

# CGW

**CAMEL GRINDING WHEELS**



**Metal Fabrication Products Catalog**  
**June 2010**

# New Products for 2010

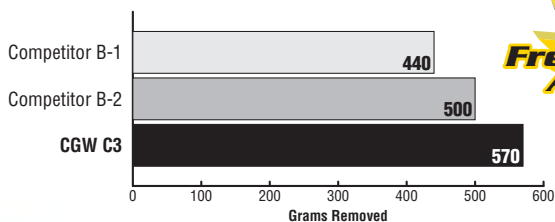
NEW PRODUCTS



## Flap Discs – USA Made

C3 Ceramic – Page 12

C3 Ceramic Flap Discs – Top in Removal



Free Samples Available

\*Based off 3rd party testing over a 30 minute time period.  
Competitor B-1 scratched the material.

Z3 Trimmable – Page 13

5" Z3 Ultimate – Page 16

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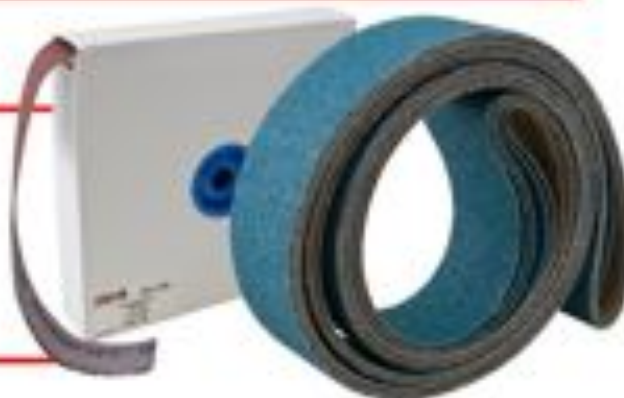
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Samples Available for Testing - Contact CGW for Details



**Cut-Off Wheels**

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**Carbide Burs – USA Made**

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**Surface Grinding Wheels**

Porous Surface Grinding Wheels – Page 119



**Point-Of-Purchase Display**

Flexible Point-Of-Purchase Display – Page 121

## Analysis of Typical Wheel Specifications



**MAXIMUM  
OPERATING  
SPEED**



### CGW Resin Abrasive Types

- A – Dark Aluminum Oxide:** The most common of all grains. This grain is used for heavy-duty general purpose work.
- C – Silicon Carbide:** Aggressive cutting and grinding of stone, concrete, marble, and other non-metallic materials.
- WA – White Aluminum Oxide:** The high friability of this grain gives it the characteristic of fast and cool cutting used for light grinding of steels of all kinds, particularly on tool and stainless steel.
- ZA – Zirconia Aluminum Oxide:** An improvement over basic aluminum oxide grain. Zirconia grain is sharper and easily fractures for faster cutting and longer life.



### CGW Coated Abrasive Types

- C3 – Ceramic:** Self-sharpening ceramic grain. Grain lasts longer than zirconia for aggressive cutting action on hard-to-grind materials.
- Z3 – Zirconia Alumina:** Premium grain for heavy duty applications and longer working life. Contains an active grinding agent for cool cutting. Contaminate-free results; stainless steel won't rust.
- A3 – Aluminum Oxide:** Premium blue fired grain for quick stock removal. Contains an active grinding agent for cool cutting.



### Grain Size

- Coarse:** 8, 10, 12, 14, 16, 20, 24
- Med:** 30, 36, 46, 54, 60
- Fine:** 80, 100, 120, 150, 180
- Very Fine:** 220, 240, 280, 320, 400, 600

### Grade

- Soft:** B, D, E, F, G, H
- Med:** I, J, K, L, M, N, O, P
- Hard:** Q, R, S, T, U, V, W, X

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**New** \*Products released since January 2008 are categorized as NEW.

# USA MADE FLAP DISC



## CGW Offers the **Most Extensive Line of Flap Discs** in the Marketplace

CGW flap discs blend and finish in one operation which replaces the traditional two-step grinding process of T27 grinding wheels and sanding discs.

Flap discs provide a more consistent finish.

CGW flap discs reduce processing time which increases productivity for lower parts finishing costs and provides an overall cost savings.

CGW flap discs are engineered for full use of the coated abrasive material. Layering the abrasive cloth flaps allows the discs to wear evenly which constantly exposes new sharp grain.

CGW's flap disc program contains fully consumable fiberglass and rigid aluminum backings.

## CGW Program Features

*Bonding system:* CGW uses a resin bond developed especially for flap disc applications which withstands the high temperatures that develop when a flap disc is in action – on average 16,000 SFPM (surface feet per minute). This strong bond provides for longer grain retention and leads to better stock removal and longer life.

*Backing system:* The water resistant polyester-cloth (C3, A3, Z-Stainless, Aluminum) or poly-cotton (Z3, Z-PCE, Z-THRU) backing provides greater strength for grain retention, low stretch, and is tougher than typical cotton cloths. CGW also offers the cotton backed Z-Flex for applications that require maximum flexibility.

*Multiple Grains:* CGW offers multiple grain options; the right grain for the work at hand.

*Diameters:* Available in 2" – 7"

*Grits:* 24 – 120

*Design Type (Shape):* Type 27, Type 29 and Compact (see illustrations on page 7)

4-1/2" Z3 has five disc densities: Regular, Compact, Ultimate, XL, and XXL (see page 8). Compact and Ultimate have 20-25% more material than regular. XL and XXL have 35-80% more material than regular.

5/8-11 hub available for 4-1/2" – 7" flap discs. 4" has 3/8-24 available.

# FEATURES & BENEFITS

**CGW - USA Flap Disc Market Leader**



USA MADE FLAP DISCS

## XL40 - The Production Grinding Workhorse

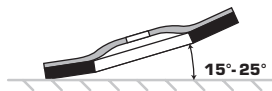
TASK APPLICATION	RECOMMENDED FLAP DISC	SIZES AVAILABLE
Metal/Weld Removal	Z3 / C3	4, 4½, 5, 6, 7
Stainless Steel	Z-Stainless / Z3 / C3	Z3 - 4, 4½, 5, 6, 7 Z-Stainless - 4½, 5, 7
Precise Welds	Z-THRU	4½, 5
Aluminum	Aluminum / A3	A3 - 4, 4½, 5, 7 Aluminum - 4½, 5, 7
Non Ferrous Metals/Soft Metals	A3	4, 4½, 5, 7

### What Type (Shape) Of CGW Flap Disc To Use



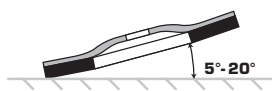
Smooth Finishing

**T-27/Flat** - For working on flat grinding surfaces. Most efficient when used between 0°-15° angle. The best choice for smooth finishing.



Most Aggressive

**T-29/Conical** - For working on contoured and edge work. Flaps are angled at 8 degrees for greater surface contact and aggressive use. Best used at 15°-25° angle.



Edge Strength

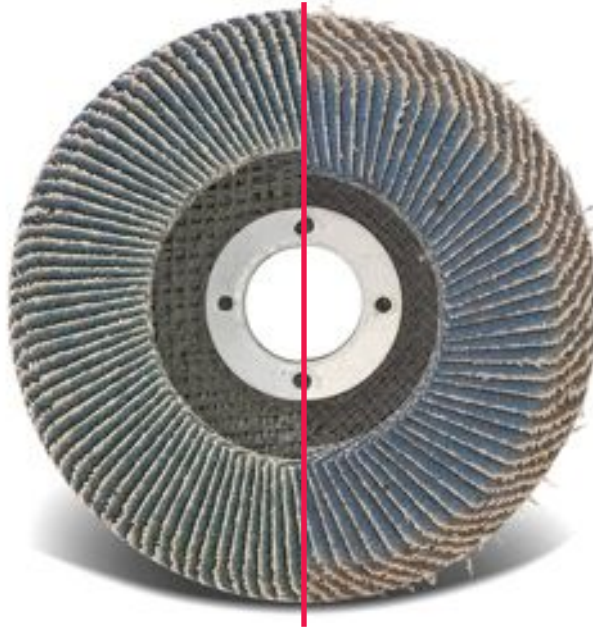
**Hybrid/Compact** - For working on rough edge work. Flaps are compressed at a 4 degree angle for flap edge strength. **All items marked compact in name use this backing plate.** Best used at 5°-20° angle.

# USA MADE FLAP DISC



## CGW XXL Z3 Flap Discs Outgrind the Competition\*

CGW XXL Z3 Flap Disc



Top Competitor Flap Disc  
1/3 less life

\* Each 40 grit flap disc was tested on carbon steel for one 5-minute cycle.

## CGW 4 1/2 Z3 Flap Disc Comparison

**5 Material Configurations**

### Flap Disc Type



**Regular (pg 14-15)** – Fast removal rate for aggressive use and heavy duty applications.

Edge Grinding



**Compact (pg 17)** – Hybrid compact disc design – Flaps are compressed and compacted at a 4 degree angle. **20% more material** than regular Z3 flap discs.

Flexible for Finish Work



**Ultimate (pg 16)** – Z3 Ultimate flap discs have fewer flaps than Z3 XL flap discs which allows the material to further spread out **reducing heat generation** for easier break down compared to XL discs.

Production grinding



**XL (pg 14-15)** – Approximately **35-55% more material** than regular Z3 flap discs.

80% More



**XXL (pg 17)** – **10-20% more material** than XL flap discs. Extra wide flaps for longer working life.

Note: 40 grit discs shown

Samples Available for Testing - Contact CGW for Details

USA MADE FLAP DISCS



# FEATURES & BENEFITS

**Flap discs are used for rough grinding and finishing in one step.**

- Replaces the combined work of grinding wheels and fiber discs.

**Fastest Growing  
Abrasive Category**

## CGW Flap Discs vs. Grinding Wheels

- Faster Stock Removal – No gouging and smooth finish.
- Cooler Performance – Less glazing and loading. Less re-work.
- Consistent Finishing – Easier to control for better quality and no discoloration.
- Easier Operation – Lightweight, layered design has a cushioning effect for reduced operator fatigue and reduced noise and vibration.



## CGW Flap Discs vs. Resin Fibre Discs

- 20 Times Longer Life – Longer working life for great cost savings.
- Self-Sharpening Action – More consistent finishes.
- Easier Storage – No problems with humidity.
- No Back-Up Pad Needed – Reinforced phenolic fiberglass backing wears away with the flaps. No marring, unlike plastic or aluminum backings.



## CGW Flap Discs Only vs. Grinding Wheels + Resin Fibre Discs

- Faster stock removal, less gouging, reduced operator fatigue, and longer life
- Intermediate *and* finishing of welds
- All ferrous *and* non-ferrous materials
- Deburring, deflashing, rust removal *and* snagging
- Surface finishing, blending *and* stock removal
- Cleaning *and* finishing



# LABORATORY RESULTS

## Flap Disc Performance Comparatives

### Flap Disc Specimens

- Disc #1: CGW A3 Material 7"x7/8" 40 Grit (A/O material), Type 29, Regular Density
- Disc #2: CGW Z3 Material 7"x7/8" 40 Grit (A/Z material), Type-29, Regular Density
- Disc #3: CGW Z-Stainless Material 7"x7/8" 40 Grit (A/Z material), Type-29, Regular Density
- Disc #4: Competitor's Material 7"x7/8" 40 Grit (A/Z material), Type-29, Regular Density

### Power Tool Source

Bosch GWS 20-80, 2KW, 8,500 RPM Right Angle Grinder

### Test Parameters

- Engagement load of power tool: 11 lbs. vertical force
- Angle of disc contact: 10 degrees (disc automatically changes its tilt, left to right, 5 times/minute)
- Rotation and speed of material: Clockwise @ 21 RPM
- Measurement criteria: Each disc was tested for six 5-minute grinding cycles, totalling 30 minutes. After each 5-minute cycle the disc and material was weighed to determine weight loss during cycle.

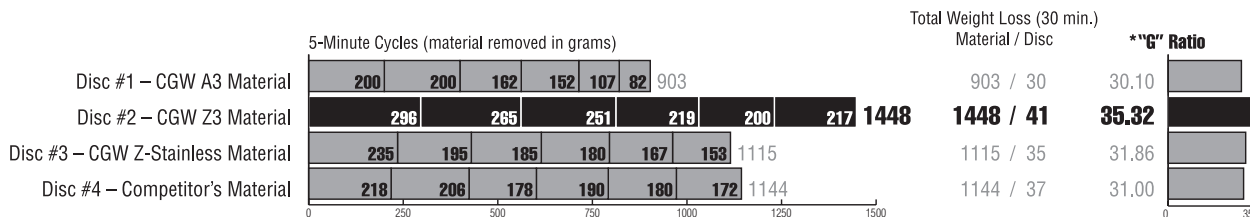
### "G" Ratio

The "G" Ratio is the number of grams removed (material) per gram of abrasive cloth (disc) lost during test.

## Carbon Steel Test

### Test Material

1010 Carbon Steel Tubing – 5/16" wall thickness



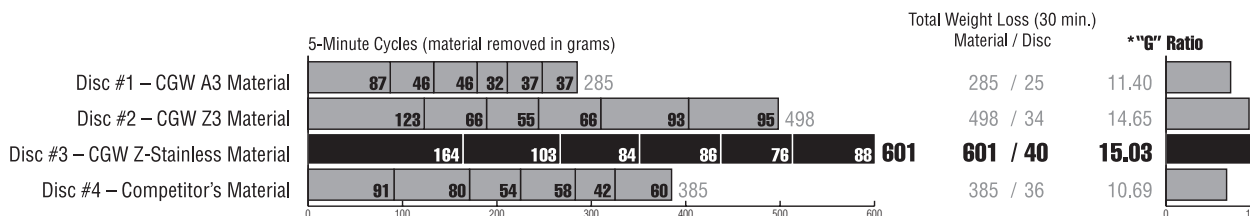
\*Note: The "G" Ratio is the number of grams (material) per gram of abrasive cloth (disc) lost during test.

CGW Z3 flap discs have a 36.6% stock removal advantage and a +13.9% "G" ratio compared to competitor's material. Having a superior stock removal rate coupled with a cost of labor savings make the CGW Z3 flap disc the top choice for carbon steel applications.

## Stainless Steel Test

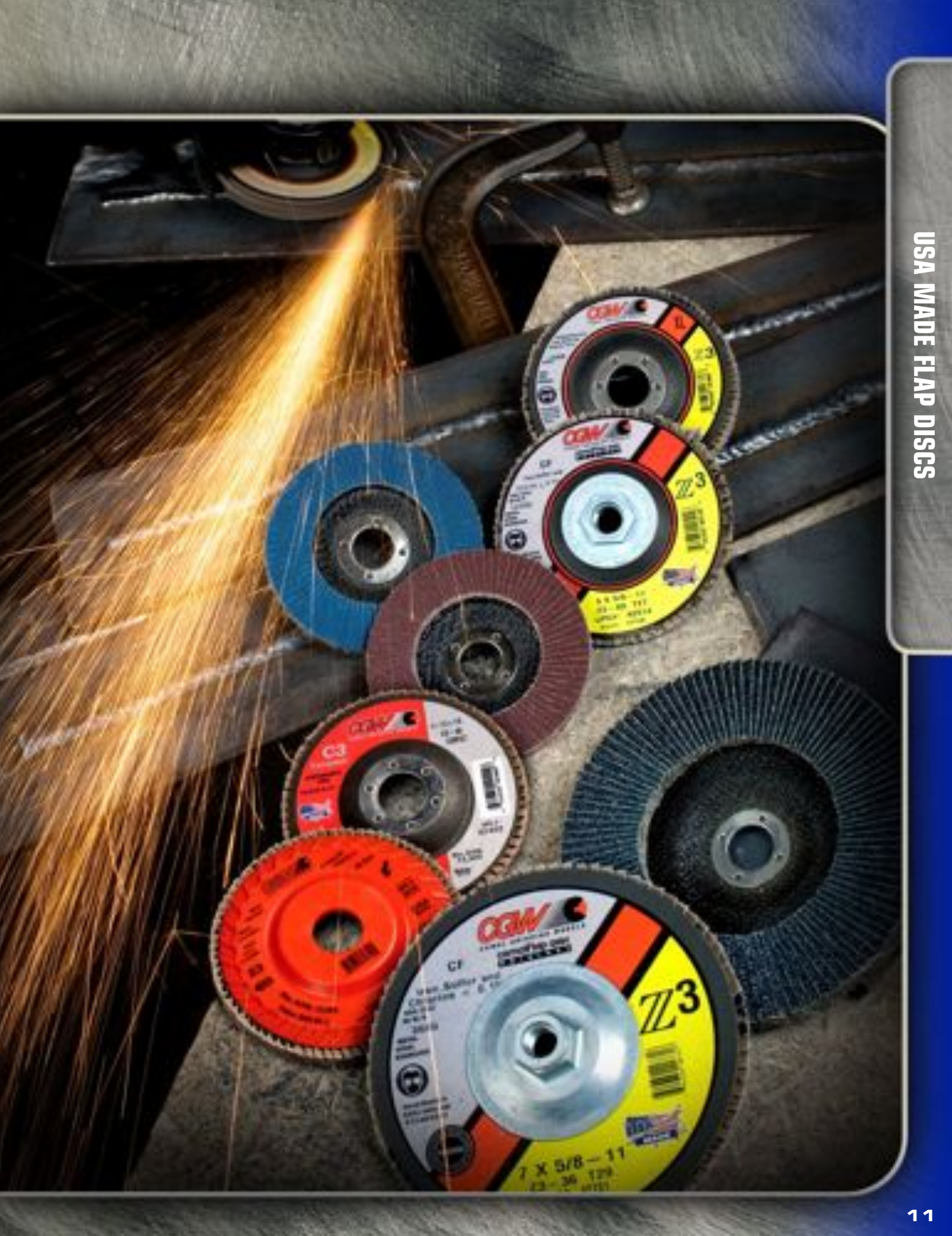
### Test Material

316 Stainless Steel Tubing – 3/16" wall thickness



\*Note: The "G" Ratio is the number of grams (material) per gram of abrasive cloth (disc) lost during test.

CGW Z-Stainless flap discs have a significant +56.1% stock removal rate and a +40.6% "G" ratio compared to competitor's material. Utilizing a grinding aid that reduces heat and lubricates the grain during operation, the CGW Z-stainless flap disc is the superior choice for stainless steel applications.



USA MADE FLAP DISCS

# C3 CERAMIC FLAP DISCS

USA MADE FLAP DISCS - C3 CERAMIC

**New**

## C3 Ceramic USA Made Flap Discs

### Description and Applications

- Self-sharpening ceramic grain and cool grinding aid for fast, aggressive cutting action on hard-to-grind materials.
- Ceramic flap discs are designed to last longer than zirconia flap discs.
- Polyester backing material for longer working life.
- Ceramic grain provides Contaminate-Free results; stainless steel won't rust.
- Hybrid Compact design (4-1/2" and 5") - Flaps are compressed and compacted at a 4 degree for edge strength.
- For steel and stainless and other heat sensitive materials.



Side View



### C3 Ceramic Compact

SIZE	GRIT	RPM	CARTON QTY	COMPACT REGULAR UPC#	COMPACT XL UPC#
4 1/2 x 7/8	36	13,300	10	42401	42441
4 1/2 x 7/8	40	13,300	10	42402	42442
4 1/2 x 7/8	60	13,300	10	42404	42444
4 1/2 x 7/8	80	13,300	10	42405	42445
4 1/2 x 5/8-11	36	13,300	10	42411	42451
4 1/2 x 5/8-11	40	13,300	10	42412	42452
4 1/2 x 5/8-11	60	13,300	10	42414	42454
4 1/2 x 5/8-11	80	13,300	10	42415	42455
5 x 7/8	36	12,200	10	42601	42641
5 x 7/8	40	12,200	10	42602	42642
5 x 7/8	60	12,200	10	42604	42644
5 x 7/8	80	12,200	10	42605	42645
5 x 5/8-11	36	12,200	10	42611	42651
5 x 5/8-11	40	12,200	10	42612	42652
5 x 5/8-11	60	12,200	10	42614	42654
5 x 5/8-11	80	12,200	10	42615	42655

XL Requires high output angle grinders for best results.

### C3 Ceramic

SIZE	GRIT	RPM	CARTON QTY	REGULAR T27 UPC#	REGULAR T29 UPC#
7 x 7/8	36	8,600	10	42801	42821
7 x 7/8	40	8,600	10	42802	42822
7 x 7/8	60	8,600	10	42804	42824
7 x 7/8	80	8,600	10	42805	42825
7 x 5/8-11	36	8,600	10	42811	42831
7 x 5/8-11	40	8,600	10	42812	42832
7 x 5/8-11	60	8,600	10	42814	42834
7 x 5/8-11	80	8,600	10	42815	42835

# Z3 TRIMMABLE FLAP DISCS

## New Z3 Trimmable Flap Discs USA Made Flap Discs

### Description and Applications

- Trimmable Z3 flap disc backing easily trims down to expose flaps for extended working life.
- The trimmable backing allows for longer production times since wheels aren't changed as often.
- Premium Zirconia Alumina grain with a poly/cotton heat treated backing. The poly/cotton combination provides low stretch and strength for the high Zirconia concentration that Z3 contains.
- Active grinding agent provides cool cutting with light pressure.
- Z3 material is recommended for aggressive use and heavy duty applications.
- Hybrid compact design - flaps are compressed and compacted at a 4 degree for edge strength. **20% more material** than regular Z3 flap discs.



ZIRCONIA



### Compact Z3 Trimmable Flap Discs

SIZE	GRIT	RPM	CARTON QTY	UPC#
4 1/2 x 7/8	40	13,300	10	<b>39722</b>
4 1/2 x 7/8	60	13,300	10	<b>39724</b>
4 1/2 x 7/8	80	13,300	10	<b>39725</b>
5 x 7/8	40	12,200	10	<b>39742</b>
5 x 7/8	60	12,200	10	<b>39744</b>
5 x 7/8	80	12,200	10	<b>39745</b>

Backing Plate Side

Material Side

Before



After



To trim down the backing simply grind the backing edge against a metal edge until the flaps are exposed to the level needed.

# Z3 - #1 SELLING FLAP

## Premium Z3 USA Made Flap Discs

### Description and Applications

- Fastest grain removal in the marketplace for carbon based steels (*26% more than the competition*) and second best after CGW Z-Stainless discs on stainless steels, while offering excellent life.
- Recommended for aggressive use and heavy duty applications.
- Active grinding agent provides cool cutting with light pressure.
- Special optimized resin bond offers maximum cutting capacity, strong edge stability and long life.
- Premium Zirconia Alumina grain with a poly/cotton heat treated backing. The poly/cotton combination provides low stretch and strength for the high Zirconia concentration that Z3 contains.



**#1 PERFORMER ON CARBON**  
**#2 PERFORMER ON STAINLESS**



### Premium Z3

SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 x 5/8	24	15,300	10	42101	42120	NA	NA
4 x 5/8	36	15,300	10	42102	42121	SM	42161
4 x 5/8	40	15,300	10	42103	42122	42142	42162
4 x 5/8	60	15,300	10	42104	42124	42144	42164
4 x 5/8	80	15,300	10	42105	42125	42145	42165
4 x 5/8	120	15,300	10	42106	42126	42146	SM
4 x 3/8-24	36	15,300	10	42111	42131	SM	SM
4 x 3/8-24	40	15,300	10	42112	42132	42152	SM
4 x 3/8-24	60	15,300	10	42114	42134	42154	SM
4 x 3/8-24	80	15,300	10	42115	42135	42155	SM
4 x 3/8-24	120	15,300	10	42116	SM	42156	SM
4 1/2 x 7/8	24	13,300	10	42300	42320	SM	SM
4 1/2 x 7/8	36	13,300	10	42301	42321	42341	42361
4 1/2 x 7/8	40	13,300	10	42302	42322	42342	42362
4 1/2 x 7/8	60	13,300	10	42304	42324	42344	42364
4 1/2 x 7/8	80	13,300	10	42305	42325	42345	42365
4 1/2 x 7/8	120	13,300	10	42306	42326	42346	42366
4 1/2 x 5/8-11	24	13,300	10	42310	42330	SM	SM
4 1/2 x 5/8-11	36	13,300	10	42311	42331	42351	42371
4 1/2 x 5/8-11	40	13,300	10	42312	42332	42352	42372
4 1/2 x 5/8-11	60	13,300	10	42314	42334	42354	42374
4 1/2 x 5/8-11	80	13,300	10	42315	42335	42355	42375
4 1/2 x 5/8-11	120	13,300	10	42316	42336	42356	42376

SM: Size/specification available as special make wheel.  
100 piece minimum order.

XL Requires high output angle grinders for best results.

# DISC MATERIAL

USA MADE FLAP DISCS - PREMIUM Z3

## Premium Z3 (cont.)

SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
5 x 7/8	24	12,200	10	42500	42520	NA	NA
5 x 7/8	36	12,200	10	42501	42521	42541	42561
5 x 7/8	40	12,200	10	42502	42522	42542	42562
5 x 7/8	60	12,200	10	42504	42524	42544	42564
5 x 7/8	80	12,200	10	42505	42525	42545	42565
5 x 7/8	120	12,200	10	42506	42526	SM	42566
5 x 5/8-11	24	12,200	10	42510	SM	NA	NA
5 x 5/8-11	36	12,200	10	42511	42531	42551	42571
5 x 5/8-11	40	12,200	10	42512	42532	42552	42572
5 x 5/8-11	60	12,200	10	42514	42534	42554	42574
5 x 5/8-11	80	12,200	10	42515	42535	42555	42575
5 x 5/8-11	120	12,200	10	42516	SM	SM	SM
6 x 7/8	36	10,200	10	53001	53021	53041	53061
6 x 7/8	40	10,200	10	53002	53022	53042	53062
6 x 7/8	60	10,200	10	53004	53024	53044	53064
6 x 7/8	80	10,200	10	53005	53025	53045	53065
6 x 5/8-11	36	10,200	10	53011	53031	53051	53071
6 x 5/8-11	40	10,200	10	53012	53032	53052	53072
6 x 5/8-11	60	10,200	10	53014	53034	53054	53074
6 x 5/8-11	80	10,200	10	53015	53035	53055	53075
7 x 7/8	24	8,600	10	42700	42720	NA	NA
7 x 7/8	36	8,600	10	42701	42721	SM	SM
7 x 7/8	40	8,600	10	42702	42722	42742	42762
7 x 7/8	60	8,600	10	42704	42724	42744	42764
7 x 7/8	80	8,600	10	42705	42725	42745	42765
7 x 7/8	120	8,600	10	42706	42726	NA	NA
7 x 5/8-11	24	8,600	10	42710	42730	NA	NA
7 x 5/8-11	36	8,600	10	42711	42731	SM	SM
7 x 5/8-11	40	8,600	10	42712	42732	42752	42772
7 x 5/8-11	60	8,600	10	42714	42734	42754	42774
7 x 5/8-11	80	8,600	10	42715	42735	42755	42775
7 x 5/8-11	120	8,600	10	42716	42736	SM	SM

SM: Size/specification available as special make wheel.  
100 piece minimum order.

XL Requires high output angle  
grinders for best results.



**CONTAMINATE-FREE**  
Stainless Steel Won't Rust

# Z3 - #1 SELLING FLAP

## Z3 Ultimate USA Made Flap Discs

### Description and Applications

- Z3 Ultimate flap discs have fewer flaps than Z3 XL flap discs which allows the material to further spread out reducing heat generation for easier break down compared to XL discs.
- Premium Zirconia Alumina grain with a poly/cotton heat treated backing. The poly/cotton combination provides low stretch and strength for the high Zirconia concentration that Z3 contains.
- Note: Z3 Ultimate discs are stocked only in 4-1/2" diameter. 5" available with a 300 piece minimum order quantity.

## Z3 Ultimate XTRA Material

### Description and Applications

- 36 and 40 grit Z3 Ultimate flap discs offer 30% more material than regular Z3 flap discs.



Side View

### XTRA Material

SIZE	GRIT	RPM	CARTON QTY	T27 UPC#	T29 UPC#
4 1/2 x 7/8	36	13,300	10	<b>54001</b>	<b>54021</b>
4 1/2 x 7/8	40	13,300	10	<b>54002</b>	<b>54022</b>
4 1/2 x 5/8-11	36	13,300	10	<b>54011</b>	<b>54031</b>
4 1/2 x 5/8-11	40	13,300	10	<b>54012</b>	<b>54032</b>



## Z3 Ultimate WIDER & XTRA Material

### Description and Applications

- 60 and 80 grit Z3 Ultimate Flap Discs
  - Extra wide material width – 30% more material than regular Z3 flap discs
  - Unique flap design structure – cushion-like impact for more controlled stock removal and better finishing results
  - We recommend 80 grit ultimate for best finishing applications.



Side View

### WIDER & XTRA Material

SIZE	GRIT	RPM	CARTON QTY	COMPACT T27 UPC#	COMPACT T29 UPC#
4 1/2 x 7/8	60	13,300	10	<b>54004</b>	<b>54024</b>
4 1/2 x 7/8	80	13,300	10	<b>54005</b>	<b>54025</b>
4 1/2 x 5/8-11	60	13,300	10	<b>54014</b>	<b>54034</b>
4 1/2 x 5/8-11	80	13,300	10	<b>54015</b>	<b>54035</b>
5 x 7/8	60	13,300	10	<b>SM</b>	<b>54064</b>
5 x 7/8	80	13,300	10	<b>SM</b>	<b>54065</b>



**New**  
**New**



# DISC MATERIAL

## Z3 Compact USA Made Flap Discs

Description and Applications

- Hybrid compact disc design – Flaps are compressed and compacted at a 4 degree angle for **more edge strength during rough grinding and edge work.**
- 20% more material than regular Z3 flap discs.



Side View



### Z3 Compact Flap Discs

SIZE	GRIT	RPM	CARTON QTY	COMPACT UPC#
4 1/2 x 7/8	40	13,300	10	<b>36310</b>
4 1/2 x 7/8	60	13,300	10	<b>36311</b>
4 1/2 x 7/8	80	13,300	10	<b>36312</b>
4 1/2 x 5/8-11	40	13,300	10	<b>36313</b>
4 1/2 x 5/8-11	60	13,300	10	<b>36314</b>
4 1/2 x 5/8-11	80	13,300	10	<b>36315</b>

## Z3 Double/XXL USA Made Flap Discs

Description and Applications

- 20% more material than XL flap discs.
- Designed for easy working on angled surfaces.
- Extra wide flaps for longer working life.



Side View



### Z3 Double XXL

SIZE	GRIT	RPM	CARTON QTY	Flap Design	
				T27 UPC#	T29 UPC#
4 1/2 x 7/8	40	13,300	10	<b>36316</b>	<b>36322</b>
4 1/2 x 7/8	60	13,300	10	<b>36317</b>	<b>36323</b>
4 1/2 x 7/8	80	13,300	10	<b>36318</b>	<b>36324</b>
4 1/2 x 5/8-11	40	13,300	10	<b>36319</b>	<b>36325</b>
4 1/2 x 5/8-11	60	13,300	10	<b>36320</b>	<b>36326</b>
4 1/2 x 5/8-11	80	13,300	10	<b>36321</b>	<b>36327</b>
5 x 7/8	40	13,300	10	<b>SM</b>	<b>36348</b>
5 x 7/8	60	13,300	10	<b>SM</b>	<b>36349</b>
5 x 7/8	80	13,300	10	<b>SM</b>	<b>36350</b>

New  
New  
New

SM: Size/specification available as special make wheel.  
100 piece minimum order.



## Z3 - Aluminum Backed T29 USA Made Flap Discs

### Description and Applications

- Aluminum backing plate for rigid support and aggressive use.
- Premium Zirconia Alumina grain with a poly/cotton heat treated backing. The poly/cotton combination provides low stretch and strength for the high Zirconia concentration that Z3 contains.
- Z3 aluminum backed discs are stocked only in 4-1/2" diameter.



### Z3 Aluminum Backed

SIZE	GRIT	RPM	CARTON QTY		
				Thickness REGULAR T29 UPC#	Thickness XL T29 UPC#
4 1/2 x 7/8	36	13,300	10	<b>52321</b>	<b>52361</b>
4 1/2 x 7/8	40	13,300	10	<b>52322</b>	<b>52362</b>
4 1/2 x 7/8	60	13,300	10	<b>52324</b>	<b>52364</b>
4 1/2 x 7/8	80	13,300	10	<b>52325</b>	<b>52365</b>
4 1/2 x 5/8-11	36	13,300	10	<b>52331</b>	<b>52371</b>
4 1/2 x 5/8-11	40	13,300	10	<b>52332</b>	<b>52372</b>
4 1/2 x 5/8-11	60	13,300	10	<b>52334</b>	<b>52374</b>
4 1/2 x 5/8-11	80	13,300	10	<b>52335</b>	<b>52375</b>

# Z-THRU® - NEW INNOVATION

## Z-THRU® - See Thru Zone

Description and Applications

- Patented unique shaped flaps are laser cut and layered to create a see-thru grinding zone – see directly to the workpiece!
- The wide and open flap design provides fast cutting action and complete control.
- Premium zirconia alumina grain, quality cooling agent and poly/cotton heat-treated backing for long working life.
- Ideal for blending, finishing and rust removal.
- For carbon and stainless steels.



**ZIRCONIA**

**CF**  
CONTAMINATE-FREE  
Iron, Sulfur, and  
Chlorine ≤ 0.1%



## Z-THRU® Flap Discs

SIZE	GRIT	RPM	CARTON QTY	T27 UPC#
4 1/2 x 7/8	40	13,300	10	<b>36328</b>
4 1/2 x 7/8	60	13,300	10	<b>36329</b>
4 1/2 x 7/8	80	13,300	10	<b>36330</b>
4 1/2 x 5/8-11	40	13,300	10	<b>36331</b>
4 1/2 x 5/8-11	60	13,300	10	<b>36332</b>
4 1/2 x 5/8-11	80	13,300	10	<b>36333</b>
5 x 7/8	40	12,200	10	<b>36334</b>
5 x 7/8	60	12,200	10	<b>36335</b>
5 x 7/8	80	12,200	10	<b>36336</b>
5 x 5/8-11	40	12,200	10	<b>36337</b>
5 x 5/8-11	60	12,200	10	<b>36338</b>
5 x 5/8-11	80	12,200	10	<b>36339</b>

Z-THRU FLAP DISCS

**See In-Action  
Video at  
[www.cgwheels.com](http://www.cgwheels.com)**



**See The Work  
Right Through  
The Disc**

# ZIRCONIA ECONOMY

**New** **Z-Poly Cotton Economy (PCE)**  
**USA Made Flap Discs**

Description and Applications

- Quality zirconia grain with a poly/cotton heat treated backing. The poly/cotton backing provides low stretch and strength.
- For steel and stainless steel.
- Zirconia Poly Cotton Economy (PCE) discs are stocked only in 4-1/2" diameter. Also available in 5" with a 300 piece minimum order.



