

FASTENAL

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FASTENAL®



GRIND AND FINISH IN ONE STEP

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 (Contains less than 0.1% Fe, S, Cl)	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 (Contains less than 0.1% Fe, S, Cl)	STYLES  *Big Cat	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 (Contains less than 0.1% Fe, S, Cl)	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)			
TRIMMABLE (Non-Marking)			
ALUMINUM BACK (Rigid Support)			
ALUMINUM (Non-Loading)			
MINI (Tight Spaces)			 (Bobcat)

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.

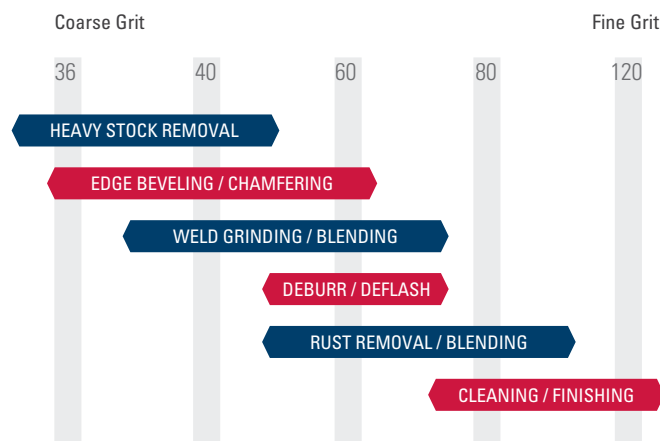


ANGLED (Type 27 / Hybrid)
0° – 35°



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

GRIT



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 PLATE

PHENOLIC



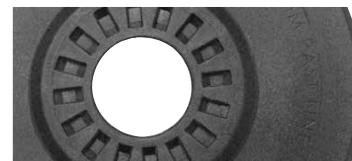
Prevents backing from scratching the workpiece.

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



MANDRELS & METAL HUB PADS

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





Grinding & blending a weld between two steel plates.

STANDARD DENSITY FLAP DISCS



Weiler's Tiger discs are engineered to maximize productivity and minimize operating costs for professionals who demand more. Get the right flap disc for your application and **get more done with Tiger**.



0839106

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	
				FAST #	FAST #
4-1/2"					0839104*
					0839105*
					0839106*
					0839107*
7"					0839112*
					0839113*



0815946

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 27 7/8" Arbor	
				FAST #	FAST #	FAST #	FAST #
4-1/2"				0815941	0815945*	—	—
				0815942	0815946*	0815949	0815952*
				0815943	0815947*	0815950	0815953*
				0815944	0815948*	0815951	0815954*
5"				0815955	—	—	—
				0815956	0815959*	—	—
				0815957	0815960*	—	—
				—	0815961*	—	—
6"				922444465	922444536*	—	—
				922444510	922444527*	—	—
				—	—	—	—
7"				0815962	0815966*	—	—
				0815963	0815967*	0815970	0815973*
				0815964	0815968*	—	0815974*
				—	0815969*	0815972	0815975*



Industry First

X3

Technology

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



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



Beveling pipe on edge with a Tiger Paw flap disc.

P PERFORMANCE / TIGER PAW®

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

STEEL / METAL	STAINLESS	Max. RPM	Std. Pack	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
				FAST #	FAST #	FAST #	FAST #	FAST #	FAST #
4"	40	15,000	10	0865553	—	—	0865555	—	—
	60			0865554	—	—	0865556	—	—
	80			—	—	—	—	—	—
4-1/2"	36	13,000	10	—	0865558	0865557*	—	0865566	0865565*
	40			—	0865560	0865559*	—	0865568	0865567*
	60			—	0865562	0865561*	—	0865570	0865569*
	80			—	0865564	0865563*	—	0865572	0865571*
5"	36	12,000	10	—	—	0865587*	—	—	0865581*
	40			—	0865589	0865588*	—	0865583	0865582*
	60			—	—	0865590*	—	0865585	0865584*
	80			—	—	0865592*	—	—	0865586*
6"	40	10,200	10	—	922444490	922444541*	—	—	—
	60			—	922444479	922444464*	—	—	—
	80			—	923353203	923353197*	—	—	—
	80			—	—	—	—	—	—
7"	36	8,600	10	—	—	0865593*	—	—	0865599*
	40			—	0865595	0865594*	—	0865601	0865600*
	60			—	0865597	0865596*	—	—	0865602*
	80			—	—	0865598*	—	—	0865604*



