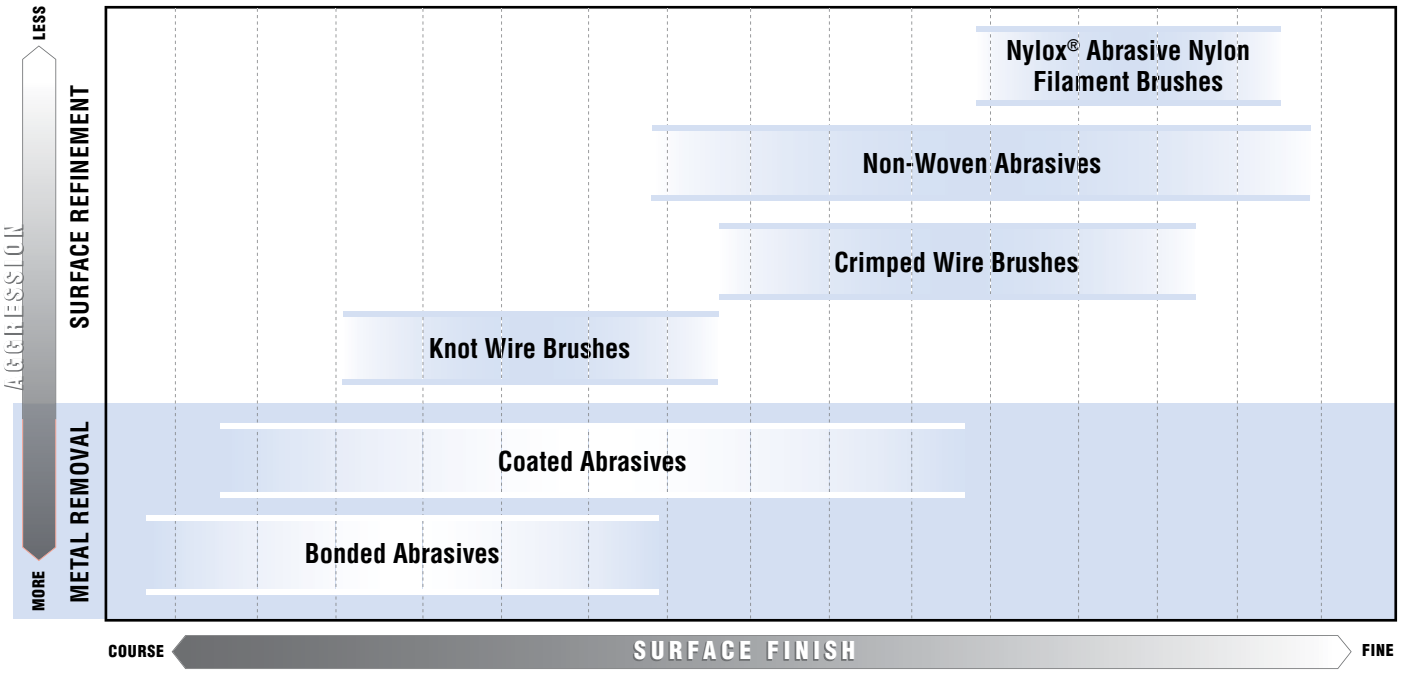
Weiler's Satisfaction Guarantee

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

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

Product Selection Guide: By Surface Finish

See chart below for the most effective brush or abrasive product type based on surface finish and degree of aggression required for your application. As indicated, coated and bonded abrasives will remove base material. Wire Brushes, Nylox® Brushes and Non-Woven Abrasives will NOT typically remove base material and are used for jobs requiring surface refinement.

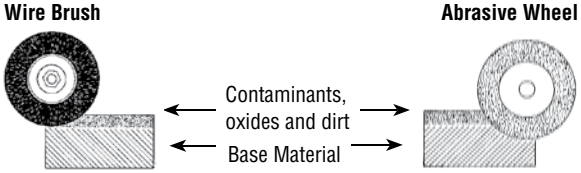


Power Brush Technical Information

Operational Advantages of Power Brushes

Power Brushes Will Not Remove Base Material

Wire brushes clean surfaces in the same manner as sand-blasting. Because of using superior quality hardened steel wire rotating at a high rate of speed, the brushes have the ability to separate surface contaminants from base material. Wire brushes will not remove base material or change part dimensions.



Brushes Are Non-Loading

Unlike non-woven, bonded and coated abrasives, wire brushes will not load when brushing soft materials or when used to remove paint and similar coatings.

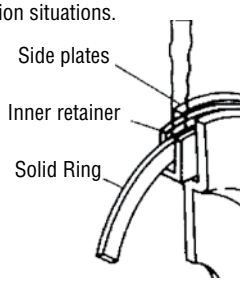
This resin fiber disc did not work very long before the grains became loaded with material.

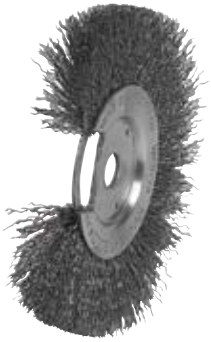
This power brush, however, can keep on working without ever becoming loaded with material.

Construction Advantages of Weiler Power Brushes

Weiler's Solid Ring Construction

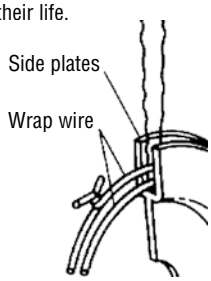
Our construction ensures that the brush will run smoother and last longer, even in the toughest application situations.





Competitor's Wrap-Wire Construction

Brushes made using the old wire wrapping method lack balance and permit wires to move around at the base, shortening their life.



Construction Advantages of Weiler Power Brushes

Weiler's Individual Knot Hole Construction

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

Weiler's Roughneck® Weld Cleaning Brushes Patented Construction

Each knot is twisted through its own hole and locked into an individual sprocket tooth. This prevents the knots from moving and allows them to have stronger striking action on the work surface.

Competitor's Knot Construction

Competitor knot wheel construction is commonly characterized by the placement of multiple knots into a single slot in the knot plate. The primary disadvantage of this type of construction is the lack of precise control of the knot location. As the brush wears, the knots have a tendency to move. In addition to creating vibration, this movement is detrimental to brush life and brushing aggression.

Fill Materials

Steel Wire:
Heat-treated, high-tensile steel wire, drawn to exacting Weiler specification, is used in all Weiler brushes with a wire diameter of .008 and above. This wire provides superior fatigue resistance and excellent brushing action.

Hard Drawn Wire:
Generally used in .003, .005 and .006 wire diameters for fine surface work.

Stainless (Type 302) Wire:
Highly corrosion resistant. Recommended where contamination or "after rust" is a problem, such as brushing stainless steel or non-ferrous metals. All Weiler stainless steel brushes are made with Type 302 stainless steel wire.

Non-Ferrous:
Brass, Bronze and Aluminum are some of the non-ferrous wires available in Weiler power brushes for special applications.

Animal:
Horsehair - A very durable material. The tail hair is stiff and the mane hair is soft. It can be blended with other materials such as synthetics. Used in a variety of brushes for scratch-free cleaning.

Goat hair - This soft material is mainly used in our miniature brushes for polishing.

Natural:
Tampico - Produced from the stem of the Mexican agave plant. Its texture is soft to medium with good durability. Used for scrubbing and washing applications. It is heat, alkali and acid resistant. The natural color is off-white but it may be dyed or bleached.

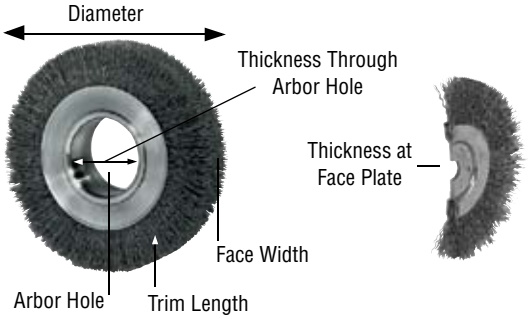
Synthetic:
Nylon - Resistant to most acids and alkalis. Long wearing nylon has the greatest use in cleaning applications. It is available straight or crimped.

Polypropylene - Available in strip brushes.

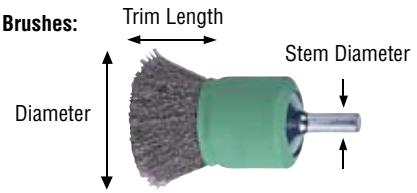
Product Attributes

Brush Terminology

Wheel Brushes:

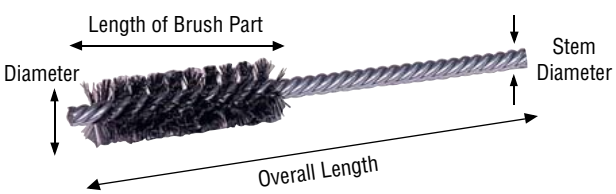


Stem-Mounted End Brushes:



Cup Brushes:

Tube Brushes:



Stainless Steel Wire Brushes:

There is an increasing need for stainless steel wire brushes in a variety of industries, such as the nuclear, aircraft, electronics, chemical, shipbuilding and missile industries.