Regular

XL



ZIRCONIA



**Z-Poly Cotton - Economy**

SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 1/2 x 7/8	36	13,300	10	<b>41701</b>	<b>41721</b>	<b>41741</b>	<b>41761</b>
4 1/2 x 7/8	40	13,300	10	<b>41702</b>	<b>41722</b>	<b>41742</b>	<b>41762</b>
4 1/2 x 7/8	60	13,300	10	<b>41704</b>	<b>41724</b>	<b>41744</b>	<b>41764</b>
4 1/2 x 7/8	80	13,300	10	<b>41705</b>	<b>41725</b>	<b>41745</b>	<b>41765</b>
4 1/2 x 5/8-11	36	13,300	10	<b>41711</b>	<b>41731</b>	<b>41751</b>	<b>41771</b>
4 1/2 x 5/8-11	40	13,300	10	<b>41712</b>	<b>41732</b>	<b>41752</b>	<b>41772</b>
4 1/2 x 5/8-11	60	13,300	10	<b>41714</b>	<b>41734</b>	<b>41754</b>	<b>41774</b>
4 1/2 x 5/8-11	80	13,300	10	<b>41715</b>	<b>41735</b>	<b>41755</b>	<b>41775</b>
7 x 7/8	36	8,600	10	<b>41941</b>	<b>41961</b>		
7 x 7/8	40	8,600	10	<b>41942</b>	<b>41962</b>	<b>41982</b>	<b>42002</b>
7 x 7/8	60	8,600	10	<b>41944</b>	<b>41964</b>		
7 x 7/8	80	8,600	10	<b>41945</b>	<b>41965</b>		
7 x 5/8-11	36	8,600	10	<b>41951</b>	<b>41971</b>		
7 x 5/8-11	40	8,600	10	<b>41952</b>	<b>41972</b>	<b>41992</b>	<b>42012</b>
7 x 5/8-11	60	8,600	10	<b>41954</b>	<b>41974</b>		
7 x 5/8-11	80	8,600	10	<b>41955</b>	<b>41975</b>		

# ZIRCONIA ECONOMY

## Z-Flex USA Made Flap Discs

### Description and Applications

- X weight cotton back Zirconia grain product designed for greater stretch and flexibility.
- Excellent for contoured work pieces such as metal railings and tubes.
- Z-Flex discs are stocked only in 4-1/2" diameter. Also available in 5" with a 300 piece minimum order quantity.

**New** Z-Flex XL discs have more flaps than Z3 XL discs due to Z-Flex's flexible cotton backing.



Regular

XL



ZIRCONIA



## Z-Cotton Flex - Economy

SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 x 5/8	40	15,300	10	<b>43345</b>			
4 x 5/8	60	15,300	10	<b>New 43346</b>			
4 x 5/8	80	15,300	10	<b>43347</b>			
4 1/2 x 7/8	40	13,300	10	<b>43320</b>	<b>43326</b>	<b>43332</b>	<b>43338</b>
4 1/2 x 7/8	60	13,300	10	<b>43321</b>	<b>43327</b>	<b>43333</b>	<b>43339</b>
4 1/2 x 7/8	80	13,300	10	<b>43322</b>	<b>43328</b>	<b>43334</b>	<b>43340</b>
4 1/2 x 5/8-11	40	13,300	10	<b>43323</b>	<b>43329</b>	<b>43335</b>	<b>43341</b>
4 1/2 x 5/8-11	60	13,300	10	<b>43324</b>	<b>43330</b>	<b>43336</b>	<b>43342</b>
4 1/2 x 5/8-11	80	13,300	10	<b>43325</b>	<b>43331</b>	<b>43337</b>	<b>43343</b>

5" available; 300 piece minimum per item.

USA MADE FLAP DISCS - ECONOMY

# #1 ON STAINLESS STEEL

## Premium Z-Stainless USA Made Flap Discs

### Description and Applications

- Quickest stainless steel material removal rate on the market – a 56% advantage over competitor's grains. Plus good carbon based steel material removal for versatile working.
- Premium blend of Zirconia and Aluminum Oxide grains with a heat treated polyester backing and active grinding aid. Polyester backing is tough and has minimal stretch.
- Additional layer containing a resin grinding aid and active grinding agents lubricates the grains for break down with light pressure.
- Designed for heat sensitive applications and all but eliminates heat generation.
- Pigment added to to grain to maintain blue coloring.



**#1 PERFORMER ON STAINLESS**  
**#2 PERFORMER ON CARBON**



### Premium Z-Stainless

SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 1/2 x 7/8	36	13,300	10	<b>31011</b>	<b>31051</b>	<b>31091</b>	<b>31131</b>
4 1/2 x 7/8	40	13,300	10	<b>31012</b>	<b>31052</b>	<b>31092</b>	<b>31132</b>
4 1/2 x 7/8	60	13,300	10	<b>31014</b>	<b>31054</b>	<b>31094</b>	<b>31134</b>
4 1/2 x 7/8	80	13,300	10	<b>31015</b>	<b>31055</b>	<b>31095</b>	<b>31135</b>
4 1/2 x 5/8-11	36	13,300	10	<b>31171</b>	<b>31201</b>	<b>31231</b>	<b>31261</b>
4 1/2 x 5/8-11	40	13,300	10	<b>31172</b>	<b>31202</b>	<b>31232</b>	<b>31262</b>
4 1/2 x 5/8-11	60	13,300	10	<b>31174</b>	<b>31204</b>	<b>31234</b>	<b>31264</b>
4 1/2 x 5/8-11	80	13,300	10	<b>31175</b>	<b>31205</b>	<b>31235</b>	<b>31265</b>
5 x 7/8	40	12,200	10	<b>31022</b>	<b>31062</b>	<b>31102</b>	<b>31142</b>
5 x 7/8	60	12,200	10	<b>31024</b>	<b>31064</b>	<b>31104</b>	<b>31144</b>
5 x 7/8	80	12,200	10	<b>31025</b>	<b>31065</b>	<b>31105</b>	<b>31145</b>
7 x 7/8	40	8,600	10	<b>31032</b>	<b>31072</b>	<b>31112</b>	<b>SM</b>
7 x 7/8	60	8,600	10	<b>31034</b>	<b>31074</b>	<b>31114</b>	<b>SM</b>
7 x 7/8	80	8,600	10	<b>31035</b>	<b>31075</b>	<b>31115</b>	<b>SM</b>
7 x 5/8-11	40	8,600	10	<b>31182</b>	<b>31212</b>	<b>31242</b>	<b>SM</b>
7 x 5/8-11	60	8,600	10	<b>31184</b>	<b>31214</b>	<b>31244</b>	<b>SM</b>
7 x 5/8-11	80	8,600	10	<b>31185</b>	<b>31215</b>	<b>31245</b>	<b>SM</b>

SM: Size/specification available as special make wheel.  
100 piece minimum order.

XL Requires high output angle grinders for best results.



## Premium A3 USA Made Flap Discs

### Description and Applications

- Premium Blue Fired AO grain with a Polyester heat treated backing. Recommended for universal use and provides rapid stock removal and extremely long life.
- Active grinding agent provides cool cutting.
- A3 can be used on ferrous metals (alloyed and unalloyed steels, high speed steel, cast iron), stainless steel, non-ferrous metals (aluminum, brass, copper, zinc) as well as on composites, plastics, and soft and hard woods.



### Premium A3

SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 x 5/8	40	15,300	10	<b>39202</b>	<b>SM</b>	<b>39242</b>	<b>SM</b>
4 x 5/8	60	15,300	10	<b>39204</b>	<b>SM</b>	<b>39244</b>	<b>SM</b>
4 x 5/8	80	15,300	10	<b>39205</b>	<b>SM</b>	<b>39245</b>	<b>SM</b>
4 x 3/8-24	40	15,300	10	<b>39212</b>	<b>SM</b>	<b>39252</b>	<b>SM</b>
4 x 3/8-24	60	15,300	10	<b>39214</b>	<b>SM</b>	<b>39254</b>	<b>SM</b>
4 x 3/8-24	80	15,300	10	<b>39215</b>	<b>SM</b>	<b>39255</b>	<b>SM</b>
4 1/2 x 7/8	24	13,300	10	<b>39400</b>	<b>39420</b>	<b>NA</b>	<b>NA</b>
4 1/2 x 7/8	36	13,300	10	<b>39401</b>	<b>39421</b>	<b>SM</b>	<b>SM</b>
4 1/2 x 7/8	40	13,300	10	<b>39402</b>	<b>39422</b>	<b>39442</b>	<b>39462</b>
4 1/2 x 7/8	60	13,300	10	<b>39404</b>	<b>39424</b>	<b>39444</b>	<b>39464</b>
4 1/2 x 7/8	80	13,300	10	<b>39405</b>	<b>39425</b>	<b>39445</b>	<b>39465</b>
4 1/2 x 7/8	120	13,300	10	<b>39406</b>	<b>39426</b>	<b>39446</b>	<b>39466</b>
4 1/2 x 5/8-11	24	13,300	10	<b>39410</b>	<b>39430</b>	<b>NA</b>	<b>NA</b>
4 1/2 x 5/8-11	36	13,300	10	<b>39411</b>	<b>39431</b>	<b>SM</b>	<b>SM</b>
4 1/2 x 5/8-11	40	13,300	10	<b>39412</b>	<b>39432</b>	<b>39452</b>	<b>39472</b>
4 1/2 x 5/8-11	60	13,300	10	<b>39414</b>	<b>39434</b>	<b>39454</b>	<b>39474</b>
4 1/2 x 5/8-11	80	13,300	10	<b>39415</b>	<b>39435</b>	<b>39455</b>	<b>39475</b>
4 1/2 x 5/8-11	120	13,300	10	<b>39416</b>	<b>SM</b>	<b>39456</b>	<b>SM</b>
5 x 7/8	40	12,200	10	<b>SM</b>	<b>39602</b>	<b>SM</b>	<b>SM</b>
5 x 7/8	60	12,200	10	<b>SM</b>	<b>39604</b>	<b>SM</b>	<b>SM</b>
5 x 7/8	80	12,200	10	<b>SM</b>	<b>39605</b>	<b>SM</b>	<b>SM</b>
7 x 7/8	40	8,600	10	<b>39802</b>	<b>SM</b>	<b>39822</b>	<b>SM</b>
7 x 7/8	60	8,600	10	<b>39804</b>	<b>SM</b>	<b>39824</b>	<b>SM</b>
7 x 7/8	80	8,600	10	<b>39805</b>	<b>SM</b>	<b>39825</b>	<b>SM</b>
7 x 5/8-11	40	8,600	10	<b>39812</b>	<b>SM</b>	<b>39832</b>	<b>SM</b>
7 x 5/8-11	60	8,600	10	<b>39814</b>	<b>SM</b>	<b>39834</b>	<b>SM</b>
7 x 5/8-11	80	8,600	10	<b>39815</b>	<b>SM</b>	<b>39835</b>	<b>SM</b>

SM: Size/specification available as special make wheel.  
100 piece minimum order.

XL Requires high output angle grinders for best results.

# #1 ON ALUMINUM

## Aluminum

Description and Applications

- Premium Blue fired AO grain with a polyester heat treated backing.
- A3 Material with Calcium Stearate coating liquefies under heat keeping the material cooler and preventing loading with soft materials.
- Use on soft metals and blending stainless steel.



### Premium A3 with Calcium Stearate Coating

SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR	
				T27 UPC#	T29 UPC#
4 1/2 x 7/8	36	13,300	10	<b>43081</b>	<b>43101</b>
<b>New</b> 4 1/2 x 7/8	60	13,300	10	<b>43084</b>	<b>43104</b>
4 1/2 x 5/8-11	36	13,300	10	<b>43091</b>	<b>43111</b>
<b>New</b> 4 1/2 x 5/8-11	60	13,300	10	<b>43094</b>	<b>43114</b>
5 x 7/8	36	12,200	10	<b>SM</b>	<b>43181</b>
<b>New</b> 5 x 7/8	60	12,200	10	<b>SM</b>	<b>43184</b>
5 x 5/8-11	36	12,200	10	<b>SM</b>	<b>43191</b>
<b>New</b> 5 x 5/8-11	60	12,200	10	<b>SM</b>	<b>43194</b>
7 x 7/8	36	8,600	10	<b>43241</b>	<b>43261</b>
7 x 5/8-11	36	8,600	10	<b>43251</b>	<b>43271</b>

## SC Ultimate - Silicon Carbide Flap Discs

Description and Applications

- Polyester (40-180), cotton (220-600) backed product has sharp aggressive cutting action for a clean, smooth finish.
- Specialty grinding on granite, marble, stone, plastics, fiberglass, titanium and titanium alloys.



### SC Ultimate

UPC#	SIZE	GRIT	RPM	CARTON QTY
<b>56002</b>	4 x 5/8	40	15,300	10
<b>56004</b>	4 x 5/8	60	15,300	10
<b>56005</b>	4 x 5/8	80	15,300	10
<b>56006</b>	4 x 5/8	120	15,300	10
<b>56007</b>	4 x 5/8	240	15,300	10
<b>56008</b>	4 x 5/8	320	15,300	10
<b>56009</b>	4 x 5/8	400	15,300	10
<b>56003</b>	4 x 5/8	600	15,300	10

### SC Ultimate



SIZE	GRIT	7/8" ARBOR HOLE	5/8-11" ARBOR HOLE	RPM	CARTON QTY
4 1/2	40	<b>56012</b>	<b>56022</b>	13,300	10
4 1/2	60	<b>56014</b>	<b>56024</b>	13,300	10
4 1/2	80	<b>56015</b>	<b>56025</b>	13,300	10
4 1/2	120	<b>56016</b>	<b>56026</b>	13,300	10
4 1/2	240	<b>56017</b>	<b>56027</b>	13,300	10
4 1/2	320	<b>56018</b>	<b>56028</b>	13,300	10
4 1/2	400	<b>56019</b>	<b>56029</b>	13,300	10
4 1/2	600	<b>56013</b>	<b>56023</b>	13,300	10
7	80	<b>56035</b>	<b>56185</b>	8,600	10
7	120	<b>56036</b>	<b>56186</b>	8,600	10



## Z3 2"-3" Mini Flap Discs

### Description and Applications

- Premium Zirconia alumina grain with a poly/cotton heat-treated backing. The poly/cotton combination provides low stretch and strength for long working life.
- Active grinding agent provides cool cutting with only light pressure.
- Contaminate-Free. Contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results. Stainless steel won't rust.
- Z3 mini flap discs are designed to prevent walking, allow access to tight areas and reduce heat build-up.
- Roll-On and Turn-On attachment styles for quick disc changes.



A-Roll-On



B-Turn-On

## Z3 2"-3" Mini Flap Discs

SIZE	TYPE	GRIT	RPM	THICKNESS	CARTON QTY	TYPE R UPC#	TYPE S UPC#
2"	T27	36	24,000	Regular	10	<b>30001</b>	<b>N/A</b>
2"	T27	40	24,000	Regular	10	<b>30002</b>	<b>30022</b>
2"	T27	60	24,000	Regular	10	<b>30004</b>	<b>30024</b>
2"	T27	80	24,000	Regular	10	<b>30005</b>	<b>30025</b>
2"	T27	120	24,000	Regular	10	<b>30006</b>	<b>30026</b>
3"	T27	36	24,000	Regular	10	<b>30011</b>	<b>N/A</b>
3"	T27	40	24,000	Regular	10	<b>30012</b>	<b>30032</b>
3"	T27	60	24,000	Regular	10	<b>30014</b>	<b>30034</b>
3"	T27	80	24,000	Regular	10	<b>30015</b>	<b>30035</b>
3"	T27	120	24,000	Regular	10	<b>30016</b>	<b>30036</b>

## Rubber Holder Pads Roll On/Turn On

### Description and Applications

- Medium grade reinforced rubber pad holder.
- Full offering shown on page 38.



## Roll-On Rubber Holder Pads

UPC#	SIZE/SPEC	CARTON QTY
<b>59732</b>	For 2" discs #30001-30006	1
<b>59734</b>	For 3" discs #30011-30016	1

## Turn-On Rubber Holder Pads

UPC#	SIZE/SPEC	CARTON QTY
<b>59738</b>	For 2" discs #30022-30026	1
<b>59735</b>	For 3" discs #30032-30036	1

**New** **Surface Conditioning Flap Discs**

Description and Applications

- Premium surface conditioning material for surface preparation.
- Three different grits for blending, deburring, and cleaning.
- For steel and stainless steel.



Type 29

UPC#	SIZE	GRIT	RPM	CARTON QTY
<b>70120</b>	4 1/2 x 7/8	Coarse – Brown	13,300	10
<b>70121</b>	4 1/2 x 5/8-11	Coarse – Brown	13,300	10
<b>70122</b>	4 1/2 x 7/8	Medium – Maroon	13,300	10
<b>70123</b>	4 1/2 x 5/8-11	Medium – Maroon	13,300	10
<b>70124</b>	4 1/2 x 7/8	Very Fine – Blue	13,300	10
<b>70125</b>	4 1/2 x 5/8-11	Very Fine – Blue	13,300	10

# SEMI-FLEX DISCS

## Semi-Flex Discs

### Description and Applications

- For aggressive grinding **T27 Silicon Carbide (C)** for non-ferrous materials such as...
  - Removing Epoxy, Glue or Urethane, Coatings, Mastiks
  - Fiberglass (ex: boat hulls)
  - Quartz / Terrazzo / Concrete
  - Marble
  - Enamels / Porcelain / China clay
  - Cow hooves
- **Aluminum Oxide (A)** for metal working and grinding down rough castings. 7" 36 grit has a *T29 shape*. Excellent on materials such as...
  - Cold rolled
  - Stainless steel
  - Bronze
  - Aluminum
  - Iron

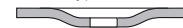


Silicon Carbide

Aluminum Oxide



Type 27



4 1/2 x 7/8

13,300 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY
35830	16-B	A-16-B	25
35831	24-B	A-24-B	25
35832	36-B	A-36-B	25
35833	16-B	C-16-B	25
35834	24-B	C-24-B	25
35835	36-B	C-36-B	25
35836	60-B	C-60-B	25
35837	80-B	C-80-B	25
35838	120-B	C-120-B	25

7 x 7/8

8,600 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY
35839	16-B	A-16-B	25
35840	24-B	A-24-B	25
35841	36-B	A-36-B	25
35842	16-B	C-16-B	25
35843	24-B	C-24-B	25
35844	36-B	C-36-B	25
35845	60-B	C-60-B	25
35846	80-B	C-80-B	25
35847	120-B	C-120-B	25

## Economy Semi-Flex Discs

### Description and Applications

- For aggressive grinding **T29 Silicon Carbide (C)** for non-ferrous materials such as...
  - Fiberglass (ex: boat hulls)
  - Removing Epoxy, Glue or Urethane, Coatings, Mastiks
  - Quartz / Terrazzo / Concrete
  - Marble
  - Enamels / Porcelain / China clay
  - Cow hooves

4 1/2 x 7/8

13,300 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY*
36292	16-B	C-16-B	25
36293	24-B	C-24-B	25
36294	36-B	C-36-B	25

7 x 7/8

8,600 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY*
36235	16-B	C-16-B	25
36236	24-B	C-24-B	25
36237	36-B	C-36-B	25



Type 29



**Rubber Back-up Pads Required**

(see page 33 for full program)

\*Carton contains two shrink-wrapped packages of five discs.

# RESIN FIBRE DISCS

## Resin Fibre Discs Aluminum Oxide

### Description and Applications

- A premium quality AO disc designed for long life, high stock removal and cool cutting action on metal and welds.
- Sharp, heat-treated and blue fired AO grain electrostatically coated to a heavy duty vulcanized fibre backing with heat resistant phenolic resins. Fast, cool cutting performance.
- 7" Quick lock discs are only available with the flat resin fibre disc.
- 7" discs are available with a depressed center which increases the amount of disc that can be used and helps prevent premature curling during storage.



ALUMINUM OXIDE



**Rubber Back-up  
Pads Required**

(see page 33 for full program)

## Aluminum Oxide Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#	QUICK LOCK UPC#
4 x 5/8	16 Grit	15,300	25	<b>48000</b>	
4 x 5/8	24 Grit	15,300	25	<b>48001</b>	
4 x 5/8	36 Grit	15,300	25	<b>48002</b>	
4 x 5/8	50 Grit	15,300	25	<b>48004</b>	
4 x 5/8	60 Grit	15,300	25	<b>48005</b>	
4 x 5/8	80 Grit	15,300	25	<b>48006</b>	
4 x 5/8	100 Grit	15,300	25	<b>48007</b>	
4 x 5/8	120 Grit	15,300	25	<b>48008</b>	
4 1/2 x 7/8	16 Grit	13,300	25	<b>48010</b>	
4 1/2 x 7/8	24 Grit	13,300	25	<b>48011</b>	<b>48711</b>
4 1/2 x 7/8	30 Grit	13,300	25	<b>48013</b>	
4 1/2 x 7/8	36 Grit	13,300	25	<b>48012</b>	<b>48712</b>
4 1/2 x 7/8	50 Grit	13,300	25	<b>48014</b>	<b>48714</b>
4 1/2 x 7/8	60 Grit	13,300	25	<b>48015</b>	<b>48715</b>
4 1/2 x 7/8	80 Grit	13,300	25	<b>48016</b>	<b>48716</b>
4 1/2 x 7/8	100 Grit	13,300	25	<b>48017</b>	
4 1/2 x 7/8	120 Grit	13,300	25	<b>48018</b>	
5 x 7/8	16 Grit	12,200	25	<b>48020</b>	
5 x 7/8	24 Grit	12,200	25	<b>48021</b>	<b>48721</b>
5 x 7/8	30 Grit	12,200	25	<b>48023</b>	
5 x 7/8	36 Grit	12,200	25	<b>48022</b>	<b>48722</b>
5 x 7/8	50 Grit	12,200	25	<b>48024</b>	<b>48724</b>
5 x 7/8	60 Grit	12,200	25	<b>48025</b>	<b>48725</b>
5 x 7/8	80 Grit	12,200	25	<b>48026</b>	<b>48726</b>
5 x 7/8	100 Grit	12,200	25	<b>48027</b>	
5 x 7/8	120 Grit	12,200	25	<b>48028</b>	

# ALUMINUM OXIDE

RESIN FIBRE DISCS - ALUMINUM OXIDE

## Aluminum Oxide Resin Fibre Discs (cont.)

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#	FLAT UPC#	QUICK LOCK UPC#
7 x 7/8	16 Grit	8,600	25	<b>48030</b>		
7 x 7/8	24 Grit	8,600	25	<b>48031</b>	<b>48621</b>	<b>48731</b>
7 x 7/8	30 Grit	8,600	25	<b>49233</b>		
7 x 7/8	36 Grit	8,600	25	<b>48032</b>	<b>48622</b>	<b>48732</b>
7 x 7/8	50 Grit	8,600	25	<b>48034</b>	<b>48624</b>	<b>48734</b>
7 x 7/8	60 Grit	8,600	25	<b>48035</b>	<b>48625</b>	<b>48735</b>
7 x 7/8	80 Grit	8,600	25	<b>48036</b>	<b>48626</b>	<b>48736</b>
7 x 7/8	100 Grit	8,600	25	<b>48037</b>		
7 x 7/8	120 Grit	8,600	25	<b>48038</b>		
7 x 7/8	150 Grit	8,600	25	<b>48033</b>		
7 x 7/8	180 Grit	8,600	25	<b>48039</b>		
9 x 7/8	16 Grit	6,600	25	<b>48040</b>		
9 x 7/8	24 Grit	6,600	25	<b>48041</b>		<b>48741</b>
9 x 7/8	36 Grit	6,600	25	<b>48042</b>		<b>48742</b>
9 x 7/8	50 Grit	6,600	25	<b>48044</b>		<b>48744</b>
9 x 7/8	60 Grit	6,600	25	<b>48045</b>		<b>48745</b>
9 x 7/8	80 Grit	6,600	25	<b>48046</b>		<b>48746</b>
9 x 7/8	100 Grit	6,600	25	<b>48047</b>		
9 x 7/8	120 Grit	6,600	25	<b>48048</b>		
9 x 7/8	150 Grit	6,600	25	<b>48049</b>		

## Aluminum Oxide 50 or 100-Pack Spindles

Description and Applications

- Spindle-pool design with tightening nut provides convenient storage and keeps discs flat.

SIZE	SPEC.	RPM	CARTON QTY	UPC#
4 1/2 x 7/8	24 Grit	13,300	50	<b>48501</b>
4 1/2 x 7/8	36 Grit	13,300	100	<b>48502</b>
4 1/2 x 7/8	50 Grit	13,300	100	<b>48503</b>
4 1/2 x 7/8	60 Grit	13,300	100	<b>48504</b>
4 1/2 x 7/8	80 Grit	13,300	100	<b>48505</b>
5 x 7/8	24 Grit	12,200	50	<b>48508</b>
5 x 7/8	36 Grit	12,200	100	<b>48509</b>
5 x 7/8	50 Grit	12,200	100	<b>48510</b>
5 x 7/8	60 Grit	12,200	100	<b>48511</b>
5 x 7/8	80 Grit	12,200	100	<b>48512</b>
7 x 7/8	24 Grit	8,600	50	<b>48515</b>
7 x 7/8	36 Grit	8,600	100	<b>48516</b>
7 x 7/8	50 Grit	8,600	100	<b>48517</b>
7 x 7/8	60 Grit	8,600	100	<b>48518</b>
7 x 7/8	80 Grit	8,600	100	<b>48519</b>

Premium spindle	<b>36203</b>
4 1/2 & 5" spindle only (for replacement)	<b>48251</b>
7" spindle only (for replacement)	<b>48252</b>



Spindle only available



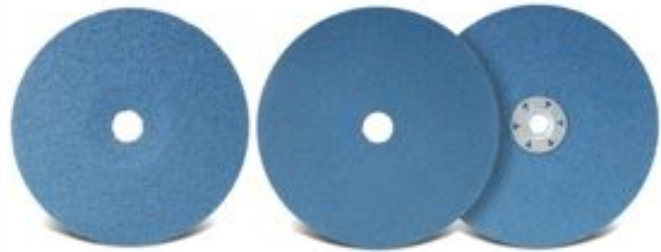
Premium Spindle

# RESIN FIBRE DISCS

## Resin Fibre Discs Zirconia - High Performance

### Description and Applications

- High concentration of Zirconia and heat-treated Aluminum Oxide grain provides twice the cutting action of premium AO discs and is extremely heat resistant.
- The special fracturing characteristics of the Zirconia grain provide a consistent action throughout the disc's life.
- High performance on blending welds, stainless steel, inconel, titanium and tool steel.
- 7" discs are available with a depressed center which increases the amount of disc that can be used and helps prevent premature curling during storage.



ZIRCONIA



**Rubber Back-up  
Pads Required**

(see page 33 for full program)

### Zirconia Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#	7" FLAT UPC#	QUICK LOCK UPC#
4 x 5/8	16 Grit	15,300	25	<b>48230</b>		
4 x 5/8	24 Grit	15,300	25	<b>48231</b>		
4 x 5/8	36 Grit	15,300	25	<b>48232</b>		
4 x 5/8	50 Grit	15,300	25	<b>48234</b>		
4 x 5/8	60 Grit	15,300	25	<b>48235</b>		
4 x 5/8	80 Grit	15,300	25	<b>48236</b>		
4 1/2 x 7/8	16 Grit	13,300	25	<b>48100</b>		
4 1/2 x 7/8	24 Grit	13,300	25	<b>48101</b>		<b>48801</b>
4 1/2 x 7/8	30 Grit	13,300	25	<b>48103</b>		
4 1/2 x 7/8	36 Grit	13,300	25	<b>48102</b>		<b>48802</b>
4 1/2 x 7/8	50 Grit	13,300	25	<b>48104</b>		<b>48804</b>
4 1/2 x 7/8	60 Grit	13,300	25	<b>48105</b>		<b>48805</b>
4 1/2 x 7/8	80 Grit	13,300	25	<b>48106</b>		<b>48806</b>
5 x 7/8	16 Grit	12,200	25	<b>48110</b>		
5 x 7/8	24 Grit	12,200	25	<b>48111</b>		<b>48811</b>
5 x 7/8	30 Grit	12,200	25	<b>48113</b>		
5 x 7/8	36 Grit	12,200	25	<b>48112</b>		<b>48812</b>
5 x 7/8	50 Grit	12,200	25	<b>48114</b>		<b>48814</b>
5 x 7/8	60 Grit	12,200	25	<b>48115</b>		<b>48815</b>
5 x 7/8	80 Grit	12,200	25	<b>48116</b>		<b>48816</b>
7 x 7/8	16 Grit	8,600	25	<b>48120</b>		
7 x 7/8	24 Grit	8,600	25	<b>48121</b>	<b>48921</b>	<b>48821</b>
7 x 7/8	30 Grit	8,600	25	<b>48123</b>		
7 x 7/8	36 Grit	8,600	25	<b>48122</b>	<b>48922</b>	<b>48822</b>
7 x 7/8	50 Grit	8,600	25	<b>48124</b>	<b>48924</b>	<b>48824</b>
7 x 7/8	60 Grit	8,600	25	<b>48125</b>	<b>48925</b>	<b>48825</b>
7 x 7/8	80 Grit	8,600	25	<b>48126</b>	<b>48926</b>	<b>48826</b>
9 x 7/8	24 Grit	6,600	25	<b>48141</b>		<b>48831</b>
9 x 7/8	36 Grit	6,600	25	<b>48142</b>		<b>48832</b>
9 x 7/8	50 Grit	6,600	25	<b>48144</b>		<b>48834</b>
9 x 7/8	60 Grit	6,600	25	<b>48145</b>		<b>48835</b>
9 x 7/8	80 Grit	6,600	25	<b>48146</b>		<b>48836</b>

# ZIRCONIA

## Zirconia 50 or 100-Pack Spindles

### Description and Applications

- Spindle-spool design with tightening nut provides convenient storage and keeps discs flat.

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#
4 1/2 x 7/8	24 Grit	13,300	50	<b>48528</b>
4 1/2 x 7/8	36 Grit	13,300	100	<b>48529</b>
4 1/2 x 7/8	50 Grit	13,300	100	<b>48530</b>
4 1/2 x 7/8	60 Grit	13,300	100	<b>48531</b>
4 1/2 x 7/8	80 Grit	13,300	100	<b>48532</b>
5 x 7/8	24 Grit	12,200	50	<b>48533</b>
5 x 7/8	36 Grit	12,200	100	<b>48534</b>
5 x 7/8	50 Grit	12,200	100	<b>48535</b>
5 x 7/8	60 Grit	12,200	100	<b>48536</b>
5 x 7/8	80 Grit	12,200	100	<b>48537</b>
7 x 7/8	24 Grit	8,600	50	<b>48538</b>
7 x 7/8	36 Grit	8,600	100	<b>48539</b>
7 x 7/8	50 Grit	8,600	100	<b>48540</b>
7 x 7/8	60 Grit	8,600	100	<b>48541</b>
7 x 7/8	80 Grit	8,600	100	<b>48542</b>
Premium spindle				<b>36203</b>
4 1/2 & 5" spindle only (for replacement)				<b>48251</b>
7" spindle only (for replacement)				<b>48252</b>



Spindle only available



Premium Spindle

## Resin Fibre Discs Ceramic Blend with Grinding Aid

### Description and Applications

- Ceramic grain is extremely hard and self-sharpens during operation. Ceramic grain breaks down with less pressure than Zirconia discs without heat damage.
- Grinding aid keeps the disc cool while grinding hard materials and **aluminum**.

**Improved**

**CERAMIC**



SIZE	SPEC.	RPM	CARTON QTY	UPC#	QUICK LOCK UPC#
4 1/2 x 7/8	24 Grit	13,300	25	<b>48181</b>	<b>48881</b>
4 1/2 x 7/8	36 Grit	13,300	25	<b>48182</b>	<b>48882</b>
4 1/2 x 7/8	50 Grit	13,300	25	<b>48184</b>	<b>48884</b>
4 1/2 x 7/8	60 Grit	13,300	25	<b>48185</b>	<b>48885</b>
4 1/2 x 7/8	80 Grit	13,300	25	<b>48186</b>	<b>48886</b>
5 x 7/8	24 Grit	12,200	25	<b>48191</b>	<b>48891</b>
5 x 7/8	36 Grit	12,200	25	<b>48192</b>	<b>48892</b>
5 x 7/8	50 Grit	12,200	25	<b>48194</b>	<b>48894</b>
5 x 7/8	60 Grit	12,200	25	<b>48195</b>	<b>48895</b>
5 x 7/8	80 Grit	12,200	25	<b>48196</b>	<b>48896</b>
7 x 7/8	24 Grit	8,600	25	<b>48201</b>	<b>48901</b>
7 x 7/8	36 Grit	8,600	25	<b>48202</b>	<b>48902</b>
7 x 7/8	50 Grit	8,600	25	<b>48204</b>	<b>48904</b>
7 x 7/8	60 Grit	8,600	25	<b>48205</b>	<b>48905</b>
7 x 7/8	80 Grit	8,600	25	<b>48206</b>	<b>48906</b>

## Resin Fibre Discs

### Silicon Carbide

#### Description and Applications

- Aggressive cutting action for a clean, smooth finish. Excellent on titanium, fiberglass, plastics, and masonry products.

SILICON CARBIDE



### Silicon Carbide Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	UPC#
5 x 7/8	16 Grit	12,200	25	<b>48320</b>
5 x 7/8	24 Grit	12,200	25	<b>48321</b>
5 x 7/8	36 Grit	12,200	25	<b>48322</b>
7 x 7/8	16 Grit	8,600	25	<b>48330</b>
7 x 7/8	24 Grit	8,600	25	<b>48331</b>
7 x 7/8	36 Grit	8,600	25	<b>48332</b>
7 x 7/8	50 Grit	8,600	25	<b>48334</b>
7 x 7/8	60 Grit	8,600	25	<b>48335</b>
7 x 7/8	80 Grit	8,600	25	<b>48336</b>
7 x 7/8	120 Grit	8,600	25	<b>48338</b>
7 x 7/8	150 Grit	8,600	25	<b>48333</b>
7 x 7/8	220 Grit	8,600	25	<b>48350</b>
7 x 7/8	300 Grit	8,600	25	<b>48339</b>
7 x 7/8	400 Grit	8,600	25	<b>48352</b>

## Resin Fibre Discs

### Open-Coated AO

#### Description and Applications

- Island pattern aluminum oxide grain does not load when grinding/finishing aluminum or other soft, malleable non-ferrous materials.

ALUMINUM OXIDE



### Open-Coated AO Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	UPC#
4 1/2 x 7/8	24 Grit	15,300	25	<b>48401</b>
4 1/2 x 7/8	36 Grit	15,300	25	<b>48402</b>
4 1/2 x 7/8	50 Grit	15,300	25	<b>48404</b>
5 x 7/8	24 Grit	12,200	25	<b>48411</b>
5 x 7/8	36 Grit	12,200	25	<b>48412</b>
5 x 7/8	50 Grit	12,200	25	<b>48414</b>
7 x 7/8	24 Grit	8,600	25	<b>48421</b>
7 x 7/8	36 Grit	8,600	25	<b>48422</b>
7 x 7/8	50 Grit	8,600	25	<b>48424</b>
9 x 7/8	24 Grit	6,600	25	<b>48431</b>
9 x 7/8	36 Grit	6,600	25	<b>48432</b>
9 x 7/8	50 Grit	6,600	25	<b>48434</b>



## Rubber Back-up Pads

### Description and Applications

- Rubber Back-up Pads - Use with coarse grits
  - Spiral ribs provide contact points and form channels for air flow, extending disc life 30% to 50%.
  - Improved mechanical and chemical bond between rubber and metal provides increased airflow and higher RPM ratings.
  - Larger air holes provide cooler operating area and longer abrasive disc life.
  - Pad size meets ANSI B186.1 standards.
  - Flexible Rubber Pads are recommended for contours and Rigid Pads will last longer on aggressive grinding applications.



Rubber Back-up Pad

### Rubber w/Standard Spiral Pattern - w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<b>Medium</b>		
49514*	4" x 5/8-11	1
48220	4 1/2" x 5/8-11	1
48221	5" x 5/8-11	1
48222	7" x 5/8-11	1
48239	9" x 5/8-11	1
<b>Flexible</b>		
49510	7" x 5/8-11	1
49526	9" x 5/8-11	1
<b>Rigid</b>		
49511	7" x 5/8-11	1
49527	9" x 5/8-11	1

\* Use with #49529 nut.