0865563

V WOLVERINE®

Consistent Performance / Zirconia Alumina / Phenolic Back

STEEL / METAL	STAINLESS	Max. RPM	Std. Pack	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
				FAST #	FAST #	FAST #	FAST #	FAST #
4"	36	15,000	10	0868044	—	—	—	—
	40			0868045	—	—	—	—
	60			0868046	—	—	—	—
	80			99061053	—	—	—	—
4-1/2"	36	13,000	10	—	0811841	0868050*	0868067	99061060*
	40			—	0811793	0868051*	0868068	99061061*
	60			—	0811842	0868052*	0868069	0868070*
	80			—	0811796	0811852*	99061059	0868071*
	120			—	0868048	0868053*	—	—
5"	36	12,000	10	—	0868054	—	—	—
	40			—	0811791	—	—	—
	60			—	0811803	—	—	—
	80			—	0811807	—	—	—
6"	40	10,200	10	—	923353210	—	—	—
	60			—	923353189	923353199*	—	—
	80			—	—	923353195*	—	—
	80			—	—	—	—	—
7"	36	8,600	10	—	0868056	0868059*	—	99061065*
	40			—	0868057	0868060*	—	99061066*
	60			—	0811835	0811830*	99061063	0868073*
	80			—	99061056	0868061*	—	99061067*
	80			—	—	—	—	—



0811841

Key:

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

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

*Patent # 6,945,863 B1



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

HIGH DENSITY FLAP DISCS

High density flap discs last up to 40% longer than standard density. They are ideal for grinding and blending uneven or irregular surfaces.



0868081



5138-50804

P MAX PERFORMANCE / 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	FAST #	FAST #
4-1/2"	40	12,000	10	0868077	0868080*
	60			0868078	0868081*
	80			0868079	0868082*
7"	40	8,600	10	99061334	99061337*
	60			—	0868083*
	80			—	0868084*

P HIGH PERFORMANCE / 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	FAST #	FAST #
4-1/2"	40	12,000	10	5138-50803	5138-50808*
	60			5138-50804	5138-50809*
	80			5138-50805	0811834*
	120			5138-50806	—
7"	40	8,600	10	0811792	0811827*
	60			0811811	0811798*
	80			99061401	0868134*

25MM WIDE FLAPS
INDUSTRY STANDARD

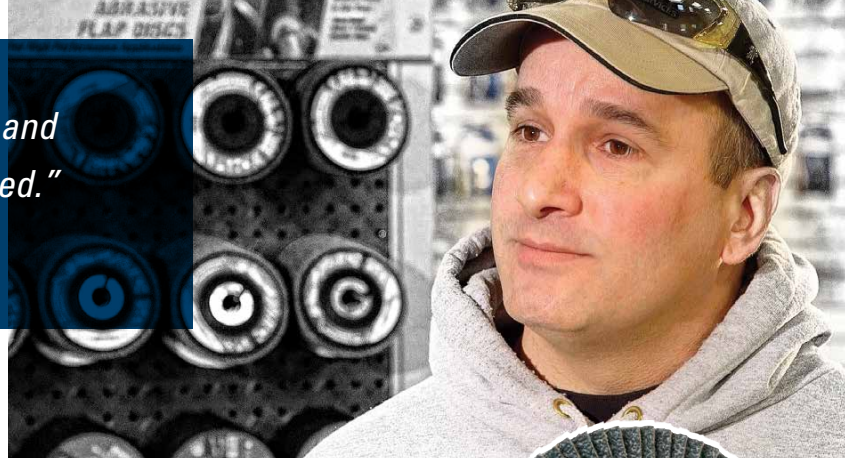
30MM WIDE FLAPS
BIG CAT & TIGER PAW HD

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		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	FAST #	FAST #	FAST #	FAST #	FAST #	FAST #	FAST #	FAST #
4-1/2"	36	12,000	10	923353204	923353212*	0865574	0865573*	0865574	0865573*	0865574	0865573*
	40			922444530	922444540*						
	60			923353201	923353194*						
	80			923353190	923353187*						
6"	40	10,200	10	—	—	923353200	—	923353200	—	923353200	—
	60			—	—						
	80			—	—						
7"	40	8,600	10	—	—	0865607	—	0865607	—	0865605*	0865606*
	60			—	—						



