



BONDED ABRASIVES

PERFORMANCE YOU EXPECT

Weiler's line of bonded abrasives deliver consistency and performance to Metal Fabrication professionals. This high quality line includes cutting, grinding and combination wheels that are available in performance tiers, offering a choice between long life, fast cut, or both.

Weiler raised the bar by adding two new products to it's bonded abrasives line. Tiger[®] ULTRACUT wheels deliver unmatched cutting performance with a TRUE 1 millimeter profile. Tiger Ceramic maximizes your time on the job with a superior combination of life and cut rate for maximum productivity.

Technical Information	10-13
Cutting Wheels	14-17
Grinding Wheels	18-19
Cup Rocks	19
Combo Wheels	20-21
Pipeline Wheels	21

UNCAGED AND READY TO ATTACK

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



SUPERIOR LIFE & CUT MAX PERFORMANCE TIGER CERAMIC

Maximize your time on the job with a superior combination of life and cut rate for maximum productivity. Self-sharpening and cool cutting, Ceramic grain removes material effortlessly while a hard bond keeps working longer.

CUT RATE: ●●●●●●
LIFE: ●●●●●●

LONG LIFE & FAST CUT HIGH PERFORMANCE ZIRC / INOX / ROUGHNECK

High Performance Tiger wheels cut faster and last longer so you get proven productivity at an exceptional total cost. This line up is designed for hard core Metal Fabrication professionals who need the best solution for the toughest jobs.

CUT RATE: ●●●●●●
LIFE: ●●●●●●

LONG LIFE PERFORMANCE LINE TIGER

Weiler Tiger wheels deliver the right combination of performance and value. This versatile line up offers a long life solution for all your general purpose applications.

CUT RATE: ●●●●●●
LIFE: ●●●●●●

FAST CUT VALUE LINE WOLVERINE

Weiler Wolverine cutting and grinding wheels deliver a fast cut rate and consistent performance at a good value. Wolverine is an aggressive, get it done product line for every day general purpose use.

CUT RATE: ●●●●●●
LIFE: ●●●●●●

All products meet ANSI B7.1-2010.

Key:

P PERFORMANCE LINE
Industrial Grade

V VALUE LINE
Professional Grade

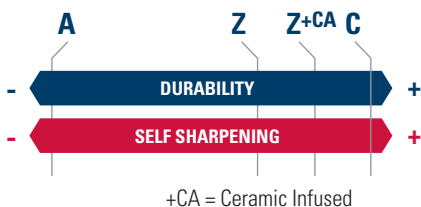
FEATURES & BENEFITS

	MAX PERFORMANCE	HIGH PERFORMANCE	PERFORMANCE	VALUE
Cool cutting Ceramic grains grind at lower temperatures and with less friction, reducing heat discoloration of the work piece.	✓			
Thin and ultra thin wheels deliver lightning fast, accurate, clean cuts.	✓	✓	✓	✓
Smooth outer layer on cutting wheels reduces friction which translates to an effortless cut and less kickback.	✓	✓	✓	
Self-sharpening grain retains high cutting performance throughout the life of the wheel.	✓	✓		
Strong resin bond delivers a long cutting life that keeps professionals productive.	✓	✓	✓	
Ceramic Infusion in select grinding & combo wheels delivers faster grinding with less effort.	✓	✓		
Cut back provides instant aggressive grinding on new wheels.	✓	✓	✓	
Contaminant-free INOX provides a worry free solution for stainless steel.	✓	✓		
Roughneck Pipeline wheels are specifically designed for demanding notching applications without removing excess material.		✓		
Reinforcement rings strengthen the arbor hole and provide a smooth mounting surface.	✓	✓	✓	✓
Small hub on 4-1/2" wheels increase cutting area by 30%.	✓	✓	✓	✓

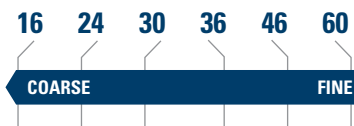
GRAIN / GRIT / GRADE

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

Grain



Grit



Hardness



THICKNESS

		T 1	T 27	T 28
ULTRA THIN CUTTING	.035	✓		
	1 MM	✓		
THIN CUTTING	.045	✓	✓	
	.060	✓	✓	
CUTTING	1/16	✓		
	3/32	✓	✓	
PIPELINE & COMBO	1/8		✓	
	1/4		✓	✓



SELECTION GUIDE

PERFORMANCE

SUPERIOR LIFE & CUT

LONG LIFE & FAST CUT

LONG LIFE

FAST CUT



TIGER CERAMIC

Self-sharpening and cool cutting, Ceramic grain removes material effortlessly while a hard bond keeps working longer.

TIGER ZIRC

Self-sharpening Zirconia grain retains high cutting performance through the life of the wheel.

TIGER INOX

A contaminant-free bond that delivers a worry-free solution for stainless steel applications.

ROUGHNECK

Ceramic infused wheels designed for tough applications on the pipeline.

TIGER

Aluminum Oxide grains and a strong resin bond delivers a long cutting life that keeps professionals on the job longer.

WOLVERINE

Weiler Wolverine cutting and grinding wheels deliver a fast cut rate and consistent performance at a great value.

MATERIAL

Tool Steel, Inconel, High Nickel Alloy, Titanium, and Armored Steel

Carbon Steel, Structural Steel, and Cast Iron

Stainless Steel, and harder Steel grades

Pipeline

Carbon Steel, Structural Steel, Cast Iron, and general purpose metal use

Carbon Steel, Cast Iron, and general purpose metal use

SIZE

2"

3"

4"

4.5"

5"

6"

7"

9"

12"

14"

DIE GRINDERS
1/4" & 3/8" Arbor



GRINDERS
5/8" Arbor

ANGLE GRINDERS
7/8" Arbor or 5/8"-11 Nut



SAWS
1" Arbor



TYPE

Selecting the best wheel type for your application increases wheel effectiveness and user productivity.

CUTTING

Type 1
(Flat)



Flat profile allows for deep cuts

Type 27
(Depressed Center)



Added clearance when working at a constrained angle

Type 27
(Depressed Center)



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

GRINDING

Type 28
(Depressed Center)



Designed for increased aggression at lower working angles and increased access

Type 11
(Cup Rock)



Excellent for snagging and rough stock removal applications

APPLICATION

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

ULTRA THIN WHEEL
1MM

THIN WHEEL
.045"

THIN WHEEL
.060"

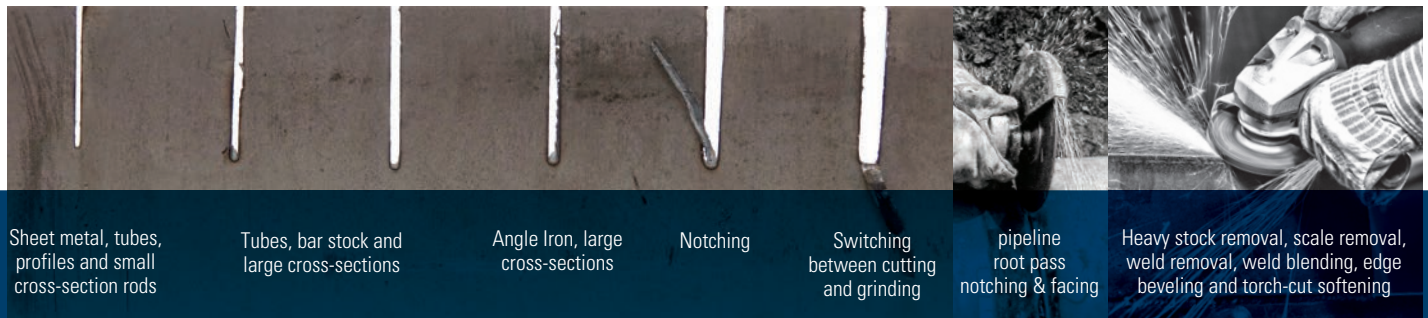
CUTTING WHEEL
3/32"

CUTTING WHEEL
1/8"

COMBO WHEEL
1/8"

PIPELINE WHEEL
1/8"

GRINDING WHEEL
1/4"



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

Tubes, bar stock and large cross-sections

Angle Iron, large cross-sections

Notching

Switching between cutting and grinding

pipeline root pass notching & facing

Heavy stock removal, scale removal, weld removal, weld blending, edge beveling and torch-cut softening



REDUCING VIBRATION

Excessive vibration binds the wheel and makes it difficult to control through the cut.

Check the mounting/clamping point. Ensure that the work piece is clamped securely and as close as possible to the mounting point or vice to allow safe and adequate clearance of the tool, guard and hands.



PUSH VERSUS PULL

Weiler's Tiger grinding wheels are instantly aggressive out of the box. When possible, it is most effective to begin grinding on the pull stroke. This will minimize the risk of undercutting or gouging.

It is common to use more pressure through the push stroke and less pressure during the pull stroke. The most efficient grinding technique requires consistent pressure in both directions. Do not use excessive pressure in either direction and allow the grains to do the work. Overpowering a grinding disc will NOT increase cut rate and WILL break down at a faster rate, reducing disc life.



CUTTING ANGLE IRON OR SQUARE TUBING

When clamping angle iron on a table or bench, it is important to fix the piece with the corner perpendicular to the table. When clamping in a vise, the preferred approach is from the corner.

When cutting material with larger surface area like square tubing or angle iron, beginning the cut from a corner reduces friction and will minimize kick-back. After allowing the tool to reach full speed, engage the piece from the corner and work the wheel through the material using consistent pressure. Use light to moderate pressure to work through the cut being careful not to plunge the wheel too deeply into the tube. Depth of cut will depend on wall thickness.



ROUND BAR AND ROUND TUBE

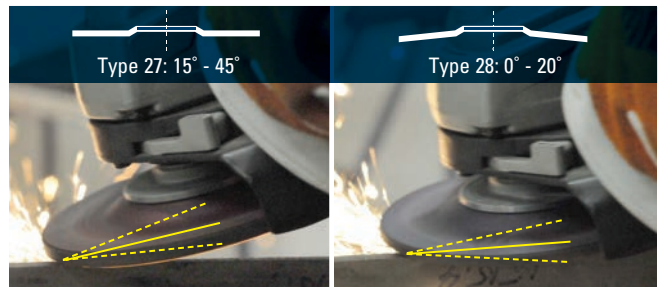
Cutting round bar stock or tubing, is easier since the countered surface provides the same contact surface regardless of angle. Applying light to moderate pressure and consistent movement will provide the most efficient cut and minimize heat build-up.



HEAT DISCOLORATION

Heat is the enemy of any abrasive. To minimize discoloration, use a smooth, consistent rocking motion through the cut.

Approach from the corner and use light pressure and a consistent motion through the cut for the fastest cut-rate and prolonged wheel life. Applying too much pressure through the cut causes increased friction and heat build-up. This can cause increased heat discoloration of the work piece and reduced wheel life.



GRINDING ANGLES

The optimal grinding angle for a 1/4" Type 27 grinding wheel is between 15 and 30 degrees. Generally speaking, the steeper the grinding angle, the more aggressive the cut. Grinding at lower angles can prolong life, but will compromise cut rate. When grinding shallow on harder materials, chatter and vibration can become a factor.

When lower grinding angles are required, consider a Type 28 grinding wheel. Its unique saucer profile provides increased aggression at lower grinding angles while also allowing access in tighter areas, such as corners, fillets, and overhangs.

CUTTING WHEELS



Cutting a v-groove in bar stock with a Tiger Cutting Wheel.

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

FEATURES:

- **Ultracut 1MM cutting wheels** deliver lightning fast, super smooth, clean cuts.
- **Thin cutting** wheels deliver accurate, clean cuts.
- **Dual reinforcement** provides added strength for aggressive cutting.
- **Contaminant-free INOX** wheels provide a worry free solution for stainless steel applications.
- **Smooth outer layer** on performance cutting wheels reduces friction that translates to an effortless cut and less kickback during operation.

TYPE 1 FOR GRINDERS



58006

NEW!

P

TIGER ZIRC ULTRACUT 1MM THIN CUTTING WHEELS / Fast Cut & Long Life on Metal

Self-sharpening Zirconia Alumina grain that retains a high cut rate throughout the life of the wheel so you get exceptional performance on thin gauge and small diameter steel and stainless steel applications.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 7/8" Arbor	
				Std. Pack	Item #
4-1/2"	1 MM	Z60T	13,300	50	58005
5"	1 MM	Z60T	12,200	50	58006



58131

NEW!

