



**PERFORMANCE**  
**SUPERIOR LIFE & CUT  
MAX PERFORMANCE**

**TIGER CERAMIC**

Self-sharpening grain, cool cutting and contaminant-free. Removes material effortlessly while a hard bond keeps working longer.

**PIPELINE**

Ceramic-infused wheels designed for bead and angle grinding applications on the pipeline.

**LONG LIFE & FAST CUT  
HIGH PERFORMANCE**

**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.

**TIGER ALUMINUM**

A unique blend of abrasive grains with Weiler's non-loading formula delivers a fast and consistent cut rate on aluminum. Contaminant-free.

**LONG LIFE  
PERFORMANCE LINE**

**TIGER**

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

**FAST CUT  
VALUE LINE**

**WOLVERINE**

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

**MATERIAL**  
**STEEL / METAL**  
**STAINLESS** | **HARD-TO-GRIND**  
(Hard-to-grind metals include tool steel, inonel, high nickel alloy, titanium and armored steel)

**PIPELINE**

**STEEL / METAL**  
(Includes structural steel and cast iron)

**STAINLESS**  
and harder grade steel

**ALUMINUM**  
(Aluminum and other non-ferrous metals)

**STEEL / METAL**

**STEEL / METAL**

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

**ULTRA THIN WHEEL**  
1MM



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

**THIN WHEEL**  
.045"



Tubes, bar stock and large cross-sections

**THIN WHEEL**  
.060"



Angle Iron, large cross-sections

**CUTTING WHEEL**  
3/32"



Notching

**PIPELINE NOTCHING WHEEL**  
1/8"



Switching between cutting and grinding

**COMBO WHEEL**  
1/8"



For tough root pass notching & facing applications on the pipeline

**PIPELINE NOTCHING WHEEL**  
1/8"



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

**GRINDING WHEEL**  
1/4"



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

**CONES & PLUGS**



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

**CUP WHEELS**

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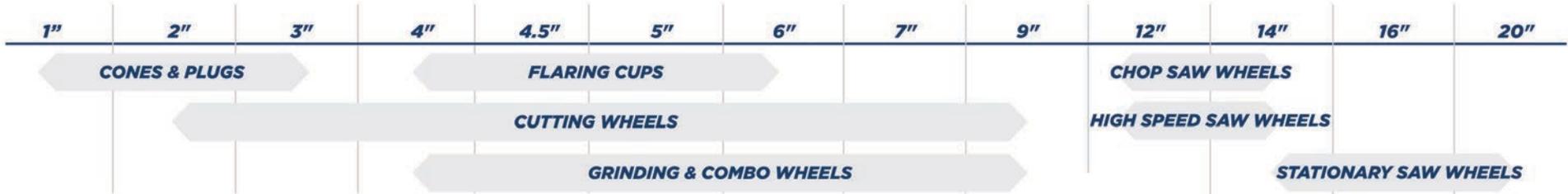
**CUTTING, GRINDING & COMBO WHEELS, FLARING CUPS, CONES, PLUGS**

Our high quality line up helps you easily select the best solution for your toughest metal fabrication jobs.

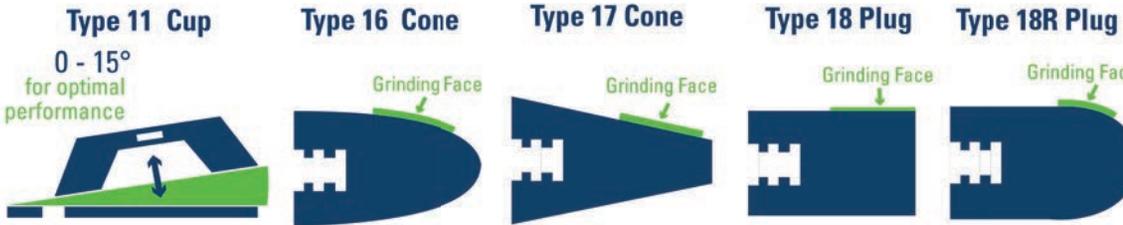


# BONDED FIELD SELECTION GUIDE

SIZE



TYPE



MOUNTING

Mandrel required for 1/4" & 3/8" arbors on 2", 3" & 4" products



- Quick spin-on, spin-off change over
- Metal nut eliminates cross-threading or sticking to spindle due to heat build-up

GRAIN

- Ceramic Alumina (CG)**
  - Self-sharpening crystals with predetermined fracture points
  - High cut rate at moderate pressure
- Zirconia Alumina (ZA)**
  - Self-sharpening crystals
  - Holds up under extreme pressure
  - Sharper, faster cut
- Aluminum Oxide (AO)**
  - Single crystal
  - Durable for short-term grinding
- Silicon Carbide (C)**
  - Extremely hard grain
  - Very sharp and fast cutting
  - Friable, not as tough as other grains



