

FLAPDISCS



Get the most demanding grinding and finishing jobs done right and done fast.



SELECTING THE RIGHT FLAP DISC

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



P MAX PERFORMANCE



TIGER® CERAMIC

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

GRAIN TYPE

Ceramic alumina

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

STYLES



BEST ON

STEEL / METAL **ALUMINUM**
STAINLESS **HARD-TO-GRIND**

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

P HIGH PERFORMANCE



TIGER X

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

GRAIN TYPE

Ceramic & zirconia alumina

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

STYLES



BEST ON

STEEL / METAL **STAINLESS**

(Metal includes structural steel and cast iron)

P PERFORMANCE



TIGER PAW™

- **SUPERIOR EDGE GRINDING**
- Aggressive stock removal

GRAIN TYPE

100% zirconia alumina

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

STYLES



BEST ON

STEEL / METAL **STAINLESS**

(Metal includes structural steel and cast iron)

V VALUE



WOLVERINE®

- Fast stock removal
- Consistent performance

GRAIN TYPE

Zirconia alumina

STYLES



BEST ON

STEEL / METAL

*Big Cat is a zirconia alumina flap disc and does not contain any ceramic alumina.

SPECIALTY FLAP DISCS



		MAX PERFORMANCE	HIGH PERFORMANCE	PERFORMANCE
ANGLED (Fillet Welds)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
TRIMMABLE (Non-Marking)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
ALUMINUM BACK (Rigid Support)			<input checked="" type="checkbox"/>	
ALUMINUM (Non-Loading)			<input checked="" type="checkbox"/>	
MINI (Tight Spaces)				<input checked="" type="checkbox"/> (Bobcat)

Refer to ANSI B7.1 for storage & handling details

KEY: PERFORMANCE LINE VALUE LINE

All products meet ANSI B7.1

STYLE



CONICAL (Type 29)
15° – 35°

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



FLAT (Type 27)
0° – 15°

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



HIGH DENSITY (Type 27)
0° – 15°

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



HIGH DENSITY (Type 29)
15° – 35°

Conformable to irregular surfaces. Aggressive stock removal, edge beveling and chamfering.

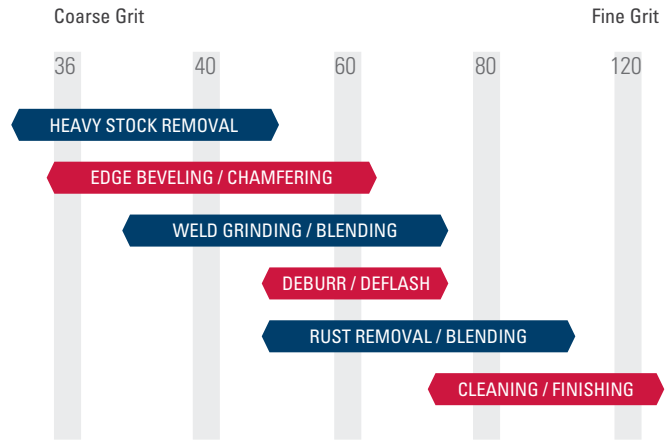


ANGLED (Type 27 / Hybrid)
0° – 35°

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

GRIT

* for grit recommendations for aluminum see page 8.



GRAIN



CERAMIC ALUMINA (CA)

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



ZIRCONIA ALUMINA (ZA)

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

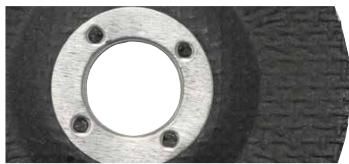


ALUMINUM OXIDE (AO)

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

BACKING

PHENOLIC



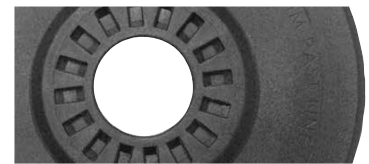
Prevents backing from scratching the workpiece.

ALUMINUM



Rigid support for maximum aggression; recyclable.

COMPOSITE*



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

*BobCat™ Discs are not trimmable.

ARBOR

5/8" - 11 NUT

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



OPEN ARBOR

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

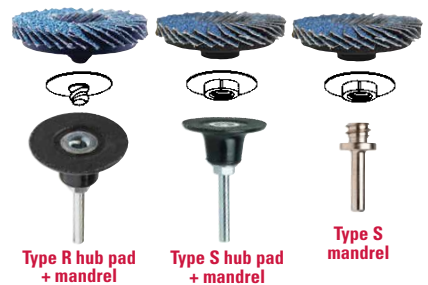


MOUNTING DISCS WITH OPEN ARBORS



MANDRELS & METAL HUB PADS

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



STANDARD DENSITY FLAP DISCS



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



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

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



50106

P MAX PERFORMANCE / TIGER® CERAMIC (SABER TOOTH)