P

TIGER INOX ULTRACUT 1MM THIN CUTTING WHEELS / Contaminant-Free* for Stainless

INOX wheels are specifically designed for high performance on thin gauge and small diameter STAINLESS STEEL. These wheels incorporate a Contaminant-free bond that delivers a worry free solution for stainless steel applications.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 7/8" Arbor	
				Std. Pack	Item #
4-1/2"	1 MM	INOX60T	13,300	50	58130
5"	1 MM	INOX60T	12,200	50	58131

*Contaminant-Free, Contains ≤ .1% Fe, S, Cl

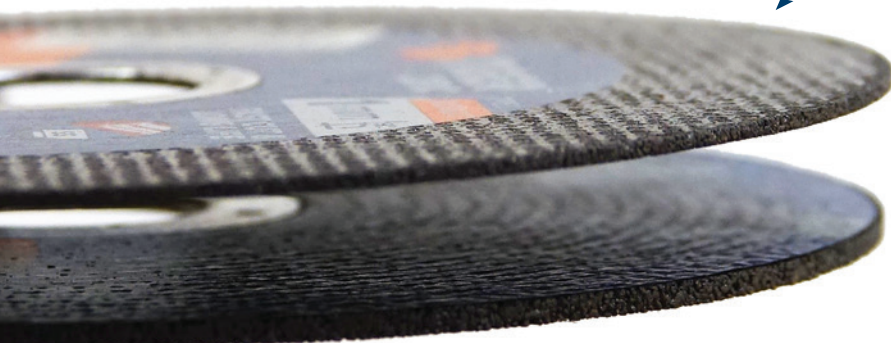
CUTS
20%
FASTER
than the closest
competitor

PROPRIETARY
SOLID
CORE
TECHNOLOGY

increases wheel density,
resulting in longer life,
reduced friction, &
superior stability

A TRUE
1MM
THICKNESS

delivers precise, consistent
cuts you can count on



TRUE
1 MILLIMETER

STANDARD
.045"

TYPE 1 & 27 FOR GRINDERS

NEW!

P TIGER CERAMIC CUTTING WHEELS / Ceramic Alumina / Superior Life & Cut on Metal
 Self-sharpening Ceramic Alumina grain delivers a superior combination of life and cut rate. Ideal for stainless steel and other hard-to-cut metals.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 7/8" Arbor		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	.045"	CER60S	13,300	25	58300	25	58305	10	58306
5"	.045"	CER60S	12,200	25	58301	25	58307	10	58308
6"	.045"	CER60S	10,200	25	58302	25	58309	10	58310
7"	.060"	CER60S	8,500	25	58303	25	58311	10	58312

*Contaminant-Free, Contains ≤ .1% Fe, S, Cl



58302



58306

P TIGER ZIRC CUTTING WHEELS / Zirconia Alumina / Fast Cut & Long Life on Metal
 High performance wheels leverage a self-sharpening Zirconia Alumina grain that retains a high cut rate throughout the life of the wheel so you get maximum productivity on steel and stainless steel.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 7/8" Arbor		TYPE 27 7/8" Arbor	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	.045"	Z60T	13,300	25	58000	25	58020
5"	.045"	Z60T	12,200	25	58001	25	58021
6"	.045"	Z60T	10,200	25	58002	25	58022
7"	.060"	Z60T	8,500	25	58003	25	58023



58000

P TIGER INOX CUTTING WHEELS / White Aluminum Oxide / Contaminant-Free* for Stainless
 INOX wheels are specifically designed for high performance on STAINLESS STEEL. These wheels incorporate a Contaminant-free bond that delivers a worry free solution for stainless steel applications.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 7/8" Arbor		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	.045"	INOX60S	13,300	25	58100	25	58110	10	58109
5"	.045"	INOX60S	12,200	25	58101	25	58111	—	—
6"	.045"	INOX60S	10,200	25	58102	25	58112	10	58113
7"	.060"	INOX60S	8,500	25	58103	25	58107	—	—

*Contaminant-Free, Contains ≤ .1% Fe, S, Cl



58112

P TIGER CUTTING WHEELS / Premium Aluminum Oxide / Long Life on Metal
 Premium Aluminum Oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performance.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 7/8" Arbor		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	.045"	A60T	13,300	25	57020	25	57041	10	57040
	1/16"	A36T		25	57061	—	—	—	—
	3/32"	A36S		—	—	25	57081	10	57080
5"	.045"	A60T	12,200	25	57021	25	57043	10	57042
	3/32"	A36S		—	—	25	57083	10	57082
6"	.045"	A60T	10,200	25	57022	25	57045	10	57044
7"	.060"	A60T	8,500	25	57023	25	57046	—	—
9"	1/16"	A60T	6,600	—	—	25	57047	—	—



57022



57080

WHY WEILER

BONDED ABRASIVES

COATED ABRASIVES

NON-WOVEN ABRASIVES

POWER BRUSHES

NYLON BRUSHES

PACKAGED ITEMS

MAINTENANCE

TYPE 1 FOR GRINDERS

V WOLVERINE CUTTING WHEELS / Aluminum Oxide / Fast Cutting on Metal

Fast cut rate and consistent performance at a good value for everyday, general purpose use on metal.



56385



56476

Dia.	Thick	Grade	Max. RPM	TYPE 1 7/8" Arbor		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item #	Std. Pack	Item #	Std. Pack	Item #
4-1/2"	.045"	A60T	13,300	50	56281	—	—	—	—
	.045"	A60S		—	—	25	56393	—	—
	1/16"	A60T		50	56103	—	—	—	—
	3/32"	A24T		—	—	25	56475	10	56385
5"	.045"	A60S	12,200	—	—	100	56392	—	—
	1/16"	A36T		100	56118	—	—	—	—
	3/32"	A24T		—	—	25	56476	10	56384
6"	.040"	A60T	10,200	25	56282	—	—	—	—
	.045"	A60T		25	56273	—	—	—	—
	.045"	A60S		—	—	25	56283	—	—
	3/32"	A24R		—	—	25	56277	10	56278
7"	.045"	A60T	8,500	25	56275	—	—	—	—
	.060"	A60S		—	—	25	56391	—	—
	3/32"	A24R		—	—	25	56383	10	56477
9"	1/8"	A24T	6,600	—	—	—	—	10	56423

TYPE 1 FOR DIE GRINDERS

P TIGER CUTTING WHEELS / Premium Aluminum Oxide / Long Life on Metal

Premium Aluminum Oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performance.



57001

Diameter	Thickness	Grade	Max. RPM	TYPE 1 3/8" Arbor	
				Std. Pack	Item#
3"	.035"	A60T	25,000	100	57001 ◆
	1/16"	A36T		—	57060

◆ Super Thin Wheel

V WOLVERINE CUTTING WHEELS / Aluminum Oxide / Fast Cutting on Metal

Fast cut rate and consistent performance at a good value for everyday, general purpose use on metal.



56013



56062

Diameter	Thickness	Grade	Max. RPM	TYPE 1 1/4" Arbor		TYPE 1 3/8" Arbor		TYPE 1 5/8" Arbor	
				Std. Pack	Item#	Std. Pack	Item #	Std. Pack	Item #
2"	.035"	A60T	30,000	100	56013 ◆	—	—	—	—
	1/16"	A36T		50	56015	—	—	—	—
3"	.035"	A60T	25,000	100	56061 ◆	100	56062 ◆	—	—
	1/16"	A36T		100	56065	100	56068	—	—
	1/16"	A60T		—	—	100	56070	—	—
	1/8"	A36T		50	56076	—	—	—	—
4"	.035"	A60T	19,000	—	—	50	56080 ◆	50	56271 ◆
	3/32"	A24T		—	—	—	—	25	56474
	1/16"	A36T	15,200	—	—	50	56086	—	—
	1/8"	A36T		—	—	50	56099	—	—
5"	.035"	A60T	12,200	—	—	—	—	100	56108 ◆

◆ Super Thin Wheel

"Cuts fast and it really holds up."

- Louis V., Pipe Fabricator, Texas

WHY WEILER

BONDED ABRASIVES

COATED ABRASIVES

NON-WOVEN ABRASIVES

POWER BRUSHES

NYLON BRUSHES

PACKAGED ITEMS

MAINTENANCE

TYPE 1 FOR CHOP SAWS / STATIONARY SAWS

P **TIGER LARGE CUTTING** / Aluminum Oxide / Long Life on Metal
Premium Aluminum Oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performance.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 1" Arbor	
				Std. Pack	Item#
12"	3/32"	A36T	5,100	25	57090
14"	1/8"	A30R	4,400	10	57091*
	3/32"	A36T			57092
		A36R			57093 ◆



57090

*Recommended for Stationary Saws only. ◆ Softer bond for smoother, faster cutting.

V **WOLVERINE LARGE CUTTING** / Aluminum Oxide / Fast Cutting on Metal
Fast cut rate and consistent performance at a good value for everyday, general purpose use on metal.



Diameter	Thickness	Grade	Max. RPM	TYPE 1 1" Arbor	
				Std. Pack	Item#
For Chop Saws					
12"	3/32"	A46T	5,100	25	56239
14"	3/32"	A46T	4,400	10	56240
For Stationary Saws					
14"	1/8"	A30R	4,400	10	56230



56239

ACCESSORIES

ADAPTING NUTS & SPANNER WRENCH For 4-1/2" - 9" Angle Grinders.

Description	Adapts To	Min. Wheel Thickness	Standard Pack	Item Number
Adapting Nuts	7/8" to 5/8"-11	1/16"	1	56494
Spanner Wrench	-	-	1	56495
Adapting Nuts	5/8" to 3/8"-24	1/16"	1	56484



56494

56495

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

Arbor Size	Wheel Thickness	Standard Pack	Item Number
1/4"	.035" to 1/4"	10	56489
3/8"	.035" to 1/4"	10	56490
1/4", 3/8" *	.035" to 1/4"	10	56491*
1/4", 3/8"	.035" to 1/4"	1	36512



56489

*Combination pack

GRINDING WHEELS



Grinding on a platform for weld preparation.

Weiler's high quality line of grinding wheels help Metal Fabrication professionals get the most demanding jobs done right and done fast.

FEATURES:

- **Ceramic Infused** grinding wheels deliver the fastest cutting with the least effort.
- **Triple Fiberglass Reinforcement** provides added strength for aggressive stock removal.
- Type 27 Grinding Wheels are designed with fiberglass **cut back** from the edge to provide instant aggressive grinding on new wheels.

TYPE 27 FOR GRINDERS

NEW!

P

TIGER CERAMIC GRINDING WHEELS / Ceramic Alumina / Superior Life & Cut on Metal
Self-sharpening Ceramic Alumina grain delivers a superior combination of life and cut rate. Ideal for stainless steel and other hard-to-grind metals.



58330

Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/4"	CER24R	13,300	10	58325	10	58326
5"	1/4"	CER24R	12,200	10	58327	10	58328
6"	1/4"	CER24R	10,200	10	58329	10	58330
7"	1/4"	CER24R	8,500	10	58331	10	58332
9"	1/4"	CER24R	6,600	10	58333	10	58334

*Contaminant-Free, Contains ≤ .1% Fe, S, Cl

P

TIGER ZIRC GRINDING WHEELS / Zirconia Alumina / Ceramic Infused for Faster, Longer Grinding
High performance wheels leverage a self-sharpening Zirconia Alumina grain that delivers fast, consistent grinding on steel and stainless. All wheels are Ceramic Infused for that extra surge in performance.

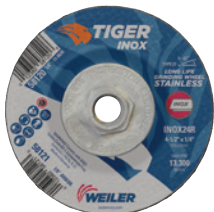


58073

Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/4"	Z24T	13,300	10	58071	10	58070
5"	1/4"	Z24T	12,200	10	58073	10	58072
6"	1/4"	Z24T	10,200	10	58079	10	58078
7"	1/4"	Z24T	8,500	10	58075	10	58074
9"	1/4"	Z24T	6,600	10	58077	10	58076

P

TIGER INOX GRINDING WHEELS / White Aluminum Oxide / Contaminant-Free* for Stainless Steel
INOX wheels are specifically designed for high performance on STAINLESS STEEL. These wheels incorporate a Contaminant-free bond that delivers a worry free solution for stainless steel applications.



58120

Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/4"	INOX24R	13,300	10	58121	10	58120
5"	1/4"	INOX24R	12,200	10	58123	10	58122
6"	1/4"	INOX24R	8,500	10	58125	10	58124
9"	1/4"	INOX24R	6,600	10	58127	10	58126

*Contaminant-Free, Contains ≤ .1% Fe, S, Cl

P

TIGER GRINDING WHEELS / Premium Aluminum Oxide / Long Grinding Life on Metal
Weiler Tiger grinding wheels deliver the right combination of performance and value. Premium Aluminum Oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performance.