GRIT



GRADE





PERFORMANCE & STYLE

	MAX PERFORMANCE	HIGH PERFORMANCE	PERFORMANCE	VALUE
<b>ADVANTAGES</b>	<p><b>TIGER CERAMIC</b></p> <ul style="list-style-type: none"> <li>• <b>TOP COAT</b> for cool, fast grinding</li> <li>• Protects from heat discoloration</li> <li>• Prevents loading on soft alloys</li> </ul> <p>ABRASIVE GRAIN: Ceramic Alumina CONTAMINANT FREE: Yes</p>	<p><b>TIGER X</b></p> <ul style="list-style-type: none"> <li>• <b>FLAT SURFACE GRINDING</b></li> <li>• Less effort required</li> <li>• Fast grinding &amp; long life</li> </ul> <p>Ceramic &amp; Zirconia Alumina Yes</p>	<p><b>TIGER PAW</b></p> <ul style="list-style-type: none"> <li>• <b>SUPERIOR EDGE GRINDING</b></li> <li>• Aggressive stock removal</li> </ul> <p>100% Zirconia Alumina Yes</p>	<p><b>WOLVERINE</b></p> <ul style="list-style-type: none"> <li>• Fast stock removal</li> <li>• Consistent performance</li> </ul> <p>Zirconia Alumina</p>
<b>BEST ON</b>	Stainless Steel, Aluminum, Tool Steel, Inconel, High Nickel Alloy, Titanium and Armored Steel	Carbon Steel, Stainless Steel, Structural Steel and Cast Iron		Steel, Cast Iron, General Use
<b>CONICAL</b> (Type 29) The angle maximizes surface contact for aggressive stock removal on flat surfaces.	(SABER TOOTH)			
<b>FLAT</b> (Type 27) Smooth grinding, blending and finishing on flat surfaces and slight contours.				
<b>HIGH DENSITY</b> (Type 27 & Type 29) Conformable to irregular surfaces. Smooth grinding, blending & finishing on flat surfaces.	(SABER TOOTH)	(BIG CAT*)		

SPECIALTY DISCS

**Trimable** (Non-Marking)

Trimable composite backing for flexibility and versatility. Will not mark the workpiece.

**Aluminum Back** (Rigid Support)

Aluminum backing plate provides rigid support needed in pipeline applications.

**Aluminum** (Non-Loading)

Paired flap design for high performance grinding on aluminum. Coating is designed to eliminate loading and allows disc to maintain a high cut-rate.

**BobCat Mini Discs** (Tight Spaces)

For grinding hard-to-reach areas. Composite backing.

**Angled** (Fillet Welds)

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

GRIT



KEY: PERFORMANCE LINE VALUE LINE

# FLAP DISC FIELD SELECTION GUIDE

**CONTAMINANT-FREE**  
ALL PERFORMANCE LINE PRODUCTS  
CONTAIN LESS THAN 0.1% IRON, SULPHUR & CHLORINE

KEY: PERFORMANCE LINE VALUE LINE

DISC SIZE

	2"	3"	4"	4.5"	5"	6"	7"
<b>TIGER CERAMIC</b>				✓	✓		✓
<b>TIGER CERAMIC HD</b>				✓	✓		✓
<b>TIGER X</b>				✓	✓	✓	✓
<b>TIGER BIG CAT (HD)</b>				✓	✓		✓
<b>TIGER ANGLED</b>				✓	✓		
<b>TIGER TRIMMABLE</b>				✓	✓		
<b>TIGER ALUMINUM BACK</b>			✓	✓	✓		✓
<b>TIGER ALUMINUM</b>				✓			
<b>TIGER MINI BOBCAT</b>	✓	✓					
<b>TIGER PAW</b>			✓	✓	✓	✓	✓
<b>TIGER PAW HD</b>				✓	✓	✓	✓
<b>WOLVERINE</b>			✓	✓	✓	✓	✓
<b>WOLVERINE HD</b>				✓		✓	✓

BACKING

## Phenolic



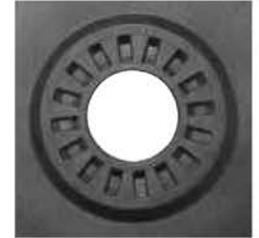
Prevents backing from scratching the workpiece.

## Aluminum



Rigid support for maximum aggression; recyclable.

## Composite\*



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

\*BobCat™ Discs are not Trimmable.

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

ARBORS & DRIVE MANDRELS

## 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



## 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



## Mandrels & Metal Hub Pads

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



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# POWER BRUSH FIELD SELECTION GUIDE

The basics you need to know to help select the right power brush for your Welding & Fabrication needs. Get your job done faster, safer, and better.

## P PERFORMANCE LINE / INDUSTRIAL GRADE

Engineered to maximize performance in the most demanding surface conditioning applications. Offers the lowest cost-of-use and most consistent performance in heavy production environments.

## V VALUE LINE / PROFESSIONAL GRADE

Manufactured using the same exacting standards as other Weiler power brushes, but engineered to provide cost-effective use in less demanding environments.