0865577

V WOLVERINE® HD

Consistent Performance on Irregular Surfaces / Zirconia Alumina / Phenolic Back

STEEL / METAL		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
Diameter	Grit	Max. RPM	Std. Pack	FAST #	FAST #
4-1/2"	40	12,000	10	0868062	0868065*
	60			0868063	0868066*
	80			0868064	0811822*
6"	40	10,200	10	923353208	923353193*
	60			—	923353206*
	80			923353207	923353198*



0868063

ACCESSORIES

ADAPTING NUTS & SPANNER WRENCH

For use with standard, HD and specialty flap discs.

Description	Thread Size	For Use With	Std. Pack	FAST #
Adapting Nuts	3/8" - 24	4" flap disc with 5/8" arbor hole (can be used with an adjustable or combination wrench)	1 Pair	0806907
Adapting Nuts	5/8" - 11	4-1/2", 5" & 7" flap discs with 7/8" arbor hole	1 Pair	0811764
Spanner Wrench	—	Item No. 56494 only	1	0806910

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

* Patent # 6,945,863 B1

SPECIALTY FLAP DISCS

ALUMINUM BACK

Tiger Aluminum Back flap discs are the benchmark for the pipeline industry, providing rigid support for maximum aggression. These wheels 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.



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

P HIGH PERFORMANCE / TIGER® ALUMINUM BACK

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

STEEL / METAL	STAINLESS			TYPE 29		
				5/8" Arbor	7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	FAST #	FAST #	FAST #
4"	36	15,000	10	0868085	—	—
	40			0868086	—	—
	60			0811825	—	—
	80			0868087	—	—
4-1/2"	24	13,000	10	—	0800631	0800636*
	36			—	0800632	0800637*
	40			—	0800633	0800638*
	60			—	5138-50514	0800639*
	80			—	0800634	0800640*
	120			—	0800635	0800641*
5"	36	12,000	10	—	0868088	—
7"	24	8,600	10	—	—	0811836*
	36			—	—	0811826*
	40			—	—	0868092*
	60			—	—	0811810*
	80			—	—	0811794*



0800639

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

Ideal for chamfering,
beveling, weld
removal and stock
removal

Fine
60 Grit

Ideal for weld
blending, finishing and
cosmetic detail work

HIGH PERFORMANCE / TIGER® ALUMINUM

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

ALUMINUM				TYPE 27			
				7/8" Arbor	5/8"-11 Hub	7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	FAST #	FAST #	FAST #	FAST #
4-1/2"	36	13,000	10	922474041	922474044	922474043	922474040
	60			922474042	922474046	922474045	922474047



922474043

PAIRED FLAP DESIGN

Delivers High Performance Grinding
on Aluminum

SELF SHARPENING

Zirconia Alumina Grains Deliver Aggressive Grinding

COATED FLAPS

Eliminate Loading



ANGLED DISCS



The 90° angled flap design is ideal for grinding fillet welds, T-joints and other hard-to-reach places. The flaps wrap around the edge of the backing plate, optimizing flap-to-metal contact and providing exceptional feel and control while grinding.



Blending fillet welds to ensure proper penetration prior to inspection.

P MAX PERFORMANCE / TIGER CERAMIC ANGLED

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

Diameter	Grit	Max. RPM	Std. Pack	7/8" Arbor	5/8"-11 Hub
				FAST #	FAST #
4-1/2"	40	13,000	10	0829387	0829390
	60			0829388	0829391
	80			0829389	0829392
5"	40	12,000	10	0829393	0829396
	60			0829394	0829397



0829388

P HIGH PERFORMANCE / TIGER ANGLED

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

Diameter	Grit	Max. RPM	Std. Pack	7/8" Arbor	5/8"-11 Hub
				FAST #	FAST #
4-1/2"	40	13,000	10	0829375	0829378
	60			0829376	0829379
	80			—	0829380
5"	40	12,000	10	0829381	0829384



0829378

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.