### Rubber w/Smooth Bore & Spiral Pattern - w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<b>Medium</b>		
49515*	4"	1
49521	4 1/2"	1
49519	5"	1

\* Use with #49529 nut.

### Rubber w/Smooth Face w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<b>Medium</b>		
49501	4" x 5/8-11	1
49508	4 1/2" x 5/8-11	1
49503	5" x 5/8-11	1
49506	7" x 5/8-11	1
<b>Flexible</b>		
49504	7" x 5/8-11	1
<b>Rigid</b>		
49505	7" x 5/8-11	1

## Polypropylene Back-up Pads

### Description and Applications

- Polypropylene Back-up Pads - Use with medium to fine grits
  - Spiral ribs provide contact points and form channels for airflow.
  - Smooth face pads are excellent for general purpose applications.
  - Made in the USA.



Polypropylene Back-up Pad

### Polypropylene w/Standard Spiral Pattern - w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<b>Medium</b>		
36204	4 1/2"	1
36205	5"	1
36206	7"	1

### Polypropylene w/Smooth Face & Smooth Bore - w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
48218	4"	1
48224	4 1/2"	1
48225	5"	1
48226	7"	1
48240	9"	1

### Accessories

UPC#	SIZE/SPEC	CARTON QTY
48223	5/8-11 Locking Pad Nut 1 1/2" Flange w/Holes	1
49530	5/8-11 Locking Pad Nut 2" Flange w/Holes	1
49529	3/8-24 Locking Pad Nut 1 1/2" Flange w/Holes	1
49531	10mm 1.25 Pad Nut 1 1/2" Flange w/Holes	1
48229	Adjustable Spanner Wrench	1

# QUICK CHANGE DISCS ROLL-ON

QUICK CHANGE LAMINATED DISCS - ROLL ON

**New** **1 1/2"-3" Quick Change Discs  
C3 Ceramic, Roll On**

**CERAMIC**



- Self-sharpening ceramic grain and cool grinding aid for fast, aggressive cutting action on hard-to-grind materials.
- Polyester backing material for long working life.
- Use on steel, stainless and heat sensitive materials.
- Uses USA developed, automated spin-weld attachment process for fast and secure fastening.

**1 1/2" Diameter 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59900	24G	100
59901	36G	100
59902	40G	100
59903	50G	100
59904	60G	100
59905	80G	100
59906	100G	100
59907	120G	100



**Rubber Holder Pads Required**  
(see page 38 for full program)

**2" Diameter 25,000 R.P.M.**

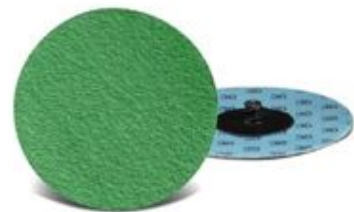
UPC#	SPEC.	CARTON QTY
59910	24G	50
59911	36G	50
59912	40G	50
59913	50G	50
59914	60G	50
59915	80G	50
59916	100G	50
59917	120G	50

**3" Diameter 20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59920	24G	25
59921	36G	25
59922	40G	25
59923	50G	25
59924	60G	25
59925	80G	25
59926	100G	25
59927	120G	25

**2-3" Quick Change Discs  
Zirconia AO w/Grinding Aid,  
Roll On**

**ZIRCONIA AO  
w/GRINDING AID**



- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work.
- Grinding aid for cooler cutting.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

**2" Diameter 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59587	24G	50
59588	36G	50
59589	40G	50
59590	50G	50
59591	60G	50
59592	80G	50
59593	120G	50

**3" Diameter 20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59594	24G	25
59595	36G	25
59596	40G	25
59597	50G	25
59598	60G	25
59599	80G	25
59600	120G	25

# QUICK CHANGE DISCS ROLL-ON

QUICK CHANGE LAMINATED DISCS - ROLL ON

## 1 1/2"-4" Quick Change Discs Zirconia AO, Roll On

ZIRCONIA AO



- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work. Easy roll-on attachment.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

### 1 1/2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59717	24G	100
59560	36G	100
59561	40G	100
59562	50G	100
59563	60G	100
59564	80G	100

### 3" Diameter 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59719	24G	25
59570	36G	25
59571	40G	25
59572	50G	25
59573	60G	25
59574	80G	25

### 2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59718	24G	50
59565	36G	50
59566	40G	50
59567	50G	50
59568	60G	50
59569	80G	50

### 4" Diameter 12,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59720	24G	25
59575	36G	25
59576	40G	25
59577	50G	25
59578	60G	25
59579	80G	25

## 1 1/2"-4" Quick Change Discs Aluminum Oxide, Roll On

ALUMINUM OXIDE



- Aluminum oxide for long working life.
- Strong 2-ply design for flat or contoured work. Easy roll-on attachment.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

### 1 1/2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59512	24G	100
59513	36G	100
59514	40G	100
59515	50G	100
59516	60G	100
59517	80G	100
59518	100G	100
59519	120G	100

### 3" Diameter 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59536	24G	25
59537	36G	25
59538	40G	25
59539	50G	25
59540	60G	25
59541	80G	25
59542	100G	25
59543	120G	25

### 2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59524	24G	50
59525	36G	50
59526	40G	50
59527	50G	50
59528	60G	50
59529	80G	50
59530	100G	50
59531	120G	50

### 4" Diameter 12,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59548	24G	25
59549	36G	25
59550	40G	25
59551	50G	25
59552	60G	25
59553	80G	25
59554	100G	25
59555	120G	25

# QUICK CHANGE DISCS TURN-ON

QUICK CHANGE LAMINATED DISCS - TURN ON

**New** **1 1/2-3" Quick Change Discs  
C3 Ceramic, Turn On**

- Self-sharpening ceramic grain and cool grinding aid for fast, aggressive cutting action on hard-to-grind materials.
- Polyester backing material for long working life.
- Use on steel, stainless and heat sensitive materials.
- Uses USA developed, automated spin-weld attachment process for fast and secure fastening.

**CERAMIC**



**1 1/2" Diameter 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59940	24G	100
59941	36G	100
59942	40G	100
59943	50G	100
59944	60G	100
59945	80G	100
59946	100G	100
59947	120G	100

**2" Diameter 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59950	24G	50
59951	36G	50
59952	40G	50
59953	50G	50
59954	60G	50
59955	80G	50
59956	100G	50
59957	120G	50

**Rubber Holder Pads Required**  
(see page 38 for full program)

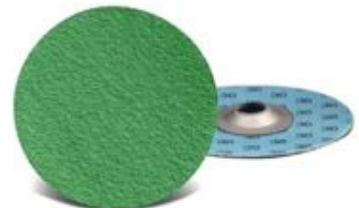
**3" Diameter 20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59960	24G	25
59961	36G	25
59962	40G	25
59963	50G	25
59964	60G	25
59965	80G	25
59966	100G	25
59967	120G	25

**New** **2-3" Quick Change  
Discs Zirconia AO  
w/Grinding Aid, Turn On**

- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work.
- Grinding aid for cooler cutting.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

**ZIRCONIA AO  
w/GRINDING AID**



**2" Diameter 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59696	24G	50
59697	36G	50
59698	40G	50
59699	50G	50
59700	60G	50
59701	80G	50
59702	120G	50

**3" Diameter 20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
59703	24G	25
59704	36G	25
59705	40G	25
59706	50G	25
59707	60G	25
59708	80G	25
59709	120G	25

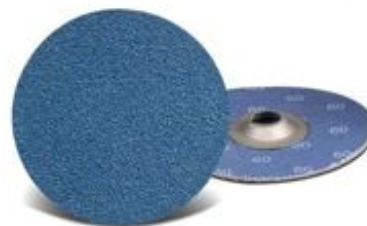
# QUICK CHANGE DISCS TURN-ON

QUICK CHANGE LAMINATED DISCS - TURN ON

## 1 1/2-4" Quick Change Discs Zirconia AO, Turn On

- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work.

ZIRCONIA



### 1 1/2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59668	24G	50
59669	36G	50
59670	40G	50
59671	50G	50
59672	60G	50
59673	80G	50

### 2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59722	24G	50
59674	36G	50
59675	40G	50
59676	50G	50
59677	60G	50
59678	80G	50

### 3" Diameter 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59723	24G	25
59679	36G	25
59680	40G	25
59681	50G	25
59682	60G	25
59683	120G	25

## 1 1/2-4" Quick Change Discs Aluminum Oxide, Turn On

- Aluminum oxide for long working life.
- Strong 2-ply design for flat or contoured work.

ALUMINUM OXIDE



### 1 1/2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59621	24G	50
59622	36G	50
59623	40G	50
59624	50G	50
59625	60G	50
59626	80G	50
59627	100G	50
59628	120G	50

### 2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59633	24G	50
59634	36G	50
59635	40G	50
59636	50G	50
59637	60G	50
59638	80G	50
59639	100G	50
59640	120G	50

### 3" Diameter 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59645	24G	25
59646	36G	25
59647	40G	25
59648	50G	25
59649	60G	25
59650	80G	25
59651	100G	25
59652	120G	25

### 4" Diameter 12,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59657	24G	25
59658	36G	25
59659	40G	25
59660	50G	25
59661	60G	25
59662	80G	25
59663	100G	25
59664	120G	25

# QUICK CHANGE DISCS SURFACE CONDITIONING

## 2-4" Quick Change Discs - Surface Conditioning, Roll On

- For stainless steel, and ferrous & non-ferrous metals.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

### 2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59503	Coarse - Brown	50
59504	Medium - Maroon	50
59505	A Very Fine - Blue	50
59608	S Ultra Fine - Grey	50

### 3" Diameter 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59506	Coarse - Brown	25
59507	Medium - Maroon	25
59508	A Very Fine - Blue	25
59609	S Ultra Fine - Grey	25

## 2-3" Quick Change Discs - Surface Conditioning, Turn On

- For stainless steel, and ferrous & non-ferrous metals.

### 2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59610	Coarse - Brown	50
59611	Medium - Maroon	50
59612	Very Fine - Blue	50



### 4" Diameter 12,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59509	Coarse - Brown	25
59510	Medium - Maroon	25
59511	A Very Fine - Blue	25



### 3" Diameter 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59614	Coarse - Brown	25
59615	Medium - Maroon	25
59616	Very Fine - Blue	25

## Rubber Holder Pads - 1 1/2-4" Roll On / Turn On

- Medium grade reinforced rubber pad holder.
- 59738 is our standard 2" turn on pad.
- One piece in plastic bag with label.



### Roll On - External Thread

UPC#	SPEC.	CARTON QTY
59728	1" Dia. x 1/4" / Roll On	1
59730	1 1/2" Dia. x 1/4" / Roll On	1
59732	2" Dia. x 1/4" / Roll On	1
59734	3" Dia. x 1/4" / Roll On	1
59736	4" Dia. x 1/4" / Roll On	1

### Turn On - Internal Thread

UPC#	SPEC.	CARTON QTY
59729	1" Dia. x 1/4" / Turn On	1
59731	1 1/2" Dia. x 1/4" / Turn On	1
59733	2" Dia. x 1/4" / M6	1
<b>New</b> 59738	2" Dia. x 1/4" / <b>M10</b>	1
59735	3" Dia. x 1/4" / Turn On	1

# FLAP WHEELS

## AO-Flex Flap Wheels: 1/4" Shank

**Flexible material with  
premium cut rate**

### Description and Applications

- Premium quality AO flap wheel made with a flexible x-wt. cotton backing for faster cut rate vs. traditional AO flap wheels.
- Flexible, yet strong flaps for easy working on hard-to-reach places.
- Fast and cool cutting action.
- Use on ferrous and non-ferrous metals.



ALUMINUM OXIDE



**5/8 x 5/8 x 1/4 30,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>70211</b>	60	10
<b>70212</b>	80	10

**3/4 x 3/4 x 1/4 30,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>71000</b>	60	10
<b>71001</b>	80	10
<b>71002</b>	120	10

**1 x 1 x 1/4 30,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>71033</b>	40	10
<b>71034</b>	60	10
<b>71035</b>	80	10
<b>71036</b>	120	10

**1 1/2 x 1 x 1/4 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>71040</b>	40	10
<b>71041</b>	60	10
<b>71042</b>	80	10
<b>71043</b>	120	10

**2 x 1 x 1/4 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>71088</b>	40	10
<b>71089</b>	60	10
<b>71090</b>	80	10
<b>71091</b>	120	10

**2 1/2 x 1 x 1/4 20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>71114</b>	60	10
<b>71115</b>	80	10
<b>71116</b>	120	10

**3 x 1 x 1/4 20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>71147</b>	40	10
<b>71148</b>	60	10
<b>71149</b>	80	10
<b>71150</b>	120	10



AO-FLEX FLAP WHEELS - 1/4" SHANK

# FLAP WHEELS

## AO-Firm Flap Wheels: 1/4" Shank

### Description and Applications

- Firm, quality aluminum oxide coated abrasive material. The flaps, arranged like a fan around the shaft of the tool, provide for consistent cutting action, maximum performance and long life.
- Use on all ferrous and non-ferrous materials, stainless steel, iron, brass, aluminum, plastic, fiberglass, wood and glass.
- Excellent for working in small, difficult to reach places.
- CGW flap wheels have more flaps compared to leading flap wheel manufacturers.



ALUMINUM OXIDE



### 3/4 x 3/4 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
37098	60	10
37099	80	10
37100	120	10
37103	180	10
37104	240	10
37105	320	10

### 1 x 5/8 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39903	60	10
39904	80	10
39905	120	10

### 1 x 1 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39907	40	10
39908	60	10
39909	80	10
39910	120	10
39912	180	10
39913	240	10
39914	320	10

### 1 1/2 x 1/2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39915	60	10
39916	80	10
39917	120	10
41032	180	10
41035	240	10
41510	320	10

### 1 1/2 x 1 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39920	40	10
39921	60	10
39922	80	10
39923	120	10
41036	180	10
41037	240	10
41630	320	10

### 2 x 1/2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39924	40	10
39925	60	10
39926	80	10
39927	120	10
41038	180	10
41039	240	10
41631	320	10

### 2 x 3/4 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39928	60	10
39929	80	10
39930	120	10
40002	150	10

### 2 x 1 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39931	40	10
39932	60	10
39933	80	10
39934	120	10
39935	180	10
39936	240	10
39937	320	10

### 2 x 1 1/2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
40003	40	10
40004	60	10
40005	80	10
40006	120	10

### 2 x 2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39938	60	10
39939	80	10

### 2 1/2 x 1/2 x 1/4 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41015	60	10
41016	80	10
41017	120	10



# FLAP WHEELS

## AO-Firm Flap Wheels: 1/4" Shank

2 1/2 x 1 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39941	60	10
39942	80	10
39943	120	10
41500	180	10
41501	240	10
41511	320	10

2 1/2 x 1 1/2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41121	60	10
41122	80	10
41123	120	10

3 x 1/2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41018	60	10
41019	80	10
41020	120	10
41502	180	10
41503	240	10
41504	320	10

3 x 1 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39947	40	10
39948	60	10
39949	80	10
39950	120	10
39951	180	10
39952	240	10
39953	320	10

3 x 1 1/2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41513	60	10
41514	80	10
41515	120	10
41516	180	10
41517	240	10
41518	320	10

3 x 2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41044	40	10
39954	60	10
39955	80	10
39956	120	10

## Zirconia Flap Wheels: 1/4" Shank

Description and Applications

- Zirconia grain provides sharper cutting and longer life than aluminum oxide flap wheels.
- Excellent for smoothing and deburring.
- Durable cotton backing
- For work on steel, stainless steel, non-ferrous metals and alloys.



ZIRCONIA



1 x 1 x 1/4

30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41519	40	10
41520	60	10
41521	80	10

1 1/2 x 1 x 1/4

25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41522	40	10
41523	60	10
41524	80	10

2 x 1 x 1/4

25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41525	40	10
41526	60	10
41527	80	10

3 x 1 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41528	40	10
41529	60	10
41530	80	10

# FLAP WHEELS

## AO-Firm Flap Wheels: 1/4"-20 Shank

### Description and Applications

- CGW flap wheels have more flaps compared to leading flap wheel manufacturers

### 1 x 5/8 x 1/4-20 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39960	60	10
39961	80	10
39962	120	10

### 1 x 1 x 1/4-20 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39964	40	10
39965	60	10
39966	80	10
39967	120	10
39968	180	10

### 1 1/2 x 1 x 1/4-20 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39977	40	10
39978	60	10
39979	80	10
39980	120	10

### 2 x 1/2 x 1/4-20 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
40007	60	10
40008	80	10
40009	120	10

48250

ALUMINUM OXIDE



### 2 x 1 x 1/4-20 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39988	40	10
39989	60	10
39990	80	10
39991	120	10
39992	180	10

### 2 1/2 x 1 x 1/4-20 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39998	60	10
39999	80	10
41000	120	10

### 3 x 1/2 x 1/4-20 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41608	60	10

### 3 x 1 x 1/4-20 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41004	40	10
41005	60	10
41006	80	10
41007	120	10
41008	180	10

### 1/4-20 Adaptor

UPC#	SPEC.	CARTON QTY
48250	1/4-20 Adaptor	10

## Interleaf Wheels

### Description and Applications

- Alternating flaps of non-woven and coated abrasive materials for fast, uniform surface preparation and finishes.
- Medium grade wheels easily clean, blend, and debur aluminum & stainless steels, and ferrous & non-ferrous metals.
- Very fine grade wheels for satin finishing on aluminum & stainless steels, and ferrous and non-ferrous metals.
- Spindle mount for quick and easy changes.

### 2 x 1 x 1/4 11,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36207	Medium 60 Grit	10
36208	Medium 80 Grit	10
36209	Very Fine 120 Grit	10
36210	Very Fine 180 Grit	10



### 3 x 1 x 1/4 8,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36211	Medium 60 Grit	10
36212	Medium 80 Grit	10
36213	Very Fine 120 Grit	10
36214	Very Fine 180 Grit	10

### 3 x 2 x 1/4 8,000 R.P.M.

UPC#	SPEC.	CARTON QTY
<b>New</b> 36250	EXTRA Coarse 60 Grit	10
36215	Medium 60 Grit	10
36216	Medium 80 Grit	10
36217	Very Fine 120 Grit	10
36218	Very Fine 180 Grit	10

# FLAP WHEELS

## New Mini Flap Wheels

- Quality aluminum oxide grain with X-flex weight backing
- Use on stainless steel, steel, alloyed steel, nonferrous materials, aluminum, titanium, and glass



$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{8}$

38,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70057	60	10
70058	80	10
70059	120	10
70060	180	10
70061	240	10

$\frac{3}{4} \times \frac{3}{8} \times \frac{1}{8}$

38,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70074	60	10
70075	80	10
70076	120	10
70077	180	10
70078	240	10
70079	320	10

$\frac{5}{8} \times \frac{5}{8} \times \frac{1}{8}$

38,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70062	60	10
70063	80	10
70064	120	10
70065	180	10
70066	240	10
70067	320	10

$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$

38,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70080	60	10
70081	80	10
70082	120	10
70083	180	10
70084	240	10
70085	320	10

$\frac{3}{4} \times \frac{3}{16} \times \frac{1}{8}$

38,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70068	60	10
70069	80	10
70070	120	10
70071	180	10
70072	240	10
70073	320	10

$1\frac{3}{16} \times \frac{3}{16} \times \frac{1}{8}$

38,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70086	60	10
70087	80	10
70088	120	10
70089	180	10

$1\frac{3}{16} \times \frac{3}{8} \times \frac{1}{8}$

38,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70090	60	10
70091	80	10
70092	120	10
70093	180	10

## New Non Woven Flap Wheels

Description and Applications

- 100% non woven aluminum oxide flap wheels provide excellent flexibility and conforms to work surface.



$1 \times 1 \times \frac{1}{4}$

12,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36450	Coarse (Tan)	10
36451	Medium (Maroon)	10
36452	Fine (Maroon)	10

$3 \times 1 \times \frac{1}{4}$

10,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36456	Coarse (Tan)	10
36457	Medium (Maroon)	10
36458	Fine (Maroon)	10

$2 \times 1 \times \frac{1}{4}$

12,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36453	Coarse (Tan)	10
36454	Medium (Maroon)	10
36455	Fine (Maroon)	10

$3 \times 2 \times \frac{1}{4}$

10,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36459	Coarse (Tan)	10
36460	Medium (Maroon)	10
36461	Fine (Maroon)	10

# FLAP WHEEL DRUMS

## **New** Flap Wheel Drums with Keyhole Arbor

Description and Applications

- **AO: Flexible, quality aluminum oxide coated flaps easily conform to work pieces.**
  - Cool finishing
  - For ferrous and non-ferrous metals.
- **ZA: Firm, zirconia aluminum oxide coated flaps for long working life.**
  - Fast and cool finishing
  - For steel, stainless and non-ferrous metals.



**ALUMINUM OXIDE**  
**ZIRCONIA**

**CF**  
CONTAMINATE-FREE  
Iron, Sulfur, and Chlorine ≤ 0.1%

**Surface Sander**

### Flap Wheel Drum with Keyhole

SIZE	TOOL FIXTURE	GRIT	RPM	CARTON QTY.	ALUMINUM OXIDE UPC #	ZIRCONIA ALUMINUM OXIDE UPC #
4 x 4 x 3/4	19.1mm	40	9,500	5	<b>72100</b>	<b>72106</b>
4 x 4 x 3/4	19.1mm	60	9,500	5	<b>72101</b>	<b>72107</b>
4 x 4 x 3/4	19.1mm	80	9,500	5	<b>72102</b>	<b>72108</b>
4 x 4 x 3/4	19.1mm	120	9,500	5	<b>72103</b>	<b>72109</b>

## **New** Metal Surface Flap Wheel Drum Sander

Description and Applications

- Machine provides shadow free, transitionless finishes on metal.
- Electronic control and speed preselection allows for versatility.
- **All products on pages 44-45 fit this tool.**



### Metal Surface Flap Wheel Drum Sander

UPC#	DESCRIPTION	POWER INPUT	POWER OUTPUT	TOOL WIDTH	TOOL FIXTURE
<b>75000</b>	LP1503	11 Amp	700 Watts	100 mm	19 mm

# FLAP WHEEL DRUMS

## **New** Interleaf Flap Wheel Drums with Keyhole Arbor

### Description and Applications

- Alternating flaps of non-woven and aluminum oxide coated abrasive materials for fast, uniform finishes.
- Medium grade drums provide consistent satin finishes



ALUMINUM OXIDE



### Interleaf Flap Wheel Drum with Keyhole

SIZE	GRIT	RPM	CARTON QTY.	UPC#
4 x 4 x 3/4	40 / Medium	9,500	5	<b>72110</b>
4 x 4 x 3/4	60 / Medium	9,500	5	<b>72111</b>
4 x 4 x 3/4	80 / Medium	9,500	5	<b>72112</b>
4 x 4 x 3/4	120 / Medium	9,500	5	<b>72113</b>
4 x 4 x 3/4	180 / Medium	9,500	5	<b>72114</b>
4 x 4 x 3/4	240 / Medium	9,500	5	<b>72115</b>

## **New** Non-Woven Flap Wheel Drums with Keyhole Arbor

### Description and Applications

- Quality, non-woven material impregnated with aluminum oxide grain for consistent finishes.
- For polishing, blending, deburring, cleaning and brightening stainless steel, aluminum, brass, copper and other alloys.



ALUMINUM OXIDE



### Non-Woven Flap Wheel Drum with Keyhole

SIZE	GRIT	RPM	CARTON QTY.	UPC#
4 x 4 x 3/4	Coarse	9,500	5	<b>72116</b>
4 x 4 x 3/4	Medium	9,500	5	<b>72117</b>
4 x 4 x 3/4	Fine	9,500	5	<b>72118</b>
4 x 4 x 3/4	Very Fine	9,500	5	<b>72119</b>

**New** **Unmounted Flap Wheels**  
 Description and Applications

- Quality aluminum oxide grain for consistent finishes.
- Unmounted flap wheels are recommended for cleaning, blending, deburring and finishing.
- Use on metal surfaces.



**4 x 1 x 5/8** **8,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>41025</b>	40 Grit	10
<b>41026</b>	60 Grit	10
<b>41027</b>	80 Grit	10
<b>41029</b>	120 Grit	10
<b>41031</b>	180 Grit	10

**6 x 1 x 1** **5,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>41045</b>	40 Grit	5
<b>41046</b>	60 Grit	5
<b>41047</b>	80 Grit	5
<b>41049</b>	120 Grit	5
<b>41051</b>	180 Grit	5

**6 x 1 1/2 x 1** **5,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>41055</b>	40 Grit	5
<b>41056</b>	60 Grit	5
<b>41057</b>	80 Grit	5
<b>41059</b>	120 Grit	5
<b>41061</b>	180 Grit	5

**6 x 2 x 1** **5,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>41065</b>	40 Grit	10
<b>41066</b>	60 Grit	10
<b>41067</b>	80 Grit	10
<b>41069</b>	120 Grit	10
<b>41071</b>	180 Grit	10

**8 x 1 x 1** **4,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>41085</b>	40 Grit	3
<b>41086</b>	60 Grit	3
<b>41087</b>	80 Grit	3
<b>41089</b>	120 Grit	3
<b>41091</b>	180 Grit	3

**8 x 2 x 1** **4,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>41096</b>	60 Grit	3
<b>41097</b>	80 Grit	3
<b>41099</b>	120 Grit	3
<b>41101</b>	180 Grit	3

**New Premium Shop Rolls**

*Description and Applications*

- Premium shop roll backing is more flexible for longer working life.
- High quality friable grain

**ALUMINUM OXIDE**



**Shop Rolls - Premium Aluminum Oxide**

GRIT	CARTON QTY	1" x 50 YDS.	1-1/2" x 50 YDS.	2" x 50 YDS.	MASTER PACK QTY
60	1	<b>63062</b>	<b>63072</b>	<b>63082</b>	10
80	1	<b>63063</b>	<b>63073</b>	<b>63083</b>	10
100	1	<b>63064</b>	<b>63074</b>	<b>63084</b>	10
120	1	<b>63065</b>	<b>63075</b>	<b>63085</b>	10
150	1	<b>63066</b>	<b>63076</b>	<b>63086</b>	10
180	1	<b>63067</b>	<b>63077</b>	<b>63087</b>	10
220	1	<b>63068</b>	<b>63078</b>	<b>63088</b>	10
240	1	<b>63069</b>	<b>63079</b>	<b>63089</b>	10
320	1	<b>63070</b>	<b>63080</b>	<b>63090</b>	10
400	1	<b>63071</b>	<b>63081</b>	<b>63091</b>	10

**New Economy Shop Rolls**

*Description and Applications*

- Economy shop rolls for general purpose work.

**ALUMINUM OXIDE**



**Shop Rolls - Economy Aluminum Oxide**

GRIT	CARTON QTY	1" x 50 YDS.	MASTER PACK QTY	1-1/2" x 50 YDS.	MASTER PACK QTY	2" x 50 YDS.	MASTER PACK QTY
60	1	<b>63002</b>	20	<b>63022</b>	10	<b>63042</b>	10
80	1	<b>63003</b>	20	<b>63023</b>	10	<b>63043</b>	10
100	1	<b>63004</b>	20	<b>63024</b>	10	<b>63044</b>	10
120	1	<b>63005</b>	20	<b>63025</b>	10	<b>63045</b>	10
150	1	<b>63006</b>	20	<b>63026</b>	10	<b>63046</b>	10
180	1	<b>63007</b>	20	<b>63027</b>	10	<b>63047</b>	10
220	1	<b>63008</b>	20	<b>63028</b>	10	<b>63048</b>	10
240	1	<b>63009</b>	20	<b>63029</b>	10	<b>63049</b>	10
320	1	<b>63011</b>	20	<b>63031</b>	10	<b>63051</b>	10
400	1	<b>63012</b>	20	<b>63032</b>	10	<b>63052</b>	10

**New File Belts**

Description and Applications

- **A3 - Aluminum Oxide:**
  - General purpose grain on X-weight backing for rapid stock removal and long life.
  - For ferrous metals, stainless steel, non ferrous metals, composites, plastics and wood.
- **Z3 - Zirconia:**
  - Premium zirconia alumina grain on X-weight for aggressive use and heavy duty applications.
  - For steel and stainless steel.



ALUMINUM OXIDE

ZIRCONIA

**CFE**  
CONTAMINATE-FREE  
Iron, Sulfur, and Chlorine ≤ 0.1%

File Sander

**File Belts - Min. qty. package is nested together and wrapped in paper**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
1/4 x 12	24	10	200	<b>61000</b>	<b>61500</b>
1/4 x 12	36	10	200	<b>61001</b>	<b>61501</b>
1/4 x 12	40	10	200	<b>61002</b>	<b>61502</b>
1/4 x 12	50	10	200	<b>61003</b>	<b>61503</b>
1/4 x 12	60	10	200	<b>61004</b>	<b>61504</b>
1/4 x 12	80	10	200	<b>61005</b>	<b>61505</b>
1/4 x 12	100	10	200	<b>61006</b>	
1/4 x 12	120	10	200	<b>61007</b>	
1/4 x 18	24	10	200	<b>61008</b>	<b>61506</b>
1/4 x 18	36	10	200	<b>61009</b>	<b>61507</b>
1/4 x 18	40	10	200	<b>61010</b>	<b>61508</b>
1/4 x 18	50	10	200	<b>61011</b>	<b>61509</b>
1/4 x 18	60	10	200	<b>61012</b>	<b>61510</b>
1/4 x 18	80	10	200	<b>61013</b>	<b>61511</b>
1/4 x 18	100	10	200	<b>61014</b>	
1/4 x 18	120	10	200	<b>61015</b>	
1/4 x 24	24	10	200	<b>61016</b>	<b>61512</b>
1/4 x 24	36	10	200	<b>61017</b>	<b>61513</b>
1/4 x 24	40	10	200	<b>61018</b>	<b>61514</b>
1/4 x 24	50	10	200	<b>61019</b>	<b>61515</b>
1/4 x 24	60	10	200	<b>61020</b>	<b>61516</b>
1/4 x 24	80	10	200	<b>61021</b>	<b>61517</b>
1/4 x 24	100	10	200	<b>61022</b>	
1/4 x 24	120	10	200	<b>61023</b>	
1/2 x 12	24	10	200	<b>61024</b>	<b>61518</b>
1/2 x 12	36	10	200	<b>61025</b>	<b>61519</b>
1/2 x 12	40	10	200	<b>61026</b>	<b>61520</b>
1/2 x 12	50	10	200	<b>61027</b>	<b>61521</b>
1/2 x 12	60	10	200	<b>61028</b>	<b>61522</b>
1/2 x 12	80	10	200	<b>61029</b>	<b>61523</b>
1/2 x 12	100	10	200	<b>61030</b>	
1/2 x 12	120	10	200	<b>61031</b>	



**File Belts - Min. qty. package is nested together and wrapped in paper**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
1/2 x 18	24	10	200	<b>61032</b>	<b>61524</b>
1/2 x 18	36	10	200	<b>61033</b>	<b>61525</b>
1/2 x 18	40	10	200	<b>61034</b>	<b>61526</b>
1/2 x 18	50	10	200	<b>61035</b>	<b>61527</b>
1/2 x 18	60	10	200	<b>61036</b>	<b>61528</b>
1/2 x 18	80	10	200	<b>61037</b>	<b>61529</b>
1/2 x 18	100	10	200	<b>61038</b>	
1/2 x 18	120	10	200	<b>61039</b>	
1/2 x 24	24	10	200	<b>61040</b>	<b>61530</b>
1/2 x 24	36	10	200	<b>61041</b>	<b>61531</b>
1/2 x 24	40	10	200	<b>61042</b>	<b>61532</b>
1/2 x 24	50	10	200	<b>61043</b>	<b>61533</b>
1/2 x 24	60	10	200	<b>61044</b>	<b>61534</b>
1/2 x 24	80	10	200	<b>61045</b>	<b>61535</b>
1/2 x 24	100	10	200	<b>61046</b>	
1/2 x 24	120	10	200	<b>61047</b>	
3/4 x 12	24	10	200	<b>61048</b>	<b>61536</b>
3/4 x 12	36	10	200	<b>61049</b>	<b>61537</b>
3/4 x 12	40	10	200	<b>61050</b>	<b>61538</b>
3/4 x 12	50	10	200	<b>61051</b>	<b>61539</b>
3/4 x 12	60	10	200	<b>61052</b>	<b>61540</b>
3/4 x 12	80	10	200	<b>61053</b>	<b>61541</b>
3/4 x 12	100	10	200	<b>61054</b>	
3/4 x 12	120	10	200	<b>61055</b>	
3/4 x 18	24	10	200	<b>61056</b>	<b>61542</b>
3/4 x 18	36	10	200	<b>61057</b>	<b>61543</b>
3/4 x 18	40	10	200	<b>61058</b>	<b>61544</b>
3/4 x 18	50	10	200	<b>61059</b>	<b>61545</b>
3/4 x 18	60	10	200	<b>61060</b>	<b>61546</b>
3/4 x 18	80	10	200	<b>61061</b>	<b>61547</b>
3/4 x 18	100	10	200	<b>61062</b>	
3/4 x 18	120	10	200	<b>61063</b>	
3/4 x 24	24	10	200	<b>61064</b>	<b>61548</b>
3/4 x 24	36	10	200	<b>61065</b>	<b>61549</b>
3/4 x 24	40	10	200	<b>61066</b>	<b>61550</b>
3/4 x 24	50	10	200	<b>61067</b>	<b>61551</b>
3/4 x 24	60	10	200	<b>61068</b>	<b>61552</b>
3/4 x 24	80	10	200	<b>61069</b>	<b>61553</b>
3/4 x 24	100	10	200	<b>61070</b>	
3/4 x 24	120	10	200	<b>61071</b>	

**File Belts - Min. qty. package is nested together and wrapped in paper**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
1 x 12	24	10	200	<b>61072</b>	
1 x 12	36	10	200	<b>61073</b>	
1 x 12	40	10	200	<b>61074</b>	
1 x 12	50	10	200	<b>61075</b>	
1 x 12	60	10	200	<b>61076</b>	
1 x 12	80	10	200	<b>61077</b>	
1 x 12	100	10	200	<b>61078</b>	
1 x 12	120	10	200	<b>61079</b>	
1 x 30	24	10	200	<b>61080</b>	<b>61554</b>
1 x 30	36	10	200	<b>61081</b>	<b>61555</b>
1 x 30	40	10	200	<b>61082</b>	<b>61556</b>
1 x 30	50	10	200	<b>61083</b>	<b>61557</b>
1 x 30	60	10	200	<b>61084</b>	<b>61558</b>
1 x 30	80	10	200	<b>61085</b>	<b>61559</b>
1 x 30	100	10	200	<b>61086</b>	
1 x 30	120	10	200	<b>61087</b>	

**New** **Portable, Benchstand and Backstand Belts**

Description and Applications

- **A3 - Aluminum Oxide:**
  - General purpose grain on X-weight backing for rapid stick removal and long life.
  - For ferrous metals, stainless steel, non ferrous metals, composites, plastics and wood.
- **Z3 - Zirconia:**
  - Premium zirconia alumina grain on X-weight for aggressive use and heavy duty applications.
  - For steel and stainless steel.