57120

Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/4"	A24R	13,300	10	57121	10	57120
5"	1/4"	A24R	12,200	10	57123	10	57122
6"	1/4"	A24R	10,200	10	57129	10	57128
7"	1/4"	A24R	8,500	10	57125	10	57124
9"	1/4"	A24R	6,600	10	57127	10	57126

V **WOLVERINE GRINDING WHEELS** / Aluminum Oxide / Fast Grinding on Metal 0-45°

Fast grinding and consistent performance at a good value for everyday, general purpose use on metal.

Diameter	Thickness	Grade	Max. RPM	TYPE 27 5/8" Arbor		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #	Std. Pack	Item #
4"	1/4"	A24R	15,200	25	56473	—	—	—	—
4-1/2"	1/4"	A24R	13,300	—	—	25	56464	10	56454
4-1/2"	1/4"	A24N	13,300	—	—	25	56457	10	56455
5"	1/4"	A24R	12,200	—	—	25	56466	10	56449
6"	1/4"	A24R	10,200	—	—	25	56280	10	56279
7"	1/4"	A24R	8,500	—	—	25	56467	10	56468
9"	1/4"	A24R	6,600	—	—	—	—	10	56470



56279

**TYPE 28
FOR GRINDERS**

NEW!

P **TIGER ZIRC GRINDING WHEELS** / Zirconia Alumina / Ceramic Infused for Faster, Longer Grinding 0-45°

High performance wheels allow for aggressive grinding at lower angles with reduced interference. All wheels leverage a self-sharpening Zirconia Alumina grain and are Ceramic Infused for that extra surge in performance.

Diameter	Thickness	Grade	Max. RPM	TYPE 28 7/8" Arbor		TYPE 28 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
7"	1/4"	Z24T	8,500	10	58081	10	58080
9"	1/4"	Z24T	6,600	10	58083	10	58082



58081

NEW!

P **TIGER GRINDING WHEELS** / Premium Aluminum Oxide / Long Grinding Life on Metal 0-45°

Tiger grinding wheels allow for aggressive grinding at lower angles with reduced interference. Premium Aluminum Oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performance.

Diameter	Thickness	Grade	Max. RPM	TYPE 28 7/8" Arbor		TYPE 28 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
7"	1/4"	A24R	8,500	10	57135	10	57134
9"	1/4"	A24R	6,600	10	57137	10	57136



57134

**TYPE 11
CUP ROCKS**

P **TIGER CUP ROCKS** / Premium Aluminum Oxide / Steel Back 0-15°

Premium Aluminum Oxide grains provide an even, sharp, clean cut and a hard bond extends life and maximizes performance. Steel back provides superior support.

Diameter	Thickness	Grade	Max. RPM	TYPE 11 5/8"-11 Arbor	
				Std. Pack	Item#
4"	2"	A16R	9,000	10	57401
6"	2"	A16R	6,000	10	57403



57403

**TYPE 1
FOR GRINDERS**

V **WOLVERINE SNAGGING WHEELS** / Aluminum Oxide / Fast Grinding on Metal 90°

Fast cut rate and consistent performance at a good value for everyday, general purpose use on metal.

Diameter	Thickness	Grade	Max. RPM	TYPE 1 3/8" Arbor	
				Std. Pack	Item#
2"	1/4"	A60T	30,000	25	56131
4"	1/4"	A36T	19,000	25	56163



56163

WHY WEILER
BONDED ABRASIVES
COATED ABRASIVES
NON-WOVEN ABRASIVES
POWER BRUSHES
NYLON BRUSHES
PACKAGED ITEMS
MAINTENANCE

COMBO WHEELS



Weld removal with Tiger combo wheel.

Weiler's Combination Wheels offer flexibility and efficiency when switching between cutting and grinding applications. **A third layer of fiberglass reinforcement** provides the strength to hold up when grinding, while the type of fiberglass used maintains a fast cut.

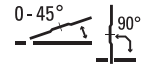
TYPE 27 FOR GRINDERS

NEW!

P

TIGER CERAMIC COMBO WHEELS / Ceramic Alumina / Superior Life & Cut on Metal

Self-sharpening Ceramic Alumina grain delivers a superior combination of life and cut rate. Ideal for stainless steel and other hard-to-cut metals.



58315

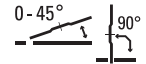
Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/8"	CER30T	13,300	25	58315	10	58316
5"	1/8"	CER30T	12,200	25	58317	10	58318
6"	1/8"	CER30T	10,200	25	58319	10	58320
7"	1/8"	CER30T	8,500	25	58321	10	58322
9"	1/8"	CER30T	6,600	25	58323	10	58324

*Contaminant-Free, Contains ≤ .1% Fe, S, Cl

P

TIGER ZIRC COMBO WHEELS / Zirconia Alumina / Fast & Long Life Combo on Metal

High performance cut & grind combo wheels deliver a high grind rate AND extended life. Harder, sharper, faster cutting grains provide a fast, consistent performance on steel and stainless steel.



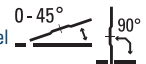
58054

Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/8"	Z30T	13,300	25	58051	10	58050
5"	1/8"	Z30T	12,200	25	58053	10	58052
6"	1/8"	Z30T	10,200	25	58064	10	58054
7"	1/8"	Z30T	8,500	25	58056	10	58055
9"	1/8"	Z30T	6,600	25	58058	10	58057

P

TIGER INOX COMBO WHEELS / White Aluminum Oxide / Contaminant-Free* for Stainless Steel

Long life cut & grind combo wheels deliver true flexibility and efficiency when switching between cutting and grinding for stainless steel applications.



58114

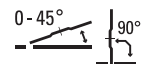
Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/8"	INOX30T	13,300	25	58115	10	58114
7"	1/8"	INOX30T	8,500	25	58117	10	58116
9"	1/8"	INOX30T	6,600	25	58119	10	58118

*Contaminant-Free, Contains ≤ .1% Fe, S, Cl

P

TIGER COMBO WHEELS / Premium Aluminum Oxide / Long Life Combo on Metal

Cut & grind combo wheels deliver true flexibility and efficiency when switching between cutting and grinding.

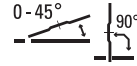


57102

Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/8"	A30S	13,300	25	57101	10	57100
5"	1/8"	A30S	12,200	25	57103	10	57102
6"	1/8"	A30S	10,200	25	57109	10	57108
7"	1/8"	A30S	8,500	25	57105	10	57104
9"	1/8"	A30S	6,600	25	57107	10	57106

V WOLVERINE COMBO WHEELS / Aluminum Oxide / Fast Cut & Grind Combo on Metal

Fast cut rate and consistent performance at a good value for everyday, general purpose use when switching between cutting and grinding on metals.



Diameter	Thickness	Grade	Max. RPM	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Std. Pack	Item#	Std. Pack	Item #
4-1/2"	1/8"	A24T	13,300	25	56430	10	56429
5"	1/8"	A24T	12,200	25	56428	10	56427
7"	1/8"	A24T	8,500	25	56426	10	56425

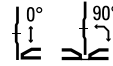


56429

TYPE 27 FOR PIPELINE

P ROUGHNECK PIPELINER WHEELS / Zirconia Alumina / Fast Grinding & Long Life

Ceramic Infused Roughneck wheels are designed for tough root pass notching and facing applications by combining an 1/8" width for optimized material removal with the right hardness and grain mixture for high demand use on the pipeline.



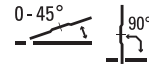
Diameter	Thickness	Grade	Max. RPM	TYPE 27 5/8"-11 Arbor	
				Std. Pack	Item#
4-1/2"	1/8"	Z30T	13,300	10	58059
6"	1/8"	Z30T	10,200	10	58060
7"	1/8"	Z30T	8,500	10	58061
9"	1/8"	Z30T	6,600	10	58062



58062

NEW! P ROUGHNECK COMBO WHEELS / Zirconia Alumina / Fast Grinding & Long Life

Ceramic Infused Roughneck combo wheels are thicker than pipeliner and designed to switch between cutting and grinding applications on the pipeline.



Diameter	Thickness	Grade	Max. RPM	TYPE 27 5/8"-11 Arbor	
				Std. Pack	Item#
7"	1/8"	Z30T	8,500	10	58065
9"	1/8"	Z30T	6,600	10	58063



58065



Pipeliners have trusted Weiler's Roughneck Stringer Bead brushes and aluminum backed Tiger Flap Discs for decades. With Tiger Roughneck, Weiler delivers the performance trifecta for pipeline contractors to get the job done right and done fast.

WHY WEILER

BONDED ABRASIVES

COATED ABRASIVES

NON-WOVEN ABRASIVES

POWER BRUSHES





COATED ABRASIVES

WEILER WAS FIRST

From the company that brought flap discs to the US, Weiler coated abrasive products continue to set the standard. Our Premium Tiger® flap discs are engineered to conquer any material or application.

Weiler recently added several new flap discs to its coated abrasives line. Tiger X flap discs leverage industry-first technology to grind faster AND last longer. Tiger Angled delivers an aggressive, long life solution for grinding fillet welds, T-joints and other hard-to-reach places. Wolverine™ flap discs deliver fast material removal and consistent performance at a great value.

Technical Information	24-27
Abrasive Flap Discs	28-39
Resin Fiber Discs	40-41
AL-tra CUT™ Discs	41
Blending Discs	42
Trim-Kut® Discs	43
Flap Wheels	44-45
Shop Rolls	46

SOLUTIONS SHOWCASE

STEEL PIPING

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

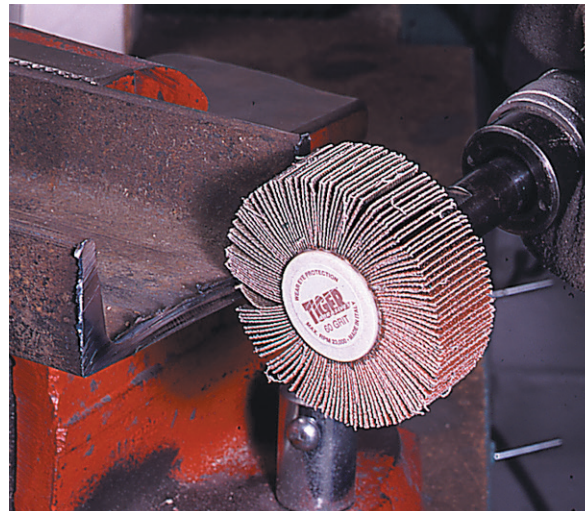
Solution: Coated abrasive flap discs like Weiler's original Tiger Disc are ideal tools for quickly removing heavy corrosion and blending pitting from bevel ends. The chatter-free, compliant grinding action and smooth, consistent finish produced by these discs make them the preferred choice for this application.



STEEL CHANNEL

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

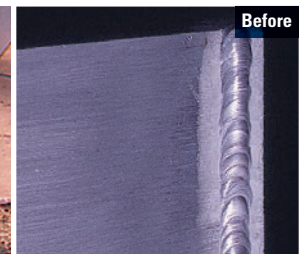
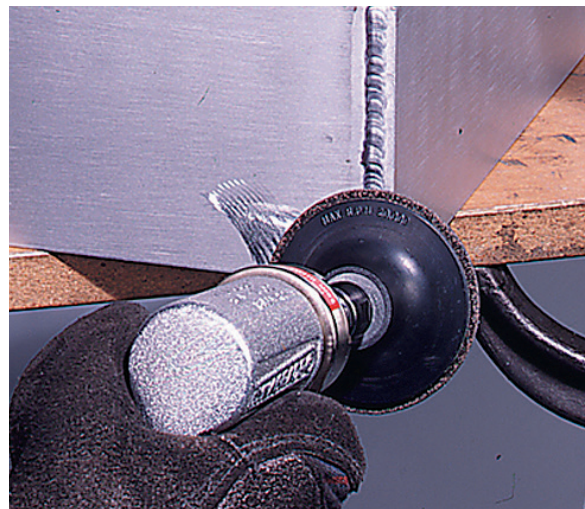
Solution: Weiler's coated abrasive flap wheels are flexible grinding products that are ideal for light stock removal applications. A 60 grit wheel can be used to remove a large burr and produce a smooth blended edge.