Weiler's complete line of stainless steel brushes are made using Type 302 stainless steel wire. This wire was developed to provide long brush life and corrosion resistance. Using a stainless steel brush when brushing aluminum, stainless steel and other high strength alloys eliminates the danger of "after rust". When these alloys are brushed with carbon steel wire, a deposit of carbon material remains which can cause rust. Type 302 brush wire is austenitic.

Once a stainless steel brush has been used on carbon steel, it should never be used on stainless steel since rusting can occur. To avoid contamination, all stainless brushes should be stored away from areas (such as steel work benches) where carbon steel particles might come in contact with the brush.

It is recommended that a stainless steel surface be passivated with a solution of 10-20% nitric acid, after brushing, to ensure its resistance to corrosion.

Most stainless steel types look alike. How can you determine whether or not you really have Type 302 stainless steel wire in your brush? Stainless steel wire has magnetic properties as a result of the wire drawing process. Type 302 stainless wire will lose its magnetic properties if a wire strand is heated red with a match. If the wire strand retains its magnetic properties after heating, it is not Type 302.

Care of Stainless Steel Wire Brushes:
For critical operations, stainless steel wire brushes should be degreased before beginning the operation. Brushes that are stored after use should also be degreased and stored in plastic wrapping. If stored unprotected for any length of time, the brush could collect foreign matter due to its magnetic properties, and leave "after rust" when reused.

Power Brush Operating Information

Brushing Speeds

- Power brushes, like cutting tools, operate most effectively when the speed and pressure of the operation are properly matched to the demands of the application. In most operations, the highest speed and lightest pressure will ensure the fastest brushing action and longest brush life.
- Increasing brush speed increases the face hardness and brushing action; therefore, a fine wire brush rotating at a higher speed will often produce the same results as a coarser wire brush rotating at a slower speed. Finer wire operating at a higher speed is generally preferred and will provide a longer brush life.
- MSFS - Maximum Safe Free Speed (RPM) is the maximum speed at which the brushes may be used safely and is not necessarily the optimum speed for a given application. Operating speed should be determined by the application, but should not exceed the MSFS (RPM) for which the brush is rated.
- Make sure spindle size and motor of machine are large enough to accommodate the diameter of brush to be used.

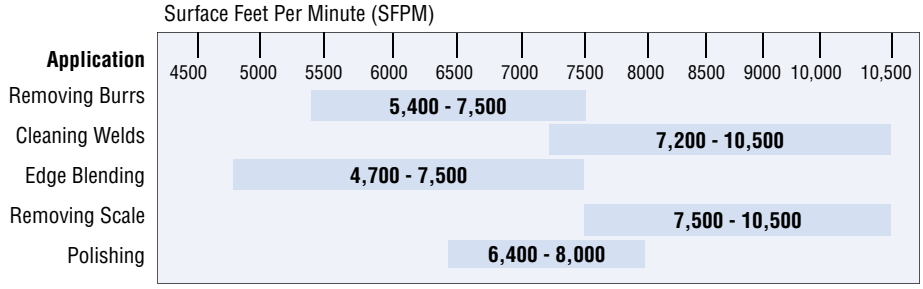
Brushing Pressure

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

Instead of greater pressure, try the following:
- **A brush with more aggressive action** (increase filament diameter, decrease trim length, different brush type, i.e.: knot type instead of crimped type)
- **Higher surface speed** (increase RPM or brush diameter)

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

Recommended Surface Speeds For Brushing Applications



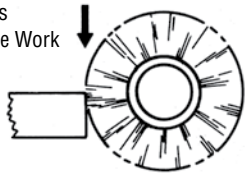
$$SFPM = \pi \frac{\text{Dia. (Inches)} \times \text{RPM}}{12}$$

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

	Diameter (Inches)							
RPM	**2**	**3**	**4**	**6**	**8**	**10**	**12**	**15**
1000	525	785	1050	1575	2100	2625	3150	3925
1500	785	1175	1575	2350	3150	3925	4725	5900
1750	915	1375	1850	2750	3650	4550	5500	6800
2500	1300	1950	2625	3925	5250	6550	7850	9825
3000	1575	2350	3125	4725	6275	7850	9425	11,775
3450	1800	2700	3600	5400	7200	9000	11,000	13,500
4000	2100	3150	4175	6275	8375	10,475	–	–
6000	3125	4700	6275	9425	–	–	–	–
10,000	5250	7850	10,500	–	–	–	–	–
15,000	7850	11,775	15,750	–	–	–	–	–
20,000	10,450	15,700	20,950	–	–	–	–	–

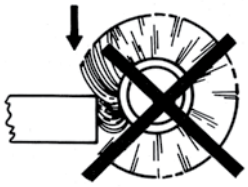
Correct

Wire Tips
Doing the Work



Incorrect

Excessive Pressure
Causes Wire Breakage



Important: 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). Normally, higher surface speeds result in faster cycle times and longer brush life. However, never exceed the Maximum Safe Free Speed (MSFS) or RPM of the brush.

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

Power Brush Operating Information

Minimum Spindle (Shaft) Diameter for Brushes of Various Sizes

(From ANSI Standard B165.1)

Outside Diameter of Wheel Brush	Maximum Face Width of Wheel Brush	Minimum Outside Diameter of Spindle (Shaft)
2"	¼"	¼"
3"	¾"	¼"
3" (heavy-duty)	1"	3/8"
4"	1"	3/8"
6"	1-¼"	½"
8"	1-¼"	5/8"
10"	2"	¾"
12"	3"	1"
14"	3"	1-¼"
15"	3"	1-¼"
16"	3"	2"

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

Recommended Motor Sizes

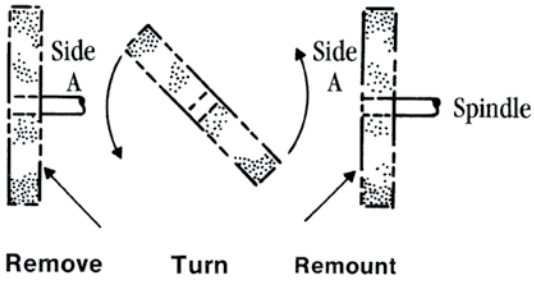
Brush Diameter	Motor Size	RPM
4"	¼ HP	3,450
6"	½ HP	3,450
8"	¾ HP	3,450
10"	1 HP	1,750
12"	1 HP	1,750
15"	1-½ HP	1,750

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

- Select a brush which is compatible with the horse power of the machine (see chart above).
- Select the largest diameter brush which will fit on the machine with all guards in place.

Self-Sharpening Tip for 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.



Conversion Charts

(Inches to Millimeters; 1"=25.4mm, 1mm=.03937")

Brush Diameter	
Inches	Millimeters
2-¾"	70mm
3"	76mm
3-½"	89mm
4"	102mm
5"	127mm
6"	152mm
7"	178mm
8"	203mm
10"	254mm
12"	305mm
14"	356mm
15"	381mm
16"	406mm

Arbor Hole Size	
Inches	Millimeters
¼"	6.4mm
3/8"	9.5mm
½"	12.7mm
5/8"	15.9mm
¾"	19.0mm
7/8"	22.2mm
1"	25.4mm
1-1/8"	28.6mm
1-¼"	31.8mm
1-½"	38.1mm
1-¾"	44.5mm
2"	50.8mm

Brush Face Width	
Inches	Millimeters
1/8"	3.0mm
¼"	6.4mm
3/8"	9.5mm
½"	12.7mm
5/8"	15.9mm
¾"	19.0mm
7/8"	22.2mm
1"	25.4mm
1-1/8"	28.6mm
1-¼"	31.8mm
1-½"	38.1mm
2"	50.8mm

Product Selection

Crimped vs. Knot Wire Brushes

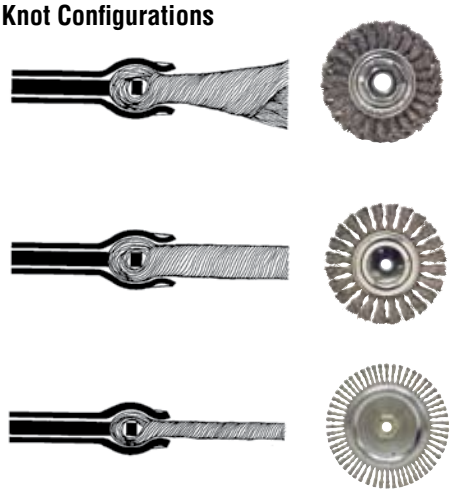
Crimped Wire Brushes:

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

Knot Wire Brushes:

- Made of heat-treated straight wire filaments 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 Configurations



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

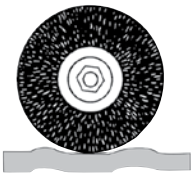
Cable Twist:
The wire is tightly twisted to the end of the knot, providing very aggressive brushing action.

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

Product Selection

Trim Length

Long Trim Brushes are more conformable and are able to follow contoured surfaces.



Short Trim Brushes are faster acting and suited for more severe brushing action.

Fill Density

High Density Brushes produce faster brushing action, longer brush life and finer surface finishes.

Low Density Brushes offer greater flexibility for surface cleaning operations on irregular surfaces.

Wire Size

It is recommended to use:
Very Fine to Fine Wire for light-duty applications
Medium to Coarse Wire for heavy-duty applications
To maximize brush life, always use the finest wire which will accomplish the job.