**Portable, Benchstand and Backstand Belts**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
1 x 42	24	10	200	<b>61088</b>	<b>61560</b>
1 x 42	36	10	200	<b>61089</b>	<b>61561</b>
1 x 42	40	10	200	<b>61090</b>	<b>61562</b>
1 x 42	50	10	200	<b>61091</b>	<b>61563</b>
1 x 42	60	10	200	<b>61092</b>	<b>61564</b>
1 x 42	80	10	200	<b>61093</b>	<b>61565</b>
1 x 42	100	10	200	<b>61094</b>	
1 x 42	120	10	200	<b>61095</b>	
1 x 42	180	10	200	<b>61096</b>	
1 x 42	220	10	200	<b>61097</b>	
1 x 42	240	10	200	<b>61098</b>	
1 x 42	320	10	200	<b>61099</b>	
1 x 60	24	10	200	<b>61100</b>	<b>61566</b>
1 x 60	36	10	200	<b>61101</b>	<b>61567</b>
1 x 60	40	10	200	<b>61102</b>	<b>61568</b>
1 x 60	50	10	200	<b>61103</b>	<b>61569</b>
1 x 60	60	10	200	<b>61104</b>	<b>61570</b>
1 x 60	80	10	200	<b>61105</b>	<b>61571</b>
1 x 60	100	10	200	<b>61106</b>	
1 x 60	120	10	200	<b>61107</b>	

Min. qty. package is nested together and wrapped in paper

**Portable, Benchstand and Backstand Belts**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
1 x 90	24	10	200	<b>61108</b>	<b>61572</b>
1 x 90	36	10	200	<b>61109</b>	<b>61573</b>
1 x 90	40	10	200	<b>61110</b>	<b>61574</b>
1 x 90	50	10	200	<b>61111</b>	<b>61575</b>
1 x 90	60	10	200	<b>61112</b>	<b>61576</b>
1 x 90	80	10	200	<b>61113</b>	<b>61577</b>
1 x 90	100	10	200	<b>61114</b>	
1 x 90	120	10	200	<b>61115</b>	
2 x 48	24	10	50	<b>61116</b>	<b>61578</b>
2 x 48	36	10	50	<b>61117</b>	<b>61579</b>
2 x 48	40	10	50	<b>61118</b>	<b>61580</b>
2 x 48	50	10	50	<b>61119</b>	<b>61581</b>
2 x 48	60	10	50	<b>61120</b>	<b>61582</b>
2 x 48	80	10	50	<b>61121</b>	<b>61583</b>
2 x 48	100	10	50	<b>61122</b>	
2 x 48	120	10	50	<b>61123</b>	
2 x 60	24	10	50	<b>61124</b>	
2 x 60	36	10	50	<b>61125</b>	
2 x 60	40	10	50	<b>61126</b>	
2 x 60	50	10	50	<b>61127</b>	
2 x 60	60	10	50	<b>61128</b>	
2 x 60	80	10	50	<b>61129</b>	
2 x 60	100	10	50	<b>61130</b>	
2 x 60	120	10	50	<b>61131</b>	
2 x 72	24	10	50	<b>61132</b>	
2 x 72	36	10	50	<b>61133</b>	
2 x 72	40	10	50	<b>61134</b>	
2 x 72	50	10	50	<b>61135</b>	
2 x 72	60	10	50	<b>61136</b>	
2 x 72	80	10	50	<b>61137</b>	
2 x 72	100	10	50	<b>61138</b>	
2 x 72	120	10	50	<b>61139</b>	
2 x 90	24	10	50	<b>61140</b>	<b>61584</b>
2 x 90	36	10	50	<b>61141</b>	<b>61585</b>
2 x 90	40	10	50	<b>61142</b>	<b>61586</b>
2 x 90	50	10	50	<b>61143</b>	<b>61587</b>
2 x 90	60	10	50	<b>61144</b>	<b>61588</b>
2 x 90	80	10	50	<b>61145</b>	<b>61589</b>
2 x 90	100	10	50	<b>61146</b>	
2 x 90	120	10	50	<b>61147</b>	

Min. qty. package is nested together and wrapped in paper

**Portable, Benchstand and Backstand Belts**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
2 x 118	24	10	50	<b>61148</b>	<b>61590</b>
2 x 118	36	10	50	<b>61149</b>	<b>61591</b>
2 x 118	40	10	50	<b>61150</b>	<b>61592</b>
2 x 118	50	10	50	<b>61151</b>	<b>61593</b>
2 x 118	60	10	50	<b>61152</b>	<b>61594</b>
2 x 118	80	10	50	<b>61153</b>	<b>61595</b>
2 x 118	100	10	50	<b>61154</b>	
2 x 118	120	10	50	<b>61155</b>	
2 x 132	24	10	50	<b>61156</b>	<b>61596</b>
2 x 132	36	10	50	<b>61157</b>	<b>61597</b>
2 x 132	40	10	50	<b>61158</b>	<b>61598</b>
2 x 132	50	10	50	<b>61159</b>	<b>61599</b>
2 x 132	60	10	50	<b>61160</b>	<b>61600</b>
2 x 132	80	10	50	<b>61161</b>	<b>61601</b>
2 x 132	100	10	50	<b>61162</b>	
2 x 132	120	10	50	<b>61163</b>	
3 x 18	24	10	100	<b>61164</b>	<b>61608</b>
3 x 18	36	10	100	<b>61165</b>	<b>61609</b>
3 x 18	40	10	100	<b>61166</b>	<b>61610</b>
3 x 18	50	10	100	<b>61167</b>	<b>61611</b>
3 x 18	60	10	100	<b>61168</b>	<b>61612</b>
3 x 18	80	10	100	<b>61169</b>	<b>61613</b>
3 x 18	100	10	100	<b>61170</b>	
3 x 18	120	10	100	<b>61171</b>	
3 x 18	150	10	100	<b>61172</b>	
3 x 18	180	10	100	<b>61173</b>	
3 x 18	220	10	100	<b>61174</b>	
3 x 18	240	10	100	<b>61175</b>	
3 x 18	320	10	100	<b>61176</b>	
3 x 21	24	10	50	<b>61177</b>	
3 x 21	36	10	50	<b>61178</b>	
3 x 21	40	10	50	<b>61179</b>	
3 x 21	50	10	50	<b>61180</b>	
3 x 21	60	10	50	<b>61181</b>	
3 x 21	80	10	50	<b>61182</b>	
3 x 21	100	10	50	<b>61183</b>	
3 x 21	120	10	50	<b>61184</b>	
3 x 21	150	10	50	<b>61185</b>	
3 x 21	180	10	50	<b>61186</b>	
3 x 21	220	10	50	<b>61187</b>	
3 x 21	240	10	50	<b>61188</b>	
3 x 21	320	10	50	<b>61189</b>	

Min. qty. package is nested together and wrapped in paper

**Portable, Benchstand and Backstand Belts**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
3 x 24	24	10	50	<b>61190</b>	
3 x 24	36	10	50	<b>61191</b>	
3 x 24	40	10	50	<b>61192</b>	
3 x 24	50	10	50	<b>61193</b>	
3 x 24	60	10	50	<b>61194</b>	
3 x 24	80	10	50	<b>61195</b>	
3 x 24	100	10	50	<b>61196</b>	
3 x 24	120	10	50	<b>61197</b>	
3 x 24	150	10	50	<b>61198</b>	
3 x 24	180	10	50	<b>61199</b>	
3 x 24	220	10	50	<b>61200</b>	
3 x 24	240	10	50	<b>61201</b>	
3 x 24	320	10	50	<b>61202</b>	
3 x 60	24	10	50	<b>61203</b>	
3 x 60	36	10	50	<b>61204</b>	
3 x 60	40	10	50	<b>61205</b>	
3 x 60	50	10	50	<b>61206</b>	
3 x 60	60	10	50	<b>61207</b>	
3 x 60	80	10	50	<b>61208</b>	
3 x 60	100	10	50	<b>61209</b>	
3 x 60	120	10	50	<b>61210</b>	
3 x 90	24	10	50	<b>61211</b>	<b>61602</b>
3 x 90	36	10	50	<b>61212</b>	<b>61603</b>
3 x 90	40	10	50	<b>61213</b>	<b>61604</b>
3 x 90	50	10	50	<b>61214</b>	<b>61605</b>
3 x 90	60	10	50	<b>61215</b>	<b>61606</b>
3 x 90	80	10	50	<b>61216</b>	<b>61607</b>
3 x 90	100	10	50	<b>61217</b>	
3 x 90	120	10	50	<b>61218</b>	
3 x 118	24	10	50	<b>61219</b>	
3 x 118	36	10	50	<b>61220</b>	
3 x 118	40	10	50	<b>61221</b>	
3 x 118	50	10	50	<b>61222</b>	
3 x 118	60	10	50	<b>61223</b>	
3 x 118	80	10	50	<b>61224</b>	
3 x 118	100	10	50	<b>61225</b>	
3 x 118	120	10	50	<b>61226</b>	
3 x 132	24	10	50	<b>61227</b>	<b>61614</b>
3 x 132	36	10	50	<b>61228</b>	<b>61615</b>
3 x 132	40	10	50	<b>61229</b>	<b>61616</b>
3 x 132	50	10	50	<b>61230</b>	<b>61617</b>
3 x 132	60	10	50	<b>61231</b>	<b>61618</b>
3 x 132	80	10	50	<b>61232</b>	<b>61619</b>
3 x 132	100	10	50	<b>61233</b>	
3 x 132	120	10	50	<b>61234</b>	

Min. qty. package is nested together and wrapped in paper

**Portable, Benchstand and Backstand Belts**

SIZE	GRIT	GRIT	CARTON QTY	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
4 x 21	24	10	50	<b>61235</b>	
4 x 21	36	10	50	<b>61236</b>	
4 x 21	40	10	50	<b>61237</b>	
4 x 21	50	10	50	<b>61238</b>	
4 x 21	60	10	50	<b>61239</b>	
4 x 21	80	10	50	<b>61240</b>	
4 x 21	100	10	50	<b>61241</b>	
4 x 21	120	10	50	<b>61242</b>	
4 x 21	150	10	50	<b>61243</b>	
4 x 21	180	10	50	<b>61244</b>	
4 x 21	220	10	50	<b>61245</b>	
4 x 21	240	10	50	<b>61246</b>	
4 x 21	320	10	50	<b>61247</b>	
4 x 24	24	10	50	<b>61248</b>	
4 x 24	36	10	50	<b>61249</b>	
4 x 24	40	10	50	<b>61250</b>	
4 x 24	50	10	50	<b>61251</b>	
4 x 24	60	10	50	<b>61252</b>	
4 x 24	80	10	50	<b>61253</b>	
4 x 24	100	10	50	<b>61254</b>	
4 x 24	120	10	50	<b>61255</b>	
4 x 24	150	10	50	<b>61256</b>	
4 x 24	180	10	50	<b>61257</b>	
4 x 24	220	10	50	<b>61258</b>	
4 x 24	240	10	50	<b>61259</b>	
4 x 24	320	10	50	<b>61260</b>	
4 x 36	24	10	50	<b>61261</b>	
4 x 36	36	10	50	<b>61262</b>	
4 x 36	40	10	50	<b>61263</b>	
4 x 36	50	10	50	<b>61264</b>	
4 x 36	60	10	50	<b>61265</b>	
4 x 36	80	10	50	<b>61266</b>	
4 x 36	100	10	50	<b>61267</b>	
4 x 36	120	10	50	<b>61268</b>	
4 x 36	150	10	50	<b>61269</b>	
4 x 36	180	10	50	<b>61270</b>	
4 x 36	220	10	50	<b>61271</b>	
4 x 36	240	10	50	<b>61272</b>	
4 x 36	320	10	50	<b>61273</b>	

Min. qty. package is nested together and wrapped in paper

**Portable, Benchstand and Backstand Belts**

SIZE	GRIT	MIN QTY	STD PACKAGE	A3 ALUMINUM OXIDE	Z3 ZIRCONIA
4 x 118	24	10	50	<b>61274</b>	<b>61620</b>
4 x 118	36	10	50	<b>61275</b>	<b>61621</b>
4 x 118	40	10	50	<b>61276</b>	<b>61622</b>
4 x 118	50	10	50	<b>61277</b>	<b>61623</b>
4 x 118	60	10	50	<b>61278</b>	<b>61624</b>
4 x 118	80	10	50	<b>61279</b>	<b>61625</b>
4 x 118	100	10	50	<b>61280</b>	
4 x 118	120	10	50	<b>61281</b>	
4 x 132	24	10	50	<b>61282</b>	<b>61626</b>
4 x 132	36	10	50	<b>61283</b>	<b>61627</b>
4 x 132	40	10	50	<b>61284</b>	<b>61628</b>
4 x 132	50	10	50	<b>61285</b>	<b>61629</b>
4 x 132	60	10	50	<b>61286</b>	<b>61630</b>
4 x 132	80	10	50	<b>61287</b>	<b>61631</b>
4 x 132	100	10	50	<b>61288</b>	
4 x 132	120	10	50	<b>61289</b>	
6 x 48	24	10	50	<b>61290</b>	<b>61632</b>
6 x 48	36	10	50	<b>61291</b>	<b>61633</b>
6 x 48	40	10	50	<b>61292</b>	<b>61634</b>
6 x 48	50	10	50	<b>61293</b>	<b>61635</b>
6 x 48	60	10	50	<b>61294</b>	<b>61636</b>
6 x 48	80	10	50	<b>61295</b>	<b>61637</b>
6 x 48	100	10	50	<b>61296</b>	
6 x 48	120	10	50	<b>61297</b>	
6 x 48	150	10	50	<b>61298</b>	
6 x 48	180	10	50	<b>61299</b>	
6 x 48	220	10	50	<b>61300</b>	
6 x 48	240	10	50	<b>61301</b>	
6 x 48	320	10	50	<b>61302</b>	
6 x 132	24	10	20	<b>61303</b>	
6 x 132	36	10	20	<b>61304</b>	
6 x 132	40	10	20	<b>61305</b>	
6 x 132	50	10	20	<b>61306</b>	
6 x 132	60	10	20	<b>61307</b>	
6 x 132	80	10	20	<b>61308</b>	
6 x 132	100	10	20	<b>61309</b>	
6 x 132	120	10	20	<b>61310</b>	

Min. qty. package is nested together and wrapped in paper





# CONVOLUTE WHEELS

## Convolute Wheels

### Description and Applications

- CGW convolute wheels are made for long working life even if put in contact with sharp edges.
- Convolute wheels improve work surfaces without changing shapes or dimensions.
- Convolute wheels resist heating up and loading.

**New**

### Deburring Wheels

- Designed for high stock removal, cool working and easy work piece conformability.
- Quickly removes light burrs, blends machine & belt marks and applies final finishes.
- For metal, plastic and composite materials.



**SILICON CARBIDE**

**ALUMINUM OXIDE**



UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
<b>Deburring Wheels - General Purpose</b>				
<b>70130</b>	6 x 1/2 x 1	7 / S / Fine	6,000	4
<b>70131</b>	6 x 1/2 x 1	8 / A / Medium	6,000	4
<b>70132</b>	6 x 1/2 x 1	8 / S / Fine	6,000	4
<b>70133</b>	6 x 1/2 x 1	9 / S / Fine	6,000	4
<b>70134</b>	6 x 1 x 1	7 / S / Fine	6,000	2
<b>70135</b>	6 x 1 x 1	8 / A / Medium	6,000	2
<b>70136</b>	6 x 1 x 1	8 / S / Fine	6,000	2
<b>70137</b>	6 x 1 x 1	9 / S / Fine	6,000	2
<b>70138</b>	8 x 1/2 x 3	7 / S / Fine	4,500	4
<b>70139</b>	8 x 1/2 x 3	8 / A / Medium	4,500	4
<b>70140</b>	8 x 1/2 x 3	8 / S / Fine	4,500	4
<b>70141</b>	8 x 1/2 x 3	9 / S / Fine	4,500	4
<b>70142</b>	8 x 1 x 3	7 / S / Fine	4,500	2
<b>70143</b>	8 x 1 x 3	8 / A / Medium	4,500	2
<b>70144</b>	8 x 1 x 3	8 / S / Fine	4,500	2
<b>70145</b>	8 x 1 x 3	9 / S / Fine	4,500	2
<b>70148</b>	8 x 2 x 3	8 / S / Fine	4,500	1
<b>70149</b>	8 x 2 x 3	9 / S / Fine	4,500	1

A=Aluminum Oxide, S=Silicon Carbide

CONVOLUTE WHEELS

# CONVOLUTE WHEELS

## **New** Deburring Wheels - Metal Finishing

### Description and Applications

- Made for uniform finishing and light deburring without changing work piece dimensions.
- Blend coated abrasive scratch patterns and tool marks.
- Provides uniform distinct satin, cosmetic, brushed and antique finishes.
- For metal, plastic and composite materials.



ALUMINUM OXIDE



UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
<b>Deburring Wheels - Metal Finishing</b>				
<b>70150</b>	6 x 1 x 1	5 / A / Medium	6,000	2
<b>70151</b>	6 x 2 x 1	5 / A / Medium	6,000	1
<b>70152</b>	8 x 1 x 3	5 / A / Medium	4,500	2
<b>70153</b>	8 x 2 x 3	5 / A / Medium	4,500	1

## **New** Deburring Wheels - Multi Finishing

### Description and Applications

- Made for general purpose cleaning, rust removal and removal of discoloration from welds.
- For metal, plastic and composite materials.
- Long life, high stock removal, conforms to work piece.



SILICON CARBIDE



UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
<b>Deburring Wheels - General Purpose</b>				
<b>70154</b>	6 x 1 x 1	2 / S / Coarse	6,000	2
<b>70155</b>	6 x 1 x 1	2 / S / Medium	6,000	1
<b>70156</b>	6 x 2 x 1	2 / S / Coarse	6,000	2
<b>70157</b>	6 x 2 x 1	2 / S / Medium	6,000	1
<b>70159</b>	8 x 1 x 3	2 / S / Medium	4,500	2
<b>70160</b>	8 x 2 x 3	2 / S / Medium	4,500	1

# UNITIZED WHEELS

## **New** Unitized Wheels with Arbor Hole

Description and Applications

- Non-woven material impregnated with resin and compressed for finishing and long working life.
- Designed to resist tearing when working on sharp parts and edges.
- Easily deburrs, cleans, blends and polishes.



ALUMINUM OXIDE

SILICON CARBIDE



Die Grinder



Bench Grinder

UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
<b>Unitized Wheels - with hole</b>				
<b>72000</b>	1 x 1 x 3/16	6 / A / Medium	35,100	40
<b>72001</b>	1 x 1 x 3/16	8 / A / Coarse	35,100	40
<b>72002</b>	3 x 1/4 x 3/8	2 / S / Fine	15,100	25
<b>72003</b>	3 x 1/4 x 3/8	2 / A / Medium	15,100	25
<b>72004</b>	3 x 1/4 x 3/8	6 / S / Medium	15,100	25
<b>72005</b>	3 x 1/4 x 3/8	8 / A / Coarse	15,100	25
<b>72006</b>	6 x 1/4 x 1	2 / S / Fine	7,500	20
<b>72007</b>	6 x 1/4 x 1	2 / S / Medium	7,500	20
<b>72008</b>	6 x 1/2 x 1	2 / S / Fine	7,500	10
<b>72009</b>	6 x 1/2 x 1	2 / S / Medium	7,500	10

A=Aluminum Oxide, S=Silicon Carbide

## **New** Unitized Quick Change Wheels - Roll On

Description and Applications

- Designed for use on all disc sides which is ideal for hard to reach areas.
- Easily deburrs, cleans, blends and polishes.
- For metal, plastic and composite materials.



ALUMINUM OXIDE

SILICON CARBIDE



Die Grinder



Roloc

UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
<b>Unitized Wheels - Quick Change, Roll On</b>				
<b>72040</b>	2	2 / S / Fine	22,100	10
<b>72041</b>	2	2 / A / Medium	22,100	10
<b>72042</b>	2	6 / A / Medium	22,100	10
<b>72043</b>	3	2 / S / Fine	15,100	10
<b>72044</b>	3	2 / A / Medium	15,100	10
<b>72045</b>	3	6 / A / Medium	15,100	10

A=Aluminum Oxide, S=Silicon Carbide

# UNITIZED WHEELS

## **New** Unitized Right Angle Grinder Wheels

Description and Applications

- Unitized material on a firm, long lasting backing for use on right angle grinders.
- Easily works on large and small areas to clean, blend, surface finish, and polish.
- For metal, plastic and composite materials.



ALUMINUM OXIDE

SILICON CARBIDE



Type 27



UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
<b>Unitized Fiberglass Backed Wheels</b>				
72050	4 1/2 x 7/8	2 / S / Fine	11,000	10
72051	4 1/2 x 7/8	3 / S / Fine	11,000	10
72052	4 1/2 x 7/8	6 / A / Medium	11,000	10
72055	4 1/2 x 5/8-11	2 / S / Fine	11,000	10
72056	4 1/2 x 5/8-11	3 / S / Fine	11,000	10
72057	4 1/2 x 5/8-11	6 / A / Medium	11,000	10
72053	5 x 7/8	2 / S / Fine	11,000	10
72054	5 x 7/8	6 / A / Medium	11,000	10
72058	5 x 5/8-11	2 / S / Fine	11,000	10
72059	5 x 5/8-11	6 / A / Medium	11,000	10

A=Aluminum Oxide, S=Silicon Carbide

## **New** Type 27 Unitized Fiberglass Backed Wheels

Description and Applications

- Very Fine: Light pressure for fine finishing and polishing; run at slower speeds for fine finish. Very conformable.
- Medium Fine: Light pressure for fine finishing and polishing. Highly conformable. Strong edge durability and high stock removal.
- Hard Medium: High stock removal and deburring; high cut rate with long life. Very strong edge durability; effective on stainless steel.



ALUMINUM OXIDE

SILICON CARBIDE



Type 27



UPC#	SIZE	GRAIN	DENSITY / GRADE	RPM	CARTON QTY
<b>Type 27 Unitized Fiberglass Backed Wheels</b>					
72070	4 1/2 x 7/8	AO	Soft / Very Fine	11,000	10
72071	4 1/2 x 5/8-11	AO	Soft / Very Fine	11,000	10
72072	4 1/2 x 7/8	AO	Medium / Fine	11,000	10
72073	4 1/2 x 5/8-11	AO	Medium / Fine	11,000	10
72074	4 1/2 x 7/8	AO	Hard / Medium	11,000	10
72075	4 1/2 x 5/8-11	AO	Hard / Medium	11,000	10
72080	4 1/2 x 7/8	SC	Soft / Very Fine	11,000	10
72081	4 1/2 x 5/8-11	SC	Soft / Very Fine	11,000	10
72082	4 1/2 x 7/8	SC	Medium / Fine	11,000	10
72083	4 1/2 x 5/8-11	SC	Medium / Fine	11,000	10
72084	4 1/2 x 7/8	SC	Hard / Medium	11,000	10
72085	4 1/2 x 5/8-11	SC	Hard / Medium	11,000	10

# EZ STRIP WHEELS

## EZ Strip Wheels

### Description and Applications

- Non woven wheels for cleaning welds and fast removal of rust, scaling, oxidation, paints, sealants, and other clogging materials.
- EZ strip wheels can be used on stainless steel, steel, aluminum, titanium, non-ferrous metals, fibre glass, stone and wood.
- Red EZ strip wheels are more rigid for faster working on angled and irregular surfaces.
- Black EZ strip wheels clean and can provide a satin finish.



### EZ Strip Wheels - Red

UPC#	SIZE	RPM	CARTON QTY
59204	4 1/2 x 7/8	11,000	10
59205	4 1/2 x 5/8-11	11,000	10
<b>New</b> <b>New</b> 59208	5 x 7/8	9,800	10
59209	5 x 5/8-11	9,800	10
59206	7 x 7/8	7,000	10
59207	7 x 5/8-11	7,000	10

### EZ Strip Wheels - Black

UPC#	SIZE	RPM	CARTON QTY
59200	4 1/2 x 7/8	11,000	10
59201	4 1/2 x 5/8-11	11,000	10
59210	5 x 7/8	9,800	10
59211	5 x 5/8-11	9,800	10
59202	7 x 7/8	7,000	10
59203	7 x 5/8-11	7,000	10

### **New** EZ Strip Wheels - Roll On

#### Description and Applications

- Roll-on attachment for easy attachment



### EZ Strip Wheels - Red, Roll On

UPC#	SIZE	RPM	CARTON QTY
59060	2 x 1/2	16,000	10
59062	3 x 1/2	10,500	10

### EZ Strip Wheels - Black, Roll On

UPC#	SIZE	RPM	CARTON QTY
59061	2 x 1/2	16,000	10
59063	3 x 1/2	10,500	10

## **New** EZ Strip Wheels With 1/2" Arbor Hole

### Description and Applications

- Die cut into a disc shape with no backing
- Discs can easily be paired for extended working life. Use the appropriate shaft when pairing.



### EZ Strip Single Wheels with 1/2" Arbor Hole - BLACK

UPC#	SIZE	RPM	CARTON QTY
70038	4 x 1/2 x 1/2	8,000	10
70039	5 x 1/2 x 1/2	6,000	10
70040	6 x 1/2 x 1/2	5,500	10
70041	7 x 1/2 x 1/2	4,500	10
70042	8 x 1/2 x 1/2	4,000	10

### EZ Strip Single Wheels with 1/2" Arbor Hole - RED

UPC#	SIZE	RPM	CARTON QTY
70046	4 x 1/2 x 1/2	8,000	10
70047	6 x 1/2 x 1/2	5,500	10
70048	8 x 1/2 x 1/2	4,000	10

### EZ Strip Shafts

UPC#	SIZE	CARTON QTY
70043	1/4 x M8 shaft for EZ Strip Wheels	1
70044	1/4 x M12 shaft for <i>Single</i> EZ Strip Wheels	1
70045	5/16 x M8 shaft for <i>Double</i> EZ Strip Wheels	1

## **New** EZ Strip Wheels With 1/4" Spindle

### Description and Applications

- Spindle mount for quick attachment



### EZ Strip Single Wheels with 1/4" mounted spindle - BLACK

UPC#	SIZE	RPM	CARTON QTY
70049	2 x 1/2 x 1/4	16,000	10
70050	3 x 1/2 x 1/4	10,500	10
70051	4 x 1/2 x 1/4	8,000	10

### EZ Strip Double Wheels with 1/4" mounted spindle - BLACK

UPC#	SIZE	RPM	CARTON QTY
70052	2 x 1 x 1/4	16,000	10
70053	3 x 1 x 1/4	10,500	10
70054	4 x 1 x 1/4	8,000	10

### EZ Strip Wheels with 1/4" mounted spindle - RED

UPC#	SIZE	RPM	CARTON QTY
70055	4 x 1/2 x 1/4	8,000	10
70056	4 x 1 x 1/4	8,000	10

# SURFACE CONDITIONING DISCS

## **New** Surface Conditioning Discs

### **Hook and Loop**

#### Description and Applications

- Impregnated with abrasive grain for fast material removal
- Designed for long working life and resists loading
- Use on steel, stainless steel, aluminum, titanium and alloys, fibre glass, plastic and glass fibre



### Surface Conditioning Discs

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70000	4"	Coarse – Gold	13,000	10
70001	4"	Medium – Maroon	13,000	10
70002	4"	Very Fine – Grey	13,000	10
70003	4"	Ultra Fine – Lt. Grey	13,000	10
70004	4"	Heavy Duty – Brown	13,000	10
70005	4"	Heavy Duty – Maroon	13,000	10
70006	4 1/2"	Coarse – Gold	12,000	10
70007	4 1/2"	Medium – Maroon	12,000	10
70008	4 1/2"	Very Fine – Grey	12,000	10
70009	4 1/2"	Ultra Fine – Lt. Grey	12,000	10
70010	4 1/2"	Heavy Duty – Brown	12,000	10
70011	4 1/2"	Heavy Duty – Maroon	12,000	10
70012	5"	Coarse – Gold	10,000	10
70013	5"	Medium – Maroon	10,000	10
70014	5"	Very Fine – Grey	10,000	10
70015	5"	Ultra Fine – Lt. Grey	10,000	10
70016	5"	Heavy Duty – Brown	10,000	10
70017	5"	Heavy Duty – Maroon	10,000	10
70018	6"	Coarse – Gold	7,000	10
70019	6"	Medium – Maroon	7,000	10
70020	6"	Very Fine – Grey	7,000	10
70021	6"	Extra Coarse – Brown	7,000	10
70022	7"	Extra Coarse – Brown	6,000	10
70023	7"	Coarse – Gold	6,000	10
70024	7"	Medium – Maroon	6,000	10
70025	7"	Very Fine – Grey	6,000	10
70026	8"	Coarse – Gold	4,800	10
70027	8"	Medium – Maroon	4,800	10
70028	8"	Very Fine – Grey	4,800	10



## **New** Surface Conditioning Discs

### **Hook and Loop**

#### Description and Applications

- Impregnated with abrasive grain for fast material removal
- Designed for long working life and resists loading
- Use on steel, stainless steel, aluminum, titanium and alloys, fibre glass, plastic and glass fibre



### Surface Conditioning Discs with Arbor Hole

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>70029</b>	4 $\frac{1}{2}$ x $\frac{7}{8}$	Coarse – Gold	12,000	10
<b>70030</b>	4 $\frac{1}{2}$ x $\frac{7}{8}$	Medium – Maroon	12,000	10
<b>70031</b>	4 $\frac{1}{2}$ x $\frac{7}{8}$	Very Fine – Grey	12,000	10
<b>70032</b>	5 x $\frac{7}{8}$	Coarse – Gold	10,000	10
<b>70033</b>	5 x $\frac{7}{8}$	Medium – Maroon	10,000	10
<b>70034</b>	5 x $\frac{7}{8}$	Very Fine – Grey	10,000	10
<b>70035</b>	7 x $\frac{7}{8}$	Coarse – Gold	6,000	10
<b>70036</b>	7 x $\frac{7}{8}$	Medium – Maroon	6,000	10
<b>70037</b>	7 x $\frac{7}{8}$	Very Fine – Grey	6,000	10

## **New** Backing Pads

#### Description and Applications

- 4-8" pads with internal 5/8-11 threads
- 1/4" foam for medium stiffness and maximum grip for hook and loop discs
- \*Polypropylene back-up pad for right angle surface conditioning discs



### Backing Pads

UPC#	SIZE	CARTON QTY
<b>49532</b>	4 x $\frac{5}{8}$ -11	1
<b>49533</b>	4 $\frac{1}{2}$ x $\frac{5}{8}$ -11	1
<b>49534</b>	5 x $\frac{5}{8}$ -11	1
<b>49535</b>	6 x $\frac{5}{8}$ -11	1
<b>49536</b>	7 x $\frac{5}{8}$ -11	1
<b>49537</b>	8 x $\frac{5}{8}$ -11	1
<b>*48224</b>	4 $\frac{1}{2}$ - polypropylene	1
<b>*48225</b>	5 - polypropylene	1
<b>*48226</b>	7 - polypropylene	1

**New** **Premium Surface Conditioning Hand Pads**

Description and Applications

- Strong, yet flexible premium pad construction for surface preparation
- Maroon pads for removing rust removal, cleaning and surface preparation
- Grey pads for fine finishing and surface preparation
- Green pads for heavy duty cleaning
- White pads are constructed from a non-abrasive material for light duty cleaning
- Tan pads for rust removal and coarse finishes
- Black pads for aggressive use; heavy cleaning, deburring and finishing



**6 x 9 Premium Non-Woven Hand Pads**

UPC#	SPEC.	CARTON QTY
<b>36287</b>	Maroon – All Purpose	20
<b>36283</b>	Grey – Ultra Fine	20
<b>36284</b>	Green – General Cleaning	20
<b>36285</b>	White – Light Duty	20
<b>36286</b>	Tan – Heavy Duty	20
<b>71151</b>	Black – Heavy Duty	60

**Bulk Shrink Wrap Packs of 10**

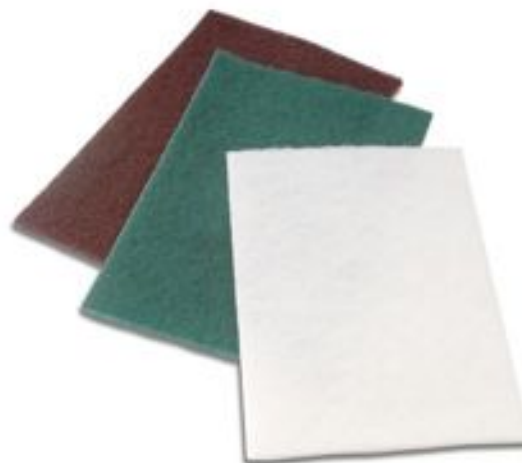
UPC#	SPEC.	CARTON QTY
<b>36288</b>	Maroon – Bulk	520

**New**

**Surface Conditioning Hand Pads - Economy**

Description and Applications

- Non-woven material engineered for surface preparation.
- Maroon – *All Purpose*
  - Impregnated with abrasive grain and synthetic resin for long-lasting, versatile use.
  - Recommended for removing rust and corrosion and in surface preparation and cleaning applications.
- Green – *General Cleaning*
  - Impregnated with medium abrasive grain for easy use and rinsing.
  - Recommended for cleaning all types of equipment, metal surfaces and other durable surfaces.
- White – *Light Duty*
  - Non-abrasive material does not make scratches and is long lasting.
  - Recommended for cleaning sensitive surfaces, metal, formica, solid surfaces, glass, and mirror.



**6 x 9 Non-Woven Hand Pads**

UPC#	SPEC.	CARTON QTY*
<b>36241</b>	Maroon – All Purpose	60
<b>36242</b>	Green – General Cleaning	60
<b>36243</b>	White – Light Duty	60

\* Carton contains 6 packages of 10

## Interleaf Wheels

Description and Applications

- Alternating flaps of non-woven and coated abrasive materials for fast, uniform surface preparation and finishes.
- Medium grade wheels easily clean, blend, and debur aluminum & stainless steels, and ferrous & non-ferrous metals.
- Very fine grade wheels for satin finishing on aluminum & stainless steels, and ferrous and non-ferrous metals.
- Spindle mount for quick and easy changes.

**2 x 1 x 1/4 11,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>36207</b>	Medium 60 Grit	10
<b>36208</b>	Medium 80 Grit	10
<b>36209</b>	Very Fine 120 Grit	10
<b>36210</b>	Very Fine 180 Grit	10

## 2-4" Quick Change Discs - Surface Conditioning, Roll On

- For stainless steel, and ferrous & non-ferrous metals.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

**2" Diameter 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>59503</b>	Coarse - Brown	50
<b>59504</b>	Medium - Maroon	50
<b>59505</b>	A Very Fine - Blue	50
<b>59608</b>	S Ultra Fine - Grey	50

**3" Diameter 20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>59506</b>	Coarse - Brown	25
<b>59507</b>	Medium - Maroon	25
<b>59508</b>	A Very Fine - Blue	25
<b>59609</b>	S Ultra Fine - Grey	25

## 2-3" Quick Change Discs - Surface Conditioning, Turn On

- For stainless steel, and ferrous & non-ferrous metals.

**2" Diameter 25,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>59610</b>	Coarse - Brown	50
<b>59611</b>	Medium - Maroon	50
<b>59612</b>	Very Fine - Blue	50



**3 x 1 x 1/4**

**8,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>36211</b>	Medium 60 Grit	10
<b>36212</b>	Medium 80 Grit	10
<b>36213</b>	Very Fine 120 Grit	10
<b>36214</b>	Very Fine 180 Grit	10

**3 x 2 x 1/4**

**8,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>36250</b>	Extra Coarse Grit	10
<b>36215</b>	Medium 60 Grit	10
<b>36216</b>	Medium 80 Grit	10
<b>36217</b>	Very Fine 120 Grit	10
<b>36218</b>	Very Fine 180 Grit	10



See pages 34-38 for Quick Change Discs.