ALUMINUM FRAMES

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

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





Before



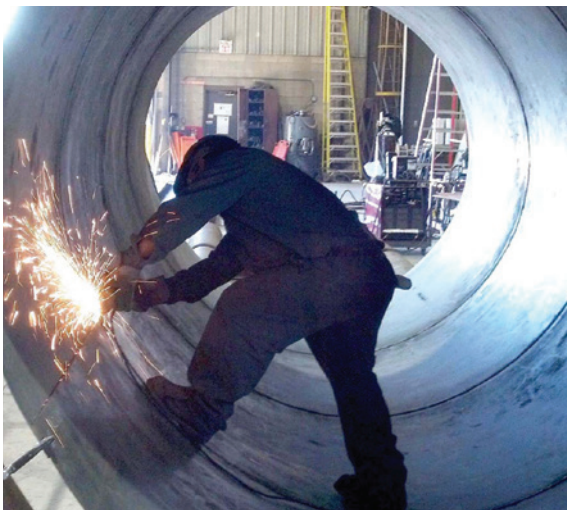
After



STRUCTURAL STEEL BEAM

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

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



Before



After



TANK AND PRESSURE VESSEL

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

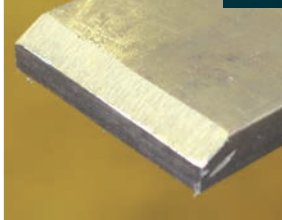
Solution: Weiler's Big Cat® High Density flap discs have the largest flap area in the industry – 22% more cloth. The result is enhanced conformability on curved or irregular surfaces and up to 40% longer life.



Before



After



STEEL RACK BRACES

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

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

SELECTING THE RIGHT FLAP DISC

Weiler's Coated Abrasive flap discs grind and finish in one step, saving you time and money. There's no switching from a Type 27 Grinding Wheel to a Resin Fiber Disc. Use the information provided to help select the right solution for your application.



P PERFORMANCE LINE (INDUSTRIAL GRADE)

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

V VALUE LINE (PROFESSIONAL GRADE)

Weiler Wolverine flap discs are designed to deliver fast material removal and consistent performance at a great value. Previous Vortec Pro®, Wolverine gets the job done for fabrication professionals, aggressively grinding and blending carbon and stainless steel in every-day applications.

ALL PERFORMANCE LINE PRODUCTS CONTAIN ≤ 0.1% IRON, SULPHUR & CHLORINE

CONTAMINANT FREE



Page 31

		SABER TOOTH (CA)	BIG CAT (ZA)	TIGER X (ZA & CA)	TIGER AL BACK (ZA)	TRIMMABLE (ZA)	ANGLED (CA)	ANGLED (ZA)	BOBCAT (ZA)	TIGER PAW (ZA)	WOLVERINE (ZA)
APPLICATION	Flat Surface Grinding	★★★★		★★★★							★★
	Light Pressure / Blending	★★★★	★★★★ HD	★★★★		★★★★	★★	★★	★★	★★	★
	Weld Grinding / Blending	★★★★	★★★★ HD	★★★★		★★	★★	★★		★★★★	★
	Heavy Stock Removal	★★★★		★★						★★★★	★
	Edge Grinding	★★								★★★★	
	Pipeline				★★★★						
	Fillet Grinding	★★ TRIM					★★	★★★★	★★★★		
	Irregular Surface	★★★★ HD	★★★★ HD							★★ HD	★ HD
	Hard To Reach						★★	★★	★★★★		
	MATERIAL	Carbon Steel	★★	★★★★	★★★★	★★★★	★★★★	★★	★★★★	★★★★	★★★★
Stainless Steel		★★★★	★★	★★			★★★★	★★	★★	★★	★
Aluminum / Non-Ferrous		★★★★					★★★★				
Non-Ferrous / Exotic		★★★★					★★★★				
Cast Iron		★★★★		★★			★★★★			★★	

STYLES

CONICAL STYLE Type 29



Maximum aggression for fast stock removal. Used on both flat surface and edge work. The angle provides greater surface contact for stock removal on flat surfaces.

FLAT STYLE Type 27



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

FLAT STYLE HD Type 27



Maximum conformability and life. Provides smooth grinding, blending and finishing on flat and irregular surfaces. Larger flaps ensure more contact and extend life.

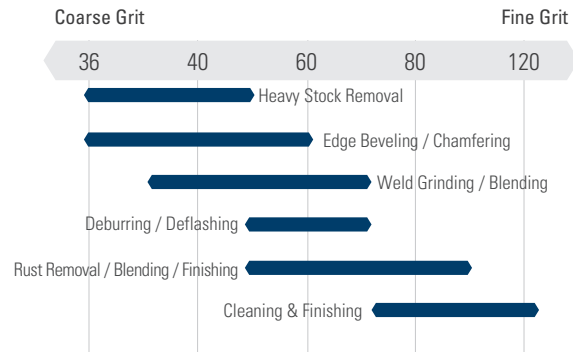
ANGLED STYLE



Curved flaps contour perfectly for fillet weld grinding while also allowing for efficient flat surface grinding.

GRIT & GRAIN

GRIT SIZE BY DESIRED FINISH



CERAMIC ALUMINA (CA)

- Self-sharpening multi crystals with predetermined fracture points
- Self-sharpening
- Maintains cut-rate for 75% of life



ALUMINUM OXIDE (AO)

- Single crystal
- Durable for short term grinding
- Hard
- Inexpensive

WEILER X3 TECHNOLOGY

- Proprietary mix of Ceramic and Zirconia Alumina
- Triple split grain anchoring system
- Dual flap design
- Grinds faster AND lasts longer



ZIRCONIA ALUMINA (ZA)

- Self-sharpening multi crystals
- Holds up under extreme pressure
- Self-sharpening
- Sharper, faster cut

BACKING

PHENOLIC



Prevents backing from scratching the workpiece.

ALUMINUM



Rigid support for maximum aggression; recyclable.

COMPOSITE*



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

*BobCat™ Discs are not Trimable.

ARBOR

5/8" - 11 NUT

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



5/8" & 7/8" ARBOR

- Cost-effective
- Requires adapting nuts



Mounting Flap Discs with 5/8" & 7/8" Arbors

- Adapting Nut
- Abrasive Flap Disc
- Adapting Nut
- Right Angle Grinder

MANDRELS & METAL HUB PADS

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



Type R hub pad + mandrel

Type S hub pad + mandrel

Type S mandrel

TIGER® FLAP DISCS / PERFORMANCE LINE



MADE IN
USA
WITH GLOBAL
MATERIALS



Grinding & blending a weld between two steel plates.

UNLEASH TIGER X: Tiger X flap discs raise the bar for those who are driven to get the job done right and done fast. Tiger X holds nothing back with its industry-first X3 technology that combines an advanced anchoring system, dual flap design and engineered backing. The combination delivers fast grinding AND long disc life for increased productivity.

Tiger X delivers the ultimate productivity enhancing X-Factors so you can do more in less time while lowering your consumable costs.

- **Increased Productivity** – The combination of aggressive grinding and long disc life deliver the ultimate X-Factor, a disc that gets more done in less time.
- **Enhanced Worker Safety** – Increased aggression requires less force to get equal or better results. This means less stress and reduced fatigue.
- **Lower Consumable Costs** – The combination of extreme aggressive grinding and long disc life means you get more for your money.
- **Greater Versatility** – X3 technology allows for greater versatility, reducing the need to switch discs when changing applications.

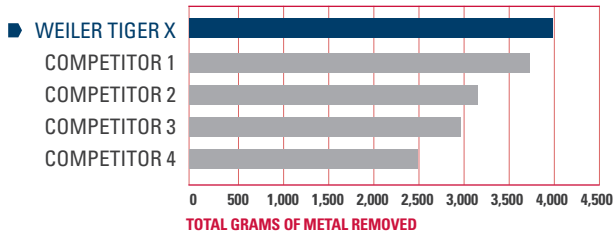
Applications

- Flat surface grinding
- Light pressure / blending
- Weld grinding / blending
- Heavy stock removal
- Deburring

TESTED. PROVEN. TIGER X WORKS FASTER, LONGER.

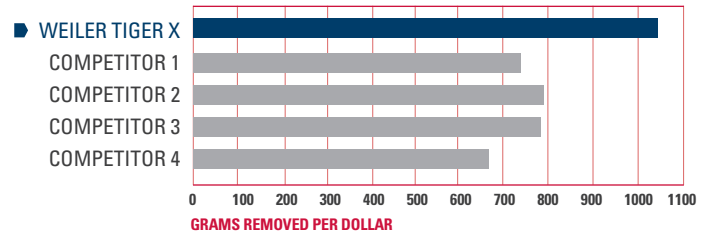
TIGER X REMOVES UP TO 40% MORE MATERIAL

TOTAL GRAMS OF METAL REMOVED FROM WORKPIECE OVER LIFE OF FLAP DISC



GET UP TO 40% MORE FOR YOUR MONEY

TOTAL GRAMS OF METAL REMOVED FOR EVERY DOLLAR YOU SPEND



■ **Test Procedure:** Weiler Tiger X 4-1/2" Type 29 standard density flap disc vs. similar competing flap discs. Test grinder mounted at 15° angle against 1/2" workpiece with 15 pounds of pressure. Bi-directional 8" travel. Discs and workpiece weighed after 5 minute intervals for the life of the product. Tiger X usable life: 100 minutes. Competitors' usable life: 65 – 90 minutes.

Ceramic Alumina and Zirconia Alumina grain mix
Grinds Faster and Lasts Longer.

Industry First

X3

Technology

grain anchoring system, dual flap design, & engineered backing.



LIFE ●●●●●
 AGGRESSION ●●●●●

P **TIGER X FLAP DISCS** Conical Style (Type 29) / Phenolic Backing
 Designed for aggressive grinding and long life when used on Steel and Stainless Steel.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
					Ceramic & Zirconia Alumina
4-1/2"	7/8"	36	13,000	10	51200
		40			51201
		60			51202
		80			51203
4-1/2"	5/8"-11 Nut	36	13,000	10	51204
		40			51205
		60			51206
		80			51207
5"	7/8"	36	12,000	10	51208
		40			51209
		60			51210
		80			51211
5"	5/8"-11 Nut	40	12,000	10	51212
		60			51213
		80			51214
		80			51215
7"	7/8"	36	8,600	10	51216
		40			51217
		60			51218
		80			51219
7"	5/8"-11 Nut	36	8,600	10	51220
		40			51221
		60			51222
		80			51223



51205



51216

P **TIGER X FLAP DISCS** Flat Style (Type 27) / Phenolic Backing
 Ideal working angle of less than 15° provides smooth grinding when used on Steel and Stainless Steel.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
					Ceramic & Zirconia Alumina
4-1/2"	7/8"	40	13,000	10	51223
		60			51224
		80			51225
4-1/2"	5/8"-11 Nut	40	13,000	10	51226
		60			51227
		80			51228
		80			51229
7"	7/8"	40	8,600	10	51230
		60			51231
		80			51232
		80			51233
7"	5/8"-11 Nut	40	8,600	10	51234
		60			51235
		80			51236



51229

Easy To Display Boxes
 Tear the top off the Tiger X standard pack box and turn it into a counter or shelf display.



Key:

P PERFORMANCE LINE Industrial Grade **V** VALUE LINE Professional Grade

WHY WEILER
 BONDED ABRASIVES
 COATED ABRASIVES
 NON-WOVEN ABRASIVES
 POWER BRUSHES
 NYLON BRUSHES



Blending the weld of a steel frame prior to painting.



Weiler's Original Tiger flap discs are the brand you have trusted for over 20 years and THE flap discs that set the standard in the industry for performance, consistency, reliability and quality. Aluminum back flap discs are the benchmark for the pipeline industry, among others, providing rigid support for maximum aggression.

MADE IN USA
WITH GLOBAL MATERIALS

APPLICATIONS

- Flat surface grinding
- Weld grinding / blending
- Edge grinding
- Light pressure / blending
- Heavy stock removal
- Pipeline

- LIFE ●●●●●●●●
- AGGRESSION ●●●●●●●●
- PIPELINE USE ●●●●●●●●

P TIGER DISC FLAP DISCS Conical Style (Type 29) / Phenolic & Aluminum Backing

Designed for the industrial user who values high cut rate and long life.