Wire	Coarse		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 mm	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.
American Steel Wire Equivalent Gauge (Formerly Washburn & Moen)

Polyflex® Encapsulated Brushes

Polyflex® Encapsulated Brushes are ideal for extremely demanding applications. They are especially well-suited for users with the following type 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 which can be achieved with a wire brush.

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

Burgundy (Standard)
General purpose elastomer; suitable for most manufacturing applications.

Orange (Heavy-Duty)
A more heavy-duty elastomer than burgundy; used for more demanding applications found in steel fabrication.

Black (Extra Heavy-Duty)
A heat stabilized elastomer that does not wear easily; used primarily for cleaning pipeline welds. Minimizes smearing on hot parts.

Power Brush Selection Chart	Cleaning Surface Prep Roughening Weld Cleaning Remove Oxides & Rust	Surface Finishing (Functional, Aesthetic, Decorative, Satin)	Heavy Deburring	Light Deburring & Edge Blending	Deflashing
Crimped Wheels	SG, RAG, BPG	SG, BPG		RAG, SG, BPG	
Knot Wheels	SG, RAG, BPG		SG, BPG		RAG, BPG
Crimped Cups	BPG	RAG		BPG	
Knot Cups	BPG		RAG		
Crimped Stem-Mounted	RAD, SDG			RAD, SDG	
Knot Stem-Mounted	RAD, SDG		RAD, SDG		RAD, SDG
Encapsulated	RAG, SG, RAG, SDG, BPG		RAG, SG, RAG, SDG		RAG,SG,RAG,SDG,RAD
Power & Hand Tube	HDP	HDP		HDP	
Miniature	SDG	SDG		SDG	

Product & Application Key
RAG Right Angle Grinder
SG Straight Grinder
BPG Bench/Pedestal Grinder
RAD Right Angle Die Grinder
SDG Straight Die Grinder
HDP Hand Drill/Drill Press

Application Solutions 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 • Select a brush with a smaller diameter wire • Select a brush with a narrower face • 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 • Select a brush with a larger diameter wire • Select a brush with a wider face • Select a brush with a larger outside diameter • Operate the brush at a faster RPM
Brushing action rolls or peens the burr over instead of removing burr	• Select a brush with a wider face • Select a brush with a larger diameter wire • Select a brush with shorter filaments • Operate the brush at a faster RPM
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 • Select a brush with a wider face • Replace the wire brush with an abrasive nylon brush (Nylox®)
Coarser final finish required	• Select a brush with shorter filaments • Select a brush with a narrower face • Operate the brush at a slower RPM • Select a brush with a larger diameter wire
Non-uniform brushing action	• Select a brush with longer filaments • Select a brush with a narrower face • Automate the operation to reduce human variables
Filaments break off	• Reduce pressure • Select a brush with a smaller diameter wire
Short brush life	• Select a brush with a smaller diameter wire • Reduce pressure • Select a brush with a wider face

Trulock™ Crimped Wire Wheels

Removing paint prior to welding.

Crimped Wire Wheels - Narrow Face

Flexible brushing action. Can be mounted in multiples.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Ref. Code	Part No. Steel	Part No. Stainless
4"	.006	½"-3/8"	½"	7/8"	¾"	7/16"	12,500	TLN-4	00104	00154
	.0118								00134	00184
	.014								00144	-
6"	.006	5/8"-½"	¾"	1-7/16"	1-¼"	7/16"	6,000	TLN-6	01035	01675
	.008								01045	-
	.0118								01065	01705
	.014								01075*	-
8"	.006	5/8"	¾"	2-1/16"	1-¼"	½"	6,000	TLN-8	01135	01775
	.0104								01155	-
	.0118								01165	01805
	.014								01175*	-

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Applications

- Cleaning rust, scale and dirt
- Light deburring
- Edge blending
- Roughening for adhesion
- Finishing for appearance
- Finish preparation prior to plating or painting
- Ideal for high production applications

Crimped Wire Wheels - Medium Face

Greater fill density and more aggressive brushing action.
Can be mounted in multiples.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No. Steel	Part No. Stainless
6"	.0118	2"	1"	1-1/8"	15/16"	6,000	TLM-6	06070	-
	.014							06080	-
8"	.0118	2"	1"	1-3/8"	1"	4,500	TLM-8	06110	06490
	.014							06120	-
10"	.0118	2"* with keyway	1-1/8"	2"	1"	3,600	TLM-10	06150	06530
	.014							06160	-
	.020							06170	-

*1/2" x 1/4" Double Keyway

Crimped Wire Wheels - Wide Face

Maximum wire density and aggression, covers more surface area in a single pass.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No. Steel	Part No. Stainless
6"	.0118	2"	1-¼"	1-1/8"	1"	6,000	TL-6	03060	03510
	.014							03070	03520
7"	.0118	2"	1-¼"	1-5/8"	1"	6,000	TL-7	03090	-
	.014							03100	-
8"	.0118	2"	1-½"	1-3/8"	1-3/8"	4,500	TL-8	03140	03590
	.014							03150	-
	.020							03160	-
10"	.0118	2"	2"	1-7/8"	1-5/8"	4,000	TL-10	03190	-
	.014							03200	-
	.020							03210	-
12"	.014	2"	2"	2-7/8"	1-9/16"	3,000	TL-12	03230	03680
	.020				1-11/16"			03240	-

Trulock™ Crimped Wire Wheels

Remove carbon build-up from an automotive valve.

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

For Brush Arbor Hole Size	Adapted Arbor Hole Size	Part No.
2"	½"	03809
	5/8"	03810
	¾"	03811
	7/8"	03824
	1"	03812
	1-¼"	03813
	1-½"	03814

Bench Grinder Wheels - Medium & Wide Face
A lower price, commercial grade brush for general purpose applications.

ORBITOR

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No. Steel
6"	.014	5/8"-½"	5/8"	1-1/16"	½"	6,000	OM-6	02325*
7"	.014	5/8"	¾"	1-9/16"	½"	6,000	OM-7	02335*
6"	.014	5/8"-½"	7/8"	1-1/8"	7/8"	6,000	OW-6	06645*
7"	.014	5/8"	7/8"	1-5/8"	7/8"	6,000	OW-7	06655

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Copper Center™ - Small Diameter Wire Wheels

Removing carbon build-up from an engine.

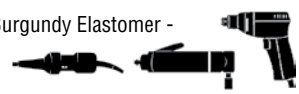
Applications

- Deburring
- Rust, scale and carbon removal
- Cleaning internal surfaces and hard to reach areas
- Cleaning threads and boiler tubes
- Edge blending
- Cleaning and polishing I.D. & O.D. surfaces
- Finishing for appearance
- Roughening for adhesion
- Wide usage in aircraft, aerospace, naval and nuclear work

Small Diameter Wheels - Wire Fill
General purpose applications. Can be mounted in multiples.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. RPM	Ref. Code	Part No. Steel	Part No. Stainless
2"	.0118	½"-3/8"	3/8"	½"	20,000	C-2	15463	16863
	.014	½"-3/8"					15473	16873
3"	.0118	½"-3/8"	5/8"	1"	20,000	C-3	15563	16963
	.014	½"-3/8"		1"			15573	16973
	.014	5/8"		15/16"			15677	

Small Diameter Wheels - Polyflex® Encapsulated Burgundy Elastomer - Standard. Elastomer gradually wears exposing consistent short trim for maximum aggression and long life.



Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. RPM	Ref. Code	Part No. Steel
2"	.006	½"	¼"	½"	20,000	PC-2	35335
	.0104						35240
	.014						35070

Drive Arbors

Arbor Dia.	Stem Dia.	Stem Length	Length of Shaft	For Brushes with Max. Dia. of:	Max. RPM	Ref. Code	Part No.
Unthreaded							
¼"	¼"	1-1/8"	3/16"	2"	20,000	AU-3	07723
3/8"	¼"	1-1/8"	3/16"	4"	20,000	AU-2	07722
Threaded							
½"	¼"	¾"	¾"	3"	25,000	SA-1	07724
3/8"	¼"	¾"	¾"	3"	25,000	SA-2	07727
½"	¼"	7/8"	¾"	3"	20,000	AU-1	07721
¼"	¼"	1-1/16"	1-1/8"	2"	20,000	FA-1	07725
3/8"	¼"	1"	1-1/8"	3"	20,000	FA-2	07726

Duralife® Knot Wire Wheels

Removing rubber coating from a hydraulic hose.