**4" Diameter**

**12,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>59509</b>	Coarse - Brown	25
<b>59510</b>	Medium - Maroon	25
<b>59511</b>	A Very Fine - Blue	25



**3" Diameter**

**20,000 R.P.M.**

UPC#	SPEC.	CARTON QTY
<b>59614</b>	Coarse - Brown	25
<b>59615</b>	Medium - Maroon	25
<b>59616</b>	Very Fine - Blue	25

**New Non Woven Flap Wheels**

*Description and Applications*

- 100% non woven aluminum oxide flap wheels provide excellent flexibility and conforms to work surface.
- Available in coarse, medium, and fine.



Die Grinder

1 x 1 x 1/4			12,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36450	Coarse (Tan)	10	
36451	Medium (Maroon)	10	
36452	Fine (Maroon)	10	

2 x 1 x 1/4			12,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36453	Coarse (Tan)	10	
36454	Medium (Maroon)	10	
36455	Fine (Maroon)	10	

3 x 1 x 1/4			10,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36456	Coarse (Tan)	10	
36457	Medium (Maroon)	10	
36458	Fine (Maroon)	10	

3 x 2 x 1/4			10,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36459	Coarse (Tan)	10	
36460	Medium (Maroon)	10	
36461	Fine (Maroon)	10	

**New Surface Conditioning Flap Discs**

*Description and Applications*

- Premium surface conditioning material for surface preparation.
- Three different grits for blending, deburring, and cleaning.
- For steel and stainless steel.



Right Angle Grinder

Type 29



UPC#	SIZE	GRIT	RPM	CARTON QTY
70120	4 1/2 x 7/8	Coarse – Brown	13,300	10
70121	4 1/2 x 5/8-11	Coarse – Brown	13,300	10
70122	4 1/2 x 7/8	Medium – Maroon	13,300	10
70123	4 1/2 x 5/8-11	Medium – Maroon	13,300	10
70124	4 1/2 x 7/8	Very Fine – Blue	13,300	10
70125	4 1/2 x 5/8-11	Very Fine – Blue	13,300	10

See pages 12-26 for More Flap Discs.

RESIN BONDED WHEELS



# THE RIGHT ABRASIVE FOR



## Right Angle Grinders – Page 72-83

- Quickie Cut™ Cut-Off Wheels
- Quickie Cut™ EXTREME Wheels
- Super Quickie Cut™ Cut-Off Wheels
- Contaminate-Free Cut-Off Wheels
- 3/32" Quickie Cut™ Cut-Off Wheels
- .094 3-in-1 Wheels Cut/Grind/Finish
- .075 Super Quickie Cut™ Cut/Grind Combo Wheels
- Depressed Center Wheels



## Die Grinders – Page 84-85

- 1-1/2" – 4" Cut-Off Wheels



## Circular Saws – Page 86

- 7" Cut-Off Wheels



## Stationary Saws – Page 86-87

- 10" – 20" Cut-Off Wheels



## Chop Saws – Page 88-89

- 10" – 16" Cut-Off Wheels

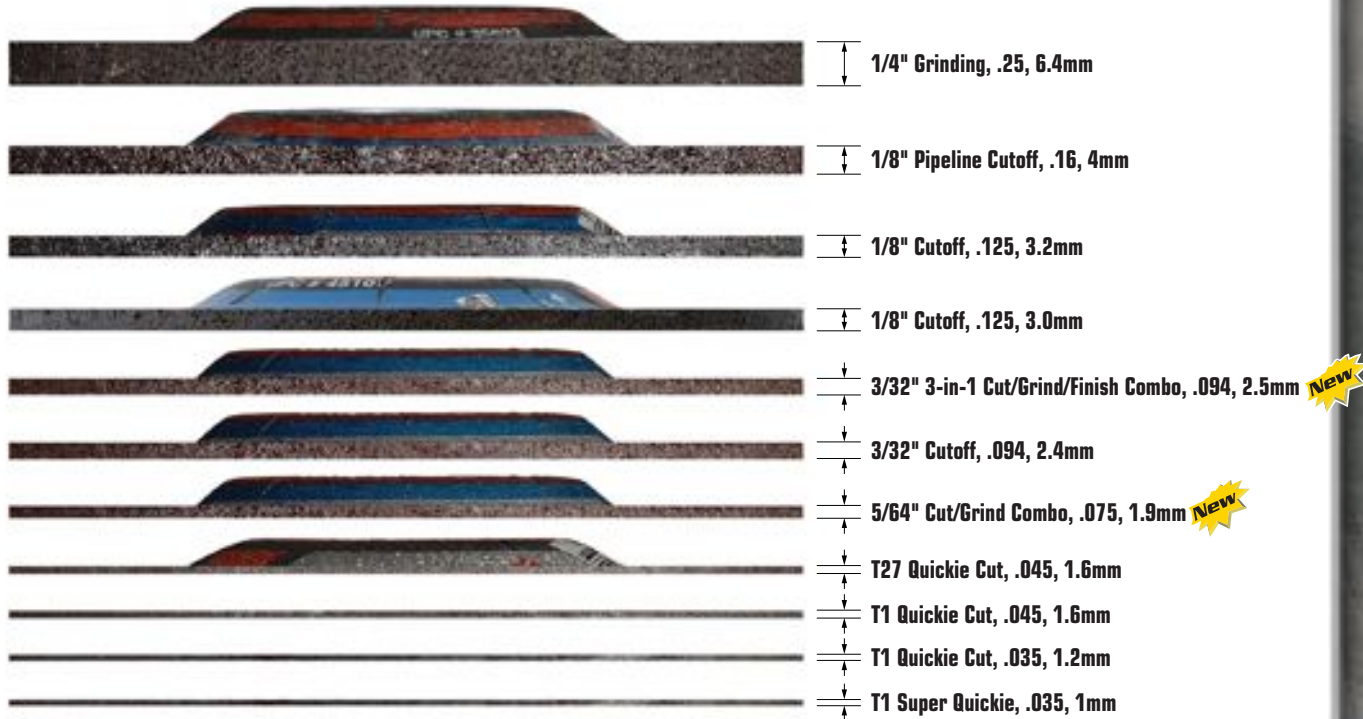


## Gas Saws – Page 90-92

- 12" – 16" Cut-Off Wheels
- 14" – 16" Rail Wheels

# ALL YOUR TOOL NEEDS

## CGW has the Broadest Resin Bonded Wheel Program in the Industry



QUICKIE CUT™ CUT-OFF WHEELS

## Quickie Cut™ Thin Cut-Off Wheels – The Market Leader in Performance

- Less cutting resistance for faster working
- Less dust generation
- Less work piece waste
- Less burrs and sparks
- Less vibration for easier operation
- Engineered for longer machine life
- All CGW cut-off wheels easily cut carbon and stainless steels with one disc.
- Contaminate-Free wheels contain  $\leq 0.1\%$  iron, sulfur, or chlorine for rust-free and corrosion-free results.



CGW wheels are made from premium abrasive grains, top quality fiberglass reinforcements and top of the line fully automated equipment.

### Tips for Selecting the Right Wheel:

- **All CGW Thin Cut-Off Wheels cut steel and stainless steel.**
- Contaminate-Free wheels cut steel and stainless steels freely and contain  $\leq 0.1\%$  iron, sulfur, or chlorine.
- The finer the grit (60 grit), the thinner the wheel - for quick cutting action
- The larger the grit (36 grit), the thicker the wheel - for longer working life

All CGW Quickie Cut™ and ULTRA branded wheels are made to  standards (high-grade production and high safety test standards). See page 127 for more information.

# #1 CUTTING WHEEL CHOICE

## Quickie Cut™ Reinforced Cut-Off Wheels - Type 1

Description and Applications

- **ZA60-TB-Flex:** Flexible wheel design for fast cutting and easy work penetration.
- **ZA-36-T-Rigid:** Thicker (.045), rigid wheel design for fast cutting and longer life.



ZA60-TB-Flex



ZA36-T - Rigid



ZIRCONIA AO  
ALUMINUM OXIDE



Type 1

## **New** Quickie Cut™ EXTREME Reinforced Cut-Off Wheels - Type 1

Description and Applications

- **ZA60-T:** Higher percentage of patented, specially treated zirconia grain and premium fiberglass.
  - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.
  - Flexible and long life (highest G-ratio).

## SUPER Quickie Cut™ Reinforced Cut-Off Wheels - Type 1

Description and Applications

- **A60-T:** Maximum cutting speeds with minimal burrs.
  - Provides excellent finish with reduced vibration.
  - #1 wheel for steel applications.

### All CGW Cut-Off Wheels Cut Steel and Stainless Steel

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		QUICKIE-CUT EXTREME	SUPER QUICKIE-CUT	SUPER QUICKIE CARTON QTY.
			ZA60-TB-FLEX	ZA36-T-RIGID	ZA60-T <b>New</b>		
4 x .040 x 5/8	19,000	25	45014				
4 1/2 x .035 x 7/8	13,300	25	45010				
4 1/2 x .040 x 7/8	13,300	25				45102	50
4 1/2 x .045 x 7/8	13,300	25		35514	45224		
5 x .040 x 7/8	12,250	25	45011				
5 x .045 x 7/8	12,250	25		35516	45226	45105	50
6 x .040 x 3/8	10,200	25	45051				
6 x .040 x 1/2	10,200	25	45050				
6 x .040 x 5/8	10,200	25	45016				
6 x .040 x 7/8	10,200	25	45012				
6 x .045 x 7/8	10,200	25		35517	45227		
7 x 1/16 x 7/8	8,500	25	45013	35518			
9 x 1/16 x 5/8	6,600	25		45100			
						45106	50



# FOR METAL AND STEEL

## Quickie Cut™ Thin Reinforced Cut-Off Wheels - Type 27

Description and Applications

- **ZA:** Zirconia and Aluminum Oxide mixture. General purpose wheel. Zirconia grain allows for faster cutting and longer life. Excellent on Steel/Stainless.
- **A46N-ALU:** Aluminum Oxide mixture. Contains a non-loading bond. Good on Aluminum.



Type 27



## **New** Quickie Cut™ EXTREME Reinforced Cut-Off Wheels - Type 27

Description and Applications

- **ZA60-T:** Higher percentage of patented, specially treated zirconia grain and premium fiberglass.
  - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.

## SUPER Quickie Cut™ Reinforced Cut-Off Wheels - Type 27

Description and Applications

- High performance extra-thin wheels – Our thinnest in the market!
- Cuts Carbon and Stainless Steels – **Maximum cuts with one wheel.**
- #1 Wheel for steel applications.
- Maximum cutting speeds with minimal burrs.
- A60T Super Quickie-Cut
  - High performance wheels, maximum cuts with one wheel.
  - Maximum cutting speeds with minimal burrs.

### All CGW Cut-Off Wheels Cut Steel and Stainless Steel

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		QUICKIE-CUT EXTREME	SUPER QUICKIE-CUT	SUPER QUICKIE CARTON QTY.
			ZA60-S	A46N-ALU	ZA60-T <b>New</b>		
4 x .040 x 5/8	19,000	25	45001				
4 1/2 x .045 x 7/8	13,300	25	45002	45004	45225	45103	50
5 x .045 x 7/8	12,250	25	45005	70114			
6 x .045 x 7/8	10,200	25	45007	70115	45228	45098	50
7 x 1/16 x 7/8	8,500	25	45008				
9 x 1/16 x 7/8	6,600	25	45047				

# #1 CUTTING WHEEL CHOICE

## Quickie Cut™ Contaminate-Free Cut-Off Wheels - Type 1

Description and Applications

- Contaminate free wheels contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results.
- High quality grain mixture is more friable and cuts freely.
- WA: White Aluminum Oxide grain for stainless steel, food grade, and nuclear applications.



WA60-B-Flex



WA36-T - Rigid

WHITE AO

ALUMINUM OXIDE

**CF**  
CONTAMINATE-FREE  
Iron, Sulfur, and Chlorine ≤ 0.1%

Right Angle Grinder

OSA

Type 1

## New Quickie Cut™ EXTREME Contaminate-Free Reinforced Cut-Off Wheels - Type 1

Description and Applications

- **WA60-T:** Higher percentage of patented, specially treated zirconia grain and premium fiberglass.
  - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.

## Super Quickie Cut™ Contaminate-Free Reinforced Cut-Off Wheels - Type 1

Description and Applications

- High performance wheels, maximum cuts with one wheel.
- Maximum cutting speeds with minimal burr and smoother finish.

### Type 1 Reinforced Quickie-Cut™ Cut-Off Wheels

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		QUICKIE-CUT EXTREME	SUPER QUICKIE-CUT	SUPER QUICKIE CARTON QTY.
			WA60-TB-FLEX <span style="font-size: small;">New</span>	WA36-T-RIGID	WA60-T <span style="font-size: small;">New</span>		
4 1/2 x .035 x 7/8	13,300	25	36303		45229	45041	50
4 1/2 x .045 x 7/8	13,300	25		35515	45230	45042	50
5 x .040 x 7/8	12,250	25	36304				
5 x .045 x 7/8	12,250	25		36301	45231	45104	50
6 x .045 x 7/8	10,200	25		36302	45232	45080	50

# FOR STAINLESS STEEL

QUICKIE CUT™ CONTAMINATE-FREE CUT-OFF WHEELS

## Quickie Cut™ Contaminate-Free Cut-Off Wheels - Type 27

Description and Applications

- Contaminate free wheels contains  $\leq 0.1\%$  iron, sulfur, or chlorine for rust-free and corrosion-free results.
- High quality grain mixture is more friable and cuts freely.
- WA: White Aluminum Oxide grain for stainless steel, food grade, and nuclear applications.



Type 27

## New Quickie Cut™ EXTREME Contaminate-Free Reinforced Cut-Off Wheels - Type 27

Description and Applications

- **WA60-T:** Higher percentage of patented, specially treated zirconia grain and premium fiberglass.
  - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.

## Super Quickie Cut™ Contaminate-Free Reinforced Cut-Off Wheels - Type 27

Description and Applications

- High performance wheels, maximum cuts with one wheel.
- Maximum cutting speeds with minimal burr and smoother finish.

### Type 27 Reinforced Quickie-Cut™ Cut-Off Wheels

SIZE	RPM	CARTON QTY.	QUICKIE-CUT	QUICKIE-CUT EXTREME	SUPER QUICKIE-CUT	SUPER QUICKIE-CUT
			WA60-R	WA60-T <span style="font-size: small;">New</span>	A60-T	CARTON QTY.
4 1/2 x .045 x 7/8	13,300	25	45003	45233	45099	50
5 x .045 x 7/8	12,250	25	45006			
6 x .045 x 7/8	10,200	25	45017			
7 x 1/16 x 7/8	10,200	25	45009			

### Application Chart - All Quickie Cut™ Cut-Off Wheels

SPEC.	Angle Iron - General	Iron / Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Aluminum Alloys	Copper	Brass, Bronze	Titanium
ZA36T / A60T	✓	✓	✓	✓	✓	•	✓	✓				•	•	•	•
ZA60T / ZA60S	✓	✓	✓	✓	✓	•	✓	✓				•	•	•	•
A46N-ALU											•	✓	•	•	•
WA36-T - Contaminate-Free	•	•		•		•	✓	✓							
WA60T / WA60-R - Contaminate-Free	•	•	•	•		•	✓	✓							
ZA60S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ = Recommended  
• = May Be Used

FERROUS METALS      CASTINGS      NON-FERROUS METALS

# QUICKIE CUT™ CUT-OFF WHEELS

## Quickie Cut™ 3/32 (.094 / 2.5mm) Thin Reinforced Cut-Off Wheels T1 & T27

**Improved**



### Description and Applications

- WA: Aluminum Oxide – Metal & Stainless
  - 3/32" (.094) thickness for cutting/notching wheels.
- Externally reinforced with a unique bond for long wheel life and faster cutting action.

Type 1

### Type 1

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>45028</b>	4 1/2 x 3/32 x 7/8	WA36-S-BF	13,300	25
<b>45030</b>	5 x 3/32 x 7/8	WA36-S-BF	12,250	25
<b>45046</b>	6 x 3/32 x 7/8	WA36-S-BF	10,200	25
<b>45032</b>	7 x 3/32 x 7/8	WA36-S-BF	8,500	25

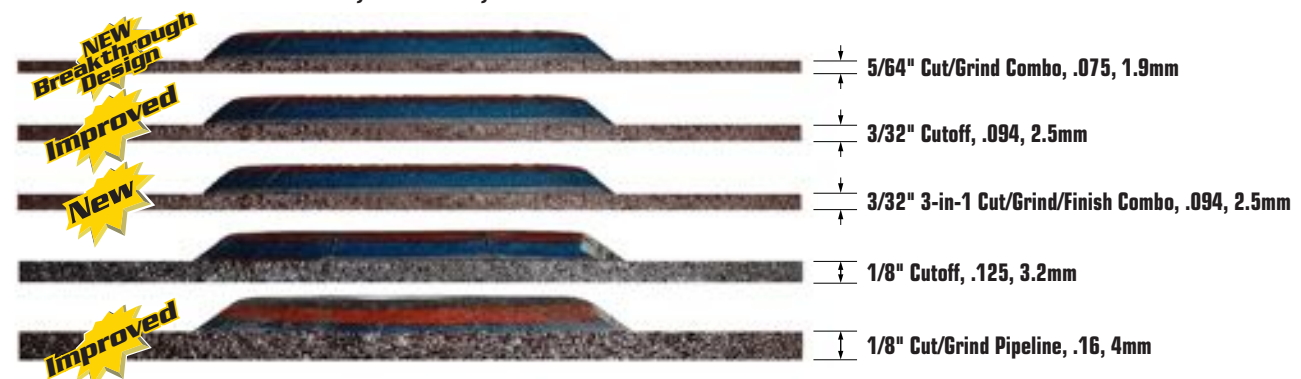
Type 27

### Type 27

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>45019</b>	4 x 3/32 x 5/8	WA36-S-BF	15,300	25
<b>45020</b>	4 1/2 x 3/32 x 7/8	WA36-S-BF	13,300	25
<b>45021</b>	4 1/2 x 3/32 x 5/8-11	WA36-S-BF	13,300	10
<b>45022</b>	5 x 3/32 x 7/8	WA36-S-BF	12,250	25
<b>45023</b>	5 x 3/32 x 5/8-11	WA36-S-BF	12,250	10
<b>45024</b>	6 x 3/32 x 7/8	WA36-S-BF	10,200	25
<b>45025</b>	6 x 3/32 x 5/8-11	WA36-S-BF	10,200	10
<b>45026</b>	7 x 3/32 x 7/8	WA36-S-BF	8,500	25
<b>45027</b>	7 x 3/32 x 5/8-11	WA36-S-BF	8,500	10
<b>New</b> <b>45113</b>	9 x 3/32 x 7/8	WA36-S-BF	6,600	25
<b>45114</b>	9 x 3/32 x 5/8-11	WA36-S-BF	6,600	10



### 1.9mm, 2.5mm, 3.2mm & 4mm Wheel Thickness Profile



THIN REINFORCED CUT-OFF WHEELS – TYPE 1 & 27

# NEW INNOVATION

## New 3-in-1 Wheels .094 Cut/Grind/Finish

Description and Applications

- High performance wheels made to cut quickly, grind easily and finish work surfaces with ONE wheel.
- Contaminate free wheel has  $\leq 0.1\%$  iron, sulfur, or chlorine for rust-free and corrosion-free results.
- Cost effective wheel eliminates frequent wheel changes and increases production times.
- Fiberglass net reinforcement provides added strength and flexibility.
- For stainless steel and steel.



ALUMINUM OXIDE



Type 27

### Type 27 Cut/Grind/Finish Wheels - High Performance

UPC#	SIZE	SPEC.	RPM	CARTON QTY
45218	4 1/2 x .094 (3/32) x 7/8	A36S	13,300	25
45219	4 1/2 x .094 (3/32) x 5/8-11	A36S	13,300	10
45220	5 x .094 (3/32) x 7/8	A36S	12,250	25
45221	5 x .094 (3/32) x 5/8-11	A36S	12,250	10
45222	6 x .094 (3/32) x 7/8	A36S	10,200	25
45223	6 x .094 (3/32) x 5/8-11	A36S	10,200	10

## New Super Quickie Cut .075 Cut/Grind Combo Wheels

View New Product Video at [www.cgwheels.com](http://www.cgwheels.com)

Description and Applications

- Extra thin high performance cut-off wheels – cut and grind with one wheel. Save production time and costs.
- Breakthrough .075 thin design for minimal cutting resistance for faster cutting action – cuts quicker than thicker pipeline wheels.
- Thin cutting wheels remove less material, have fewer sparks and minimal burrs.
- Three layers of fiberglass and high quality aluminum oxide grain for long working life.
- For stainless steel and steel.



ALUMINUM OXIDE



Type 27

### Type 27 Cut/Grind Combo Wheels - High Performance

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70094	4 1/2 x .075 (5/64) x 7/8	A46U	13,300	25
70095	4 1/2 x .075 (5/64) x 5/8-11	A46U	13,300	10
70096	5 x .075 (5/64) x 7/8	A46U	12,250	25
70097	5 x .075 (5/64) x 5/8-11	A46U	12,250	10

# 1/8" CUTTING/NOTCHING WHEELS

DEPRESSED CENTER WHEELS - TYPE 27

## Depressed Center Wheels 1/8" (.125 Thick; 3.2mm) Cutting & Notching Wheels

Description and Applications

### ULTRA

- Premium wheels made from superior raw materials and advanced technologies for longer working life.
- Ultra Wheels give consistent cutting action for quicker and easier working.
  - **A24R:** Aluminum oxide grain. R-grade bond for fast cutting and long life. Works well on steel, cast iron, and welds.
  - **WA24S:** White aluminum oxide grain with S-grade bond. *Contaminate Free* wheel for fast cutting of stainless steel, ferrous metals, food grade, and nuclear applications. Contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results.
  - **ZA24T:** Zirconia aluminum oxide grain mixture with T-grade bond. High performance design for fast cutting and longer life. Excellent cutting of ferrous metals and stainless steels.



**Improved**



- ALUMINUM OXIDE**
- WHITE AO**
- ZIRCONIA**



Type 27

- **A24Q Fast Cut:** Aluminum oxide grain. Q-grade bond for fast cutting. (Economical choice for metal, steel and general applications.)

## T27 Depressed Center Wheels 1/8" Cutting & Notching (.125 Thick; 3.2mm)

				ULTRA - New and Improved			
SIZE	RPM	CARTON QTY.	METAL/STAINLESS	STAINLESS/METAL	METAL	METAL	
			ZA24T	WA24S	A24R	FAST CUT A24Q	
3 x 1/8 x 3/8	19,100	25				45052	
4 x 1/8 x 3/8	15,300	25	45043*			35671	
4 x 1/8 x 5/8	15,300	25	45044*			35609	
4 1/2 x 1/8 x 7/8	13,300	25	35614	35616	35612	36219	
4 1/2 x 1/8 x 5/8-11	13,300	10	35615	35617	35613	36220	
5 x 1/8 x 7/8	12,250	25	<b>45210</b>	45037	35675	36221	
5 x 1/8 x 5/8-11	12,250	10	<b>45211</b>	45038	35676	36222	
6 x 1/8 x 7/8	10,200	25	<b>45212</b>	<b>36189</b>	35630	36223	
6 x 1/8 x 5/8-11	10,200	10	<b>45213</b>	<b>36190</b>	35631	36224	
7 x 1/8 x 7/8	8,600	25	<b>45214</b>	35638	35634	36225	
7 x 1/8 x 5/8-11	8,600	10	<b>45215</b>	35639	35635	36226	
9 x 1/8 x 7/8	6,650	25	<b>45216</b>	35652	35648	36227	
9 x 1/8 x 5/8-11	6,650	10	<b>45217</b>	35653	35649	36228	

New items are in **bold**  
\* While supplies last

### 1/8" Wheel Profile



1/8" Pipeline Cutoff, .16, 4mm

1/8" Cutoff, .125, 3.2mm

# 1/8" PIPELINE WHEELS

## Depressed Center Wheels 1/8" Pipeline Wheels (.16 Thick; 4mm)

Description and Applications

Pipeline wheels are engineered for cutting and light grinding, as well as, pipeline applications such as cutting and light grinding of pipeline root pass, or welds.

### ULTRA

- Premium wheels made from superior raw materials and advanced technologies for longer working life.
- Ultra Wheels give consistent cutting action for quicker and easier working.



Improved

**A24T:** Aluminum oxide grain with T-grade bond for fast cutting of ferrous metals.

Improved

**ZA24T:** Zirconia aluminum oxide grain mixture with T-grade bond. High performance design for fast cutting and longer life. Excellent cutting of ferrous metals and stainless steels.



ALUMINUM OXIDE

ZIRCONIA



Type 27

- **A24T Fast Cut:** Aluminum oxide single grain wheel. Designed for cutting and light grinding as well as pipeline applications such as cutting and light grinding of pipeline root pass, or weld and flame cut grinding. Economical choice.

## T27 Depressed Center Wheels 1/8" Pipeline - 25% Thicker (.16 Thick; 4mm)

SIZE	RPM	CARTON QTY.	ULTRA - New and Improved		
			METAL/STAINLESS	METAL	METAL
			ZA24T	A24T	FAST CUT A24T
4 x 1/8 x 5/8	15,300	25			45045
4 1/2 x 1/8 x 7/8	13,300	25	35667	35666	59100
4 1/2 x 1/8 x 5/8-11	13,300	10	35665	35664	59101
5 x 1/8 x 7/8	12,250	25	<b>45204</b>	45200	36244
5 x 1/8 x 5/8-11	12,250	10	<b>45205</b>	45201	36245
6 x 1/8 x 7/8	10,200	25	45203	<b>45206</b>	36246
6 x 1/8 x 5/8-11	10,200	10	45202	<b>45207</b>	36247
7 x 1/8 x 7/8	8,600	25	35681	35679	36229
7 x 1/8 x 5/8-11	8,600	10	35682	35680	36230
9 x 1/8 x 7/8	6,650	25	35683	35662	36248
9 x 1/8 x 5/8-11	6,650	10	37670	35663	36249

New items are in **bold**

## Application Chart - 1/8" Cutting/Notching and 1/8" Pipeline

SPEC.	Angle Iron - General	Iron / Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Grey Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass, Bronze	Titanium	Asphalt / Green Concrete	Concrete	Roof - Tiles	Slate	Masonry	Marble	Paving Bricks	Firing Bricks	Solid Bricks	Clay Pipe
A24R	✓	✓	•	✓	•	•	•	•	✓	✓	✓															
A24T	✓	✓	✓	✓	✓	•	✓	✓																		
C24R											•	•		✓	✓	✓	•	✓	✓	✓	✓	✓	✓	✓	✓	✓
WA24S	•	•	•			•	✓	✓																		
ZA24T	✓	✓	✓	✓		✓	✓	✓		✓	✓															

- ✓ = Recommended
- = May Be Used

FERROUS METALS

CASTINGS

NON-FERROUS METALS

MASONRY

# ULTRA 1/4" GRINDING WHEELS

## Depressed Center Wheels Type 27

### 1/4" Grinding Wheels

Description and Applications

#### ULTRA

- Premium wheels made from superior raw materials and advanced technologies for longer working life.
- Ultra Wheels give consistent grinding action for quicker and easier working.
- **ZA24T: Zirconia Aluminum Oxide Grain**
  - Zirconia grain is sharper, cuts faster, and lasts longer than aluminum oxide grain.
  - T-grade bond for fast cutting and longer life.
  - Recommended for steel, cast iron, and stainless steel.
- **WA24S: White Aluminum Oxide Grain - Stainless Steel**
  - Contaminate-Free design for fast cutting of stainless steel, ferrous metals, food grade, and nuclear applications.
  - Contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results.
  - S-grade bond.
- **A24N Aluminum Oxide Grain**
  - N-grade bond for fast stock removal.
  - For metal and stainless.
- **A24R: Aluminum Oxide Grain**
  - #1 selling 1/4" Depressed Center Grinding Wheel.
  - R-grade bond for longer life and excellent stock removal.



ZIRCONIA

WHITE AO

ALUMINUM OXIDE

Type 27

## T27 Depressed Center Wheels 1/4" for Grinding (.25 Thick; 6.4mm)

			ULTRA - New and Improved			
SIZE	RPM	CARTON QTY.	METAL/STAINLESS	STAINLESS/METAL	METAL	METAL
			ZA24T	WA24S	A24N	A24R
4 x 1/4 x 3/8	15,300	25	45036*			
4 x 1/4 x 5/8	15,300	25	35611*			
4 1/2 x 1/4 x 7/8	13,300	25	35624	35673	36400	35620
4 1/2 x 1/4 x 5/8-11	13,300	10	35625	35674	36401	35621
5 x 1/4 x 7/8	12,250	25	37535	37543	36402	35626
5 x 1/4 x 5/8-11	12,250	10	37530	37531	36403	35628
6 x 1/4 x 7/8	10,200	25	45039	45048	36404	35632
6 x 1/4 x 5/8-11	10,200	10	45040	45049	36405	35633
7 x 1/4 x 7/8	8,600	25	35644	35677	36406	35640
7 x 1/4 x 5/8-11	8,600	10	35645	35678	36407	35641
9 x 1/4 x 7/8	6,600	25	35658	45081	36408	35654
9 x 1/4 x 5/8-11	6,600	10	35659	45082	36409	35655

\* While supplies last



# FAST CUT 1/4" GRINDING WHEELS

## Fast Cut Depressed Center Wheels Type 27 & Type 28 1/4" Grinding Wheels

Description and Applications

- **A24N Fast Cut: Aluminum Oxide Grain**
  - Soft N-grade bond for fast stock removal.
  - Excellent ratio of stock removal/wheel loss.
  - Economical choice for metal and low-grade stainless.
- **A24R Fast Cut: Aluminum Oxide Grain**
  - Economical choice for fast metal grinding.
  - Premium Grain.
- **A24T Fast Cut: Aluminum Oxide Grain**
  - Hard T-grade bond for longer life.
  - Recommended for metal, edge grinding or when a harder a wheel is needed.



ALUMINUM OXIDE



Type 27

### T27 Depressed Center Wheels 1/4" for Grinding (.25 Thick; 6.4mm)

SIZE	RPM	CARTON QTY.	METAL	METAL	METAL
			FAST CUT A24N	FAST CUT A24R	FAST CUT A24T
3 x 1/4 x 3/8	18,000	25	45053		
4 x 1/4 x 3/8	15,300	25	35672		
4 x 1/4 x 5/8	15,300	25	35699	35610	
4 1/2 x 1/4 x 7/8	13,300	25	35622	36255	36102
4 1/2 x 1/4 x 5/8-11	13,300	10	35623	36256	36103
5 x 1/4 x 7/8	12,250	25	35627	36257	
5 x 1/4 x 5/8-11	12,250	10	35629	36258	
6 x 1/4 x 7/8	10,200	25	36231	36259	
6 x 1/4 x 5/8-11	10,200	10	36232	36260	
7 x 1/4 x 7/8	8,600	25	35642	36261	36104
7 x 1/4 x 5/8-11	8,600	10	35643	36262	36105
9 x 1/4 x 7/8	6,600	25	35656	36263	
9 x 1/4 x 5/8-11	6,600	10	35657	36264	

Type 28

### T28 Depressed Center Wheels 1/4" for Grinding

SIZE	RPM	CARTON QTY.	METAL
			FAST CUT A24R
7 x 1/4 x 7/8	8,600	25	35646
7 x 1/4 x 5/8-11	8,600	10	35647
9 x 1/4 x 7/8	6,600	25	35660
9 x 1/4 x 5/8-11	6,600	10	35661

### Hub Adaptor Kit

UPC#	SIZE/SPEC.	CARTON QTY
48228	CP-50 Adapter Kit	10

# FGF WHEELS



## FGF Wheels Flex, Grind, Finish

Description and Applications

- Waffle pattern on wheel face for cooler grinding and longer working life
- Engineered to absorb vibrations for reduced operator fatigue
- **Recommended for metal, steel, aluminum, stainless steel and non-ferrous metals**



WHITE AO



Type 27

### FGF-Special Wheels

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>36265</b>	4 1/2 x 1/8 x 7/8	WA46-Q-BF	13,300	25
<b>36266</b>	4 1/2 x 1/8 x 5/8-11	WA46-Q-BF	13,300	10
<b>36267</b>	5 x 1/8 x 7/8	WA46-Q-BF	12,250	25
<b>36268</b>	5 x 1/8 x 5/8-11	WA46-Q-BF	12,250	10
<b>36269</b>	7 x 1/8 x 7/8	WA46-S-BF	8,600	25
<b>36270</b>	7 x 1/8 x 5/8-11	WA46-S-BF	8,600	10



## FGF-Special Wheels Flex, Grind, Finish

Description and Applications

- Raised knob pattern on wheel face for exceptionally cool grinding and no material load up
- Engineered for easy grinding and blending on curved and straight work pieces without gouging
- **Recommended for metal, steel, aluminum, stainless steel, cast iron and non-ferrous metals.**
- No back-up pad required



ALUMINUM OXIDE



Type 29

### FGF-Special Wheels

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>36271</b>	4 1/2 x 1/8 x 7/8	A36-R-BF	13,300	25
<b>36272</b>	4 1/2 x 1/8 x 5/8-11	A36-R-BF	13,300	10
<b>36273</b>	4 1/2 x 1/8 x 7/8	A60-R-BF	13,300	25
<b>36274</b>	4 1/2 x 1/8 x 5/8-11	A60-R-BF	13,300	10
<b>36275</b>	5 x 1/8 x 7/8	A36-R-BF	12,250	25
<b>36276</b>	5 x 1/8 x 5/8-11	A36-R-BF	12,250	10
<b>36277</b>	5 x 1/8 x 7/8	A60-R-BF	12,250	25
<b>36278</b>	5 x 1/8 x 5/8-11	A60-R-BF	12,250	10
<b>36279</b>	7 x 1/8 x 7/8	A36-R-BF	8,600	25
<b>36280</b>	7 x 1/8 x 5/8-11	A36-R-BF	8,600	10
<b>36281</b>	7 x 1/8 x 7/8	A60-R-BF	8,600	25
<b>36282</b>	7 x 1/8 x 5/8-11	A60-R-BF	8,600	10

## Depressed Center Wheels - Type 27 & 28

### Description and Applications

#### ■ Premium A0 Grain - Aluminum

- A30N: • Type 27 grinding wheels for aluminum guaranteed to outperform competitor wheels.
- Soft N-grade bond for easy grinding of welding seams, sprues, and cast iron skin.
  - Recommended for aluminum, copper, zinc, and other soft materials.

#### ■ Fast Cut A0 Grain - Aluminum

- A30N: • Aluminum Oxide and Silicon Carbide grain mixture for easy grinding of soft metals.
- Recommended for non-ferrous metals.

#### ■ Fast Cut C24R: Silicon Carbide Grain - Concrete

- Silicon Carbide grain and R-grade bond for easy working on masonry, concrete, and stone.