50601



50519



50543

Dia.	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number		
					Phenolic Backing		Aluminum Backing
					Zirconia Alumina	Alum. Oxide	Zirconia Alumina
4	5/8"	36	15,000	10	50592	50552	50502
		40			50593	50553	50503
		60			50594	50554	50504
		80			50595	50555	50505
		120			—	—	50506
4-1/2"	7/8"	24	13,000	10	50601	—	50511
		36			—	50562	50512
		40			—	50563	50513
		60			—	50564	50514
		80			—	50565	50515
		120			50606	—	50516
4-1/2"	5/8"-11 Nut	24	13,000	10	—	—	50510*
		36			—	—	50517*
		40			—	—	50518*
		60			—	—	50519*
		80			—	—	50520*
		120			—	—	50509*
5"	7/8"	36	12,000	10	—	50572	50522
		40			—	50573	50523
		60			—	50574	50524
		80			—	50575	50525
		120			50616	—	50526
6"	7/8"	40	10,200	10	50649	—	—
		60			50650	—	—
		80			50651	—	—
6"	5/8"-11 Nut	40	10,200	10	50659	—	—
		60			50660	—	—
		80			50661	—	—
7"	7/8"	36	8,600	10	—	50582	50532
		40			—	50583	50533
		60			—	—	50534
		80			—	50585	—
		120			—	—	50536
7"	5/8"-11 Nut	24	8,600	10	—	—	50541*
		36			—	50632*	50542*
		40			—	50633*	50543*
		60			—	50634*	50544*
		80			—	50635*	50545*
		120			—	—	50546*

* Patent # 6,945,863



TIGER DISC FLAP DISCS Flat Style (Type 27) / Phenolic Backing

High stock removal, long life and flexibility.



Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Zirconia Alumina	Alum. Oxide
4"	5/8"	40	15,000	10	50693	50653
		60			50694	50654
		80			50695	50655
		120			50696	—
4-1/2"	7/8"	40	13,000	10	—	50663
		60			—	50664
		80			—	50665
		120			50706	—
4-1/2"	5/8"-11 Nut	40	13,000	10	—	50668*
		60			—	50669*
		80			—	50670*
		120			50699*	—
5"	7/8"	40	12,000	10	50713	50673
		60			50714	50674
		80			50715	50675
7"	7/8"	40	8,600	10	—	50683
		60			—	50684
7"	5/8"-11 Nut	40	8,600	10	—	50733*
		60			—	50734*
		80			—	50735*
		120			50746*	—

* Patent # 6,945,863



50706

ADAPTING NUTS & SPANNER WRENCH

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

Description	Thread Size	For Use With	Standard Pack	Item Number
Adapting Nuts	3/8" - 24	4" Flap Disc with 5/8" arbor hole (can be used with an adjustable or combination wrench)	1	56484
Adapting Nuts	5/8" - 11	4-1/2", 5" & 7" Flap Discs with 7/8" arbor hole	1	56494
Spanner Wrench	—	Item No. 56494 only	1	56495

When mounting, adapters must be nested, see illustration below.



56494

56495



WHY WEILER

BONDED ABRASIVES

COATED ABRASIVES

NON-WOVEN ABRASIVES

POWER BRUSHES

NYLOX BRUSHES

PACKAGED ITEMS

MAINTENANCE



Blending and finishing a weld.



Weiler's Big Cat flap discs offers the widest footprint in the industry. The wider flaps better conform to curved and irregular surfaces, producing a consistent finish and lasting 30-40% longer than a standard flap disc.

MADE IN USA
WITH GLOBAL MATERIALS

APPLICATIONS

Provides increased conformability and long life when:

- Flat surface grinding
- Weld grinding / blending
- Irregular surface
- Light pressure / blending
- Heavy stock removal

FEATURES AND BENEFITS

Enhanced **conformability** helps reduce gouging and undercutting.

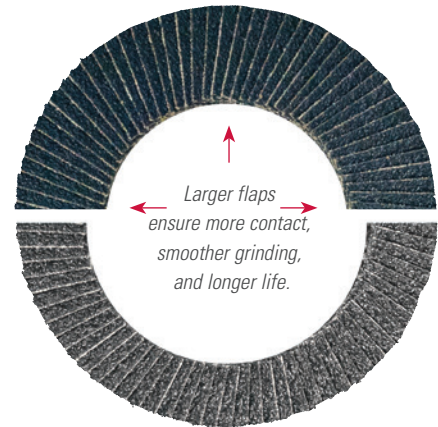
Thicker phenolic back (more layers of fiberglass) than competitors, provides **more stability** for the thicker cloth configuration.

Largest flap area in the industry as a result of the unique combination of flap count, height and width.

Longest lasting high density discs provide as much as 20% more life than the top competitors discs.

Big Cat is well known in the industry – ask for it by name for **increased productivity**, reduced operating cost and maximum disc life.

Big Cat HD Flap Disc



Competitors HD Flap Disc

- LIFE ●●●●●
AGGRESSION ●●●●●
CONFORMABLE ●●●●●

P BIG CAT FLAP DISCS Flat Style (Type 27) / Phenolic Backing

Increased conformability and maximum life.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Zirconia Alumina	Aluminum Oxide
4-1/2"	7/8"	40	12,000	10	50803	50763
		60			50804	50764
		80			50805	50765
		120			50806	—
4-1/2"	5/8"-11 Nut	40	12,000	10	50808*	50768*
		60			50809*	50769*
		80			50810*	50770*
7"	7/8"	40	8,600	10	50823	50783
		60			50824	50784
		80			50825	—
		120			—	50786
7"	5/8"-11 Nut	40	8,600	10	50843*	50833*
		60			50844*	50834*
		80			50845*	—
		120			50846*	—

*Patent # 6,945,863



50804



50823

Key:

- P** PERFORMANCE LINE Industrial Grade **V** VALUE LINE Professional Grade



Weiler's Trimmable Tiger flap discs are designed for hard-to-reach areas such as fillet welds and irregular shapes while grinding on-edge without changing tools. The unique composite backing can be trimmed, exposing more abrasive material and extending disc life, resulting in lower grinding and finishing costs. The backing can be trimmed up to 3/8" from the original diameter, dramatically extending flap length for grinding into fillet welds.

MADE IN USA
WITH GLOBAL MATERIALS



To trim backing, run against a sharp edge until desired backing diameter is achieved.

APPLICATIONS

- Light pressure / blending
- Weld grinding / blending
- Heavy stock removal
- Fillet grinding
- Irregular surface



A trimmed back dramatically extends disc life, allowing the operator to use the entire flap while maintaining a consistent working angle.

- LIFE ●●●●●●●●●●
- AGGRESSION ●●●●●●●●●●
- VERSATILITY ●●●●●●●●●●

P TRIMMABLE TIGER FLAP DISCS Conical Style (Type 29) / Composite Backing
High stock removal, long life and flexibility, ideal for working into fillet welds.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
					Zirconia Alumina
4-1/2"	7/8"	40	13,000	10	50002
		60			50003
		80			50004
		120			50005
		40			50006*
4-1/2"	5/8"-11 Nut	60	13,000	10	50007*
		80			50008*
		120			50009*
		40			50010
		60			50011
5"	7/8"	80	12,000	10	50012
		40			50014
		60			50015
5"	5/8"-11 Nut	80	12,000	10	50016
		40			
		60			

*Patent # 6,945,863



50002

COATED ABRASIVES
NON-WOVEN ABRASIVES
POWER BRUSHES
NYLOX BRUSHES
PACKAGED ITEMS
MAINTENANCE

"We get a competitive edge with Weiler because their prices are competitive but they last far longer."

- **Jim Martin**, Vice President, Karnel Incorporated





Blending fillet welds to ensure proper penetration prior to inspection.



NEW! Tiger Angled flap discs deliver an aggressive, long life solution for grinding fillet welds, T-joints and other hard-to-reach places. The 90° angled flap design forms perfectly into angles while the phenolic back provides stability to the flaps. This combination optimizes flap-to-metal contact, resulting in exceptional feel and control for the operator while grinding and finishing.

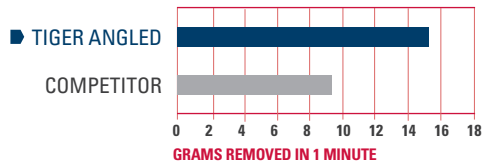
Tiger Angled Delivers a Competitive Advantage:

- **Aggressive Grinding** – Tiger Angled attacks metal, removing more material in less time so you get the job done faster
- **Long Life** – Keeps you grinding longer on Steel, Stainless, Aluminum and other hard-to-grind metals, lowering cost of use
- **Flexibility of Approach** – Angled flaps allow the operator to grind at a higher or lower angle, getting into hard-to-reach places more easily
- **Smooth Finish** – While grinding fillet welds, the angled flaps reduce the risk of gouging the work-piece
- **Mounting Options** – Available in 7/8" arbor or with a 5/8" -11 nut for fast change-over

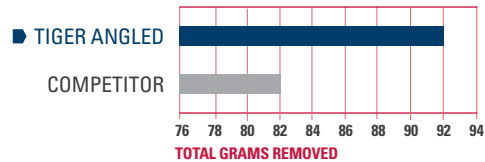
GET MORE DONE, FASTER

Tiger Angled removes more metal in less time, while grinding fillet welds.

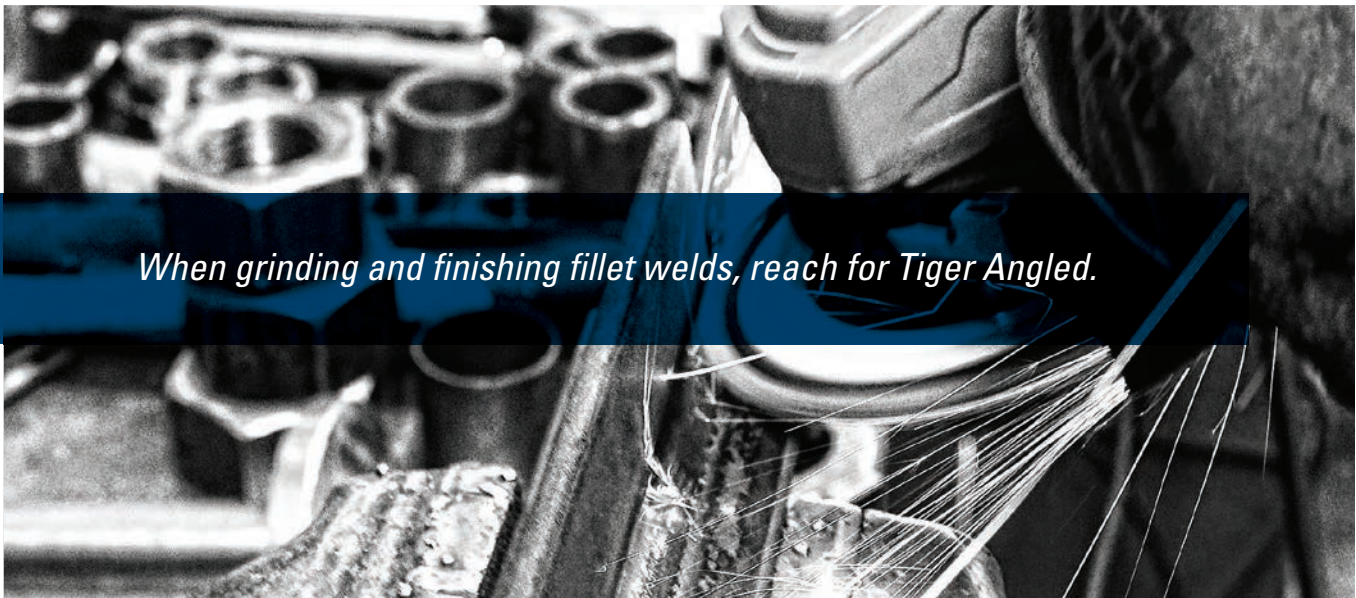
MATERIAL REMOVED IN 1 MINUTE



MATERIAL REMOVED OVER THE LIFE OF THE DISC



Test Procedure: Weiler Tiger 4-1/2", 60 grit Ceramic Angled flap disc vs. similar competing flap discs on 90° fillet weld. Disc and workpiece weighed after 1 minute of operation for life of product.



When grinding and finishing fillet welds, reach for Tiger Angled.

Tiger Angled is ideal for the following applications:

- Fillet welds
- T-Joints
- Hard-to-reach places
- Repair and re-work

SMOOTH FINISH

when grinding Fillet welds & T-joints

FLEXIBILITY OF APPROACH

flap design allows you to grind from a wider range of angles

MORE GRIT OPTIONS

gives you the finish and aggression you want

ATTACKS METAL

removing more material in less time



TOP COAT (Ceramic only) grinds cooler to protect valuable parts and prevents loading on softer alloys

WHY WEILER BONDED ABRASIVES

COATED ABRASIVES

NEW!