Applications

- Removing rust, scale, weld spatter and oxidation
- Roughening surfaces
- Removing rubber or plastic flash
- Heavy burr removal
- Heavy-duty cleaning operations
- Weld cleaning
- Surface conditioning
- Coating removal

Standard Twist Wheels

Rugged knot-type construction provides aggressive, high-impact action for severe applications.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. AH Avail.	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.	
										Steel	Stainless
3"	.0118 .014 .020	½"-3/8"	20	3/8"	5/8"	½"	7/16"	25,000	ST-3	08004 08014* 08024	08254 08264 08274
4"	.0118 .014 .020	½"-3/8"	24	½"	7/8"	½"	7/16"	20,000	ST-4	08034 08044* 08064	08284 08294 08314
6"	.0118 .014 .016 .023	5/8"-½"	24	½"	1-3/8"	1-¼"	9/16"	9,000	ST-6	08075 08085* 08095 08105	08325 – 08345 –
6"	.016	5/8"-½"	30	5/8"	1-¼"	1-¼"	5/8"	9,000	STH-6	08975	–
7"	.014	5/8"	24	5/8"	1-7/8"	1-¼"	9/16"	9,000	ST-7	08835	–
8"	.0118 .014 .016 .023	5/8"	38	5/8"	1-5/8"	2”	½"	6,000	ST-8	08125 08135 08145 08155	08375 – 08395 –

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Standard Twist Wheels - Wide Face - Two Sections

Covers more surface area in a single pass.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.
									Steel
3"	.0118	½"-3/8"	40	¾"	5/8"	¾"	22,000	WST-3	09104
4"	.0118	½"-3/8"	48	¾"	7/8"	¾"	20,000	WST-4	09134
6"	.0118	2"	60	7/8"	1-3/8"	7/8"	8,000	WST-6	09160
	.016								09180
8"	.0118	2"	76	1"	1-5/8"	1"	6,000	WST-8	09410
	.016								09430
10"	.016	2"	104	1-¼"	1-¾"	1-¼"	4,500	WST-10	09480
	.023								09490
12"	.0118	2"	104	1-¼"	2-¾"	1-¼"	3,600	WST-12	09510
	.016								09530
	.023								09540

Cable Twist Wheels

Maximum impact for extremely severe applications.

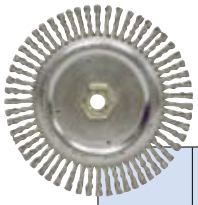
Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max AH Avail.	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.	
										Steel	Stainless
4"	.020	½"-3/8"	24	¼"	7/8"	½"	7/16"	20,000	CT-4	08534	–
6"	.023	5/8"-½"	24	3/8"	1-3/8"	1-¼"	9/16"	9,000	CT-6	08565	08695
8"	.023	5/8"	38	½"	1-5/8"	2"	½"	6,000	CT-8	08615	–

Duralife® Knot Wire Wheels

Removing weld slag before the next weld pass.

Cable Twist Wheel - Wide Face
Ideal for external pipe cleaning.
For automatic and semi-automatic equipment.

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



ROUGHNECK

Stringer Bead Twist Wheels - Very Narrow Face
For hard-to-reach areas; primarily for weld cleaning

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.	
									Steel	Stainless
5"	.020	5/8"-11 UNC	38	3/16"	7/8"	3/8"	12,500	STB-538	08756	08806
5"	.023	5/8"-11 UNC	24	1/2"	7/8"	3/8"	12,500	STB-524	09856	09866 •
6"	.020	5/8"-11 UNC	38	3/16"	1-3/8"	3/8"	12,500	STB-620	08766+	08786+
6"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	12,500	STB-6	09400*	09500
6"	.023	5/8"-1/2"	24	1/2"	1-3/8"	9/16"	12,500	STB-623	08775	–
		5/8"-11 UNC							08776*	08796 •
6"	.023	5/8"-11 UNC	30	1/2"	1-1/4"	5/8"	12,500	STB-630	08916*	08926 •
6"	.023	5/8"-11 UNC	30	5/16"	1-3/8"	1/2"	12,500	STC-6	09386	09396
6-7/8"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	9,000	STB-756	09000*T	09200T
6-7/8"	.020	5/8"-11 UNC	72	3/16"	1-1/8"	7/16"	9,000	STB-772	09100	–

+Light Duty T Patented • Note: This product has 1/2" face width.
*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Stringer Bead Twist Wheels - Polyflex® Encapsulated
Black Elastomer (Extra Heavy-Duty). Elastomer gradually wears exposing consistent short trim for maximum aggression and long life. For hot pass through cap pass weld cleaning.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.
									Steel
4"	.020	5/8"-11 UNC	32	3/16"	7/8"	7/16"	20,000	PSTBA-432	35800
6"	.014	5/8"-11 UNC	–	3/16"	1-7/16"	3/8"	9,000	PSTB-6-HD	35206*
6-7/8"	.020	5/8"-11 UNC	56	3/16"	1-1/8"	7/16"	9,000	PSTB-756-BG	35600+
7"	.014	5/8"-11 UNC	–	3/16"	1-15/16"	3/8"	9,000	PSTB-7-HD	35216*

*Crimped wire +Patented

Knot Wire Cup Brushes

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

Applications

- Heavy-duty cleaning of large metal surfaces
- Cleaning prior to welding
- Weld scale and corrosion removal
- Rust and paint removal
- Roughening
- Deburring

Crimped Wire Cup Brushes

For light to medium duty, general purpose applications.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.	
						Steel	Stainless
4"	.0118	5/8"-11 UNC	1-3/8"	9,000	CR-4	14016	–
	.014					14026	–
	.020					14036*	14126
5"	.014	5/8"-11 UNC	1-1/4"	8,000	CR-5	14206	–
	.020					14216	14256
6"	.014 .020	5/8"-11 UNC	1-1/4"	6,600	RCR-6	14066+	–
						14076*+	14166+

*Available in Display Packaging. Add "P" to end of Part No. when placing order.
+With internal nut.

Crimped Wire Cup Brush - Non-Sparking

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.	
						Bronze	Brass
3"	.020	5/8"-11 UNC	7/8"	14,000	CRA-2	13231	–
4"	.020	5/8"-11 UNC	1-3/8"	9,000	CR-4	14616	–
5"	.014	5/8"-11 UNC	1-1/4"	8,000	CR-5	–	14606
6"	.020	5/8"-11 UNC	1-1/4"	6,600	RCR-6	14316*	–

*With internal nut

Cup Brushes - Polyflex® Encapsulated

Burgundy Elastomer - Standard. Elastomer gradually wears exposing consistent short trim for maximum aggression and long life.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.
						Steel
4"	.020	5/8"-11 UNC	1-1/8"	9,000	PCR-4	35186
6"	.020	5/8"-11 UNC	1-1/4"	6,000	PRCR-6	35006
Orange Elastomer - Heavy-Duty						
6"	.020	5/8"-11 UNC	1-1/4"	6,000	PRCR-6-HD	35530
Black Elastomer - Extra Heavy-Duty						
6"	.020	5/8"-11 UNC	1-1/4"	6,000	PRCR-6-BG	35760

* With internal nut
\+ Patented
◊ Cable Twist
† Available in Display Packaging. Add "P" to end of Item No. when placing order.

Knot Wire Cup Brushes - Single Row - General Duty

For fast cleaning of large surfaces.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.	
						Steel	Stainless
3-½"	.014 .020	5/8"-11 UNC	1-1/4"	9,000	SR-3	12736	–
						12746	–
4"	.014 .023 .035	5/8"-11 UNC	1-1/4"	9,000	SR-4	12306	12406
						12316 †	12416
						12326	–
4"	.023	5/8"-11 UNC	1-1/4"	9,000	SRC-4	12206◊	–
4"	.023	5/8"-11 UNC	1-1/4"	9,000	RSR-4	12826*	–
5"	.014 .023	5/8"-11 UNC	1-3/8"	7,000	RSR-5	12256*	–
						12276 †*	–
6"	.014 .023 .035	5/8"-11 UNC	1-3/8"	6,600	SR-6	12356+	12456+
						12376 †+	12476+
						12396+	–
6"	.023	5/8"-11 UNC	1-3/8"	6,600	RSR-6	12816 †*	–
6"	.014 .023 .035	5/8"-11 UNC	1-5/8"	6,000	SRF-6	12846+	–
						12856+	12886+
						12866+	–

Knot Wire Cup Brushes

Removing rust and a label from a 55 gallon drum lid.

Knot Wire Cup Brushes - 1-½" Rows - For line traveling machines.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.
						Steel
4"	.023	5/8"-11 UNC	1-¼"	7,000	RDR-4-LT	94012*
6"	.030	5/8"-11 UNC	1-3/8"	4,000	RDR-6-LT	94092*

* With internal nut

Knot Wire Cup Brushes - Double Row - Heavy-Duty
For aggressive action in severe applications.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.	
						Steel	Stainless
4"	.014 .020	5/8"-11 UNC	1-¼"	9,000	DR-4	12756 12766	– 12726
6"	.014 .023 .035	5/8"-11 UNC	1-3/8"	6,600	DR-6	12536* 12556* 12576*	– 12636* –
6"	.014 .023 .035	5/8"-11 UNC	1-½"	6,000	DRF-6	12906* 12916* 12926*	– – –

* Patented

Knot Wire Cup Brushes - Double Row - Banded - Extra Heavy-Duty
Banded brushes provide shorter trim for maximum aggression.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.
						Steel
4"	.020	5/8"-11 UNC	7/8"	9,000	DR-4-HD	12796
6"	.023 .035	5/8"-11 UNC	7/8"	6,600	DR-6-HD	12676 12686

Knot Wire Cup Brushes - Banded - Extra Heavy-Duty

Dia.	Wire Size	Arbor Hole	Trim* Length	Max. RPM	Ref. Code	Std. Pkg.	Part No.	
							Steel	Stainless
2-¾"	.014 .020	5/8"-11 UNC	5/8"	12,500	SRA-2-HD	1	13300 13301	– 13302
4"	.023	5/8"-11 UNC	7/8"	9,000	SR-4-HD	1	12301	–

* Trim length from band

Mighty-Mite® - Brushes For Small Angle Grinders

Knot Wire Wheels - Standard Twist
Rugged knot-type construction provides aggressive, high-impact action for severe applications.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.	
									Steel	Stainless
3"	.014	3/8"-24 UNF	20	3/8"	5/8"	7/16"	25,000	STA-3	13201	13208
4"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF ½"-13 UNC 5/8"-11 UNC	24	½"	7/8"	7/16"	20,000	STA-4	13100 13101 13102 13103 13105 13106*	13107 13108 13109 13110 13112 13113*
4"	.020	M10 x 1.25 M14 x 2.0 ½"-13 UNC 5/8"-11 UNC	24	½"	7/8"	7/16"	20,000	STA-4	13114 13116 13119 13120	– – – –

Weiler's Mighty Mite® Brushes are specifically designed for smooth, yet aggressive brushing action on small angle grinders.