Type 27

### T27 & T28 Depressed Center Wheels 1/4" for Grinding (.25 Thick; 6.4mm)

SIZE	RPM	CARTON QTY.	ALUMINUM	<b>New</b> ALUMINUM	CONCRETE/STONE	<b>New</b> CONCRETE/STONE
			T27 A30N	FAST CUT T27 A30N	FAST CUT T27 C24R	FAST CUT T28 C24R
4 x 1/4 x 5/8	15,300	25	36106	<b>70098</b>	37510	
4 1/2 x 1/4 x 7/8	13,300	25	36107	<b>70099</b>	37520	
4 1/2 x 1/4 x 5/8-11	13,300	10	36108	<b>70100</b>	37525	
5 x 1/4 x 7/8	8,600	25	36109	<b>70101</b>		
5 x 1/4 x 5/8-11	8,600	10	36110	<b>70102</b>		
7 x 1/4 x 7/8	8,600	25	36111	<b>70103</b>	37545	<b>35698</b>
7 x 1/4 x 5/8-11	8,600	10	36112	<b>70104</b>	37540	<b>36597</b>
9 x 1/4 x 7/8	6,600	25	36156		37555	<b>36289</b>
9 x 1/4 x 5/8-11	6,600	10	36157		37550	<b>36290</b>

\*New items are in bold

### T27 Depressed Center Wheels 1/8" for Cutting & Notching (.125 Thick; 3.2mm)

SIZE	RPM	CARTON QTY.	CONCRETE/STONE
			FAST CUT C24R
4 1/2 x 1/8 x 7/8	13,300	25	35618
4 1/2 x 1/8 x 5/8-11	13,300	10	35619
7 x 1/8 x 7/8	8,600	25	35636
7 x 1/8 x 5/8-11	8,600	10	35637
9 x 1/8 x 7/8	6,600	25	35650
9 x 1/8 x 5/8-11	6,600	10	35651

Type 1

**New** Wheel specifically designed for cutting tiles, ceramics and marble.

SIZE	RPM	CARTON QTY.	CONCRETE/STONE
			C24R
4 1/2 x 1/16 x 7/8	13,300	25	<b>45208</b>
6 x 1/16 x 7/8	10,200	25	<b>45209</b>

# DIE GRINDER CUT-OFF WHEELS

## High-Speed Reinforced Cut-Off Wheels - Type 1

A: Aluminum Oxide – Metal & Steel



### USA Made

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>35687</b>	1 1/2 x 1/32 x 1/4	A60-R-BF	45,000	50
<b>35688</b>	1 1/2 x 1/16 x 1/4	A60-R-BF	45,000	50
<b>35689</b>	2 x 1/32 x 3/8	A60-R-BF	30,000	50
<b>45066</b>	2 x 1/16 x 1/4	A60-R-BF	30,000	50
<b>35690</b>	2 x 1/16 x 3/8	A60-R-BF	30,000	50
<b>35691</b>	2 x 1/8 x 3/8	A24-R-BF	30,000	50
<b>35500</b>	3 x 1/32 x 1/4	A60-R-BF	23,900	50
<b>35501</b>	3 x 1/32 x 3/8	A60-R-BF	23,900	50
<b>35502</b>	3 x 1/16 x 1/4	A36-R-BF	23,900	50
<b>35503</b>	3 x 1/16 x 3/8	A36-R-BF	23,900	50
<b>45085</b>	3 x 1/16 x 1/4	A60-R-BF	23,900	50
<b>45086</b>	3 x 1/16 x 3/8	A60-R-BF	23,900	50
<b>35504</b>	3 x 1/8 x 1/4	A24-R-BF	23,900	25
<b>35505</b>	3 x 1/8 x 3/8	A24-R-BF	23,900	25
<b>35506</b>	4 x 1/32 x 1/4	A60-R-BF	22,000	50
<b>35507</b>	4 x 1/32 x 3/8	A60-R-BF	22,000	50
<b>35508</b>	4 x 1/16 x 1/4	A36-R-BF	22,000	50
<b>35509</b>	4 x 1/16 x 3/8	A36-R-BF	22,000	50
<b>45087</b>	4 x 1/16 x 3/8	A60-R-BF	22,000	50
<b>45088</b>	4 x 1/16 x 1/4	A60-R-BF	22,000	50
<b>35510</b>	4 x 1/16 x 5/8	A36-R-BF	22,000	50
<b>35511</b>	4 x 1/8 x 1/4	A24-R-BF	22,000	25
<b>35512</b>	4 x 1/8 x 3/8	A24-R-BF	22,000	25

## Cut-Off Wheel Mandrel Adaptor



### Cut-Off Wheel Mandrel Adaptor

UPC#	SIZE/SPEC.	CARTON QTY
<b>48227</b>	1/4"-3/8" Mandrel Adaptor	1
<b>48245</b>	3/8"-24 Mandrel Adaptor	1

## Zirconia Premium Cut-Off Wheels - Type 1

ZA: Zirconia Aluminum Oxide – Metal, steel and stainless. Longer lasting life and easy cutting action.



**ZIRCONIA AO**   

### Zirconia - USA Made

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>36175</b>	3 x 1/32 x 1/4	ZA60-T-BF	23,900	50
<b>36176</b>	3 x 1/32 x 3/8	ZA60-T-BF	23,900	50
<b>36173</b>	3 x 1/16 x 1/4	ZA36-T-BF	23,900	50
<b>36174</b>	3 x 1/16 x 3/8	ZA36-T-BF	23,900	50
<b>36179</b>	4 x 1/32 x 1/4	ZA60-T-BF	19,100	50
<b>36180</b>	4 x 1/32 x 3/8	ZA60-T-BF	19,100	50
<b>36177</b>	4 x 1/16 x 1/4	ZA36-T-BF	19,100	50
<b>36178</b>	4 x 1/16 x 3/8	ZA36-T-BF	19,100	50

## Fast Cut Cut-Off Wheels - Type 1

A: Aluminum Oxide Grain – Economical choice for metal, steel and general applications.



**ALUMINUM OXIDE**  

### Fast Cut

	UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>New</b>	<b>59111</b>	2 x 1/32 x 3/8	A60-R-BF	30,000	50
<b>New</b>	<b>59112</b>	2 x 1/16 x 3/8	A60-R-BF	30,000	50
<b>New</b>	<b>59113</b>	2 x 1/8 x 3/8	A24-R-BF	30,000	50
	<b>59102</b>	3 x 1/32 x 1/4	A60-R-BF	23,900	50
	<b>59103</b>	3 x 1/32 x 3/8	A60-R-BF	23,900	50
	<b>59104</b>	3 x 1/16 x 1/4	A36-R-BF	23,900	50
	<b>59105</b>	3 x 1/16 x 3/8	A36-R-BF	23,900	50
<b>New</b>	<b>59114</b>	3 x 1/8 x 3/8	A24-R-BF	23,900	25
	<b>59106</b>	4 x 1/32 x 1/4	A60-R-BF	19,100	50
	<b>59107</b>	4 x 1/32 x 3/8	A60-R-BF	19,100	50
	<b>59108</b>	4 x 1/16 x 3/8	A36-R-BF	19,100	50
<b>New</b>	<b>59115</b>	4 x 1/16 x 5/8	A36-R-BF	19,100	50
<b>New</b>	<b>59116</b>	4 x 1/8 x 3/8	A24-R-BF	19,100	25

# CIRCULAR SAW WHEELS

## 7" Circular Saw Cut-Off Wheels - Type 1

Description and Applications

- A: Aluminum Oxide – Metal & Steel
- C: Silicon Carbide – Stone/Concrete
- .045 wheels extra thin for faster cutting with less resistance.



UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>37573</b>	7 x .045 x 5/8	A60-S-BF	8,600	25
<b>37574</b>	7 x .045 x 5/8	C30-R-BF	8,600	25
<b>35573</b>	7 x 3/32 x 5/8-◆	A24-R-BF	8,600	25
<b>35574</b>	7 x 3/32 x 5/8-◆	C24-R-BF	8,600	25

### Fast Cut

- Economical choice for metal, steel and general applications.

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>59109</b>	7 x 3/32 x 5/8-◆	A24-R-BF	8,600	25
<b>59110</b>	7 x 3/32 x 5/8-◆	C24-R-BF	8,600	25

## 10"-20" Stationary Saw Cut-Off Wheels - Type 1



### Fast Cut Stationary Saw Wheels

- Economical choice for metal, steel and general applications.

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>70111</b>	10 x 1/8 x 5/8	A24-R-BF	6,110	10
<b>70105</b>	12 x 1/8 x 1	A24-R-BF	5,100	10
<b>36233</b>	14 x 1/8 x 1	A24-Q-BF	4,400	10
<b>70106</b>	16 x 5/32 x 1	A24-R-BF	3,820	10
<b>70107</b>	18 x 5/32 x 1	A24-R-BF	3,400	10
<b>70108</b>	20 x 5/32 x 1	A24-R-BF	3,100	10
<b>70109</b>	20 x 3/16 x 1	A24-R-BF	3,100	10

# STATIONARY SAW WHEELS

## 10"-20" Stationary Saw Cut-Off Wheels - Type 1

### Description and Applications

Stationary saw cut-off wheels cut structural steel, bar stock, tubing and non-ferrous metals.

- A: Aluminum Oxide – Metal & Steel
- C: Silicon Carbide – Stone/Concrete
- WA: White Aluminum Oxide – Excellent on stainless steel, and ferrous metals
- ZA: Zirconia Aluminum Oxide – Metal, Steel & Stainless



Type 1

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>35577</b>	10 x 1/16 x 5/8	A24-R-BF	6,110	10
<b>35579</b>	10 x 1/8 x 5/8	A24-R-BF	6,110	10
<b>35580</b>	10 x 1/8 x 1	A24-R-BF	6,110	10
<b>*45071</b>	12 x 1/16 x 1	A46-T-BF	5,100	10
<b>*45072</b>	12 x 1/16 x 1 1/4	A46-T-BF	5,100	10
<b>35581</b>	12 x 1/8 x 1	A24-R-BF	5,100	10
<b>35582</b>	14 x 1/8 x 1	A24-R-BF	4,400	10
<b>37671</b>	14 x 1/8 x 1	C24-R-BF	4,400	10
<b>45089</b>	14 x 1/8 x 1	WA24-S-BF	4,400	10
<b>35584</b>	16 x 5/32 x 1	A24-R-BF	3,820	10
<b>*37673</b>	16 x 5/32 x 1	A24-T-BF	3,820	10
<b>*35585</b>	18 x 5/32 x 1	A24-R-BF	3,400	10
<b>New 35851</b>	20 x 7/32 x 1	A30R-B-BF	3,100	10

\*While supplies last.  
#35585 recommended substitute is #70107 (page 86)

## Application Chart - Stationary Saw Cut-Off Wheels

SPEC.	Angle Iron – General Iron / Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass, Bronze	Titanium	Asphalt / Green Concrete	Concrete	Roof – Tiles	Slate	Masonry	Marble	Paving Bricks	Firing Bricks	Solid Bricks	Clay Pipe
A24R	✓	✓	•	✓	•	•	•	•	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
C24R	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ZA24R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	•	•	•	•	•	•	•	•	•	•

✓ = Recommended

• = May Be Used

**FERROUS METALS**

**CASTINGS**

**NON-FERROUS METALS**

**MASONRY**

# CHOP SAW WHEELS

## 12"-16" Chop Saw Wheels - Type 1

### Description and Applications

- A: Aluminum Oxide – Metal & Steel. 14" available in single and double fiberglass reinforced.
- *Fast Cut*: Economical choice for metal, steel and general applications.
- ALU: Aluminum Oxide – Special non-loading formulation for cutting aluminum.
- WA: White Aluminum Oxide – Excellent on stainless steel, ferrous metals.
- ZA: Zirconia Aluminum Oxide – Metal & Stainless; High performance cutting, recommended on thicker stock applications such as angle iron, angle bars.



Type 1

## 10-16" Double Reinforced - General Purpose

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>35578</b>	10 x 3/32 x 5/8	A24-R-BF	6,110	10
<b>35575</b>	12 x 3/32 x 1	A36-P-BF	5,100	10
<b>35576</b>	14 x 3/32 x 1	A36-P-BF	4,400	10
<b>36133</b>	16 x 3/32 x 1	A36-P-BF	3,820	10

## 14" Single & Double Reinforced - General Purpose - *Fast Cut*

New  
New  
New

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>70110</b>	10 x 3/32 x 5/8	A24-R-BF	6,110	10
<b>70112</b>	12 x 3/32 x 1	A36-P-BF <b>DR</b>	5,100	10
<b>70113</b>	14 x 3/32 x 1	A30-P-BF <b>SR</b>	4,400	10
<b>36234</b>	14 x 7/64 x 1	A36-S-BF	4,400	10

## 14" Single Reinforced - General Purpose

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>35670</b>	14 x 3/32 x 1	A30-P-BF	4,400	10

## 14" Double Reinforced - Aluminum

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>36122</b>	14 x 3/32 x 1	A30-N-BF	4,400	10



## 5-Pack Merchandiser

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>35686</b>	14 x 3/32 x 1	A30P <b>SR</b>	4,400	10
<b>35685</b>	14 x 3/32 x 1	A36P <b>DR</b>	4,400	10

\*SR=Single or internal reinforced chop saw blade  
\*\*DR=Double reinforced chop saw blade



# 14" Chop Saw Wheels - Type 1

## Description and Applications

- A: Aluminum Oxide – Metal & Steel.
- WA: White Aluminum Oxide – Excellent on stainless steel, ferrous metals.
- ZA: Zirconia Aluminum Oxide – Metal & Stainless; High performance cutting, recommended on thicker stock applications such as angle iron, angle bars.



Type 1

## 14" Double Reinforced - Angle Iron/Heavy Bars

- Zirconia grain, excellent on all ferrous metal applications, especially thicker stock
- **Our #1 performing chop saw cut-off wheel.**

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>36125</b>	14 x 3/32 x 1	ZA24-S-BF	4,400	10

## 14" Double Reinforced - MR Stud

- Designed for drywall stud, aluminum shelving, thin metal

UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>36124</b>	14 x 3/32 x 1	A30-R-BF	4,400	10

## 14" Single Reinforced - Stainless

- Designed for stainless steel applications
- Contamination Free, Fe+S+Cl≤0.1%
- No iron, sulfur or chlorine



UPC#	SIZE	SPEC.	RPM	CARTON QTY
<b>36123</b>	14 x 3/32 x 1	WA36-P-BF	4,400	10

## Application Chart - Chop Saw Wheels

SPEC.	Angle Iron - General Iron / Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass, Bronze	Titanium
A36P / A302P*	✓	✓	•	•	✓	•	•	•	•	•	•	•	•	•	•
A30R-Mr Stud				✓											
A30N-ALU										•		✓	•	•	•
WA36P					✓	✓	✓								
ZA24S	✓	✓	✓	✓	✓	✓	✓	✓	•	•	•				

\*A302 is single reinforced (SR). The SR blades have a lower G-ratio but higher cutting rate compared to the double reinforced.

- ✓ = Recommended
- = May Be Used

### FERROUS METALS

### CASTINGS

### NON-FERROUS METALS

# HIGH SPEED CUT-OFF WHEELS

## 12"-16" High Speed Cut-Off Wheels - Type 1

### Description and Applications

- A24R: Aluminum Oxide – Metal & Steel, Stainless. General purpose. 14" are available in both double and triple reinforced.
- A24T: Aluminum Oxide – Metal Decking & Cable. Harder bond for more cuts on thinner metals. 14" are triple reinforced.
- AC: (Mix of A/C) – Used on Ductile Iron. 14" are available in both double and triple reinforced.
- C16: Silicon Carbide – Asphalt/Green Concrete
- C24: Silicon Carbide – Stone/Concrete



Type 1



- **EB – Electronically Balanced.** All 12-14" wheels are automatically balanced during manufacturing. All 12-14" wheels are guaranteed to be less than 3 and 3.5 grams out of balance. CGW wheels are safer, cause less vibration and are more consistent.



- CGW uses heavy duty fiberglass reinforcement, so our 12-14" high speed wheels meet speed specifications for all machines on the market.
- Premium 14" A24R, A24T, AC & 16" wheels are **triple reinforced (TR)** to provide extra safety.
- 12 & 14" wheels can be used with both gas and electric high speed machines.
- 12 & 14" wheels sold in (2) 10 piece retail packs and are master packed (contains 20 pieces).

## 12-16" A24-R, Metal, Steel, Stainless General Purpose

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35587	12 x 5/32 x 20mm	A24-R-BF	6,400	10	20
35589	12 x 5/32 x 1	A24-R-BF	6,400	10	20
36158	14 x 5/32 x 20mm	A24-R-BF	5,500	10	20
36159	14 x 5/32 x 1	A24-R-BF	5,500	10	20
35599	14 x 5/32 x 20mm	A24-R-BF <b>TR</b>	5,500	10	20
35600	14 x 5/32 x 1	A24-R-BF <b>TR</b>	5,500	10	20
36142	16 x 5/32 x 20mm	A24-R-BF <b>TR</b>	4,800	10	20
36143	16 x 5/32 x 1	A24-R-BF <b>TR</b>	4,800	10	20

## 12-14" A24-T, Metal Decking & Cable, Thinner Metals

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
36114	12 x 5/32 x 20mm	A24-T-BF	6,400	10	20
36115	12 x 5/32 x 1	A24-T-BF	6,400	10	20
36113	14 x 5/32 x 20mm	A24-T-BF <b>TR</b>	5,500	10	20
36126	14 x 5/32 x 1	A24-T-BF <b>TR</b>	5,500	10	20

TR=Triple Reinforced

# 12"-16" High Speed Cut-Off Wheels - Type 1

Description and Applications

- AC: (Mix of A/C) – Used on Ductile Iron. 14" are available in both double and triple reinforced.
- C16: Silicon Carbide – Asphalt/Green Concrete
- C24: Silicon Carbide – Stone/Concrete



- **EB – Electronically Balanced.** All 12-14" wheels are automatically balanced during manufacturing. All 12-14" wheels are guaranteed to be less than 3 and 3.5 grams out of balance. CGW wheels are safer, cause less vibration and are more consistent.



- Premium 14" A24R, A24T, AC & 16" wheels are **triple reinforced (TR)** to provide extra safety.



Type 1

12-16" wheels for metal and masonry cutting applications.

## 12-16" AC24-R, Ductile Iron

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35590	12 x 5/32 x 20mm	AC24-R-BF	6,400	10	20
35592	12 x 5/32 x 1	AC24-R-BF	6,400	10	20
36160	14 x 5/32 x 20mm	AC24-R-BF	5,500	10	20
36161	14 x 5/32 x 1	AC24-R-BF	5,500	10	20
35601	14 x 5/32 x 20mm	AC24-R-BF <b>TR</b>	5,500	10	20
35602	14 x 5/32 x 1	AC24-R-BF <b>TR</b>	5,500	10	20
36144	16 x 5/32 x 20mm	AC24-R-BF <b>TR</b>	4,800	10	20
36145	16 x 5/32 x 1	AC24-R-BF <b>TR</b>	4,800	10	20

## 12-16" C24-R, Stone/Concrete

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35596	12 x 5/32 x 20mm	C24-R-BF	6,400	10	20
35598	12 x 5/32 x 1	C24-R-BF	6,400	10	20
35605	14 x 5/32 x 20mm	C24-R-BF	5,500	10	20
35606	14 x 5/32 x 1	C24-R-BF	5,500	10	20
36116	14 x 5/32 x 20mm	C24-R-BF <b>TR</b>	4,400	10	20
36117	14 x 5/32 x 1	C24-R-BF <b>TR</b>	4,400	10	20
36146	16 x 5/32 x 20mm	C24-R-BF <b>TR</b>	4,800	10	20
36147	16 x 5/32 x 1	C24-R-BF <b>TR</b>	4,800	10	20



## 12-14" C16-U, Asphalt/Green Concrete

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35593	12 x 5/32 x 20mm	C16-U-BF	6,400	10	20
35595	12 x 5/32 x 1	C16-U-BF	6,400	10	20
35603	14 x 5/32 x 20mm	C16-U-BF	5,500	10	20
35604	14 x 5/32 x 1	C16-U-BF	5,500	10	20

**New** **FAST CUT 12-14" Type 1 High Speed Cut-Off Wheels**

Description and Applications

- A24R: Aluminum oxide – Metal & Steel, Stainless. General purpose. 14" is triple reinforced.
- Economical choice for standard cutting applications.



**ALUMINUM OXIDE**



Type 1

**12-16" FAST CUT Type 1 High Speed Cut-Off Wheels**

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	CARTON QTY
<b>70220</b>	12 x 5/32 x 20MM	A24-R-BF	6,400	10	20
<b>70221</b>	12 x 5/32 x 1	A24-R-BF	6,400	10	20
<b>70224</b>	14 x 5/32 x 20MM	A24-R-BF TR	5,500	10	20
<b>70225</b>	14 x 5/32 x 1	A24-R-BF TR	5,500	10	20

**New** **14-16" Rail Track Cutter**

Description and Applications

- Premium mix of zirconia and aluminum oxide to maximize number of cuts while cutting quickly and not burning the work piece.



**ZIRCONIA**

Type 1

**14-16" Rail Track Cutter**

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	CARTON QTY
<b>36162</b>	14 x 1/8 x 7/8	ZA24-R-BF	5,500	10	20
<b>36163</b>	16 x 1/8 x 7/8	ZA24-R-BF	4,800	10	20

**14" Walk Behind Saw Wheels with Pinhole**

Description and Applications

- C16: Silicon Carbide – Asphalt/Green Concrete
- C24: Silicon Carbide – Stone/Concrete



**SILICON CARBIDE**



Type 1

14" wheels for Walk Behind Saws - Asphalt/concrete

**14" Walk Behind Saw Wheels with Pinhole**

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
<b>35608</b>	14 x 3/16 x 1 + PH	C16-U-BF	5,500	10	20
<b>37672</b>	14 x 3/16 x 1 + PH	C24-R-BF	5,500	10	20

## Resin Cup Wheels, Cones & Plugs



### Cones & Plugs

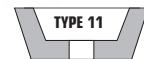
- A: Aluminum Oxide Grain; Used for grinding and finishing metals in hard to reach areas.

### Cones

UPC#	SIZE	SPEC.	CARTON	UNIT
<b>Type 16:</b>				
49016	1 1/2 x 2 1/2 x 3/8-24	A16R	10	20
49017	1 1/2 x 2 1/2 x 5/8-11	A16R	10	20
49018	1 1/2 x 3 x 3/8-24	A16R	10	20
49019	1 1/2 x 3 x 5/8-11	A16R	10	20
36238	2 x 3 x 5/8-11	A24R	10	20
49021	2 x 3 x 5/8-11	A16R	10	20
49022	2 3/4 x 3 1/2 x 5/8-11	A16R	10	20
49023	3 x 3 x 5/8-11	A16R	10	20
<b>Type 17:</b>				
49024	1 1/2 x 2 1/2 x 3/8-24	A16R	10	20
49026	1 1/2 x 3 x 3/8-24	A16R	10	20
49027	1 1/2 x 3 x 5/8-11	A16R	10	20
49028	2 x 3 x 5/8-11	A16R	10	20
49029	2 1/2 x 3 x 5/8-11	A16R	10	20

### Plugs

UPC#	SIZE	SPEC.	CARTON	UNIT
<b>Type 18:</b>				
49030	1 1/2 x 2 1/2 x 3/8-24	A16R	10	20
49031	1 1/2 x 2 1/2 x 5/8-11	A16R	10	20
49032	1 1/2 x 3 x 3/8-24	A16R	10	20
49033	1 1/2 x 3 x 5/8-11	A16R	10	20
36239	2 x 3 x 5/8-11	A24R	10	20
49035	2 x 3 x 5/8-11	A16R	10	20
49036	2 x 3 1/2 x 5/8-11	A16R	10	20
<b>Type 18R:</b>				
49037	1 1/2 x 2 1/2 x 3/8-24	A16R	10	20
49038	1 1/2 x 2 1/2 x 5/8-11	A16R	10	20
49039	1 1/2 x 3 x 3/8-24	A16R	10	20
49040	1 1/2 x 3 x 5/8-11	A16R	10	20
36240	2 x 3 x 5/8-11	A24R	10	20
49042	2 x 3 x 5/8-11	A16R	10	20
49043	3 x 3 x 5/8-11	A16R	10	20



### Cups

- A: Aluminum Oxide; For tough steel, ferrous metal applications
- CA: Aluminum Oxide/Silicon Carbide Mix; Excellent for castings, cast iron, aluminum
- C: Ideal for grinding and cleaning concrete, masonry and stone

### 4/3 x 2 x 5/8-11 9,070 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>No Steel Back:</b>			
49000	A16-Q6-B	1	10
49002	C16-N-B	1	10
49003	CA16-N-B	1	10
<b>With Steel Back:</b>			
49001	A16-Q6-B	1	10

### 5/4 x 2 x 5/8-11 7,260 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>No Steel Back:</b>			
49004	A16-Q6-B	1	10
49005	A24-Q6-B	1	10
49006	C16-N-B	1	10
49007	CA16-N-B	1	10

### 6/4-3/4 x 2 x 5/8-11 6,048 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>No Steel Back:</b>			
35900	A16-Q6-B	5	10
49008	A16-Q6-B	1	10
49010	A24-Q6-B	5	10
49011	A24-Q6-B	1	10
35901	C16-N-B	1	10
49014	CA16-QB-B	1	10
<b>With Steel Back:</b>			
49009	A16-Q6-B	1	10
49012	A24-Q6-B	1	10
49013	C16-N-B	1	10
49015	CA16-Q6-B	1	10

\*35900 and 49010 are packed 5 to a box. All other items are individually packed.

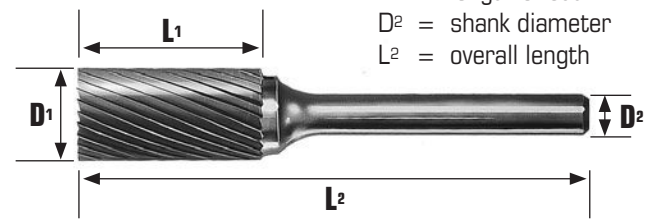
**New Carbide Burs**

Description and Applications

- CGW carbide burs are made on premium CNC machines for precision, uniform burs.
- Single Cut:** General purpose cut made for steel, cast iron and other ferrous materials. Single cut burs provide good material removal and work piece finishes.
- Double Cut:** Designed to produce smaller chips for faster cutting action, minimal loading and improved operator control. For stainless steel and ferrous materials.
- Aluminum Cut:** Wide flute design ensures quick, easy stock removal with minimal loading. For non-ferrous and other soft materials.



D<sup>1</sup> = head diameter  
 L<sup>1</sup> = length of cut  
 D<sup>2</sup> = shank diameter  
 L<sup>2</sup> = overall length

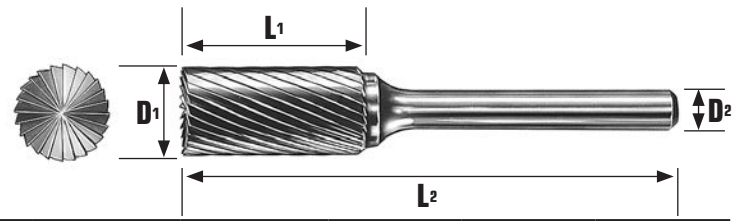


**SA - Cylinder Shape**

- Application: Deburring
- No cut on end

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SA-41	1/16"	1/4"	1/8"	1-1/2"	1	62001	62301	
SA-42	3/32"	7/16"	1/8"	1-1/2"	1	62005	62305	
SA-43	1/8"	9/16"	1/8"	1-1/2"	1	62008	62308	
SA-51	1/4"	1/2"	1/8"	2"	1	62018	62318	
SA-1	1/4"	5/8"	1/4"	2"	1	62019	62319	
SA-3	3/8"	3/4"	1/4"	2-1/2"	1	62023	62323	
SA-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62604
SA-5	1/2"	1"	1/4"	2-3/4"	1	62028	62328	
SA-5NF	1/2"	1"	1/4"	2-3/4"	1			62608
SA-6	5/8"	1"	1/4"	2-3/4"	1	62030	62330	
SA-7	3/4"	1"	1/4"	2-3/4"	1	62033	62333	
<b>Long Shank</b>								
SA-1L6	1/4"	1/2"	1/4"	6-1/2"	1	62021	62321	
SA-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62025	62325	
SA-5L6	1/2"	1"	1/4"	7"	1	62029	62329	

Items with a UPC number are stocked items.



**SB - Cylinder Shape**

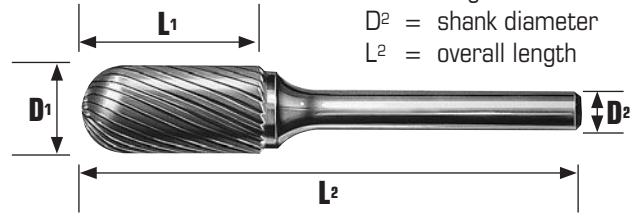
- Applications: Face & Peripheral Milling
- With end cut

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SB-41	1/16"	1/4"	1/8"	1-1/2"	1	62036	62336	
SB-42	3/32"	7/16"	1/8"	1-1/2"	1	62039	62339	
SB-51	1/4"	3/16"	1/8"	1-11/16"	1	62049	62349	
SB-1	1/4"	5/8"	1/4"	2"	1	62050	62350	
SB-3	3/8"	3/4"	1/4"	2-1/2"	1	62053	62353	
SB-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62613
SB-5	1/2"	1"	1/4"	2-3/4"	1	62057	62357	
SB-5NF	1/2"	1"	1/4"	2-3/4"	1			62614

Items with a UPC number are stocked items.



D<sup>1</sup> = head diameter  
 L<sup>1</sup> = length of cut  
 D<sup>2</sup> = shank diameter  
 L<sup>2</sup> = overall length

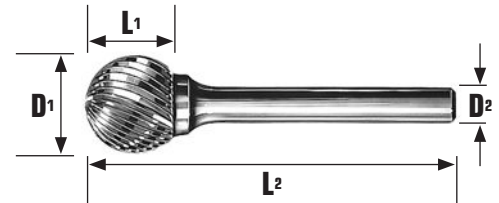


### SC - Cylinder Shape

- Applications: Surface Milling, Contouring
- Ball nose/radius end

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SC-41	<b>3/32"</b>	7/16"	1/8"	1-1/2"	1	<b>62065</b>	<b>62365</b>	
SC-42	<b>1/8"</b>	9/16"	1/8"	1-1/2"	1	<b>62066</b>	<b>62366</b>	
SC-51	<b>1/4"</b>	1/2"	1/8"	2"	1	<b>62076</b>	<b>62376</b>	
SC-1	<b>1/4"</b>	5/8"	1/4"	2"	1	<b>62077</b>	<b>62377</b>	
SC-3	<b>3/8"</b>	3/4"	1/4"	2-1/2"	1	<b>62081</b>	<b>62381</b>	
SC-3NF	<b>3/8"</b>	3/4"	1/4"	2-1/2"	1			<b>62621</b>
SC-5	<b>1/2"</b>	1"	1/4"	2-3/4"	1	<b>62086</b>	<b>62386</b>	
SC-5NF	<b>1/2"</b>	1"	1/4"	2-3/4"	1			<b>62625</b>
SC-6	<b>5/8"</b>	1"	1/4"	2-3/4"	1	<b>62088</b>	<b>62388</b>	
SC-7	<b>3/4"</b>	1"	1/4"	2-3/4"	1	<b>62091</b>	<b>62391</b>	
<b>Long Shank</b>								
SC-1L6	<b>1/4"</b>	1/2"	1/4"	6-1/2"	1	<b>62079</b>	<b>62379</b>	
SC-3L6	<b>3/8"</b>	3/4"	1/4"	6-3/4"	1	<b>62083</b>	<b>62383</b>	
SC-5L6	<b>1/2"</b>	1"	1/4"	7"	1	<b>62087</b>	<b>62387</b>	

Items with a UPC number are stocked items.



### SD - Ball Shape

- Applications: Deburring, Contouring, Build-up Welding Preparation

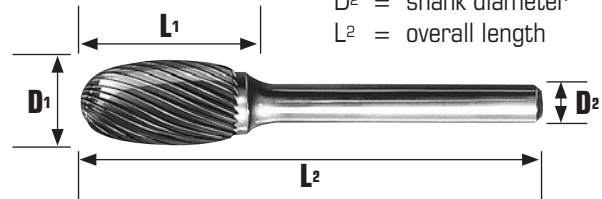
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SD-41	<b>3/32"</b>	3/32"	1/8"	1-1/2"	1	<b>62094</b>	<b>62394</b>	
SD-42	<b>1/8"</b>	1/8"	1/8"	1-1/2"	1	<b>62095</b>	<b>62395</b>	
SD-51	<b>1/4"</b>	7/32"	1/8"	1-11/16"	1	<b>62103</b>	<b>62403</b>	
SD-1	<b>1/4"</b>	7/32"	1/4"	2"	1	<b>62104</b>	<b>62404</b>	
SD-3	<b>3/8"</b>	5/16"	1/4"	2-5/64"	1	<b>62107</b>	<b>62407</b>	
SD-3NF	<b>3/8"</b>	5/16"	1/4"	2-5/64"	1			<b>62630</b>
SD-5	<b>1/2"</b>	7/16"	1/4"	2-13/64"	1	<b>62110</b>	<b>62410</b>	
SD-5NF	<b>1/2"</b>	7/16"	1/4"	2-13/64"	1			<b>62634</b>
SD-6	<b>5/8"</b>	9/16"	1/4"	2-5/16"	1	<b>62112</b>	<b>62412</b>	
SD-7	<b>3/4"</b>	11/16"	1/4"	2-7/16"	1	<b>62113</b>	<b>62413</b>	
<b>Long Shank</b>								
SD-3L6	<b>3/8"</b>	3/8"	1/4"	6-3/8"	1	<b>62108</b>	<b>62408</b>	
SD-5L6	<b>1/2"</b>	1/2"	1/4"	6-1/2"	1	<b>62111</b>	<b>62411</b>	

Items with a UPC number are stocked items.

USA MADE CARBIDE BURS



D<sup>1</sup> = head diameter  
 L<sup>1</sup> = length of cut  
 D<sup>2</sup> = shank diameter  
 L<sup>2</sup> = overall length



### SE - Oval/Egg Shape

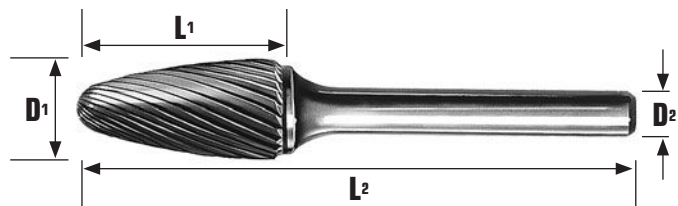
• Application: Contouring

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SE-41	1/8"	7/32"	1/8"	1-1/2"	1	62116	62416	
SE-51	1/4"	3/8"	1/8"	1-7/8"	1	62122	62422	
SE-1	1/4"	3/8"	1/4"	2"	1	62123	62423	
SE-3	3/8"	5/8"	1/4"	2-3/8"	1	62125	62425	
SE-3NF	3/8"	5/8"	1/4"	2-3/8"	1			62642
SE-5	1/2"	7/8"	1/4"	2-5/8"	1	62127	62427	
SE-5NF	1/2"	7/8"	1/4"	2-5/8"	1			62646
SE-6	5/8"	1"	1/4"	2-3/4"	1	62129	62429	
SE-7	3/4"	1"	1/4"	2-3/4"	1	62130	62430	

#### Long Shank

SE-1L6	1/4"	3/8"	1/4"	6-3/8"	1	62124	62424	
SE-3L6	3/8"	5/8"	1/4"	6-5/8"	1	62126	62426	
SE-5L6	1/2"	7/8"	1/4"	6-7/8"	1	62128	62428	

Items with a UPC number are stocked items.