P

CERAMIC ANGLED FLAP DISCS Phenolic Backing

Top-sized Ceramic Alumina grain offers a contaminant-free option for Stainless Steel applications. Grinds cool, delivering maximum performance on Inconel, Titanium and other hard-to-grind metals.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Ceramic Alumina	
4-1/2"	7/8"	40	13,000	10	51312	
		60			51313	
		80			51314	
4-1/2"	5/8"-11 Nut	40	13,000	10	51315	
		60			51316	
		80			51317	
5"	7/8"	40	12,000	10	51318	
		60			51319	
		80			51320	
5"	5/8"-11 Nut	40	12,000	10	51321	
		60			51322	
		80			51323	



LIFE ●●●●●
AGGRESSION ●●●●●
VERSATILITY ●●●●●



51318

NON-WOVEN ABRASIVES

POWER BRUSHES

NEW!

P

ZIRCONIUM ANGLED FLAP DISCS Phenolic Backing

Zirconia Alumina grains are self-sharpening, delivering an aggressive, long life option that will continue to remove material over the entire life of the disc.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Zirconia Alumina	
4-1/2"	7/8"	40	13,000	10	51300	
		60			51301	
		80			51302	
4-1/2"	5/8"-11 Nut	40	13,000	10	51303	
		60			51304	
		80			51305	
5"	7/8"	40	12,000	10	51306	
		60			51307	
		80			51308	
5"	5/8"-11 Nut	40	12,000	10	51309	
		60			51310	
		80			51311	



LIFE ●●●●●
AGGRESSION ●●●●●
VERSATILITY ●●●●●



51304

NYLOX BRUSHES

PACKAGED ITEMS

MAINTENANCE



Grinding and beveling stainless steel tubing with a Saber Tooth abrasive flap disc.



Weiler's Saber Tooth flap discs deliver real performance on Stainless Steel, Aluminum, Inconel, Titanium and other hard-to-grind metals. A grinding aid protects high value parts from heat discoloration and the self-sharpening Ceramic Alumina grain provides cool, fast-cutting action, allowing you to do more work, more quickly. Discs are contaminant free, with Iron, Sulfur and Chlorine $\leq 0.1\%$.

MADE IN USA
WITH GLOBAL MATERIALS

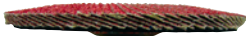
APPLICATIONS

- Flat surface grinding
- Light pressure / blending
- Weld grinding / blending
- Heavy stock removal
- Edge grinding
- Fillet grinding
- Irregular surface

LIFE ●●●●●●●●●●
AGGRESSION ●●●●●●●●●●
USE ON SS / AL ●●●●●●●●●●



50102



P SABER TOOTH FLAP DISCS Conical Style (Type 29) / Phenolic Backing

Cool, fast cutting on hard-to-grind metals.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Ceramic Alumina	
4-1/2"	7/8"	36	13,000	10	50100	
		40			50101	
		60			50102	
		80			50103	
4-1/2"	5/8"-11 Nut	36	13,000	10	50104*	
		40			50105*	
		60			50106*	
		80			50107*	
7"	7/8"	36	8,600	10	50108	
		40			50109	
		60			50110	
		80			50111	
7"	5/8"-11 Nut	36	8,600	10	50112*	
		40			50113*	
		60			50114*	
		80			50115*	



50121

P SABER TOOTH TRIM FLAP DISCS Conical Style (Type 29) / Composite Backing

Cool, fast cutting on hard-to-grind metals. High stock removal, long life and flexibility.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Ceramic Alumina	
4-1/2"	7/8"	40	13,000	10	50117	
		60			50118	
		80			50119	
		40			50121*	
4-1/2"	5/8"-11 Nut	60	13,000	10	50122*	
		80			50123*	



LIFE ●●●●●●●●●●
AGGRESSION ●●●●●●●●●●
USE ON SS / AL ●●●●●●●●●●



50139



P SABER TOOTH HIGH DENSITY (HD) FLAP DISCS

Flat Style (Type 27) / Phenolic Backing / Cool, fast cutting on hard-to-grind metals. Increases conformability and provides 30-40% longer life than standard (Type 29) flap discs.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Ceramic Alumina	
4-1/2"	7/8"	40	13,000	10	50130	
		60			50131	
		80			50132	
4-1/2"	5/8"-11 Nut	40	13,000	10	50133*	
		60			50134*	
		80			50135*	
7"	7/8"	40	8,600	10	50136	
		60			50137	
		80			50138	
7"	5/8"-11 Nut	40	8,600	10	50139*	
		60			50140*	
		80			50141*	



*Patent # 6,945,863

NEW! Tiger BobCat mini flap discs deliver enhanced performance - **1-1/2 TIMES THE LIFE** from the previous generation. The expanded line now offers a male "Type R" thread mount in addition to the current "Type S" mount. These discs are designed for use on right angle die grinders to provide smooth grinding and enhanced conformability in tight areas.

PRODUCT FEATURES & BENEFITS

- **Increased Life** – Improved design delivers twice the life of the original Bobcat as well as blending discs
- **Aggressive Grinding** – Designed to shed cloth and expose new grain, delivering faster blending and stock removal than blending discs
- **Mounting Options** – Type S and Type R quick-change mounting options are available

APPLICATIONS

- Grinding and finishing in hard-to-reach areas
- Grinding, deburring and blending
- Metal fabrication, weld blending or edge chamfering



Edge chamfering a fabricated stainless component.

LIFE ●●●●●
 AGGRESSION ●●●●●
 VERSATILITY ●●●●●

P BOBCAT MINI FLAP DISCS - TYPE S

Zirconia Alumina - Plastic Backing / Compatible with Norton Speed-Lok® TS back-up pads*
 Ideal for tight spaces and in heavy-duty applications where blending discs do not hold up.

Diameter	Grit Size	Max. RPM	Standard Pack	Item Number	
				Type 29	Type 27
2"	36	30,000	10	50922	50932
	40			50923	50933
	60			50924	50934
	80			50925	50935
	120			—	50936
3"	36	20,000	10	50902	50912
	40			50903	50913
	60			50904	50914
	80			50905	50915
	120			50906	50916

* Back-up pad not required if used with Type S mandrel



50923

50913

NEW! COMING SPRING 2017

P BOBCAT MINI FLAP DISCS - TYPE R

Zirconia Alumina - Plastic Backing / Compatible with 3M Roloc™ back-up pads[†]
 Ideal for tight spaces and in heavy-duty applications where blending discs do not hold up.

Diameter	Grit Size	Max. RPM	Standard Pack	Item Number	
				Type 29	Type 27
2"	36	30,000	10	50946	50956
	40			50947	50957
	60			50948	50958
	80			50949	50959
	120			50950	50960
3"	36	20,000	10	50951	50961
	40			50952	50962
	60			50953	50963
	80			50954	50964
	120			50955	50965

[†] Back-up pad required



50957

50953

BOBCAT DRIVE MANDRELS & METAL HUB PADS

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

Description	Standard Pack	Item Number
2" & 3" Type S Mandrel	1	07766
2" Type S hub pad + Mandrel	1	60508
3" Type S hub pad + Mandrel	1	60509
2" Type R hub pad + Mandrel	1	06777
3" Type R hub pad + Mandrel	1	06788



60508

06777

07766

COATED ABRASIVES

NON-WOVEN ABRASIVES

POWER BRUSHES

NYLOX BRUSHES

PACKAGED ITEMS

MAINTENANCE

TIGER PAW™ FLAP DISCS / PERFORMANCE LINE



Weiler's Tiger Paw flap discs are designed for the user looking for aggressive performance and long life in heavy-duty applications like **grinding on the edge of pipe**.

MADE IN USA
WITH GLOBAL MATERIALS

100% Zirconia Alumina grain is fast cutting with long life, resulting in fewer changeovers and increased productivity.

Superior grain retention - lasts longer and maintains perfect cutting angle to provide excellent performance and sustained stock removal when grinding on-edge while the engineered poly/cotton cloth features excellent grain retention for maximum disc life.

APPLICATIONS

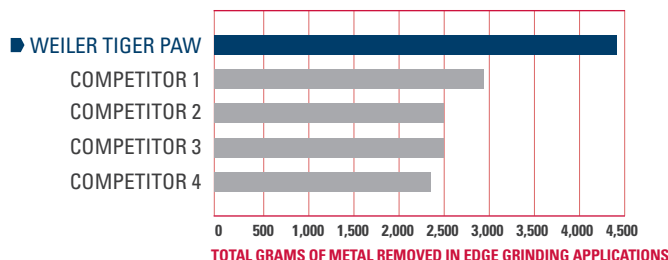
- Light pressure / blending
- Heavy stock removal
- Irregular surface
- Weld grinding / blending
- Edge grinding



Beveling pipe on edge with a Tiger Paw flap disc.

TIGER PAW REMOVES MORE MATERIAL

TOTAL GRAMS OF METAL REMOVED FROM WORKPIECE OVER LIFE OF FLAP DISC

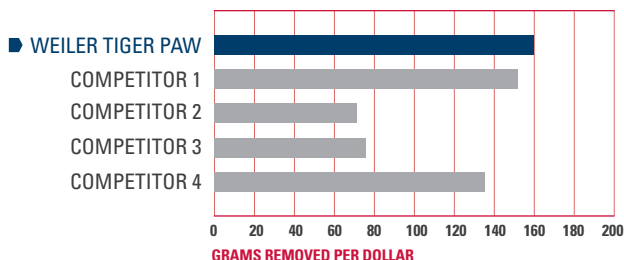


TOTAL GRAMS OF METAL REMOVED IN EDGE GRINDING APPLICATIONS

Test Procedure: Weiler Tiger Paw 4-1/2" Type 29 standard density flap disc vs. similar competing flap discs. Test grinder mounted at 15° angle against 1/8" workpiece with 15 pounds of pressure. Bi-directional 8" travel. Discs and workpiece weighed after 5 minutes intervals for the life of the product. Tiger Paw usable life: 17 minutes. Competitors' usable life: 8 – 10 minutes.

GET MORE FOR YOUR MONEY

TOTAL GRAMS OF METAL REMOVED FOR EVERY DOLLAR YOU SPEND



LIFE ●●●●●●●●●●
AGGRESSION ●●●●●●●●●●
EDGE GRINDING ●●●●●●●●●●

TIGER PAW FLAP DISCS Conical Style (Type 29) / Phenolic Backing

Aggressive action and long life; for heavy-duty applications on Steel and Stainless.



Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
					Zirconia Alumina
4"	5/8"	40	15,000	10	51104
		60			51105
4-1/2"	7/8"	36	13,000	10	51118
		40			51119
		60			51120
		80			51121
		36			51123*
4-1/2"	5/8"-11 Nut	40	13,000	10	51124*
		60			51125*
		80			51126*
		36			51129
		40			51130
5"	7/8"	40	12,000	10	51153*
		60			51132*
		80			51133*
		36			51154*
		40			51145
5"	5/8"-11 Nut	40	12,000	10	51150
		60			51149*
		80			51146*
		36			51147*
		40			51148*
7"	7/8"	40	8,600	10	51145
		60			51150
		80			51149*
		36			51146*
		40			51147*
7"	5/8"-11 Nut	40	8,600	10	51145
		60			51149*
		80			51146*
		36			51147*
		40			51148*

*Patent # 6,945,863



51118



51147

P **TIGER PAW FLAP DISCS** Flat Style (Type 27) / Phenolic Backing
Smooth action and long life; for heavy-duty applications on Steel and Stainless.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Zirconia Alumina	
4"	5/8"	40	15,000	10	51101	
		60			51102	
4-1/2"	7/8"	36	13,000	10	51107	
		40			51108	
		60			51109	
		80			51110	
4-1/2"	5/8"-11 Nut	36	13,000	10	51112*	
		40			51113*	
		60			51114*	
		80			51115*	
5"	7/8"	40	12,000	10	51134	
		60			51135	
5"	5/8"-11 Nut	36	12,000	10	51155*	
		40			51156*	
		60			51157*	
		80			51158*	
7"	7/8"	40	8,600	10	51137	
		60			51138	
7"	5/8"-11 Nut	36	8,600	10	51139*	
		40			51140*	
		60			51142*	
		80			51143*	

*Patent # 6,945,863



51115

HIGH DENSITY

Tiger Paw Extreme High Density flap discs feature thicker and larger flaps that conform to curved and irregular surfaces while producing a consistent finish. These high density flap discs are designed for the user looking for **extended life and conformability** in heavy-duty applications.

- 40% more abrasive cloth than a standard flap disc.
- 100% Zirconia Alumina grain provides superior edge grinding.
- Engineered poly/cotton cloth features excellent grain retention for maximum disc life.