* Available in Display Packaging. Add "P" to end of Item No. when placing order.

Small Angle Grinder Reference Chart

Weiler's Mighty-Mite® brushes can be used on the following small angle grinders.

Manufacturer	Model No.	Male Thread Size	Grinder Size	RPM
AEG	WS601	5/8"-11 UNC	4-½"	10,000
Black & Decker	6246	M10 x 1.50	4"	10,000
	2750/2750G	5/8"-11 UNC	4-½"	10,000
	4252	5/8"-11 UNC	5"	10,000
	7750	5/8"-11 UNC	4-½"	10,000
	G750/G850	5/8"-11 UNC	4-½"	10,000
	FS6500AG	5/8"-11 UNC	4-½"	10,000
	G950	5/8"-11 UNC	4-½"	10,000
Bosch	1347A	5/8"-11 UNC	4-½"	11,000
	1375/1375A	5/8"-11 UNC	4-½"	11,000
	1700/1710D	5/8"-11 UNC	4-½"	11,000
	1800/1810PS	5/8"-11 UNC	4-½"	11,000
	1701/1711D	5/8"-11 UNC	5"	11,000
	1703EVS	5/8"-11 UNC	5"	11,000
	1711/1801	5/8"-11 UNC	5"	11,000
	1811PS	5/8"-11 UNC	5"	11,000
	1803EVS	5/8"-11 UNC	5"	11,000
	1347	M14 x 2.0	4-½"	11,000
	1348/1348E	M14 x 2.0	5"	11,000
	1347A/1348AE	5/8"-11 UNC	5"	11,000
	7352-111 Air	M14 x 2.0	5"	12,000
DeWalt	DW831	5/8"-11 UNC	5"	10,000
	DW802G	5/8"-11 UNC	4-½"	10,000
	D28110	5/8"-11 UNC	4-½"	11,000
	D28402/D28112	5/8"-11 UNC	4-½"	11,000
	D28114	5/8"-11 UNC	4-½" / 5"	11,000
	D28131	5/8"-11 UNC	4-½" / 5"	11,000
	DW402/DW400	5/8"-11 UNC	4-½"	10,000
Hilti	AG 125-SE	M14	5"	11,000
	AG 125-S	M14	5"	11,000
	DEG 500-D	5/8"-11 UNC	5"	11,000
	HG 500-D	5/8"-11 UNC	5"	11,000
	DC 500-S	5/8"-11 UNC	5"	11,000
	DAG 450-S	5/8"-11 UNC	4-½"	11,000
	DAG 451-S	5/8"-11 UNC	4-½"	11,000
	HG450	5/8"-11 UNC	4-½"	11,000
	HG500/DC500	5/8"-11 UNC	5"	11,000
Hitachi	G10SR2	M10 x 1.50	4"	11,000
	G12SA3/G12SE2	5/8"-11 UNC	4-½"	10,000
	G12SR2	M10 x 1.50	4"	11,000
	G135C2	5/8"-11 UNC	4-½"	10,000
	G10SD1	M10 x 1.50	4"	11,000
	G12SA	5/8"-11 UNC	4-½"	10,000
	G12S1	5/8"-11 UNC	4-½"	11,000
	G13SC	5/8"-11 UNC	5"	11,000
Ingersoll-Rand	AG230P64	3/8"- 24 UNC	4"	12,000
	AG230P1045	5/8"-11 UNC	4-½"	12,000
	AG230P105	5/8"-11 UNC	5"	12,000
	3445	5/8"-11 UNC	4-½"	12,000
	TA120RP64	3/8"- 24 UNC	4"	12,000
	HA120RP64	3/8"- 24 UNC	4"	12,000
	HA120RP1045	5/8"-11 UNC	4-½"	12,000
	IR344	3/8"- 24 UNC	4"	13,500
Jepson	4601	M10 x 1.50	4"	11,000
	4205	5/8"-11 UNC	5"	10,000
	4105N	M14	5"	10,000
	4045	5/8"-11 UNC	4-½"	11,000
	4050	M14	5"	11,000
Jet	JSM-619	3/8"- 24 UNC	4"	
	JSM-6195B	5/8"-11 UNC	5"	11,500
	JEG-400HD	3/8"-16 UNC	4"	11,500
	JEG-450	5/8"-11 UNC	4-½"	9,800
	JEG-500	5/8"-11 UNC	5"	

Manufacturer	Model No.	Male Thread Size	Grinder Size	RPM
Makita	9553NB	M10 x 1.25	4"	11,000
	9564	5/8"-11 UNC	4-½"	10,500
	9527PB/9557PB	5/8"-11 UNC	4-½"	10,000
	9557NB	5/8"-11 UNC	4-½"	11,000
	9554NB	5/8"-11 UNC	4-½"	10,000
	9558NB	5/8"-11 UNC	5"	11,000
	9565	5/8"-11 UNC	5"	10,500
	9015A/9558PB	5/8"-11 UNC	5"	10,000
	9005B	5/8"-11 UNC	5"	10,000
	9514B	M10 x 1.25	4"	11,000
	9501BZ	M10 x 1.25	4"	10,000
	9501BKW	M10 x 1.25	4"	10,000
	9526PB	M10 x 1.50	4"	10,000
	9503BHZ	5/8"-11 UNC	4-½"	10,000
	9527PB	5/8"-11 UNC	4-½"	10,000
	9505BHZ/9528PB	5/8"-11 UNC	5"	10,000
Metabo	W 7-115	5/8"-11 UNC	4-½"	10,000
	W 7-125	5/8"-11 UNC	5"	9,000
	WE 9-125	5/8"-11 UNC	5"	10,000
	W 10-125	5/8"-11 UNC	5"	10,000
	WE 14-125	5/8"-11 UNC	5"	10,500
	W14-125	5/8"-11 UNC	5"	10,000
	7010	M14 x 2.0	4-½"	10,000
	6014/7015	5/8"-11 UNC	4-½"	10,000
	EWE9125S	5/8"-11 UNC	4-½"	1,750-8,000
	11025	5/8"-11 UNC	4-½"/5"	10,000
	7026/10125	5/8"-11 UNC	5"	8,500
	9023	5/8"-11 UNC	5"	10,000
	9025	5/8"-11 UNC	5"	10,000
	11050	5/8"-11 UNC	6"	8,500
	7016	5/8"-11 UNC	4-½"	1,750-8,000
Milwaukee Electric Tool	6140	5/8"-11 UNC	4-½"	10,000
	6145	½"-13 UNC	4-½"	10,000
	6148-6	5/8"-11 UNC	4-½"	10,000
	6141	5/8"-11 UNC	5"	10,000
	6149-20	5/8"-11 UNC	5"	10,000
	6151	5/8"-11 UNC	4-½"	10,000
	6153-20	5/8"-11 UNC	4-½"	11,000
	6154-20	5/8"-11 UNC	4-½"	11,000
	6155-20	5/8"-11 UNC	5"	11,000
	6156-20	5/8"-11 UNC	5"	11,000
	6140/6142	5/8"-11 UNC	4-½"	10,000
	6145	½"-13 UNC	4-½"	10,000
	6146	½"-13 UNC	5"	10,000
Porter Cable	749/8749	M14 x 2.0	4-½"	12,000
	7406	5/8"-11 UNC	4-½"	10,000
	7405	5/8"-11 UNC	5"	10,000
Ryobi	AG401	5/8"-11 UNC	4"	11,000
	AG450	5/8"-11 UNC	4-½"	11,000
	SG-1000K	3/8"-16 UNC	4"	11,000
	G -1155-C	5/8"-11 UNC	4-½"	11,000
	G -1125-C	5/8"-11 UNC	5"	10,000
Sioux	1240	M10 x 1.50	4-½"	11,000
	1240A	M10 x 1.25	4-½"	11,000
	1245	5/8"-11 UNC	5"	10,000
Skil	9290-01	5/8"-11 UNC	4-½"	11,500
	9330-01	5/8"-11 UNC	4-½"	11,000
	9325-01	3/8"-16 UNC	4-½"	11,000
	9410/(9410:02)	M10 x 1.50	4-½"	12,000
	9310/9415	5/8"-11 UNC	4-½"	11,000
	9611/(9611:02)	5/8"-11 UNC	4-½"	12,000
	HD9611	5/8"-11 UNC	4-½"	12,000

Mighty-Mite® - Brushes For Small Angle Grinders

Removing rubber coating from a roller.