Top Coated for Cool Grinding / Ceramic Alumina / Phenolic Back

STEEL / METAL		STAINLESS		HARD-TO-GRIND		ALUMINUM		TYPE 29 7/8" Arbor		TYPE 29 5/8"-11 Hub	
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #	Item #	Item #	Item #	Item #
4-1/2"	36	13,000	10	50100	50104*						
	40			50101	50105*						
	60			50102	50106*						
	80			50103	50107*						
7"	36	8,600	10	—	—	—	—	50109	50112*	50113*	
	40										



51205

P HIGH PERFORMANCE / TIGER X

Fast Grinding & Long Life on Flat Surfaces / Ceramic & Zirconia Alumina / Phenolic Back

STEEL / METAL		STAINLESS		TYPE 29 7/8" Arbor		TYPE 29 5/8"-11 Hub		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #	Item #	Item #	Item #	Item #
4-1/2"	36	13,000	10	51200	51204*	—	—	—	—	—	—
	40			51201	51205*	51223	51226*				
	60			51202	51206*	51224	51227*				
	80			51203	51207*	51225	51228*				
5"	36	12,000	10	51208	—	—	—	—	—	—	—
	40			51209	51212*	—	—	—	—		
	60			51210	51213*	—	—	—	—		
	80			—	51214*	—	—	—	—		
6"	40	10,200	10	51237	51241*	—	—	—	—	—	—
	60			51238	51242*	—	—	—	—		
7"	36	8,600	10	51215	51219*	—	—	—	—	—	—
	40			51216	51220*	51229	51232*				
	60			51217	51221*	—	51233*				
	80			—	51222*	51231	51234*				



Industry First

X3

Technology

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



Ceramic alumina and zirconia alumina grain mix
Grinds Faster and Lasts Longer.



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

P PERFORMANCE / TIGER PAW™

Aggressive Stock Removal for Edge Grinding / 100% Zirconia Alumina / Phenolic Back

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



51126

V WOLVERINE®

Consistent Performance / Zirconia Alumina / Phenolic Back

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



31343

Key:

P PERFORMANCE LINE Industrial Grade

V VALUE LINE Professional Grade

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

*Patent # 6,945,863 B1

HIGH DENSITY FLAP DISCS



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

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



50134

P MAX PERFORMANCE / TIGER® CERAMIC HD (SABER TOOTH)

Top Coated for Cool Grinding on Irregular Surfaces / Ceramic Alumina / Phenolic Back

STEEL / METAL STAINLESS HARD-TO-GRIND ALUMINUM

TYPE 27
7/8" Arbor

TYPE 27
5/8"-11 Hub

Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	12,000	10	50130	50133*
	60			50131	50134*
	80			50132	50135*
7"	40	8,600	10	50136	50139*
	60			—	50140*
	80			—	50141*



50804

P HIGH PERFORMANCE / TIGER BIG CAT® HD

Fast Grinding & Long Life on Irregular Surfaces / Zirconia Alumina / Phenolic Back

STEEL / METAL STAINLESS

TYPE 27
7/8" Arbor

TYPE 27
5/8"-11 Hub

Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	12,000	10	50803	50808*
	60			50804	50809*
	80			50805	50810*
	120			50806	—
7"	40	8,600	10	50823	50843*
	60			50824	50844*
	80			50825	50845*

25MM WIDE FLAPS
INDUSTRY STANDARD

30MM WIDE FLAPS
BIG CAT & TIGER PAW HD

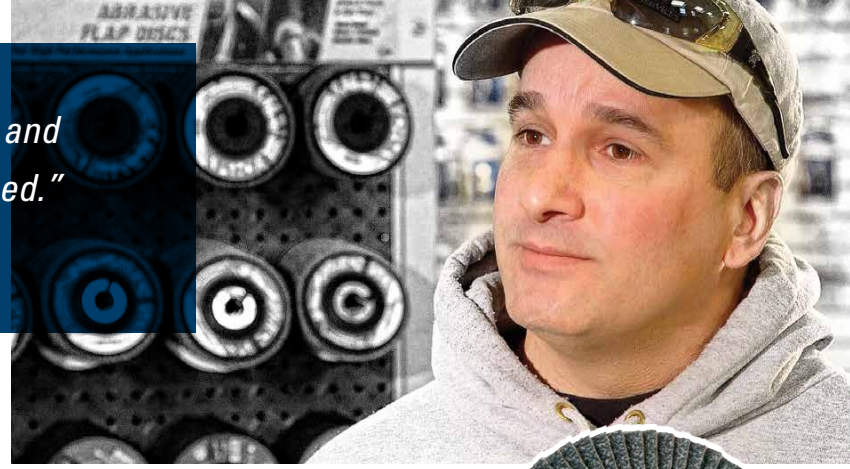
INDUSTRY-LEADING FOOTPRINT

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



"I have been in the business for 20+ years and I find Weiler to be the best I have ever used."