P **TIGER PAW HD FLAP DISCS** Flat Style (Type 27) / Phenolic Backing
Extended life and conformability; for heavy-duty applications on Steel and Stainless Steel.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Zirconia Alumina	
4-1/2"	7/8"	36	12,000	10	51160	
		40			51161	
		60			51162	
		80			51163	
4-1/2"	5/8"-11 Nut	36	12,000	10	51164*	
		40			51165*	
		60			51166*	
		80			51167*	
7"	7/8"	40	8,600	10	51170	
		60			51171	
7"	5/8"-11 Nut	40	8,600	10	51168*	
		60			51169*	

*Patent # 6,945,863



51168

WOLVERINE™ FLAP DISCS / VALUE LINE



Grinding welds on a fabricated steel part.



Formerly Vortec Pro®

MADE IN
USA
WITH GLOBAL
MATERIALS

NEW! Wolverine flap discs are designed to deliver fast material removal and consistent performance at a great value. Formerly Vortec Pro, Wolverine gets the job done for fabrication professionals, aggressively grinding and blending carbon and stainless steel in every-day applications.

BENEFITS OF WOLVERINE FLAP DISCS

- **Fast Cut Rate** – Zirconia Alumina grain is self-sharpening, delivering aggressive grinding from start to finish
- **Versatility** – Choose from conical or flat styles for optimal angle of approach and desired finish as well as a variety of backing options, arbors and available diameters to fit all tool sizes.
- **Fast Change Over** – Quick-change 5/8" -11 nut available in addition to 5/8" and 7/8" arbors

APPLICATIONS

- Flat surface grinding
- Light pressure / blending
- Weld grinding / blending
- General stock removal
- Irregular surface (HD Discs)

LIFE ●●●●●
AGGRESSION ●●●●●
VALUE ●●●●●

NEW!



WOLVERINE FLAP DISCS Conical Style (Type 29) / Zirconia Alumina

Delivers a high cut rate and steeper angle of attack for more aggressive grinding at a value price. Ideal for general stock removal and weld blending.



31350



31332

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number	
					Phenolic Backing	Aluminum Backing
4"	5/8"	36	15,000	10	31337	—
		40			31338	—
		60			31339	—
		80			31340	—
		120			—	—
4-1/2"	7/8"	36	13,000	10	31343	31307
		40			31344	31308
		60			31345	31309
		80			31346	31310
		120			31347	—
4-1/2"	5/8"-11 Nut	36	13,000	10	31349*	31313*
		40			31350*	31314*
		60			31351*	31315*
		80			31352*	31316*
		120			31353*	31317*
5"	7/8"	36	12,000	10	31355	—
		40			31356	—
		60			31357	—
		80			31358	—
7"	7/8"	36	8,600	10	31361	—
		40			31362	—
		60			31363	—
		80			31364	—
7"	5/8"-11 Nut	36	8,600	10	31367*	31331*
		40			31368*	31332*
		60			31369*	31333*
		80			31370*	31334*

*Patent # 6,945,863



NEW!



WOLVERINE FLAP DISCS Flat Style (Type 27) / Zirconia Alumina

Delivers a smooth grinding action at a value price. Ideal for light pressure grinding, blending and finishing.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
					Phenolic Backing
4-1/2"	7/8"	36	13,000	10	31401
		40			31402
		60			31403
		80			31404
		36			31407*
4-1/2"	5/8"-11 Nut	40	13,000	10	31408*
		60			31409*
		80			31410*
		40			31414
		60			31415
7"	7/8"	40	8,600	10	31419*
		60			31420*
		80			31421*
7"	5/8"-11 Nut	40	8,600	10	31422*
		60			
		80			

*Patent # 6,945,863



31409

HIGH DENSITY

NEW!



WOLVERINE HD FLAP DISCS Flat Style (Type 27) / Zirconia Alumina

Delivers increased life and conformability over standard density Wolverine flap discs at a value price. Ideal for irregular or contoured surfaces.

Diameter	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
					Phenolic Backing
4-1/2"	7/8"	40	12,000	10	31387
		60			31388
		80			31389
4-1/2"	5/8"-11 Nut	40	12,000	10	31390*
		60			31391*
		80			31392*

*Patent # 6,945,863



31390



RESIN FIBER DISCS

Weiler's premium resin fiber discs are suitable for light grinding, blending, surface preparation and finishing on a variety of materials.

Applications

Saber Tooth™ Ceramic Alumina:

Cool, fast cutting action on Aluminum, Stainless Steel and other hard-to-grind metals.

Zirconia Alumina:

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.



Blending welds on the corner of a steel furniture frame.

P Saber Tooth Resin Fiber Discs

These coated abrasive discs are designed for cool, fast weld blending, grinding, surface preparation and finishing on Aluminum, Stainless Steel and other hard-to-grind metals.



59557

Diameter	Arbor Hole	Grit Size	Standard Pack	Item Number - Ceramic Alumina
4-1/2"	7/8"	24	25	59550
		36		59551
		50		59552
		60		59553
		80		59554
5"	7/8"	24	25	59557
		36		59558
		50		59559
		60		59560
		80		59561
7"	7/8"	24	25	59564
		36		59565
		50		59566
		60		59567
		80		59568

P Resin Fiber Discs - Ideal for blending, finishing and surface preparation.



59732



59503

Diameter	Arbor Hole	Grit Size	Standard Pack	Item Number	
				Zirconia Alumina	Aluminum Oxide
4"	5/8"	24	25	—	59491
		36		—	59492
		50		—	59493
		60		—	59494
		80		—	59495
		120		—	59497
4-1/2"	7/8"	24	25	59731	59571
		36		59732	59573
		50		59733	59575
		60		—	59576
		80		—	59577
		100		—	59578
5"	7/8"	120	25	—	59579
		16		—	59500
		24		59701	59501
		36		59702	59503
		50		—	59505
		60		—	59506
7"	7/8"	80	25	—	59507
		100		—	59508
		16		—	59520
		24		59711	59521
		36		59712	59523
		50		—	59525
9"	7/8"	60	25	—	59526
		80		—	59527
		100		—	59528
		120		—	59529
		36		—	59543
		—		—	—

Do not exceed maximum RPM of back-up pad.

NOTE

See back-up pads on page 43.

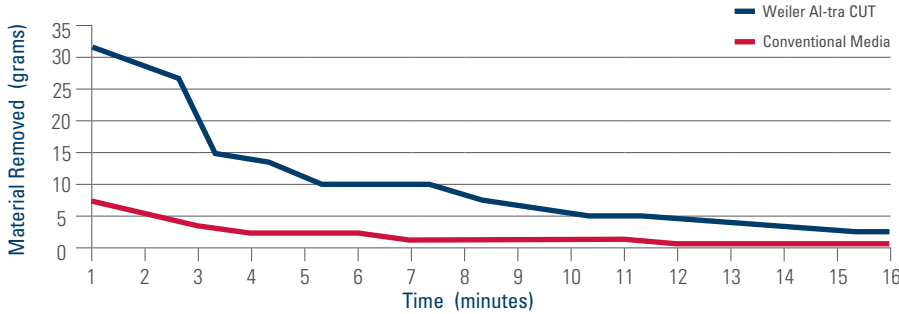
AL-TRA CUT™ DISCS - FOR GRINDING ALUMINUM

Weiler's Al-tra CUT discs are specially formulated for superior grinding performance on Aluminum. AL-tra CUTs **improve grinding on Aluminum 400-800%!** These revolutionary discs resist loading, ensure higher cut rates, prolong disc life and achieve a superior finish compared to conventional sanding and grinding discs in the market. AL-tra CUT discs outlast conventional resin fiber discs 5 to 1.

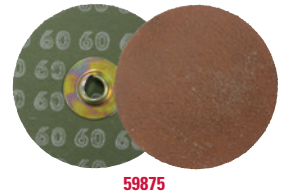
Aluminum Applications

- Weld blending
- Grinding
- Deburring
- Finishing

MATERIAL REMOVED vs. TIME



Blending welds and saw marks on a mounting bracket.



COATED ABRASIVES
NON-WOVEN ABRASIVES
POWER BRUSHES
NYLON BRUSHES
PACKAGED ITEMS
MAINTENANCE

P 2" & 3" AL-TRA CUT DISCS - Aluminum Oxide

Diameter	Grit Size	Standard Pack	Item Number	
			Type R Hub Style*	Type S Hub Style +
2"	36	50	59806	59869
	60		59807	59870
	80		59808	59871
	120		59809	-
3"	36	25	59811	59874
	60		59812	59875
	80		59813	59876
	120		59814	59877
2" & 3" Back-up - 1/4" stem				
Diameter	Max. RPM	Std. Pack		
2"	25,000	1	51551	60508
3"	20,000	1	51552	60509

Do not exceed maximum RPM of back-up pad. Do not store AL-tra CUT Discs above 120° F.
 * 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.)

P 4-1/2" & 7" AL-TRA CUT DISCS - Aluminum Oxide

Diameter	Arbor Hole	Grit Size	Standard Pack	Item Number
4-1/2"	7/8"	36	25	59821
		60		59823
		80		59824
		120		59826
7"	7/8"	36	25	59862
		60		59864
		80		59865

Do not exceed maximum RPM of back-up pad. Do not store AL-tra Cut Discs above 120° F.

P ACCESSORIES FOR RESIN FIBER & AL-TRA CUT DISCS

Description	Thread Size	Max. RPM	Standard Pack	Item Number
4" Back-up Pad	5/8"-11*	12,000	1	59605
4-1/2" Back-up Pad	5/8"-11*	11,000	1	59611
5" Back-up Pad	5/8"-11*	10,000	1	59600
7" Back-up Pad	5/8"-11	8,500	1	59601
9" Back-up Pad	5/8"-11	6,500	1	59602
Spanner Wrench	-	-	1	59603
Disc Nut	5/8"-11	-	1	59604

* Other thread sizes available on special orders.

BLENDING DISCS



Blending surface imperfections prior to painting.

Weiler's cloth backed coated abrasive discs are for use on right angle air tools. Available with either a metal hub or a plastic button fastening system, the flexible back-up pads give the discs a great deal of conformability. Weiler's blending discs are suitable for a wide range of light fabrication, repair and maintenance applications.

Applications

Saber Tooth™

Ceramic Alumina:
Cool, fast cutting action on Aluminum, Stainless Steel and other hard-to-grind metals.

Zirconia Alumina:

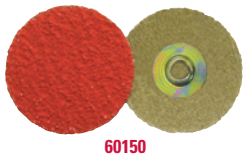
High performance grinding of Stainless Steel, Tool Steel and hard-to-grind materials.

Aluminum Oxide:

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

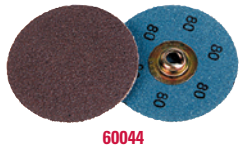
P SABER TOOTH CERAMIC ALUMINA BLENDING DISCS

For aluminum, stainless and other hard-to-grind metal applications.



60150

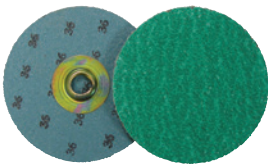
Diameter	Grit Size	Standard Pack	Item Number	
			Type S Hub Style	Type R Hub Style
2"	36	100	60150	60170
	60		60151	60171
	80		60152	60172
3"	36	50	60155	60175
	60		60156	60176
	80		60157	60177



60044

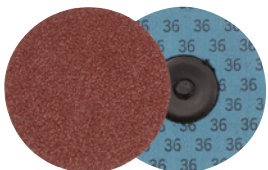
P BLENDING DISCS - Type S Hub Style

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



60391

Diameter	Grit Size	Standard Pack	Item Number	
			Zirconia Alumina	Aluminum Oxide
2"	36	100	60378	60040
	60		60381	60043
	80		60382	60044
	120		60384	60046
3"	36	50	60391	60053
	60		60394	60056
	80		60395	60057
	120		60397	60059



60131

P BLENDING DISCS - Type R Hub Style - Compatible with 3M Roloc™ back-up pads.

Diameter	Grit Size	Standard Pack	Item Number - Aluminum Oxide	
			Type R Hub Style*	Type S Hub Style+
2"	36	100	60118	
	60		60121	
	80		60122	
	120		60124	
3"	36	50	60131	
	60		60134	
	80		60135	
	120		60137	



60508

P BACK-UP PADS - 1/4" Stem

Diameter	Max. RPM	Std. Pack	Item No.	
			Type R Hub Style*	Type S Hub Style+
2"	25,000	1	51551	60508
3"	20,000	1	51552	60509



51552

Do not exceed maximum RPM of back-up pad.