Applications

- Roughening
- Deburring
- Cleaning prior to welding
- Rust and paint removal
- Weld scale, weld spatter and corrosion removal
- Surface conditioning
- Surface prep prior to painting

Knot Wire Wheels - Cable Twist

Maximum impact for extremely severe applications.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.	
									Steel	Stainless
4"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 5/8"-11 UNC	24	1/4"	7/8"	7/16"	20,000	CTA-4	13261 13262 13263 13266*	– – – 13276

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Knot Wire Wheels - Stringer Bead Twist

For hard-to-reach areas; primarily for weld cleaning.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.	
									Steel	Stainless
4"	.020	1/2"-3/8"	32	3/16"	7/8"	7/16"	20,000	STB-432	13124	08954
4"	.020	M10 x 1.25	32	3/16"	7/8"	7/16"	20,000	STBA-432	13125*	13132
		M10 x 1.50							13126*	13133
		M14 x 2.0							13127	13134
		3/8"-24 UNF							13128	13135
		1/2"-13 UNC							13130*	13137
		5/8"-11 UNC							13131*	13138*

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Knot Wire Wheel - Stringer Bead Twist - Polyflex® Encapsulated

Black Elastomer (Extra Heavy-Duty). Elastomer gradually wears exposing consistent short trim for maximum aggression and long life.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.
									Steel
4"	.020	5/8"-11 UNC	32	3/16"	7/8"	7/16"	20,000	PSTBA-432	35800

Mighty-Mite® Adapters

For Cup or Wheel Brushes

Fixed Thread Size	Adapted Thread Size	Item No.
5/8" - 11 UNC	M10 x 1.25	07771*
5/8" - 11 UNC	M10 x 1.50	07772*
5/8" - 11 UNC	3/8" - 16 UNC	07769
5/8" - 11 UNC	3/8" - 24 UNF	07746

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Crimped Wire Wheels - Narrow Face Flexible brushing action.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plates	Max. RPM	Ref. Code	Part No.
								Steel
4"	.014	M10 x 1.25 5/8"-11 UNC	1/2"	7/8"	7/16"	14,000	TLNA-4	13075 13081

Crimped Wire Wheel - Polyflex® Encapsulated - Narrow Face

Burgundy Elastomer (Standard). Elastomer gradually wears exposing consistent short trim for maximum aggression and long life.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Thickness at Face Plate	Max. RPM	Ref. Code	Part No.
								Steel
4"	.014	5/8"-11 UNC	1/2"	7/8"	7/16"	14,000	PTLNA-4	35416

Mighty-Mite® - Brushes For Small Angle Grinders

Cleaning a weld with a Mighty-Mite® knot wheel brush.

Knot Wire Bevel Brushes

Maximum aggression for cleaning in corners.

Dia.	Wire Size	Arbor Hole	No. of Knots	Face Width	Trim Length	Max. RPM	Part No.	
							Steel	Stainless
4"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 5/8"-11 UNC	20	3/8"	3/4"	12,500	13401 13402 13403 13406	13411 13412 13413 13416
4"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 5/8"-11 UNC	20	3/8"	3/4"	12,500	13421 13422 13423 13426	13431 13432 13433 13436
4-1/2"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 5/8"-11 UNC	20	3/8"	1"	12,500	13451 13452 13453 13456	13461 13462 13463 13466
4-1/2"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 5/8"-11 UNC	20	3/8"	1"	12,500	13471 13472 13473 13476	13481 13482 13483 13486

Knot Wire Cup Brushes - Single Row

For fast cleaning of large surfaces.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.	
						Steel	Stainless
2-3/4"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	1"	14,000	SRA-2	13015 13016 13020 13021 13023 13025*	– – – – – –
2-3/4"	.020	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	1"	14,000	SRA-2	13281* 13282 13283 13284 13285 13286*	13253 13254 13255 13256 13257 13258
3-1/2"	.023	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF 1/2"-13 UNC 5/8"-11 UNC	7/8"	13,000	SRA-3	13150 13151 13152 13153 13155 13156*	13157 13158 13159 13160 13162 13163

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

Mighty-Mite® - Brushes For Small Angle Grinders

Removing slag from the edge of a flame-cut steel plate.

Crimped Wire Cup Brushes

For light to medium duty, general purpose applications.

Dia.	Wire Size	Arbor Hole	Trim Length	Max. RPM	Ref. Code	Part No.	
						Steel	Stainless
3"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF ½"-13 UNC 5/8"-11 UNC	1"	14,000	CRA-2	13240* 13241 13242 13243 13244 13245*	– – – – – –
3-½"	.014	M10 x 1.25 M10 x 1.50 M14 x 2.0 3/8"-24 UNF ½"-13 UNC 5/8"-11 UNC	7/8"	12,000	CRA-3	13175 13176 13177 13178 13180 13181*	13182 13183 13184 13185 13187 13188

*Available in Display Packaging. Add "P" to end of Item No. when placing order.

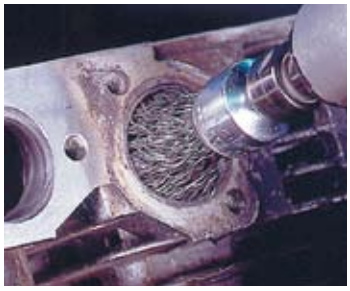
Crimped Wire Bevel Brushes

Aggressive cleaning action in corners.

Dia.	Wire Size	Arbor Hole	Face Width	Trim Length	Max. RPM	Ref. Code	Part No.
							Steel
3-3/8"	.0118	M10 x 1.25 ½" - 13 UNC 5/8"-11 UNC	½"	½"	12,500	BV-3	13091 13094 13095

Stem-Mounted Brushes - ¼" Stems

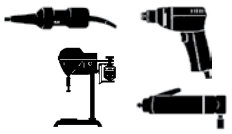
Weiler's Stem-Mounted Brushes are permanently mounted on ¼" steel stems, providing quick installation on chuck or collet. High RPM ratings provide faster finishing for the lowest cost-per-piece brushed.



Cleaning the exhaust port on a gasoline engine.

Applications

- Cleaning and finishing recessed areas or I.D.s
- Die, mold and tool cleaning and polishing
- Rubber and plastic flash removal
- Rust and paint removal
- Scale and slag removal
- I.D. pipe cleaning
- Carbon cleaning
- Weld cleaning
- Deburring
- Spot facing



Crimped Wire End Brushes - Solid End

For light duty, general purpose applications.

Dia.	Wire Size	Trim Length	Max. RPM	Ref. Code	Part No.	
					Steel	Stainless
½"	.006 .0104 .014 .020	7/8"	25,000	EBA-20	10001 10002 10003 10004	10013 10014 10015 10016
¾"	.006 .0104 .014 .020	7/8"	22,000	EBA-21	10005 10006 10007 10008*	10017 10018 10019 10020
1"	.006 .0104 .014 .020	1" 1-1/8"	22,000	EBA-22	10009 10010 10011 10012*	10021 10022 10023 10024

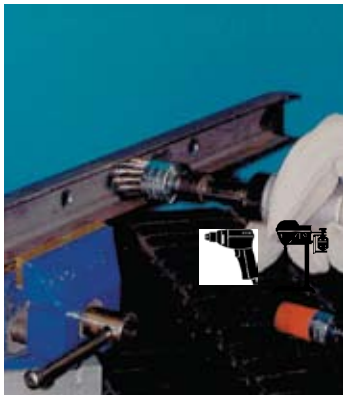
*Available in Display Packaging. Add "P" to end of Part No. when placing order.

Safety Tip For Mounting End Brushes

Mount the brush on the straight portion of the stem, not the curved portion.

End Brush Chucked Incorrectly

Stem-Mounted Brushes - ¼" Stems



Deburring edges of holes drilled in a C-channel.

Knot Wire End Brushes - Hollow End

Rugged knot-type construction provides aggressive, high-impact action for severe applications.

Dia.	Wire Size	Trim Length	Max. RPM	Ref. Code	Part No.	
					Steel	Stainless
¾"	.014	7/8"	22,000	EBB-40	10025*	10029
	.020				10026*	10030
1-1/8"	.014	7/8"	22,000	EBB-41	10027*	10031
	.020				10028*	10032

* Available in Display Packaging. Add "P" to end of Item No. when placing order.

Conflex Brushes - Narrow Face Crimped Wire Wheels

For light-duty brushing action.

Dia.	Wire Size	Face Width	Trim Length	Max. RPM	Ref. Code	Part No.	
						Steel	Stainless
2"	.006	3/8"	½"	20,000	CFX-2	17609	–
	.0118					17610	17611
3"	.008	½"	1"	20,000	CFX-3	17615	–
	.0118					17616	–
	.014					17617	17618

Conflex Brushes - Wide Face Crimped Wire Wheels.

Covers a broader surface area.

Dia.	Wire Size	Face Width	Trim Length	Max. RPM	Ref. Code	Part No.	
						Steel	Stainless
1-½"	.008 .0118	½"	½"	20,000	CFX-1-1/2	17603 17604	– –
2"	.0118	¾"	7/16"	20,000	CFX-2	17619	–
3"	.008 .0118 .014	1"	15/16"	20,000	CFX-3	17621 17622 17623	17637 – –

Knot Wire Wheels - Standard Twist

Rugged knot-type construction provides aggressive, high-impact action for severe applications.