### SF - Rounded Tree Shape

• Application: Contouring

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SF-41	1/8"	1/4"	1/8"	1-1/2"	1	62132	62432	
SF-51	1/4"	1/2"	1/8"	2"	1	62139	62439	
SF-1	1/4"	5/8"	1/4"	2"	1	62140	62440	
SF-3	3/8"	3/4"	1/4"	2-1/2"	1	62142	62442	
SF-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62654
SF-5	1/2"	1"	1/4"	2-3/4"	1	62146	62446	
SF-5NF	1/2"	1"	1/4"	2-3/4"	1			62658
SF-6	5/8"	1"	1/4"	2-3/4"	1	62148	62448	
SF-7	3/4"	1"	1/4"	2-3/4"	1	62149	62449	
SF-14	3/4"	1-1/4"	1/4"	3"	1	62150	62450	

#### Long Shank

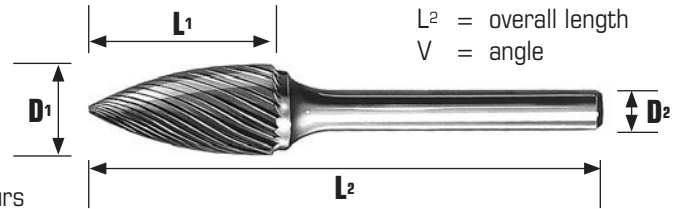
SF-1L6	1/4"	1/2"	1/4"	6-1/2"	1	62141	62441	
SF-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62143	62443	
SF-5L6	1/2"	1"	1/4"	7"	1	62147	62447	

Items with a UPC number are stocked items.





D<sup>1</sup> = head diameter  
 L<sup>1</sup> = length of cut  
 D<sup>2</sup> = shank diameter  
 L<sup>2</sup> = overall length  
 V = angle

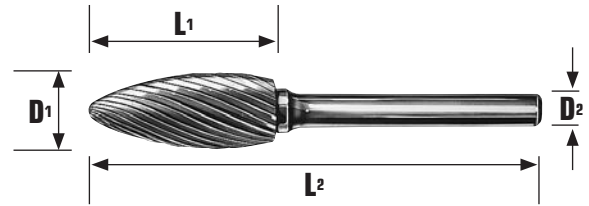


### SG - Pointed Tree Shape

- Applications: Sharp angled areas, narrow contours

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SG-41	1/8"	1/4"	1/8"	1-1/2"	1	62153	62453	
SG-42	1/8"	5/16"	1/8"	1-1/2"	1	62154	62454	
SG-51	1/4"	1/2"	1/8"	2"	1	62161	62461	
SG-1	1/4"	5/8"	1/4"	2"	1	62162	62462	
SG-3	3/8"	3/4"	1/4"	2-1/2"	1	62165	62465	
SG-5	1/2"	1"	1/4"	2-3/4"	1	62168	62468	
<b>Long Shank</b>								
SG-1L6	1/4"	1/2"	1/4"	6-1/2"	1	62163	62463	
SG-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62166	62466	
SG-5L6	1/2"	1"	1/4"	7"	1	62169	62469	

Items with a UPC number are stocked items.

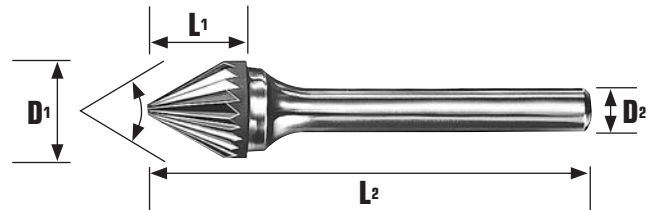


### SH - Flame Shape

- Application: Contouring

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SH-41	1/8"	1/4"	1/8"	1-1/2"	1	62173	62473	
SH-1	1/4"	5/8"	1/4"	2"	1	62177	62477	
SH-2	5/16"	3/4"	1/4"	2-1/2"	1	62178	62478	
SH-5	1/2"	1-1/4"	1/4"	3"	1	62180	62480	
<b>Long Shank</b>								
SH-2L6	5/16"	3/4"	1/4"	6-3/4"	1	62179	62479	
SH-5L6	1/2"	1-1/4"	1/4"	7-1/4"	1	62181	62481	

Items with a UPC number are stocked items.



### SJ - 60° Cone Shape

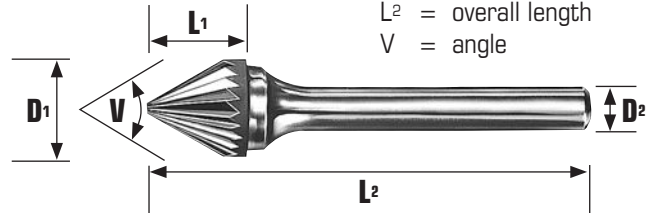
- Applications: Sharp angled areas, countersinking

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SJ-3	3/8"	5/16"	1/4"	2-3/16"	1	62186	62486	
SJ-5	1/2"	7/16"	1/4"	2-19/64"	1	62187	62487	

Items with a UPC number are stocked items.



D<sup>1</sup> = head diameter  
 L<sup>1</sup> = length of cut  
 D<sup>2</sup> = shank diameter  
 L<sup>2</sup> = overall length  
 V = angle

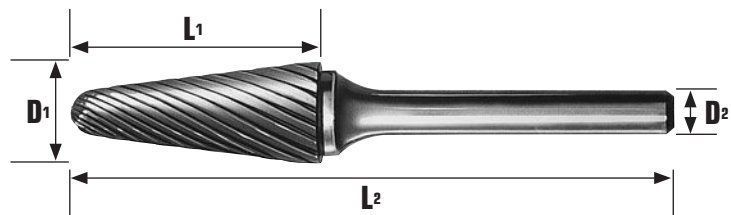


### SK - 90° Cone Shape

- Applications: Sharp angled areas, countersinking

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SK-3	3/8"	3/16"	1/4"	2-1/16"	1	62193	62493	
SK-5	1/2"	1/4"	1/4"	2-1/8"	1	62194	62494	

Items with a UPC number are stocked items.

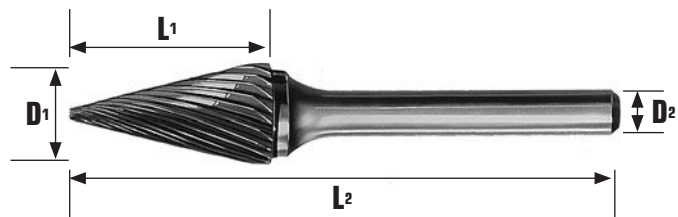


### SL - Taper Shape Radius

- Applications: Narrow contours, surface machining

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SL-41	1/8"	3/8"	1/8"	1-1/2"	1	62198	62498	
SL-42	1/8"	1/2"	1/8"	1-1/2"	1	62199	62499	
SL-4	1/2"	1-1/8"	1/4"	3"	1	62202	62502	
SL-1	1/4"	5/8"	1/4"	2"	1	62205	62505	
SL-3	3/8"	1-1/16"	1/4"	2-5/16"	1		62508	
SL-4NF	1/2"	1-1/8"	1/4"	3"	1			62668
SL-5	5/8"	1-3/16"	1/4"	3-1/16"	1	62211	62511	
SL-5NF	5/8"	1-3/16"	1/4"	3-1/16"	1			62669
<b>Long Shank</b>								
SL-1L6	1/4"	5/8"	1/4"	6-5/8"	1	62206	62506	
SL-3L6	3/8"	1-1/16"	1/4"	7-1/16"	1	62209	62509	
SL-4L6	1/2"	1-1/8"	1/4"	7-1/8"	1	62210	62510	

Items with a UPC number are stocked items.



### SM - Pointed Cone Shape

- Application: Narrow contours, surface machining
- Pointed end


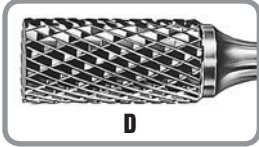
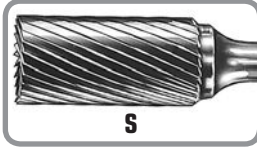
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SM-1	1/4"	1/2"	1/4"	2"	1	62222	62522	
SM-3	1/4"	1"	1/4"	2"	1	62224	62524	
SM-5	1/2"	7/8"	1/4"	2-3/4"	1	62226	62526	

Items with a UPC number are stocked items.

Carbide burrs or rotary files are made in a variety of shapes and types, and are used for deburring, drilling, milling, and finishing numerous shapes and materials, including aluminium, copper, plastic, stainless steel, iron, castings, and titanium. For use on hand-held pneumatic and electric die grinders.



## Matching burr type to application

BURR TYPE			
APPLICATION	ALU	D	S
Aluminium	●		
Copper		●	●
Fibreglass		●	
Cast iron		●	●
Plastic	●	●	●
Hard rubber	●	●	●
Iron alloys		●	
Stainless steel		●	●
Nickel		●	●
Titanium		●	●
Zinc alloys	●		
Magnesium	●		

- S** Standard tooth formation for general-purpose deburring
- D** Diamond tooth for use on hard metals. Produces high surface quality, very small metal shavings and no blockage (double tooth)
- ALU** Aluminium tooth for processing non-metals and soft materials. Quick, easy stock removal.


## Recommended operating speeds, by application

	0.3 mm / 1/8"	0.6 mm / 1/4"	0.10 mm / 3/8"	0.12 mm / 1/2"	0.16 mm / 5/8"
Steel	60,000 - 90,000	45,000 - 60,000	30,000 - 40,000	22,500 - 30,000	18,000 - 24,000
Hardened steel	60,000 - 90,000	30,000 - 45,000	19,000 - 30,000	15,000 - 22,500	12,000 - 18,000
Stainless steel	60,000 - 90,000	30,000 - 45,000	19,000 - 30,000	15,000 - 22,500	12,000 - 18,000
Grey castings	45,000 - 90,000	22,500 - 60,000	15,000 - 40,000	11,000 - 30,000	9,000 - 24,000
Titanium	60,000 - 90,000	30,000 - 45,000	19,000 - 30,000	15,000 - 22,500	12,000 - 18,000
Nickel	60,000 - 90,000	30,000 - 45,000	19,000 - 30,000	15,000 - 22,500	12,000 - 18,000
Copper	45,000 - 90,000	22,500 - 60,000	15,000 - 40,000	11,000 - 30,000	9,000 - 24,000
Aluminium	30,000 - 90,000	15,000 - 70,000	10,000 - 50,000	7,000 - 38,000	6,000 - 30,000
Plastic	30,000 - 90,000	15,000 - 70,000	10,000 - 50,000	7,000 - 38,000	6,000 - 30,000



## Knot Wire Wheel Brushes

### Description and Applications

- Versatile in design, wire wheels brushes can be used horizontally or vertically.  
**(Correctly aligning brushes to work pieces allows wire tips to do the work.)**
- **Knot Wire Wheel Brush - Standard** 
  - Standard wire twist knot design for aggressive, yet uniform brushing action.
  - For surface preparation, weld cleaning, heavy duty applications
  - For general cleaning, weld cleaning, removal of rubber flash, scale, rust, and pipeline cleaning
- **Knot Wire Wheel Brush - Stringer Bead** 
  - Tightly twisted wire knots easily reach into narrow or recessed areas for quick material removal.
  - For pipeline welding junctions, cleaning bead welds



### Knot Wire Wheel Brush

UPC#	SPEC	WIRE SIZE	THREADED ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
<b>Knot Wire Wheel Brush - Standard Twist</b>						
60050	4" Radial Knot Carbon	.014	1/2-5/8	20,000	6	24
60001	4" Radial Knot Carbon	.014	5/8-11	20,000	6	24
60006	4" Radial Knot Stainless	.014	5/8-11	20,000	6	24
60011	4" Radial Knot Stainless	.020	5/8-11	20,000	6	24
60012	4" Radial Knot Carbon	.020	5/8-11	20,000	6	24
60013	5" Radial Knot Carbon	.020	5/8-11	12,000	6	24
60014	5" Radial Knot Stainless	.020	5/8-11	12,000	6	24
<b>Knot Wire Wheel Brush - Standard Twist</b>						
60051	6" Radial Knot Carbon	.025	5/8-1/2	9,000	6	24
60052	6" Radial Knot Carbon	.020	5/8-11	9,000	6	24
60053	6" Radial Knot Carbon	.025	5/8-11	9,000	6	24
60055	6" Radial Knot Stainless	.016	5/8-1/2	9,000	6	24
<b>High Speed Small Grinder Stringer Bead Wheel Brush</b>						
60020	4" Radial Knot Carbon	.020	5/8-11	20,000	6	24
60025	4" Radial Knot Stainless	.020	5/8-11	20,000	6	24
<b>Knot Wire Wheel Brush - Stringer Bead</b>						
60035	5" Radial Knot Carbon	.020	5/8-11	12,000	6	24
60037	5" Radial Knot Stainless	.020	5/8-11	12,000	6	24
60038	5-7/8" Stringer Bead Carbon	.020	5/8-11	12,000	6	24
60039	5-7/8" Stringer Bead Stainless	.020	5/8-11	12,000	6	24
60040	6-1/2" Stringer Bead Carbon	.020	5/8-11	12,000	6	24
60041	6-1/2" Stringer Bead Stainless	.020	5/8-11	12,000	6	24

## New Wire Cup Brushes

### Description and Applications

- Designed for fast, heavy-duty working on large surfaces.
- **High Speed Small Grinder - Knot Wire Cup Brush**
  - Wire twist knot for high productivity and long life
  - For scale removal, deburring, weld cleaning and flat surfaces
- **High Speed Small Grinder - Knot Wire Cup Brush (Heavy Duty)**
  - Wire treated for extra heavy duty applications
  - For general cleaning and cleaning of corners and flat or curved work pieces
- **Knot Wire Cup Brush**
  - Knot wire cup brushes are designed for rigorous work pieces
  - For metal surface preparation, cleaning, removal of weld scale and rust
- **High Speed Small Grinder - Crimped Wire Cup Brush**
  - For light and medium duty cleaning
  - Removing scale, deburring, cleaning welds or flat surfaces, heavy duty application burr removal



USA MADE WIRE BRUSHES

### Cup Brush

UPC#	SPEC	WIRE SIZE	THREADED ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
<b>High Speed Small Grinder Knot Wire Cup Brush</b>						
60060	2-3/4" Cup Knot Carbon	.014	5/8-11	14,000	6	24
60065	2-3/4" Cup Knot Stainless	.014	5/8-11	14,000	6	24
60070	2-3/4" Cup Knot Carbon	.020	5/8-11	14,000	6	24
60076	2-3/4" Cup Knot Stainless	.020	5/8-11	14,000	6	48
<b>Knot Wire Cup Brush - Heavy Duty</b>						
60090	3-1/2" Cup Brush Carbon	.020	5/8-11	12,500	1	24
60091	3-1/2" Cup Brush Stainless	.020	5/8-11	12,500	1	24
60104	4" Cup Brush Carbon 1 Row	.020	5/8-11	6,600	1	24
60105	4" Cup Brush Stainless 1 Row	.020	5/8-11	6,600	1	24
60106	6" Cup Brush Carbon 1 Row	.020	5/8-11	6,600	1	24
60101	6" Cup Brush Stainless 1 Row	.020	5/8-11	6,600	1	24
60100	6" Cup Brush Carbon 1 Row	.035	5/8-11	6,600	1	24
60102	6" Cup Brush Carbon 2 Row	.020	5/8-11	6,600	1	24
60103	6" Cup Brush Carbon 2 Row	.035	5/8-11	6,600	1	24
<b>High Speed Small Grinder Crimped Wire Cup Brush</b>						
60120	2-3/4" Cup Crimp Carbon	.014	5/8-11	14,000	6	24
60125	2-3/4" Cup Crimp Stainless	.014	5/8-11	14,000	6	24
60126	3-1/2" Cup Crimp Carbon	.014	5/8-11	12,500	1	24
60127	3-1/2" Cup Crimp Stainless	.014	5/8-11	12,500	1	24
<b>Crimped Wire Cup Brush</b>						
60110	4" Cup Brush Crimp Carbon	.020	5/8-11	9,000	1	24
60111	5" Cup Brush Crimp Carbon	.020	5/8-11	8,000	1	24
60113	5" Cup Brush Crimp Stainless	.020	5/8-11	8,000	1	24
60112	6" Cup Brush Crimp Carbon	.020	5/8-11	6,600	1	24

**New End Brushes**

*Description and Applications*

- Designed for tight work spaces and higher brushing speeds (up to 22,000 RPM)
- **Knot Wire End Brush**
  - For pipeline cleaning, CNC equipment maintenance/cleaning, removal of rust or scale
- **Crimped Wire End Brush**
  - For general use including blending, cleaning, and polishing



**End Brush**

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY	MASTER PACK QTY
<b>Knot Wire End Brush</b>						
60130	3/4" Knotted End Brush Carbon	.014	1/4"	22,000	12	144
60131	1" Knotted End Brush Carbon	.020	1/4"	22,000	12	144
60132	1" Knotted End Brush Stainless	.020	1/4"	22,000	12	144
<b>Crimped Wire End Brush</b>						
60140	3/4" Crimped End Brush Carbon	.0104	1/4"	22,000	12	144
60141	1" Crimped End Brush Carbon	.020	1/4"	22,000	12	144

## **New** Crimped Wire Wheel Brushes

### Description and Applications

- Versatile in design, wire wheels brushes can be used hozitonally or vertically. (Correctly aligning brushes to work pieces allows wire tips to do the work.)
- **Crimped Concave Wire Wheel Brush With Shank**
  - Uniform brush design for use on drill presses or offhand for internal and external cleaning and deburring
  - For removal of rust, scale paint and weld splatter
- **Crimped Wire Wheel Brush With Shank**
  - Uniform brush design for use on drill presses or offhand for internal and external cleaning and deburring
  - For removal of rust, scale paint and weld splatter
- **Crimped Wire Narrow Face Wheel Brush**
  - Flexible design can easily be paired to work on wide surfaces.
  - For deburring narrow work pieces and paint and rust removal
- **Crimped Wire Medium Face Wheel Brush**
  - For edge blending, deburring, rust removal, surface finishing
- **Crimped Wire Wide Face Wheel Brush**
  - For deburring, rust removal, surface finishing
- **Crimped Wire Wheel Brush**
  - Light duty brushing



60150 Shown



### Crimped Wire Wheel Brush

UPC#	SPEC	WIRE SIZE	ARBOR OR SHANK	MAX RPM	BOX QTY	MASTER PACK QTY
<b>Crimped Concave Wire Wheel Brush With Shank</b>						
60160	1-1/2" Radial Concave Carbon	.012	1/4" Shank	20,000	10	
60161	2-1/2" Radial Concave Carbon	.014	1/4" Shank	20,000	10	
60162	3" Radial Concave Carbon	.014	1/4" Shank	20,000	10	
<b>Crimped Wire Wheel Brush With Shank</b>						
60170	2" Crimped Carbon	.014	1/4" Shank	25,000	10	
60171	3" Crimped Carbon	.014	1/4" Shank	25,000	10	
60172	3" Crimped Stainless	.014	1/4" Shank	25,000	10	
<b>High Speed Small Grinder Crimped Wire Wheel Brush</b>						
60150	4" Radial Carbon	.014	5/8-11	15,000	6	24
<b>Crimped Wire Narrow Face Wheel Brush</b>						
60180	8" Radial Narrow Carbon	.014	5/8	4,500	1	12
60181	6" Radial Narrow Carbon	.008	1/2-5/8	6,000	1	36
60182	6" Radial Narrow Carbon	.014	1/2-5/8	6,000	1	36
<b>Crimped Wire Medium Face Wheel Brush</b>						
60190	6" Radial Medium Carbon	.014	1/2-5/8	6,000	1	36
<b>Crimped Wire Wide Face Wheel Brush</b>						
60195	7" Radial Wide Carbon	.014	5/8	6,000	1	12
60196	10" Radial Wide Carbon	.014	5/8	3,600	1	6

**New** **Miscellaneous Brushes**

*Description and Applications*

- **Metal Chip Brush**
  - For hot metal removal
- **Cement Cleaning Brush**
  - Features longer wire for easy removal of joint material from concrete and asphalt



**Miscellaneous Brushes**

UPC#	DESCRIPTION	BOX QTY	MASTER PACK QTY
<b>Metal Chip Brush</b>			
60200	Metal Chip Brush	12	
<b>Cement Cleaning Brush</b>			
60000	12" Radial Cement Crack Cleaning Brush .035 Knot Carbon 1" w 7/16" Drive Pin Hole	1	4

**New** **Scratch Brushes**

*Description and Applications*

- Designed with kiln-dried hardwood handles for maximum tuft retention and high-quality, staple set wire for long life.



**Scratch Brush**

UPC#	SPEC	DESCRIPTION	BOX QTY	MASTER PACK QTY
<b>Economy Curved Handle Scratch Brush - w/hang up hole</b>				
60201	3 x 19 Rows	Scratch Brush	12	144
60202	3 x 19 Rows	Stainless Scratch Brush	12	144
60203	4 x 19 Rows	Scratch Brush	12	144
60204	3 x 19 Rows	Scratch Brush With Scraper	12	144
<b>Economy Show Handle Scratch Brush</b>				
60205	4 x 16 Rows	Scratch Brush	12	72
60206	4 x 16 Rows	Scratch Brush With Scraper	12	72
60207	4 x 16 Rows	Stainless Scratch Brush	12	72
<b>Economy Small Cleaning Scratch Brush</b>				
60208	3 x 7 Rows	Brass Scratch Brush Plastic Handle	36	648
60209	3 x 7 Rows	Stainless Scratch Brush Plastic Handle	36	648
<b>Small Cleaning Scratch Brush</b>				
60210	3 x 7 Rows	Brass Scratch Brush	36	648
60211	3 x 7 Rows	SS Scratch Brush	36	648
<b>V-Trim Small Cleaning Scratch Brush</b>				
60212	V-Groove	Scratch Brush Stainless	36	648
60213	V-Groove	Scratch Brush Carbon	36	648





## Adapters

Description and Applications

- Metal Adapters for Brushes with 2" Arbor Hole



### Adapters

UPC#	SPEC	DESCRIPTION
<b>Metal Adapters for Brushes with 2" Arbor Hole</b>		
60220	Metal Adapters 2" x 1/2"	1 Pair
60221	Metal Adapters 2" x 5/8"	1 Pair
60222	Metal Adapters 2" x 3/4"	1 Pair
60223	Metal Adapters 2" x 1"	1 Pair
60224	Metal Adapters 2" x 1-1/4"	1 Pair



## Chip / Paint Brushes



### Paint Brushes

UPC#	SPEC	BOX QTY	MASTER PACK QTY
60225	1/2" Pure Bristle Wood Handle Chip Paint Brush	36	72
60226	1" Pure Bristle Wood Handle Chip Paint Brush	36	72
60227	1-1/2" Pure Bristle Wood Handle Chip Paint Brush	36	72
60228	2" Pure Bristle Wood Handle Chip Paint Brush	24	72
60229	3" Pure Bristle Wood Handle Chip Paint Brush	24	72
60230	4" Pure Bristle Wood Handle Chip Paint Brush	12	48

USA MADE CARBIDE BURS

## **New** Knot Wire Wheel Brushes **Fast Cut**

### Description and Applications

- Versatile in design, wire wheels brushes can be used horizontally or vertically.  
**(Correctly aligning brushes to work pieces allows wire tips to do the work.)**
- **Knot Wire Wheel Brush - Standard**
  - Standard wire twist knot design for aggressive, yet uniform brushing action.
  - For surface preparation, weld cleaning, heavy duty applications
  - For general cleaning, weld cleaning, removal of rubber flash, scale, rust, and pipeline cleaning
- **Knot Wire Wheel Brush - Stringer Bead**
  - Tightly twisted wire knots easily reach into narrow or recessed areas for quick material removal.
  - For pipeline welding junctions, cleaning bead welds



### **Knot Wire Wheel Brush - Fast Cut**

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
<b>Knot Wire Wheel Brush - Standard Twist</b>						
60500	3" Radial Knot Carbon	.014	1/2-3/8	20,000	5	100
60501	3" Radial Knot Stainless	.014	1/2-3/8	20,000	5	100
60502	4" Radial Knot Carbon	.014	5/8-11	20,000	5	100
60503	5" Radial Knot Carbon	.020	5/8-11	12,000	5	100
60505	6" Radial Knot Carbon	.020	5/8-11	9,000	5	25
<b>Knot Wire Wheel Brush - Cable Twist</b>						
60514	4" Cable Twist Carbon	.020	5/8-11	20,000	5	50
60515	4" Cable Twist Stainless	.020	5/8-11	20,000	5	50
<b>Knot Wire Wheel Brush - Stringer Bead</b>						
60520	4" Stringer Bead Carbon	.020	5/8-11	20,000	5	50
60521	4" Stringer Bead Stainless	.020	5/8-11	20,000	5	50
60522	5" Stringer Bead Carbon	.020	5/8-11	12,000	5	40
60523	6" Stringer Bead Carbon	.020	5/8-11	12,000	5	25
60524	6" Stringer Bead Stainless	.020	5/8-11	12,000	5	25
60525	6-1/2" Stringer Bead Carbon	.020	5/8-11	12,000	5	25
60526	6-1/2" Stringer Bead Stainless	.020	5/8-11	12,000	5	25



## Wire Cup Brushes - *Fast Cut*

### Description and Applications

- Designed for fast, heavy-duty working on large surfaces.
- **High Speed Small Grinder - Knot Wire Cup Brush**
  - Wire twist knot for high productivity and long life
  - For scale removal, deburring, weld cleaning and flat surfaces
- **High Speed Small Grinder - Knot Wire Cup Brush (Heavy Duty)**
  - Wire treated for extra heavy duty applications
  - For general cleaning and cleaning of corners and flat or curved work pieces
- **Knot Wire Cup Brush**
  - Knot wire cup brushes are designed for rigorous work pieces
  - For metal surface preparation, cleaning, removal of weld scale and rust
- **High Speed Small Grinder - Crimped Wire Cup Brush**
  - For light and medium duty cleaning
  - Removing scale, deburring, cleaning welds or flat surfaces, heavy duty application burr removal



### Cup Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
<b>Knot Wire Cup Brush</b>						
60535	2-3/4" Cup Knot Carbon	.014	5/8-11	12,500	5	50
60536	2-3/4" Cup Knot Stainless	.014	5/8-11	12,500	5	50
60537	2-3/4" Cup Knot Carbon	.020	5/8-11	12,500	5	50
60538	2-3/4" Cup Knot Stainless	.020	5/8-11	12,500	5	50
60539	4" Cup Knot Carbon 1 Row	.020	5/8-11	8,500	5	30
60540	4" Cup Knot Stainless 1 Row	.020	5/8-11	8,500	5	30
60541	6" Cup Knot Carbon 1 Row	.020	5/8-11	6,500	5	20
60542	6" Cup Knot Stainless 1 Row	.020	5/8-11	6,500	5	20
<b>Crimped Wire Cup Brush</b>						
60560	3" Cup Brush Crimp Carbon	.014	5/8-11	12,500	5	50
60561	3" Cup Brush Crimp Stainless	.014	5/8-11	12,500	5	50
60562	4" Cup Brush Crimp Carbon	.014	5/8-11	8,500	5	30
60563	4" Cup Brush Crimp Stainless	.014	5/8-11	8,500	5	30
60564	6" Cup Brush Crimp Carbon	.020	5/8-11	6,500	5	20
60565	6" Cup Brush Crimp Stainless	.020	5/8-11	6,500	5	20

**New** **End Brushes - Fast Cut**

*Description and Applications*

- Designed for tight work spaces and higher brushing speeds (up to 25,000 RPM)
- **Knot Wire End Brush**
  - For pipeline cleaning, CNC equipment maintenance/cleaning, removal of rust or scale
- **Crimped Wire End Brush**
  - For general use including blending, cleaning, and polishing



**End Brush - Fast Cut**

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY	MASTER PACK QTY
<b>Knot Wire End Brush</b>						
60575	3/4" Knotted End Brush Carbon	.014	1/4"	20,000	5	200
60576	3/4" Knotted End Brush Carbon	.020	1/4"	20,000	5	200
60577	3/4" Knotted End Brush Stainless	.014	1/4"	20,000	5	200
60578	1" Knotted End Brush Carbon	.014	1/4"	20,000	5	200
60579	1" Knotted End Brush Stainless	.014	1/4"	20,000	5	200
60580	1" Knotted End Brush Carbon	.020	1/4"	20,000	5	200
<b>Crimped Wire End Brush</b>						
60590	3/4" Crimped End Brush Carbon	.014	1/4"	20,000	5	200
60591	3/4" Crimped End Brush Stainless	.014	1/4"	20,000	5	200
60592	1" Crimped End Brush Carbon	.014	1/4"	20,000	5	200
60593	1" Crimped End Brush Stainless	.010	1/4"	20,000	5	200



## **Crimped Wire Wheel Brushes Fast Cut**

### Description and Applications

- Versatile in design, wire wheels brushes can be used horizontally or vertically. (Correctly aligning brushes to work pieces allows wire tips to do the work.)
- **Crimped Wire Wheel Brush**
  - Light duty brushing
  - For deburring in narrow work spaces, removal of rust, scale, paint and dirt.
- **Crimped Wire Medium Face Wheel Brush**
  - For edge blending, deburring, rust removal, surface finishing



### **Crimped Wire Wheel Brush - Fast Cut**

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
<b>Crimped High Speed Small Grinder Crimped Wire Wheel Brush</b>						
60650	4" Radial Carbon	.014	5/8-11	15,000	5	50
60651	4" Radial Stainless	.014	5/8-11	15,000	5	50
<b>Crimped Wire Medium Face Wheel Brush</b>						
60665	6" Radial Medium Carbon	.014	2	6,000	5	25

# BENCH & PEDESTAL WHEELS

## Bench & Pedestal Wheels 6"-10" Diameter - Type 1 Carton Packs

### Description and Applications

- Straight vitrified wheels used for off-hand tool sharpening and grinding. Common settings for bench and pedestal grinders are in maintenance departments, tool & die shops and metal fabrication shops.
- A - Aluminum Oxide for general purpose off-hand work.
- GC - Green Silicon Carbide for non-ferrous metals, tungsten carbide for sharpening carbide tools in tool rooms.

Type 1



**H\*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors**  
**H: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors**

### 6 x 1/2 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Green Silicon Carbide:</b>			
35005	GC60-I-V	10	20
35006	GC80-I-V	10	20
35007	GC100-I-V	10	20

### 6 x 3/4 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35008	A24-Q-V	10	20
35009	A36-O-V	10	20
35010	A46-M-V	10	20
35011	A60-M-V	10	20
35012	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35013	GC60-I-V	10	20
35014	GC80-I-V	10	20
35015	GC100-I-V	10	20

### 6 x 1 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35017	A24-Q-V	10	20
35018	A36-O-V	10	20
35019	A46-M-V	10	20
35020	A60-M-V	10	20
35021	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35022	GC60-I-V	10	20
35023	GC80-I-V	10	20
35024	GC100-I-V	10	20

### 7 x 3/4 x 1 (H\*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Green Silicon Carbide:</b>			
35031	GC60-I-V	10	20
35032	GC80-I-V	10	20
35033	GC100-I-V	10	20

### 7 x 1 x 1 (H\*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35034	A24-Q-V	10	20
35035	A36-O-V	10	20
35036	A46-M-V	10	20
35037	A60-M-V	10	20
35038	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35039	GC60-I-V	10	20
35040	GC80-I-V	10	20
35041	GC100-I-V	10	20

### 8 x 3/4 x 1 (H\*) 3,600 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35044	A46-M-V	10	20

### 8 x 1 x 1 1/4 (H\*) 3,600 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35046	A24-Q-V	10	20
35047	A36-O-V	10	20
35048	A46-M-V	10	20
35049	A60-M-V	10	20
35050	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35051	GC60-I-V	10	20
35052	GC80-I-V	10	20
35053	GC100-I-V	10	20

## Bench & Pedestal Wheels 6"-18" Diameter - Type 1 Single Packs

### Description and Applications

- A - Aluminum Oxide for general purpose off-hand work.
- GC - Green Silicon Carbide for non-ferrous metals, tungsten carbide for sharpening carbide tools in tool rooms.
- AZ - Premium Blue Aluminum Oxide for HSS over 55 RC and above, high carbon tool steels and woodworking applications. Engineered for free cutting action while pulling heat away from the part and into the matrix of the wheel.
- WA - White Aluminum Oxide highly friable grain for fast and cool cutting. Light grinding of all types of steel including tool and die steels; fast sharpening of all tools.



Type 1

### H\*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors

#### 6 x 1/2 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38003	A46-M-V	1	10
38004	A60-M-V	1	10
38005	A80-M-V	1	10
<b>Green Silicon Carbide:</b>			
38501	GC60-I-V	1	10
38502	GC80-I-V	1	10
38503	GC100-I-V	1	10

#### 6 x 3/4 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38006	A24-Q-V	1	10
38007	A36-O-V	1	10
38008	A46-M-V	1	10
38009	A60-M-V	1	10
38010	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38111	AZ36-K8-V3	1	10
38113	AZ60-K8-V3	1	10
38114	AZ80-K8-V3	1	10
38116	AZ120-K8-V3	1	10
<b>White Aluminum Oxide:</b>			
38613	WA60-K-V	1	10
38616	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38504	GC60-I-V	1	10
38505	GC80-I-V	1	10
38506	GC100-I-V	1	10

#### 6 x 1 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38011	A24-Q-V	1	10
38012	A36-O-V	1	10
38013	A46-M-V	1	10
38014	A60-M-V	1	10
38015	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38121	AZ36-K8-V32A	1	10
38123	AZ60-K8-V32A	1	10
38126	AZ120-K8-V32A	1	10
<b>White Aluminum Oxide:</b>			
38623	WA60-K-V	1	10
38626	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38507	GC60-I-V	1	10
38508	GC80-I-V	1	10
38509	GC100-I-V	1	10
38580	GC120-I-V	1	10

#### 7 x 3/4 x 1 (H\*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38562	A60-M-V	1	10
<b>Green Silicon Carbide:</b>			
38510	GC60-I-V	1	10
38511	GC80-I-V	1	10
38512	GC100-I-V	1	10

H\*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors  
 H: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors  
 H: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

**7 x 1 x 1 (H\*) 3,760 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38016	A24-Q-V	1	10
38017	A36-O-V	1	10
38018	A46-M-V	1	10
38019	A60-M-V	1	10
38020	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38161	AZ36-K8-V32A	1	10
38163	AZ60-K8-V32A	1	10
38164	AZ60-K8-V32A	1	10
38166	AZ120-K8-V32A	1	10
<b>White Aluminum Oxide:</b>			
38663	WA60-K-V	1	10
38666	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38513	GC60-I-V	1	10
38514	GC80-I-V	1	10
38515	GC100-I-V	1	10

**8 x 1 x 1 1/4 (H4) 3,600 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38021	A24-Q-V	1	10
38022	A36-O-V	1	10
38023	A46-M-V	1	10
38024	A60-M-V	1	10
38025	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38201	AZ36-K8-V32A	1	10
38203	AZ60-K8-V32A	1	10
38204	AZ60-K8-V32A	1	10
38206	AZ120-K8-V32A	1	10
<b>White Aluminum Oxide:</b>			
38703	WA60-K-V	1	10
38706	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38516	GC60-I-V	1	10
38517	GC80-I-V	1	10
38518	GC100-I-V	1	10

**10 x 1 x 1 1/4 (H2) 2,483 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38026	A24-Q-V	1	5
38027	A36-O-V	1	5
38028	A46-M-V	1	5
38029	A60-M-V	1	5
38030	A80-M-V	1	5
<b>Green Silicon Carbide:</b>			
38519	GC60-I-V	1	5
38520	GC80-I-V	1	5
38521	GC100-I-V	1	5

**10 x 1 1/2 x 1 1/4 (H2) 2,483 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38031	A24-Q-V	1	4
38032	A36-O-V	1	4
38033	A46-M-V	1	4
38034	A60-M-V	1	4
38035	A80-M-V	1	4
<b>Green Silicon Carbide:</b>			
38522	GC60-I-V	1	4
38523	GC80-I-V	1	4
38524	GC100-I-V	1	4

**12 x 1 x 1 1/4 (H2) 2,220 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38036	A24-Q-V	1	2
38038	A46-M-V	1	2
38039	A60-M-V	1	2
<b>Green Silicon Carbide:</b>			
38525	GC60-I-V	1	2

**12 x 1 1/2 x 1 1/4 (H2) 2,220 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38041	A24-Q-V	1	2
38042	A36-O-V	1	2
38043	A46-M-V	1	2
38044	A60-M-V	1	2
<b>Green Silicon Carbide:</b>			
38528	GC60-I-V	1	2
38529	GC80-I-V	1	2



**12 x 2 x 1 1/2 (H³) 2,220 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38046	A24-Q-V	1	3
38047	A36-O-V	1	3
38048	A46-M-V	1	3
38049	A60-M-V	1	3
38050	A80-M-V	1	3
<b>Green Silicon Carbide:</b>			
38531	GC60-I-V	1	3
38532	GC80-I-V	1	3
38533	GC100-I-V	1	3

**14 x 2 x 1 1/2 (H³) 1,773 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38051	A24-Q-V	1	3
38052	A36-O-V	1	3
38053	A46-M-V	1	3
38054	A60-M-V	1	3
38055	A80-M-V	1	3
<b>Green Silicon Carbide:</b>			
38534	GC60-I-V	1	3
38535	GC80-I-V	1	3

**14 x 3 x 1 1/2-1 1/4 1,773 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35107	A24/30-Q-V	1	3
35108	A46/54-M-V	1	3

**16 x 2 x 1 1/2 1,550 R.P.M.**

UPC#	SIZE	UNIT
<b>Brown Aluminum Oxide:</b>		
35109	A24-Q-V	1
35110	A36-M-V	1

**18 x 3 x 1 1/2 1,485 R.P.M.**

UPC#	SIZE	UNIT
<b>Brown Aluminum Oxide:</b>		
35112	A24-Q-V	1
35113	A36-O-V	1
35114	A54-M-V	1

**Bench Wheel Bushings**

UPC#	SPEC.	UNIT
51000	1/2" Wide (Thick) 1"-1 1/2"	1
51001	3/4" Wide (Thick) 1"-1 1/2"	1
51002	1" Wide (Thick) 1"-1 1/2"	1
51003	1/2" Wide (Thick) 1 1/4"-1"	1
51004	3/4" Wide (Thick) 1 1/4"-1"	1
51005	1" Wide (Thick) 1 1/4"-1"	1
51006	1/2" Wide (Thick) 1 1/2"-1 1/4"	1
51007	3/4" Wide (Thick) 1 1/2"-1 1/4"	1
51008	1" Wide (Thick) 1 1/2"-1 1/4"	1



### **AS3 - Ceramic Aluminum Oxide**

- Engineered for fast metal removal with reduced dressing frequency.
- Excels at grinding 50 Rockwell C and harder.
- Submicron crystal structure continually fractures to produce sharp new grinding points.
- Designed for heavier downfeeds and faster traverse rates with excellent form holding capabilities.