**CONFLEX BRUSHES**  
Best for cleaning ID's, threads, and recessed areas



**END BRUSHES**  
Best for recessed areas & corners



**BEVEL BRUSHES**  
Best for fillet welds & corners



**CUP BRUSHES**  
Best for large surface areas

**WIRE WHEELS**  
Best for weld beads and targeted cleaning

APPLICATIONS

LEAST AGGRESSIVE

MOST AGGRESSIVE



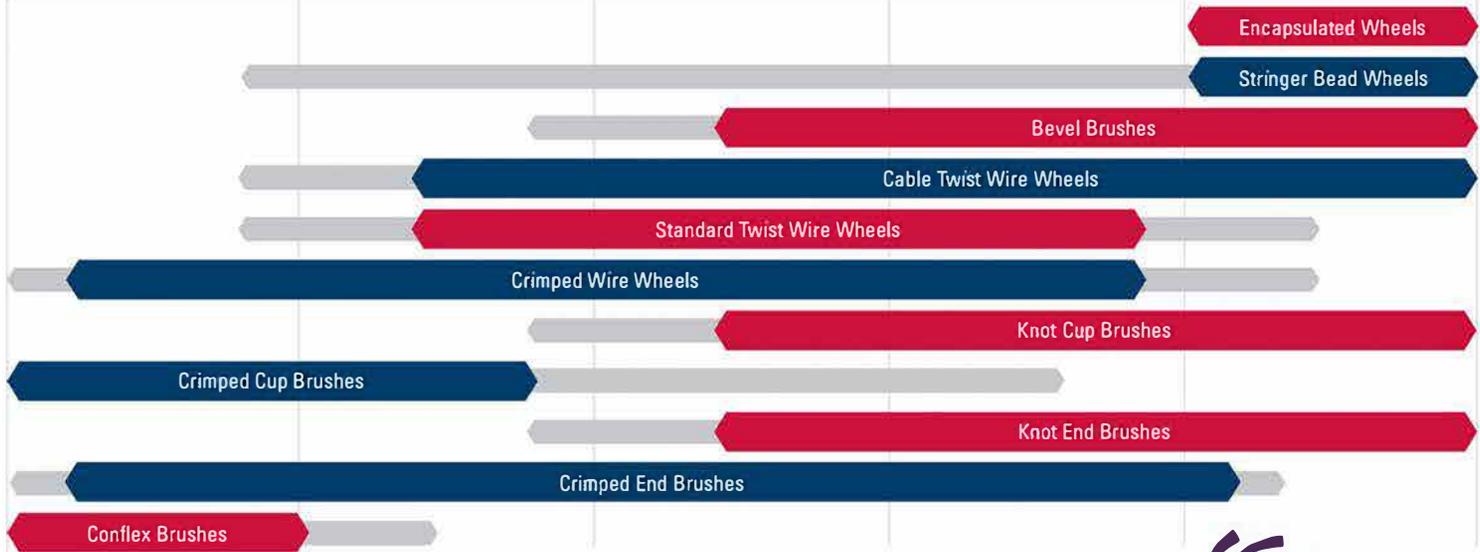
**Cleaning / Deburring**

**Surface Prep**

**Rust / Oxide Removal**

**Coating Removal**

**Weld Cleaning**



# POWER BRUSH FIELD SELECTION GUIDE

## TOOL

Choose your power wire product by tool.



### RIGHT ANGLE GRINDER

Wire Wheels  
Cup Brushes  
Bevel Brushes



### STRAIGHT GRINDER

Wire Wheels  
Bevel Brushes



### DIE GRINDER

Wire Wheels  
End Brushes  
Conflex Brushes



### HAND DRILL

End Brushes  
Conflex Brushes



### BENCH GRINDER

Wire Wheels



### DRILL PRESS

End Brushes  
Conflex Brushes

## WIRE SIZE

To maximize brush life and reduce costs, always use the finest wire that will get the job done without excessive applied pressure or engagement with the brush.



## FILL MATERIAL



### Steel Wire

Carbon steel wire is the most durable power brush fill material for metalworking and heavy-duty cleaning applications.



### Stainless Steel Wire

Recommended when brushing corrosion-resistant or non-ferrous metals such as stainless or aluminum or when the brush is being used in a wet environment.



### Non-Ferrous Wire

(Brass, Bronze & Aluminum) These materials will not generate a spark in use, but lack the durability and aggression of carbon steel and stainless steel wire.

## CRIMPED VS. KNOT



### Crimped Wire Brushes

- **Greater flexibility** for light/medium duty applications
- Less aggressive than a knot wire brush
- Use for a broad range of applications
- Highly conformable for irregular surfaces



### Knot Wire Brushes

- Less flexible and **more aggressive** than crimped wire brush
- Use on parts requiring high-impact action

## TRIM LENGTH

### Long Trim

- Greater flexibility for irregular surfaces
- Shorter life



### Short Trim

- Stiff & aggressive
- Longer life



## KNOT TYPES

### Standard Twist



Flared at the head, providing a larger footprint and some flexibility for use on irregular surfaces. Sharp wire tips make this knot aggressive right from the start.

### Hurricane Twist



Provides smoother operation but sacrifices aggressive cleaning action.

### Cable Twist



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

### Stringer Bead Twist



Thinner, tighter knots make it ideal for high-impact action. Used for tight areas, corners, and root pass weld cleaning. Sharp wire tips make this knot aggressive right from the start.