Dia.	Wire Size	Face Width	Trim Length	Max. RPM	Ref. Code	Part No.
						Steel
3-¼"	.0118 .014 .020	3/8"	5/8"	25,000	STM-3	17680 17681 17682
4"	.0118 .014 .020	½"	7/8"	20,000	STM-4	17686 17687 17689

Crimped Wire Cup Brushes

For general purpose applications.

Dia.	Wire Size	Trim Length	Max. RPM	Ref. Code	Part No.
					Steel
1-¾"	.0118	¾"	13,000	UC-14	14301
2-¾"	.0118	7/8"	6,000	UC-22	14302

Power and Hand Tube Brushes

Crosshole deburring an aluminum manifold.

Applications

- Deburring and cleaning drilled holes and internal threads
- Cleaning and finishing internal diameters of pipes and tubes
- Deburring and cleaning internal keyways and grooves
- Carbon removal
- Crosshole deburring

Double Stem, Double Spiral

Use with power tools for heavy-duty cleaning and deburring.

Dia.	Wire Size	Brush Part	Stem Dia.	Overall Length	Ref. Code	Part No.	
						Steel	Stainless
5/8"	.008	2"	7/32"	5"	DS-5/8	21109	21119
¾"	.006 .008 .0104	2-½"	¼"	5-½"	DS-¾	21110 21247 21111	– – 21121
1"	.0104	2-½"	¼"	5-½"	DS-1	21115	–

Nylon Tube Brushes

Loop Handle, Straight Black Nylon Fill

Dia.	Fill Dia.	Brush Part	Stem Dia.	Overall Length	Ref. Code	Part No.
¼"	.005	2"	3/32"	6-¼"	NN-28	44110
3/8"	.005	2"	3/32"	6-¼"	NN-38	44213
½"	.010	3"	1/8"	8-½"	NN-48	44111
¾"	.012	3"	1/8"	8-½"	NN-68	44112
1"	.014	4"	5/32"	12-¼"	NN-88	44113
1-¼"	.014	4"	5/32"	13"	NN-128	44114
2"	.014	5"	3/16"	16-¾"	NN-168	44115

Power and Hand Tube Brush Selection Tips

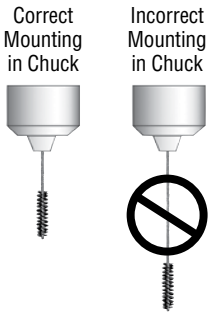
- A flat burrite style tube brush is most effectively used with a holder on blind, threaded holes.
- A round tube brush is most effectively used fully chucked on smooth or threaded blind holes.
- A single stem, single spiral tube brush is most effectively used for manual or hand cleaning applications.
- 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.

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.

Floor Brushes

Fine Sweeping

Lacquered hardwood block - For dust and fine dirt on smooth surfaces; tile, linoleum, wood.

- **Block size:** 24"
- **Trim:** 3"

Part No.42002- Black horsehair fill

Part No. 42002

Part No.42042- Flagged silver polystyrene fill (Not for use with sweeping compounds).

Part No. 42042

Maroon Polypropylene Fill

Lacquered hardwood block - For heavy, caked dirt and debris on concrete and other rough surfaces. Solvent, oil, chemical and liquid resistant. Wet or dry applications.

- **Block size:** 24"
- **Trim:** 3-1/4"

Part No.42026

Medium Sweeping

Lacquered hardwood block - For general purpose sweeping on semi-smooth surfaces; wood, smooth concrete.

- Black tampico fill
- **Block size:** 18" or 24"
- **Trim:** 3"

Part No.42007- 18"

Part No.42008- 24"

Economy Garage Brush

Lacquered Hardwood Block - Econoline brushes provide lasting, efficient service at minimal cost.

- Palmyra fill
- **Block size:** 18" or 24"
- **Trim:** 4"

Part No.25241- 18"

Part No.25242- 24"

Handles and Accessories

Quality hardwood handles with clear lacquer finish.

Wooden Handle / Threaded Tip

- Use with floor and garage brushes.
- **Diameter:** 15/16"
- **Length:** 60"

Part No.44018

Wooden Handle / Tapered Tip

- Use with masonry and roof brushes, street brooms, floor and deck scrubs and squeegees.
- **Diameter:** 1-1/8"
- **Length:** 60"

Part No.44020

Wooden Handle / Threaded Metal Tip

- Heavy-duty metal tip provides additional strength.
- **Diameter:** 15/16"
- **Length:** 60" or 72"

Part No.44300- 60"
Part No.44302- 72"

Handle Accessories

Steel brace that reinforces and locks handle to block. (Standard with sweeps 30" and larger)

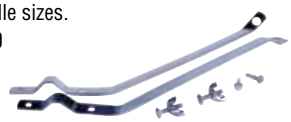
- Fits all handle sizes.

Part No.44021

Heavy-duty steel brace attaches to block with wood screws and wraps around handle.

- Increases life of the brush by providing extra support for handle and block.
- Fits all handle sizes.

Part No.44290



Heavy-duty steel brace (Part No. 44290) provides extra support.

Counter Dusters and Dust Pans

Horsehair Duster

Part No.	Fill Material	Trim Length	Brush Length	Block Type
44003	Horsehair	2-1/4"	8"	Wood

Synthetic Duster

Part No.	Fill Material	Trim Length	Brush Length	Block Type
25252	Black polystyrene	2-1/2"	8"	Wood

Natural Fiber Dusters

Part No.	Fill Material	Trim Length	Brush Length	Block Type
44004	Black tampico	2-1/2"	8"	Wood
25251	Tri-colored tampico			

Dust Pans

- Heavy-duty 20 gauge steel.
- Black enamel finish.

Part No.	Description	Width	Depth
71078	Shop dust pan – standard width	12"	13-1/2"
71079	Shop dust pan – extra wide	16"	15"

Miscellaneous Brushes

Vehicle Wash Brushes

Protective bumper - Foam block with two handle holes. Can be used with flow-through handle #44319.

Part No.	Block Size	Fill Material	Trim Length
44510	9-1/2" x 2-3/4"	Flagged white polystyrene	2-1/2"
73146		Flagged green polystyrene	

Utility Scrub Brushes - Wood block

For general scrubbing in factories, kitchens, institutions, etc.

Part No.	Overall Length	Fill Material	Trim Length
44013	8"	Yellow polypropylene	2"
44014		White tampico	
44016	20"	Yellow polypropylene	
44017		White tampico	

Masonry Brushes

Useful tools for applying cement, waterpaints and liquid waterproofing materials on cement block and other masonry walls. Handle attached.

Part No.	Block Size	Fill Material	No. of Rows	Trim Length
44032	7"	White tampico	2	3-1/4"
44031	6-1/2"		4	3-1/2"
44448	6-1/2"		5	4"

Whitewash Brush

Two tapered handle holes allow user to choose the correct brush angle needed.

Part No.	Block Size	Fill Material	Trim Length	No. of Rows
44034	7"	White tampico	2-5/8"	2

Tube Fitting and Parts Cleaning Brushes

Internal Tube Fitting Brushes - Wire Fill

For internal cleaning and deburring of copper tube fittings. Also used in trucking and marine industries as a light socket cleaning brush.

- **Brush Length:** 1"
- **Handle Length:** 3-1/4"
- **Overall Length:** 6-1/2"

Part No.	Ref. Code	Diameter	
		Brush	Tube
44078	CF-18	1/4"	1/8"
44079	CF-28	3/8"	1/4"
44080	CF-38	1/2"	3/8"
44081	CF-48	5/8"	1/2"
44082	CF-58	3/4"	5/8"
44083	CF-68	7/8"	3/4"
44084	CF-78	1"	7/8"
44085	CF-88	1-1/8"	1"
44086	CF-128	1-3/8"	1-1/4"
44087	CF-148	1-5/8"	1-1/2"

Parts Cleaning Brushes

Stainless Steel ferrule - Heavily filled. Chisel trim, plain foam, round sash handle.

- **Fill material:** Nylon or tampico.
- **Diameter:** 1"
- **Bristle Length:** 2-3/4"

Part No. 40035- Nylon
Part No. 40036- Tampico

Steel Ferrule- chisel trim, plain foam, round sash handle,
Economy brushes provide lasting, efficient service at minimal cost.

- **Fill material:** Tampico.
- **Diameter:** 1"
- **Bristle Length:** 2-3/4"

Part No. 25222- Tampico

Acid/Flux Brushes

Horsehair - Tin ferrule

- **Trim Length:** 3/4"
- **Overall Length:** 5-3/4"

Part No.	Ref. Code	Width
44088	AB-1	5/16"
44089	AB-2	3/8"
44090	AB-3	1/2"

Varnish Brushes

Part No.	Width	Thickness	Bristle Length
Black China Bristle - Blue foam handle, nickel ferrule			
40000	1"	7/16"	2"
40002	2"	9/16"	2-1/2"
40004	3"	11/16"	2-1/2"
40010	4"		
Poly/Nylon - Red foam handle, brass ferrule			
40058	1"	7/16"	2-1/4"
40059	2"	3/4"	2-3/4"

Chip & Oil Brushes

Grey China Bristle w/ plastic handle

Chip & Oil Brushes are inexpensive, multi-purpose brushes for use in applications requiring disposable brushes.