* 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.)

TRIM-KUT® DISCS

Trim-Kuts are abrasive discs designed for light grinding and blending applications on a variety of materials. The abrasive grains are fused directly onto a wearable polymer backing, resulting in a disc that requires no back-up pad. The polymer backing trims during use to expose new grains to the work surface. 3" discs are designed for use on right angle air die grinders, and 4-1/2" discs are for use on right angle grinders.

APPLICATIONS

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



Deburring and chamfering a section of pipe after cutting.

P TRIM-KUT DISCS - Aluminum Oxide

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

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



P TRIM-KUT DISC - Aluminum Oxide

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

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



P TRIM-KUT ADAPTERS

Description	For Use With	Standard Pack	Item Number
1/4" Mandrel	3" TRIM-KUT Discs	25	59327
3/8"-24 UNF Adapter	3" TRIM-KUT Discs	25	59326
Adapting Nuts	4-1/2" TRIM-KUT Discs	1	56485
Spanner Wrench	Item No. 56485 only	1	56496



NOTE

If you are using a blending disc or TRIM-KUT Disc, ask our Application Engineering Department if Weiler's BobCat Abrasive Flap Discs can enhance your productivity. BobCats dramatically outperform blending and TRIM-KUT Discs by reducing changeovers and providing consistently high cut rates and extended life. See page 37 for more information.

Key:



Performance line
Industrial Grade



Value line
Professional Grade

COATED ABRASIVES

NON-WOVEN ABRASIVES

POWER BRUSHES

NYLON BRUSHES

PACKAGED ITEMS

MAINTENANCE

COATED ABRASIVE FLAP WHEELS



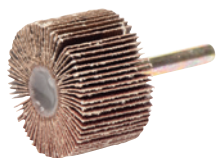
Weiler's abrasive flap wheels are designed with a solid hub construction that enables wheels to be rated at higher RPMs and provide more aggressive cutting action and increased productivity. They provide perfect balance leading to smooth, chatter-free finishing.

Applications

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



Removing burrs from the inside diameter of a cut tube.



52010



52027

P Tiger Mounted Flap Wheels - 1/4" Stem - Aluminum Oxide

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



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

■ Packaged product available. See pages 131-141 for details.



52621

P Tiger Mounted Flap Wheels - 1/4"-20 Threaded Stem - Aluminum Oxide

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



Diameter	Width	Grit Size	Max. RPM	Standard Pack	Item Number
1"	1"	60	30,000	10	52601
		80			52603
		120			52605
2"	1"	60	25,000	10	52611
		80			52613
3"	1"	60	20,000	10	52621
		80			52623

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



07756

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

NOTE

- Drive arbor is used individually and must be ordered individually.
- Drive arbor is to be used with Weiler flap wheels only.
- Stems must be fully chucked before using and should not be run above the maximum RPM listed.

Key:

P Performance line
Industrial Grade

V Value line
Professional Grade

P TIGER® UNMOUNTED FLAP WHEELS - Aluminum Oxide



Diameter	Width	Arbor Hole	Grit Size	Max. RPM	Standard Pack	Item Number
6"	1"	1"	60	6,000	5	53286
			80			53287
6"	2"	1"	60	5,700	3	53326
			80			53327



53286

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

Wheel Arbor Hole Size	Adapted Arbor Hole Size	Standard Pack	Item Number
1"	1/2"	1	03833
	5/8"		03834
	3/4"		03835



03834

WOLVERINE™

Formerly Branded Vortec Pro®

GREAT VALUE AT THE RIGHT PRICE

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

APPLICATIONS

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

V WOLVERINE 1/4" STEM MOUNTED FLAP WHEELS

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



Diameter	Width	Grit Size	Max. RPM	Standard Pack	Item Number
					Aluminum Oxide
1"	1"	60	30,000	10	30720
		80			30721
		120			30722
2"	1"	60	25,000	10	30723
		80			30724
		120			30725
3"	1"	60	23,000	10	30726
		80			30727
		120			30728



30720



30724

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

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



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



30735

COATED ABRASIVE SHOP ROLLS



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

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

APPLICATIONS

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



65204

P SHOP ROLLS - Aluminum Oxide - 50 Yards. One roll per box.

Roll Width	Grit Size	Standard Pack	Item Number
1"	50	1	65204
	60		65205
	80		65206
	100		65207
	120		65208
	150		65209
	180		65210
	240		65212
	320		65213
1-1/2"	60	1	65218
	80		65219
	100		65220
	120		65221
	150		65222
	180		65223
	240		65225
	320		65226
	2"		60
80		65232	
100		65233	
120		65234	
150		65235	
180		65236	
240		65238	
320		65239	

NOTE

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

Key:

P Performance line
Industrial Grade

V Value line
Professional Grade

NON-WOVEN ABRASIVES

FINEST AT THE FINISH

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

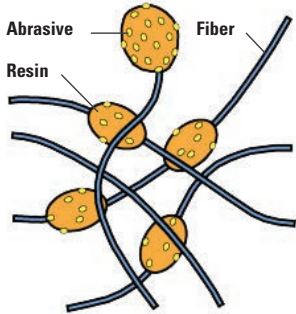
Non-Woven Abrasives Overview	41
Unitized Wheels	41
Surface Conditioning Discs	42
Hand Pads	43
Flap Wheels	43



SELECTING THE RIGHT PRODUCT

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

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



All non-woven products are fabricated from base materials that are composed of a random "web" of nylon fibers that have been bonded together with synthetic resins and impregnated with abrasive grains. Although these materials vary in fiber density, their three dimensional nature results in specialty abrasive products that are pliable, conformable to the work surface, and limited in their ability to remove base stock.

Non-woven products resist loading and perform consistently as new, fresh abrasive grains are exposed as the nylon fibers wear away from the product during use. Non-woven abrasives can be used either wet or dry on a range of materials including ferrous and non-ferrous metals, ceramics, plastics, composites, and wood. Non-woven products are designed for use where stock removal is not required. Non-wovens begin where coated abrasives leave off.

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

UNITIZED WHEELS



55512



55541

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



Diameter	Face Width	Arbor Hole	Grain	Grade	Max. RPM	Standard Pack	Item Number
Series 2 - Cleaning & Finishing - Hardness: Soft							
3"	1/4"	1/4"	Aluminum Oxide	Fine	12,000	10	55512
	1/4"		Silicon Carbide	Fine			55513
Series 6 - Deburring - Hardness: Medium/Hard							
1"	1"	3/16"	Aluminum Oxide	Fine	30,000	10	55531
3"	1/4"	1/4"	Aluminum Oxide	Fine	18,000		54492
	1/2"		Aluminum Oxide	Fine			55530
Series 8 - HD Deburring & Polishing - Hardness: Hard (Heavy-Duty)							
1"	1"	3/16"	Aluminum Oxide	Medium	30,000	10	55543
2"	1/8"	1/4"	Aluminum Oxide	Coarse	22,000	10	55545
3"	1/8"	1/4"		Coarse	18,000	10	55546
	1/4"			Medium			55541
	1/2"			Medium			55542

MANDRELS



56489

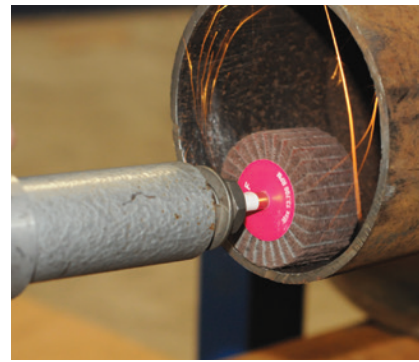
Stem Diameter	For Wheel Diameter	For Wheel Thickness	Standard Pack	Item Number
1/4"	2" - 3"	1/2"	1	07761
	1"	1"	1	07764
	2" - 3"	1/8" - 1/4"	10	56489

INTERLEAF FLAP WHEELS

Interleaf Flap Wheels provide a combination of non-woven and coated abrasive material to produce a very conformable product compared to a standard coated abrasive flap wheel. They are designed to be a finishing and surface blending tool as compared to a material-removing coated abrasive flap wheel. They are ideal for producing satin or decorative finishes on irregular or contoured surfaces.

APPLICATIONS

- General decorative finishing
- Applying satin finishes
- Producing antique finishes
- Final sandings
- Soft metal finishing
- Removing oxides from precious metals
- Fine burr removal



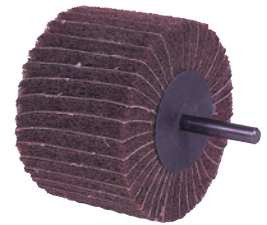
Deburring the I.D. of a steel pipe with an interleaf flap wheel.

P STEM-MOUNTED INTERLEAF FLAP WHEELS - Aluminum Oxide

Diameter	Face Width	Grit Size	Stem Size	Max. RPM	Standard Pack	Item Number
2"	1"	120	1/4"	13,700	10	54500
		180				54501
		320				54502
3"	1"	120	1/4"	8,600	5	54506
		180				54507
		320				54508
3"	2"	120	1/4"	8,600	5	54509
		180				54510
		320				54511



54500



54510

COATED ABRASIVES

NON-WOVEN ABRASIVES

HAND PADS

Industrial Grade:

- Producing satin finishes on aluminum and stainless steel
- Light deburring
- Surface preparation
- Blending light scratches

Commercial Grade:

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



Polishing a rail axle journal with a non-woven hand pad.

P HAND PADS - For cleaning and conditioning surfaces by hand. Unlike steel wool, hand pads are non-metallic, and do not produce "after-rust" on work surfaces. Hand pads can be used in wet applications.

Size	Grain	Grade	Description	Standard Pack	Item Number
Industrial Grade					
6" x 9"	Silicon Carbide	Ultra Fine	Finishing (Grey)	60	51434
6" x 9"	Aluminum Oxide	Medium	Economy General Purpose (Maroon)	60	51460
6" x 9"	Aluminum Oxide	Med/ Coarse	General Purpose (Maroon)	60	51444
6" x 9"	Aluminum Oxide	Heavy-Duty	Heavy-Duty (Tan)	40	51454
Commercial Grade					
6" x 9"	Aluminum Oxide	Fine	Economy (Green)	400	51456
6" x 9"	Aluminum Oxide	Medium	Standard-Duty (Green)	60	51457
6" x 9"	Aluminum Oxide	Heavy-Duty	Heavy-Duty (Green) 20% thicker than Standard Duty	60	51458



51457

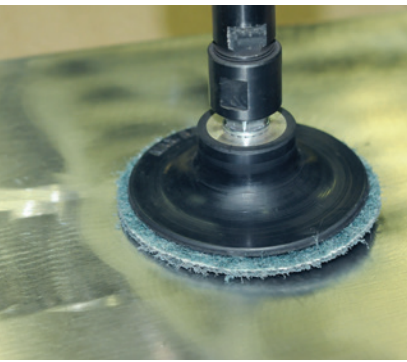
51460

POWER BRUSHES

NYLON BRUSHES

PACKAGED ITEMS

MAINTENANCE



SURFACE CONDITIONING DISCS

Surface Conditioning Discs have an open construction, scrim reinforcement and a superior resin system. These features minimize loading, heat build-up, fraying of disc edges, grain shedding and extend disc life, providing superior performance.

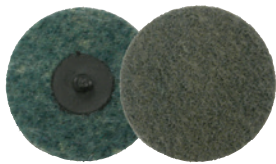
APPLICATIONS

- Light deburring
- Surface preparation
- Blending light scratches
- Removing rust, corrosion and oxidation
- Cleaning and removing stains from stainless steel
- Producing satin finishes on aluminum and stainless steel

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



51532



51533



51552

P TYPE R HUB STYLE DISCS - General Purpose

Compatible with 3M Roloc™ back-up pads.



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

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

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

Do not exceed maximum RPM of back-up pad.

P HOOK & LOOP STYLE DISCS



51508



51578

Diameter	Grade	Standard Pack	Item Number
3"	Very Fine (Blue)	25	51506
	Medium (Maroon)		51507
	Coarse (Brown)		51508
4-1/2"	Very Fine (Blue)	10	51512
	Medium (Maroon)		51513
	Coarse (Brown)		51514
5"	Very Fine (Blue)	10	51515
	Medium (Maroon)		51516
	Coarse (Brown)		51517
7"	Very Fine (Blue)	10	51521
	Medium (Maroon)		51522
	Coarse (Brown)		51523

HOOK & LOOP STYLE BACK-UP PADS

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