- Andy Bettelli, Pipeline Contractor, A B Welding



P PERFORMANCE / TIGER PAW™ HD

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

STEEL / METAL **STAINLESS**

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



51165

V WOLVERINE® HD

Consistent Performance on Irregular Surfaces / Zirconia Alumina / Phenolic Back

STEEL / METAL

Diameter	Grit	Max. RPM	Std. Pack	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Item #	Item #	Item #	Item #
4-1/2"	40	12,000	10	31387	31390*	31388	31391*
	60			31388	31391*	31389	31392*
	80			31389	31392*	31439	31443*
6"	40	10,200	10	-	31444*	-	31444*
	60			31441	31445*	31441	31445*
	80			31441	31445*	31441	31445*



31388

ACCESSORIES

ADAPTING NUTS & SPANNER WRENCH

For use with standard, HD and specialty flap discs.

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

When mounting, adapters must be nested, see illustration at right.



Key:

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

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

*Patent # 6,945,863 B1

SPECIALTY FLAP DISCS



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

ALUMINUM BACK

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



P HIGH PERFORMANCE / TIGER® ALUMINUM BACK

Fast Grinding & Long Life / Zirconia Alumina / Backing Plate Provides Rigid Support



50519

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



51250

FOR ALUMINUM

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

Coarse
36 Grit

Fine
60 Grit

Ideal for chamfering, beveling, weld removal and stock removal

Ideal for weld blending, finishing and cosmetic detail work

HIGH PERFORMANCE / TIGER® ALUMINUM

Non-Loading / Contaminant-free / Zirconia Alumina / Phenolic Back

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

PAIRED FLAP DESIGN

Delivers High Performance Grinding on Aluminum

SELF SHARPENING

Zirconia Alumina Grains Deliver Aggressive Grinding

COATED FLAPS

Eliminate Loading



ANGLED DISCS

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

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



The curved flap design provides optimal contact when grinding fillet welds.

P MAX PERFORMANCE / TIGER® CERAMIC ANGLED

Top Coated for Cool Grinding on Fillet Welds / Ceramic Alumina / Phenolic Back

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



51313

P HIGH PERFORMANCE / TIGER ANGLED

Fast Grinding & Long Life on Fillet Welds / Zirconia Alumina / Phenolic Back

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



51303

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

SPECIALTY FLAP DISCS

TRIMMABLE DISCS



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

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

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



50121

P MAX PERFORMANCE / TIGER® CERAMIC TRIM (SABER TOOTH)

Top Coated for Cool Grinding / Ceramic Alumina / Trimmable Composite Back for Versatility

STEEL / METAL	STAINLESS	HARD-TO-GRIND	ALUMINUM	TYPE 29	
				7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	13,000	10	50117	50121*
	60			50118	50122*

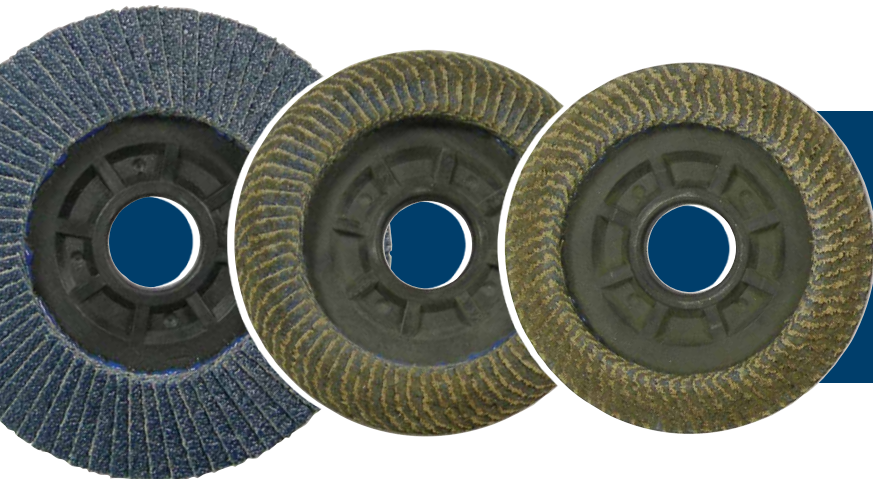


50003

P PERFORMANCE / TIGER TRIM

Long Grinding Life / Zirconia Alumina / Trimmable Composite Back for Versatility

STEEL / METAL	STAINLESS	Diameter	Grit	Max. RPM	Std. Pack	TYPE 29	
						7/8" Arbor	5/8"-11 Hub
4-1/2"			40	13,000	10	50002	50006*
			60			50003	50007*
			80			50004	50008*
			120			—	50009*
5"		40	12,000	10	50010	50014	



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

MINI DISCS



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

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



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

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



S Mount



R Mount

P PERFORMANCE / TIGER BOBCAT™

Grinding Hard-to-Reach Places
Zirconia Alumina / Composite Back

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

* Back-up pad not required if used with S mount mandrel. 3" discs are compatible with Norton Speed-Lok™ TS back-up pads.

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



50923



50952

ACCESSORIES

BOBCAT DRIVE MANDRELS & METAL HUB PADS

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

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



60509



07766

Key:

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

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

*Patent # 6,945,863 B1



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For the full offering of Weiler products, please refer to our Full Line Catalog or visit our website. To discuss specific requirements with a product specialist, call 800.835.9999.