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.



0839121

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	Std. Pack	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub
					FAST #	FAST #
Diameter 4-1/2"	Grit 40	Max. RPM 13,000	Std. Pack 10		0839117	0839121*
					0839118	0839122*

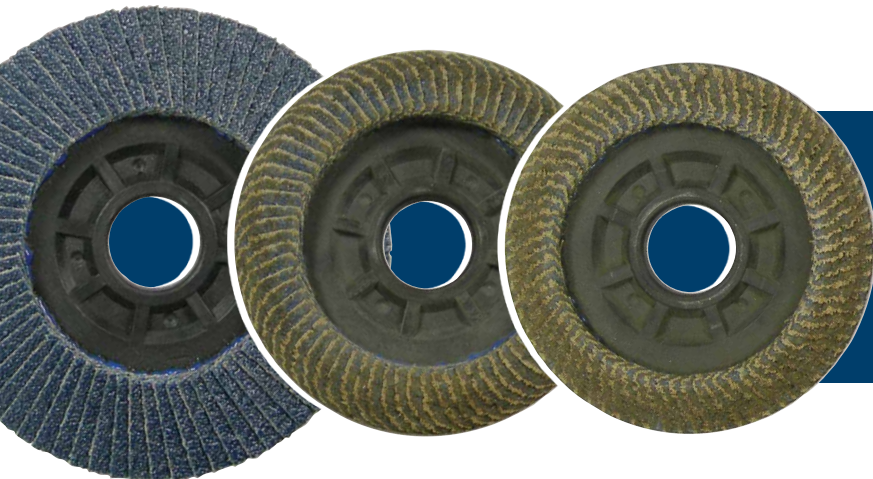


0800645

P PERFORMANCE / TIGER TRIM

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

STEEL / METAL	STAINLESS	Grit	Max. RPM	Std. Pack	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub
					FAST #	FAST #
Diameter 4-1/2"	Grit 40	Max. RPM 13,000	Std. Pack 10		0800644	0868074*
					0800645	0868075*
					0800646	0868076*
					—	99061330*
5"	40	12,000	10		99061331	0811789



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

MINI DISCS



The expanded mini flap disc line now offers a threaded button R mount in addition to the current S mount for greater versatility to fit the most popular styles of hub pads. These discs are designed for use on die grinders to provide smooth grinding and enhanced conformability in tight areas.

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



S Mount



R Mount



Edge chamfering a fabricated stainless steel component.

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	FAST #	FAST #	FAST #	FAST #	FAST #	FAST #	FAST #	FAST #
2"	36	30,000	10	—	0868138	0831953	0831963	—	—	—	—
	40			0811859	0868139	0831954	0831964	—	—	—	—
	60			0811840	0811823	0831955	0831965	—	—	—	—
	80			0811821	0811813	0831956	0831966	—	—	—	—
	120			—	0811860	0831957	0831967	—	—	—	—
3"	36	20,000	10	0811815	0868137	0831958	0831968	—	—	—	—
	40			0811839	0811814	0831959	0831969	—	—	—	—
	60			0811817	0811805	0831960	0831970	—	—	—	—
	80			0868135	0811808	0831961	0831971	—	—	—	—
	120			—	0811831	—	0831972	—	—	—	—

* 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.



0811859



0831960

ACCESSORIES

BOBCAT DRIVE MANDRELS & METAL HUB PADS

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

Description	Std. Pack	FAST #
2" & 3" S mount mandrel	1	0813303
2" S mount hub pad + mandrel	1	0868352
3" S mount hub pad + mandrel	1	0868353
2" R mount hub pad + mandrel	1	0868347
3" R mount hub pad + mandrel	1	0868348



0868352

0868353



0868347



0813303

Key:



PERFORMANCE LINE
Industrial Grade



VALUE LINE
Professional Grade

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

* Patent # 6,945,863 B1

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