Part No.	Width	Thickness	Bristle Length	Std Pkg
40026	1/2"	1/4"	1-5/8"	36
40027	1"	5/16"	1-11/16"	
40028	1-1/2"	5/16"	1-11/16"	24
40029	2"			
40030	2-1/2"	3/8"	1-11/16"	12
40031	3"			
40032	4"	11/16"	2-1/4"	12

Economy Chip & Oil Brushes

White Bristle w/ wooden handle

Economy brushes provide lasting, efficient service at minimal cost.

Part No.	Width	Thickness	Bristle Length	Std Pkg
40065	1/2"	5/16"	1-3/4"	30
40066	1"			
40067	1-1/2"			
40068	2"	5/16"	1-3/4"	20
40069	2-1/2"	3/8"		
40070	3"	3/8"	1-3/4"	10
40071	4"	5/8"	2"	

Weiler's Wall, Varnish and Sash Brushes come in a wide variety of sizes and materials to fill all applications.

Scratch Brushes

Curved Handle Scratch Brushes

Hardwood Handles - For all types of dirt and rust removal.
Ideal for removing rust, scale and paint from metal surfaces.

Block Size	Brush Length	No. of Rows	Trim Length	Ref. Code	Part No.
Steel wire (.012 diameter)					
14" x 7/8"	5-½"	3 x 19	1-3/16"	CH-39	44053
14" x 1-1/8"	6"	4 x 18	1-3/16"	CH-48	44056
Steel wire with scraper (.012 diameter)					
14" x 7/8"	5-½"	3 x 19	1-3/16"	CH-39SC	44055
14" x 1-1/8"	6"	4 x 18	1-3/16"	CH-48SC	44058
Stainless steel wire (.012 diameter)					
14" x 7/8"	5-½"	3 x 19	1-3/16"	CH-39SS	44054
14" x 1-1/8"	6"	4 x 18	1-3/16"	CH-48SS	44057

Curved Handle Scratch Brushes

Economy brushes provide lasting, efficient service at minimal cost.

Block Size	Brush Length	No. of Rows	Trim Length	Ref. Code	Part No.
Steel wire (.012 diameter)					
13-½" x 1"	6"	3 x 19	1"	ECH-39	25150
14" x 1-1/8"	6"	4 x 18	1"	ECH-48	25201
Stainless steel wire (.012 diameter)					
13-½" x 1"	6"	3 x 19	1"	ECH-39SS	25154
14" x 1-1/8"	6"	4 x 18	1"	ECH-48SS	25202

Shoe Handle Scratch Brushes

Hardwood Handles - For removing dirt
and rust from pipe threads, welds and metal castings.

Block Size	Brush Length	No. of Rows	Trim Length	Ref. Code	Part No.
Steel wire (.012 diameter)					
10" x 5/8"	5"	2 x 17	1-3/16"	SH-26	44061
10" x 1-1/8"	5"	4 x 16	1-3/16"	SH-46	44063
11"	5"	4 x 16	1-3/16"	SH-46	73217•
Stainless steel wire (.012 diameter)					
10" x 3/8"	5"	1 x 17	¾"	SH-15SS	44235
10" x 5/8"	5"	2 x 17	1-3/16"	SH-26SS	44062
10" x 1-1/8"	5"	4 x 16	1-3/16"	SH-46SS	44064
11"	5"	4 x 16	1-3/16"	SH-46SS	44299•

• Plastic handle

Shoe Handle Scratch Brushes

Economy brushes provide lasting, efficient service at minimal cost.

Block Size	Brush Length	No. of Rows	Trim Length	Ref. Code	Part No.
Steel wire (.012 diameter)					
10" x 1"	5"	4 x 16	1"	ESH-46	25100
Stainless steel wire (.012 diameter)					
10" x 1"	5"	4 x 16	1"	ESH-46SS	25104

Small Hand Scratch Brushes

Block Size	Fill Material	Handle	No. of Rows	Trim Length	Ref. Code	Part No.
7-½" x ½"	.006 Stainless steel	Plastic	3 x 7	½"	BH-37-SS	44075
	.006 Stainless steel	Wood			BH-37-SS	44167
	.006 Straight brass	Wood			BH-37-B	44189
	.012 Straight black nylon	Wood			BH-37-N	44637
8-3/4" x ½"	.006 Stainless steel	Wood	2 x 9	5/8"	SA-29-SS	95013
	.008 Crimped brass	Wood			SA-29-B	95014
	.008 Crimped aluminum	Wood			SA-29-A	44251
6" x ½"	.005 Crimped brass	Wood	3 x 10	5/8"	SB-310	44619
6-½" x ½"	.010 Straight black nylon	Plastic	4 x 15	½"	UT-45	99383

Scratch Brushes

Heavy-Duty Scratch Brush with Scraper

Steel wire (.012 diameter)

Block Size	Brush Length	No. of Rows	Trim Length	Ref. Code	Part No.
11-½" x 1-½"	5-½"	4 x 11	1-½"	SC-41	44069

Butcher Block Brushes

For cleaning concrete forms and green concrete after forms have been removed.

Block Size	Brush Part	Fill Material	No. of Rows	Trim Length	Ref. Code	Part No.
7-½" x 2-¾"	7"	.017 x .110 Flat wire	5 x 10	1-¼"	B-51	44073

Heavy-Duty Scratch Brush with Scraper

Steel wire (.012 diameter) Economy brushes provide lasting, efficient service at minimal cost.

Block Size	Brush Length	No. of Rows	Trim Length	Ref. Code	Part No.
11-½" x 1-½"	5"	4 x 11	1-5/8"	ESC-41	25211

Chipping Hammer Refill

A refill brush for most chipping hammers. Used for weld cleaning.

Block Size	Brush Part	Fill Material	No. of Rows	Trim Length	Ref. Code	Part No.
4-5/8" x 7/8"	4-½"	.012 steel	3 x 15	1-1/8"	WC-35	44070

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	No. of Rows	Trim Length	Ref. Code	Part No.
Fill material: stainless steel					
13" x 7/8"	5-½"	3 x 19	1"	PCH-39	44660
10" x 1-1/8"	5"	4 x 18	1"	PCH-46	44240
13" x 1-1/8"	5-½"	4 x 19	1"	PCH-48	44232
Fill material : brass					
13" x 7/8"	5-½"	3 x 19	1"	PCH-39-B	44118
10" x 1-1/8"	5"	4 x 18	1"	PSH-46-B	44119

Wire Duster - 5-¾" long handle

For cleaning chips, borings, solder, rust, dirt and corrosion from castings.

Block Size	Fill Material	No. of Rows	Trim Length	Ref. Code	Part No.
3" x 1-1/8"	.012 steel	4 x 8	2-½"	WB-3W	44451

Metal Chip Brush

Small stiff wire brush for brushing hot metal. Can be exposed to flames without burning.

Overall Length	Fill Material	Trim Length	Face Width	Ref. Code	Part No.
5-½"	.012 steel	1-½"	1-¼"	LH-2	44074

Paint Rollers & Accessories

Paint Roller Selection Guide

Recommended Nap	Work Surface Material	Coating
3/16", 3/8" (Low nap)	Metal, smooth wood, smooth concrete	Enamels, epoxies, adhesives, paint
½",¾" (Medium nap)	Rough wood, drywall, cement block	All paint
1", 1-¼" (High nap)	Stucco, brick, concrete	All paint

Industrial Grade Rollers

Poly blend with PVC core.

Size	Nap	Painting Surface	Part No.
3"	3/8"	Semi-smooth	49046
4"	¾"	Rough	49045
9"	½"	Semi-smooth	49062
9"	¾"	Rough	49063

Economy Roller

Poly blend with treated paper core.

Size	Nap	Painting Surface	Part No.
9"	3/8"	Semi-smooth	49070

Frames

All metal with two plastic caps.
Solid plastic handle with threaded grip.

Size	Description	Part No.
3"	Standard-duty ¼" diameter frame with 4 wire cage	49019
4"	Standard-duty ¼" diameter frame with 4 wire cage	49018
9"	Standard-duty ¼" diameter frame with 4 wire cage	49020
9"	Heavy-duty 5/16" diameter frame with 5 wire cage	49022

Specialty Rollers

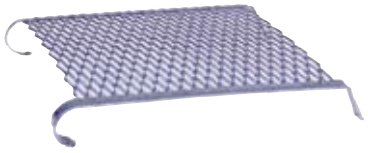
Can be used with all paints. Ideal for trim and touch-up.

Description	Part No.
3" Roller with 3/8" nap.  Wire frame with two tin end caps. Bent wire handle	49015
4" Pipe roller with 3/8" nap 	49024

Paint Trays

Description	Part No.
9" Galvanized steel tray; (2 qt. capacity), rust resistant	49010

Bucket Grid



Permits use of paint roller directly from 5-gallon pail.

Description	Part No.
Heavy steel - 5 gallon size	49007

Painter's Mitt

Can be used with all types of paint. Made of lint-free synthetic with protective plastic liner. Use on pipes, rails, fences and hard-to-reach areas.

Description	Part No.
Painter's Mitt	49005