### **32A**

- Sharp mono-crystalline aluminum oxide grain with premium CGW bond offers excellent versatility and performance on a wide range of applications and materials.
- Outstanding form holding wheels with free cutting grain.
- Ideal for medium to heavy stock removal.
- The most popular grain for tool room, surface grinding applications.

### **AZ - Premium Blue Aluminum Oxide**

- Engineered for grinding high speed steels over 55C and general purpose tool steels.
- Exceptionally fast and cool cutting characteristics suitable for grinding heat sensitive, alloy steels and mold steels.
- Free cutting design pulls the heat away from the part.
- Friable grain for cooler grinding. Requires minimal dressing and holds its form well.

### **RA - Ruby Aluminum Oxide**

- Ideal for rough grinding of all tool steels including steel with high levels of chromium.
- A tough, sharp, yet friable abrasive with high material removal rate and strong form holding capabilities.
- Grain is tougher than White, AZ or Pink grain wheels.

### **PA - Pink Aluminum Oxide**

- Ideal for grinding medium and hard to grind high speed steels and alloy steels.
- Sharp grain for fast, cool cutting action.
- Excellent tool sharpening wheel.

### **WA - White Aluminum Oxide**

- Used when easy cutting action is needed on all surfaces.
- Ideal for grinding heat-sensitive steels, as well as easy and medium to grind high speed steels.
- The most friable grain choice.

Surface Grinding Wheels Selection Chart						
SIZE - GRIT - HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White
6 x 1/2 x 1 1/4 T1 60-K			34301			
7 x 1/4 x 1 1/4 T1 46-I			34303		58000	34600
7 x 1/4 x 1 1/4 T1 60-I			34308			34603
7 x 1/4 x 1 1/4 T1 60-J			34309	59025	58001	34604
7 x 1/4 x 1 1/4 T1 60-K	34206		34310			34605
7 x 1/4 x 1 1/4 T1 80-J			34312			34606
7 x 1/4 x 1 1/4 T1 80-K	34207		34313		58002	34607
7 x 1/4 x 1 1/4 T1 80-L			34314			
7 x 1/4 x 1 1/4 T1 100-K			34315		58003	34608
7 x 1/4 x 1 1/4 T1 120-K						34609
7 x 1/4 x 1 1/4 T1 150-K			34317			34610
7 x 1/2 x 1 1/4 T1 46-G						34614
7 x 1/2 x 1 1/4 T1 46-H	34208	37700	34318	34633	58004	34615
7 x 1/2 x 1 1/4 T1 46-I	34210	37701	34319		58005	34616
7 x 1/2 x 1 1/4 T1 46-J	34209	37702	34320		58006	34617
7 x 1/2 x 1 1/4 T1 46-J/K				34634		
7 x 1/2 x 1 1/4 T1 46-K	37767	37703	34321		58007	34618
7 x 1/2 x 1 1/4 T1 60-H			34323		58008	34619
7 x 1/2 x 1 1/4 T1 60-I		37704	34324		58009	34620
7 x 1/2 x 1 1/4 T1 60-J	34212	37705	34325		58010	34621
7 x 1/2 x 1 1/4 T1 60-J/K				34635		
7 x 1/2 x 1 1/4 T1 60-K	34213	37706	34326		58011	34622
7 x 1/2 x 1 1/4 T1 60-L			34327			
7 x 1/2 x 1 1/4 T1 80-H			34328			
7 x 1/2 x 1 1/4 T1 80-K	37768	37728	34329	59000	58012	34623
7 x 1/2 x 1 1/4 T1 100-K			34330			34624
7 x 1/2 x 1 1/4 T1 120-K			34331			34625
7 x 1/2 x 1 1/4 T1 150-K			34332			34626
7 x 1/2 x 1 1/4 T1 46-H12			34333			
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H		37729	34335	59027		34636
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-I			34336		58013	
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J		37730	34337	59001	58014	34638
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-K			34338			
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-H						34640
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J		37731	34341	59002	58015	34642
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J/K				59028		
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H		37732	34342	59029	58016	34647
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I			34343			34648
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J		37733	34344	59003	58017	34649
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K			34345			34650
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34652
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J		37734	34348	59004	58018	34653
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K			34349			
8 x 1/4 x 1 1/4 T1 46-J	37769					
8 x 1/4 x 1 1/4 T1 60-J	34114					
8 x 1/4 x 1 1/4 T1 60-K						34663
8 x 1/4 x 1 1/4 T1 80-J						34664
8 x 1/2 x 1 1/4 T1 46-H	37770	37707	34350	59005	58019	34671
8 x 1/2 x 1 1/4 T1 46-I		37708	34351		58020	34672
8 x 1/2 x 1 1/4 T1 46-J	37771	37709	34352		58021	34673
8 x 1/2 x 1 1/4 T1 46-J/K				59006		
8 x 1/2 x 1 1/4 T1 46-K	34214	37735	34353		58022	34674
8 x 1/2 x 1 1/4 T1 60-H			34354			
8 x 1/2 x 1 1/4 T1 60-I			34355			34676
8 x 1/2 x 1 1/4 T1 60-J	34215	37710	34356		58023	34677
8 x 1/2 x 1 1/4 T1 60-K		37711	34357	59007	58024	34678
8 x 1/2 x 1 1/4 T1 80-K		37736	34358	59008	58025	34679
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H			34359	59009	58026	34683

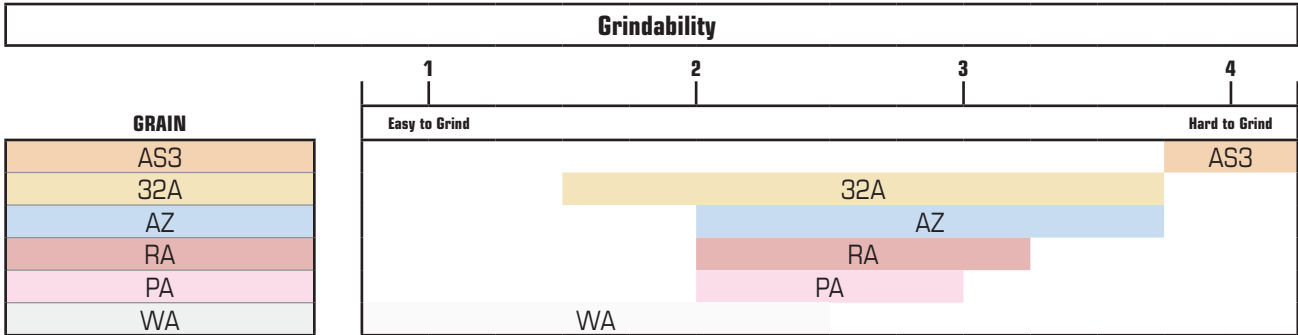
**Surface Grinding Wheels Selection Chart**

<b>SIZE - GRIT - HARDNESS</b>	<b>AS3 Ceramic</b>	<b>32A</b>	<b>AZ Premium Blue</b>	<b>RA Ruby</b>	<b>PA Pink</b>	<b>WA White</b>
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J			34360			34685
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-I						34688
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J			34364			34689
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-K						34690
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H			34366		58027	
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I						34696
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J			34367		58028	34697
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J/K				59010		
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K						34698
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34700
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J			34369		58029	34701
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J/K				59011		
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K						34702
10 x 1/2 x 3 T1 60-J						34712
10 x 3/4 x 3 T1 46-I			34380			
10 x 3/4 x 3 T1 60-H			34383			
10 x 3/4 x 3 T1 60-I						34719
10 x 1 x 2 T1 46-I			34387			
10 x 1 x 3 T1 46-H	37772		34389		58030	34723
10 x 1 x 3 T1 46-I			34390			34724
10 x 1 x 3 T1 46-J	37773	37737	34391		58031	34725
10 x 1 x 3 T1 46-J/K				59012		
10 x 1 x 3 T1 46-K	34217		34392			
10 x 1 x 3 T1 60-I			34394			
10 x 1 x 3 T1 60-J	34218	37738	34395		58032	34729
10 x 1 x 3 T1 60-K			34396			
12 x 3/4 x 3 T1 46-H			34397			
12 x 3/4 x 3 T1 46-I						34735
12 x 3/4 x 5 T1 60-J			34409			
12 x 1 x 3 T1 46-H	34219	37712	34411	59013	58033	34742
12 x 1 x 3 T1 46-I			34412			34743
12 x 1 x 3 T1 46-J	34220	37713	34413		58034	34744
12 x 1 x 3 T1 46-J/K				59014		
12 x 1 x 3 T1 46-K			34414			
12 x 1 x 3 T1 60-I	34221		34416			
12 x 1 x 3 T1 60-J	37775					34749
12 x 1 x 3 T1 60-K		37739	34418			
12 x 1 x 5 T1 46-H	34222		34419			34752
12 x 1 x 5 T1 46-J	34223	37740	34421			34755
12 x 1 x 5 T1 46-K		37741	34422	59015	58035	
12 x 1 x 5 T1 60-J	37777	37742	34425			
12 x 1 x 5 T1 60-K		37743	34426	59016	58036	34760
12 x 1 x 5 T1 80-K		37754				
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-H						34761
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-I						34762
12 x 1 1/2 x 3 (w-7 1/2 x 1/2) T5 46-J						34763
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 60-I						34766
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-H	34225	37714	34427	59017	58037	34769
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-I			34428			34770
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J	34226	37715	34429		58038	34771
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J/K				59018		
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-K			34430			34772
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-I			34432			34774
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-J	34227	37755	34433			34775
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-K		37744				34776
12 x 1 x 5 T1 80-K		37756				
12 x 2 x 3 (R/2-7 1/2 x 1/2) T7 46-I			34434			
12 x 2 x 3 (R/2-6 1/2 x 1/2) T7 60-J			34435			

Surface Grinding Wheels Selection Chart						
SIZE - GRIT - HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White
12 x 2 x 5 (R/2-6 $\frac{1}{2}$ x $\frac{1}{2}$ ) T7 46-H		37716	34436	59019	58039	34777
12 x 2 x 5 (R/2-7 $\frac{1}{2}$ x $\frac{1}{2}$ ) T7 46-I		37717	34437		58040	34778
12 x 2 x 5 (R/2-7 $\frac{1}{2}$ x $\frac{1}{2}$ ) T7 46-J		37757	34438			34779
12 x 2 x 5 (R/2-7 $\frac{1}{2}$ x $\frac{1}{2}$ ) T7 46-J/K				59020		
12 x 2 x 5 (R/2-7 $\frac{1}{2}$ x $\frac{1}{2}$ ) T7 60-H			34440			34781
12 x 2 x 5 (R/2-7 $\frac{1}{2}$ x $\frac{1}{2}$ ) T7 60-J		37758				
12 x 2 x 5 (R/2-7 $\frac{1}{2}$ x $\frac{1}{2}$ ) T7 60-K			34443			
14 x 1 x 3 T1 46-H	37779					
14 x 1 x 3 T1 46-I			34445			
14 x 1 x 3 T1 46-J	34115					
14 x 1 x 3 T1 60-J	37780					
14 x 1 x 5 T1 46-H	34230	37745	34447	59042	58048	
14 x 1 x 5 T1 46-I		37718	34448		58049	34786
14 x 1 x 5 T1 46-I/J				59021		
14 x 1 x 5 T1 46-J	34232	37759	34449			
14 x 1 x 5 T1 46-K			34450			
14 x 1 x 5 T1 60-I			34452			34790
14 x 1 x 5 T1 60-J	34233	37760	34453			
14 x 1 x 5 T1 60-K		37746	34454		58050	34792
14 x 1 x 5 T1 80-K		37761				
14 x 1 $\frac{1}{2}$ x 5 T1 46-H	34238	37719	34456	59022	58041	34801
14 x 1 $\frac{1}{2}$ x 5 T1 46-I		37747	34457			34802
14 x 1 $\frac{1}{2}$ x 5 T1 46-J	34239	37720	34458		58042	34803
14 x 1 $\frac{1}{2}$ x 5 T1 46-K			34459	59045		
14 x 1 $\frac{1}{2}$ x 5 T1 60-H			34460			
14 x 1 $\frac{1}{2}$ x 5 T1 60-I	34240					
14 x 1 $\frac{1}{2}$ x 5 T1 60-J	34243	37762	34462	59046		
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 46-H	34234	37721	34464			34793
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 46-I	34235	37722	34465			34794
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 46-I/J				59023		
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 46-J	37782	37763	34466			34795
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 46-K		37748	34467	59048		
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 60-H						34797
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 60-I	34236		34469			34798
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 60-J	37783	37749	34470			
14 x 1 $\frac{1}{2}$ x 5 (R/1-8 x $\frac{1}{2}$ ) T5 60-K			34471	59049		
14 x 2 x 5 T1 46-H		37750	34472			
14 x 2 x 5 T1 46-I			34473			34808
14 x 2 x 5 T1 46-J		37723	34474			
14 x 2 x 5 T1 60-J		37764				34809
14 x 2 x 5 (R/1-8 x 1) T5 46-H	34241	37724	34480	59024	58043	34811
14 x 2 x 5 (R/1-8 x 1) T5 46-I		37725	34481		58044	34812
14 x 2 x 5 (R/1-8 x 1) T5 46-J		37751	34482			34813
14 x 2 x 5 (R/1-8 x 1) T5 46-K			34483			34814
14 x 2 x 5 (R/1-8 x 1) T5 60-I						34816
14 x 2 x 5 (R/1-8 x 1) T5 60-J		37765	34486			34817
14 x 2 x 5 (R/1-8 x 1) T5 60-K		37726	34487		58045	
14 x 2 x 5 (R/2-8 x $\frac{3}{8}$ ) T7 46-H		37752				
14 x 2 x 5 (R/2-8 x $\frac{3}{8}$ ) T7 46-I		37727	34488		58046	
14 x 2 x 5 (R/2-8 x $\frac{3}{8}$ ) T7 46-J		37766	34489		58047	
14 x 2 x 5 (R/2-8 x $\frac{3}{8}$ ) T7 46-K			34490	59058		
14 x 2 x 5 (R/2-8 x $\frac{3}{8}$ ) T7 60-J	34116	37753		59059		
16 x 1 $\frac{1}{2}$ x 5 T1 46-H			34491			
16 x 1 $\frac{1}{2}$ x 5 T1 60-H			34500			
16 x 1 $\frac{1}{2}$ x 5 T1 60-J			34493			
16 x 2 x 5 T1 46-I			34495			
16 x 2 x 5 T1 46-J			34496			
16 x 2 x 5 T1 60-K			34497			

# Surface Grinding Wheels

## Tool Steel Classifications



Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability
<b>Air-Hardening Medium Alloy Cold Work Tool Steels</b>		<b>Carbon-Tungsten Tool Steels</b>		<b>Molybdenum Hot Work Tool Steels</b>		<b>Molybdenum High-Speed Tool Steels (cont.)</b>		<b>Oil-Hardened Cold Work Tool Steels</b>		<b>Tungsten High-Speed Tool Steels</b>	
A2	1	F1	2	H41	2	M6	3	O1	1	T1	2
A3	1	F2	2	H42	2	M7	3	O2	1	T2	2
A4	1	F3	2	H43	2	M8	2	O6	1	T3	3
A5	1	<b>Chromium Hot Work Tool Steels</b>		<b>Low-Alloy Special Purpose Tool Steels</b>		M10	2	O7	1	T4	2
A6	1	H10	1	L1	1	M15	4	<b>Mold Steels</b>		T5	3
A7	1	H11	1	L2	1	M20	2	P1	1	T6	3
A8	1	H12	1	L3	1	M25	2	P2	1	T7	2
A9	1	H13	1	L4	1	M30	2	P3	1	T8	2
A10	1	H14	1	L5	1	M33	3	P4	1	T9	4
<b>Air-Hardening Medium Alloy Cold Work Tool Steels</b>		H16	1	L6	1	M34	3	P5	1	T15	4
D1	2	H17	1	L7	1	M35	3	P6	1	T20	4
D2	3	<b>Tungsten Hot Work Tool Steels</b>		<b>Molybdenum High-Speed Tool Steels</b>		M40	3	P20	1	<b>Water-Hardening Tool Steels</b>	
D3	2	H20	1	M1	2	M41	3	P21	1	W1	1
D4	2	H21	1	M2	2	M42	3	<b>Shock-Resisting Tool Steels</b>		W2	1
D5	2	H22	1	M3	3	M43	3	S1	1	W3	1
D6	2	H23	1	M4	4	M44	3	S2	1	W4	1
D7	4	H24	1			M45	3	S3	1	W5	1
		H25	1			M50	3	S4	1	W7	1
		H26	1			M52	3	S5	1		
								S6	1		
								S7	1		



**New** **Porous Surface Grinding Wheels**

Description and Applications

- Engineered for medium and heavy stock removal and heat sensitive applications
- Strong, innovative bonds for tough applications
- Porous grinding wheels accelerate grinding processes
- CGW has multiple grains options to match all your applications goals

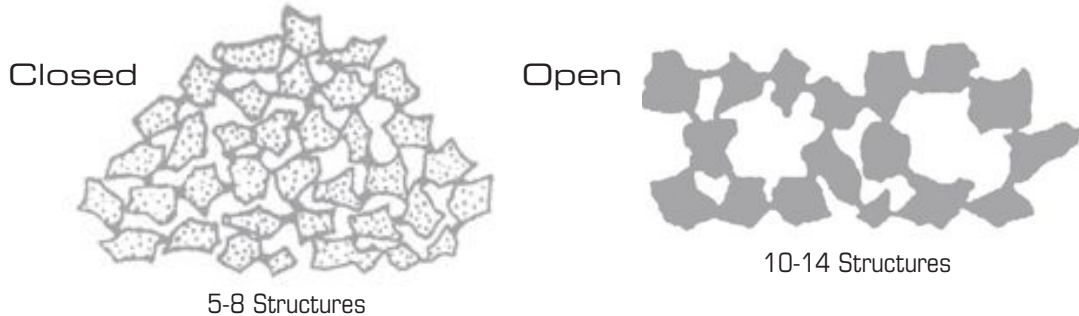
- AS3:** Heavy stock removal & heat sensitive applications.
- 32A:** Built for flexibility in stock removal.
- RA:** For medium to heavy stock removal & heat sensitive applications.
- PA:** For light to medium stock removal & heat sensitive applications.



Porous Surface Grinding Wheels Selection Chart				
SIZE - GRIT - HARDNESS	AS3 Ceramic	32A	RA Ruby	PA Pink
7 x 1/2 x 1 1/4 T1 46-G12	34249	37786	59080	
7 x 1/2 x 1 1/4 T1 46-H12	34250	37787	59081	58062
7 x 1/2 x 1 1/4 T1 60-H12	34251	37788	59082	58063
8 x 1/2 x 1 1/4 T1 46-G12	34252	37789		
8 x 1/2 x 1 1/4 T1 46-H12	34253	37790	59084	58065
8 x 1/2 x 1 1/4 T1 60-H12	34254	37791	59085	58066
10 x 1/2 x 1 1/4 (+bushing to 3/4) T1 60-H12		37796	59090	58071
10 x 1 x 1 1/4 T1 46-H12		37797	59091	58072
12 x 1 1/2 x 5 T5 46-H12	34255	37792	59086	58067
14 x 1 1/2 x 5 T1 46-H12	34256	37793	59087	58068
14 x 1 1/2 x 5 T5 46-H12	34257	37794	59088	58069
14 x 2 x 5 T5 46-H12	34258	37795	59089	58070

**Structure**

Wheel structure is the spacing of the grain in the wheel. The grain is held in position by the bond, the closer the grains (the smaller the pores), the lower the structure. The further apart the grains (the larger the pores), the higher the structure.



## Mounted Points

### Premium Pink Aluminum Oxide

#### Description and Applications

- Used in almost every industry but primarily in tool and die shops, and foundries. General applications: Deburring, tool sharpening, finishing cavities, and removes mold marks and parting lines.
- Mounted points are classified by shape groups A, B, and W.
- The semi-friable pink PA abrasive is used to produce sharp, consistent cutting action.



### A-Shape Mounted Points

R.P.M.\*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
35951	A-1	7/8 x 2 1/2	1/4 Shank	10	20
35953	A-3	7/8 x 2 3/4	1/4 Shank	10	20
35954	A-4	1 1/4 x 1 1/4	1/4 Shank	10	20
35955	A-5	3/4 x 1 1/8	1/4 Shank	10	20
35957	A-11	7/8 x 2	1/4 Shank	10	20
35975	A-38	1 x 1	1/4 Shank	10	20

### B-Shape Mounted Points

R.P.M.\*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
35980	B-44	7/32 x 3/8	1/8 Shank	10	20
35985	B-52	3/8 x 3/4	1/8 Shank	10	20
36009	B-132	3/8 x 1/2	1/8 Shank	10	20

### W-Shape Mounted Points

R.P.M.\*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
36042	W-189	1/2 x 1	1/8 Shank	10	20
36058	W-220	1 x 1	1/4 Shank	10	20
36060	W-222	1 x 2	1/4 Shank	10	20
36067	W-236	1 1/2 x 1/2	1/4 Shank	10	20

\* No matter what factors of wheel size, shape, specification, mandrel size, overhang, or machine conditions are changed, the speed of 10,000 SFPM shall not be exceeded.



New

## POINT-OF-PURCHASE DISPLAY

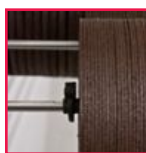
### FLEXIBLE • MIX & MATCH TO YOUR NEEDS

Whether you have space for two, four (as shown on front), or six display row racks, the new CGW point-of-purchase display will fit your requirements. The modular display racks can be placed on pegboard or slat wall and side-by-side or in a row – You Decide What's the Best Option for Your Showroom.

#### Display Row Rack (#99100)



Sturdy metal construction with four hooks, eye catching channel signage (#99101), rubber inventory clips and handy re-order tags.



Inventory Clip  
#99104



Re-Order Tag  
#99000

#### 2-Pocket Chop Saw Wheel Rack (#99102)



Two strong metal pockets easily hold up to 10 wheels (one carton) in each pocket. Chop saw wheel labels are clearly seen for quick wheel selection.



Pegboard display NOT included.

#### 4-Color Display Signage



Main header (#99103) is 8" (H) x 24" (W); double-sided tape at top for simple attachment.



Display row rack channel sign (#99101) is 2" (H) x 24" (W); one double-sided tape strip for permanent attachment.

#### Tips

- Flexible. You select the CGW items to display.
- Peg hooks are uniformly spaced 5-1/2" between each hook. Spacing allows for a variety of product mixes on one row including 7" wheels/discs. (Note: 7" products must be hung next to 4-1/2" or smaller products. Larger products will overlap.)
- Racks may be placed side-by-side or in a row.

MERCHANDISERS

UPC	PAGE #	UPC	PAGE #	UPC	PAGE #	UPC	PAGE #
30001 - 30036	.25	35634 - 35635	.78	36189 - 36190	.78	37772 - 37777	.116
31011 - 31265	.22	35636 - 35637	.83	36203	29, 31	37779 - 37783	.117
34114	.115	35638 - 35639	.78	36204 - 36206	.33	37786 - 37797	.119
34115 - 34116	.117	35640 - 35641	.80	36207 - 36218	42, 67	38003 - 38015	.111
34206 - 34215	.115	35642 - 35643	.81	36219 - 36228	.78	38016 - 38044	.112
34217 - 34227	.116	35644 - 35645	.80	36229 - 36230	.79	38046 - 38055	.113
34230 - 34243	.117	35646 - 35647	.81	36231 - 36232	.81	38111 - 38126	.111
34249 - 34258	.119	35648 - 35649	.78	36233	.86	38161 - 38206	.112
34301 - 34359	.115	35650 - 35651	.83	36234	.88	38501 - 38512	.111
34360 - 34435	.116	35652 - 35653	.78	36235 - 36237	.27	38513 - 38529	.112
34440 - 34500	.117	35654 - 35655	.80	36238 - 36240	.93	38531 - 38535	.113
34600 - 34683	.115	35656 - 35657	.81	36241 - 36243	.66	38562 - 38626	.111
34685 - 34776	.116	35658 - 35659	.80	36244 - 36249	.79	38663 - 38706	.112
34777 - 34817	.117	35660 - 35661	.81	36250	42, 67	39202 - 39605	.23
35005 - 35053	.110	35662 - 35667	.79	36255 - 36264	.81	39722 - 39745	.13
35107 - 35114	.113	35670	.88	36265 - 36282	.82	39802 - 39835	.23
35500 - 35512	.84	35671	.78	36283 - 36288	.66	39903 - 39939	.40
35514	.72	35672	.81	36289 - 36290	.83	39941 - 39956	.41
35515	.74	35673 - 35674	.80	36292 - 36294	.27	39960 - 39999	.42
35516	.72	35675 - 35676	.78	36301 - 36304	.74	40002 - 40006	.40
35517	.72	35677 - 35678	.80	36310 - 36327	.17	40007 - 41008	.42
35518	.72	35679 - 35683	.79	36328 - 36339	.19	41015 - 41017	.40
35573 - 35574	.86	35685 - 35686	.88	36348 - 36350	.17	41018 - 41020	.41
35575 - 35576	.88	35687 - 35691	.84	36400 - 36409	.80	41025 - 41031	.46
35577	.87	35697 - 35698	.83	36450 - 36461	43, 68	41032 - 41039	.40
35578	.88	35699	.81	37098 - 37105	.40	41044	.41
35579 - 35585	.87	35830 - 35847	.27	37510 - 37525	.83	41045 - 41101	.46
35587 - 35589	.90	35851	.88	37530 - 37535	.80	41121 - 41530	.41
35590 - 35598	.91	35900 - 35901	.93	37540	.83	41608	.42
35599 - 35600	.90	35951 - 36067	.120	37543	.80	41630 - 41631	.40
35601 - 35606	.91	36102 - 36105	.81	37545 - 37555	.83	41701 - 42012	.20
35608	.92	36106 - 36112	.83	37573 - 37574	.86	42101 - 42376	.14
35609	.78	36113 - 36115	.90	37670	.79	42401 - 42455	.12
35610	.81	36116 - 36117	.91	37671	.87	42500 - 42575	.15
35611	.80	36122	.88	37672	.92	42601 - 42655	.12
35612 - 35617	.78	36123 - 36125	.89	37673	.87	42700 - 42775	.15
35618 - 35619	.83	36126	.90	37700 - 37711	.115	42801 - 42835	.12
35620 - 35621	.80	36133	.88	37712 - 37715	.116	43081 - 43271	.24
35622 - 35623	.81	36142 - 36143	.90	37716 - 37727	.117	43320 - 43343	.21
35624 - 35626	.80	36144 - 36147	.91	37728 - 37736	.115	45001 - 45002	.73
35627	.81	36156 - 36157	.83	37737 - 37744	.116	45003 - 45005	.75
35628	.80	36158 - 36159	.90	37745 - 37753	.117	45006	.75
35629	.81	36160 - 36161	.91	37754 - 37755	.116	45007 - 45008	.73
35630 - 35631	.78	36162 - 36163	.92	37756 - 37766	.117	45009	.75
35632 - 35633	.80	36173 - 36180	.85	37767 - 37771	.115	45010 - 45016	.72

UPC	PAGE #	UPC	PAGE #	UPC	PAGE #	UPC	PAGE #
45017	.75	48226	.33	59512 - 59579	.35	62453 - 62487	.97
45019 - 45032	.76	48226	.65	59587 - 59600	.34	62493 - 62526	.98
45036	.80	48227	.84	59608 - 59616	.38, 67	62604 - 62614	.94
45037 - 45038	.78	48228	.81	59621 - 59683	.37	62621 - 62634	.95
45039 - 45040	.80	48229	.33	59696 - 59709	.36	62642 - 62658	.96
45041 - 45042	.74	48230 - 48236	.30	59717 - 59723	.35	62668 - 62669	.98
45043	.78	48239 - 48240	.33	59728 - 59731	.38	63002 - 63091	.47
45045	.79	48245	.84	59732 - 59738	.25, 38	70000 - 70028	.64
45046	.76	48250	.42	59900 - 59927	.34	70029 - 70037	.65
45047	.73	48251 - 48252	.29, 31	59940 - 59967	.36	70038 - 70056	.63
45048 - 45049	.80	48320 - 48434	.32	60000	.104	70057 - 70093	.43
45050 - 45051	.72	48501 - 48519	.29	60001 - 60055	.100	70094 - 70104	.77
45052	.78	48528 - 48542	.31	60060 - 60127	.101	70105 - 70109	.86
45053	.81	48621 - 48626	.29	60130 - 60196	.102	70110	.88
45066	.84	48711 - 48726	.28	60200 - 60213	.104	70111	.86
45071 - 45072	.87	48731 - 48746	.29	60220 - 60230	.105	70112 - 70113	.88
45080	.74	48801 - 48836	.30	60500 - 60526	.106	70114 - 70115	.73
45081 - 45082	.80	48881 - 48906	.31	60535 - 60565	.107	70120 - 70125	.26, 68
45085 - 45088	.84	48921 - 48926	.30	60575 - 60593	.108	70130 - 70149	.58
45089	.87	49000 - 49043	.93	60650 - 60665	.109	70150 - 70160	.59
45098	.73	49233	.29	61000 - 61031	.48	70211 - 70212	.39
45099	.75	49501 - 49531	.33	61032 - 61071	.49	70220 - 70225	.92
45100 - 45102	.72	49532 - 49537	.65	61072 - 61087	.50	71000 - 71150	.39
45103	.73	51000 - 51008	.113	61088 - 61147	.51	71151	.66
45104	.74	52321 - 52375	.18	61148 - 61189	.53	72000 - 72045	.60
45105 - 45106	.72	53001 - 53075	.15	61190 - 61234	.54	72050 - 72073	.61
45113 - 45114	.76	54001 - 54065	.16	61235 - 61273	.55	72100 - 72109	.44
45200 - 45207	.79	56002 - 56186	.24	61274 - 61310	.56	72110 - 72119	.45
45208 - 45209	.83	58000 - 58026	.115	61500 - 61523	.48	99100 - 99103	.122
45210 - 45217	.78	58027 - 58038	.116	61524 - 61553	.49		
45218 - 45223	.77	58039 - 58050	.117	61554 - 61571	.50		
45224	.72	58062 - 58072	.119	61572 - 61589	.52		
45225	.73	59001 - 59009	.115	61590 - 61601	.53		
45226 - 45227	.72	59010 - 59018	.116	61602 - 61607	.54		
45228	.73	59019 - 59024	.117	61608 - 61613	.53		
45229 - 45232	.74	59025 - 59029	.115	61614 - 61619	.54		
45233	.75	59042 - 59059	.117	61620 - 61637	.56		
48000 - 48028	.28	59060 - 59063	.62	62001 - 62057	.94		
48030 - 48049	.29	59080 - 59091	.119	62065 - 62113	.95		
48100 - 48146	.30	59100 - 59101	.79	62116 - 62150	.96		
48181 - 48206	.31	59102 - 59108	.85	62153 - 62187	.97		
48218 - 48224	.33	59109 - 59110	.86	62193 - 62226	.98		
48224	.65	59111 - 59116	.85	62301 - 62357	.94		
48225	.33	59200 - 59211	.62	62365 - 62413	.95		
48225	.65	59503 - 59511	.38, 67	62416 - 62450	.96		





# CGW

**CAMEL GRINDING WHEELS**

CGW-Camel Grinding Wheels is one of the world's leading suppliers of grinding wheels since 1956. Providing superior quality products (complying with ISO 9001: 2000 standards) and service at competitive prices has led to our rapid world wide growth.

We encourage you to contact a CGW sales representative to obtain samples for testing. You'll immediately realize the advantages CGW offers.



CGW, Camel Grinding Wheels plant in Kibbutz Sarid, Israel





90,000 square foot CGW, Camel Grinding Wheels facility in Niles, IL USA.

### ***oSa – The Missing Element for Safety***

CGW-Camel Grinding Wheels, is a proud member of the international organization oSa ([www.osa-abrasives.org](http://www.osa-abrasives.org)). oSa – the Organization for the Safety of Abrasives – is a society formed by leading international abrasive manufacturers to ensure the quality of their products is consistently high and adheres to standards to minimize risks to product users.

In the year 2000, a collective of European abrasive manufacturers recognized the need for global abrasive safety requirements and created oSa. oSa members voluntarily agree to manufacture market safe and accident-preventing quality abrasives in accordance with European safety standards and oSa testing regulations. oSa member products are monitored for conformity with the most up-to-date standards and provisions. Products marked with the oSa logo reflect high-grade production and high safety test standards.

As a member of oSa, CGW excels at minimizing the potential for risk by controlled production, adherence to and implementation of quality assurance measures and thorough in-company production. When purchasing bonded abrasive products, insist the manufacturer is an official oSa member for quality, safe products.





**7525 North Oak Park Ave., Niles, IL 60714**  
**Ph: 800-447-4248 • Fax: 800-447-3731**  
**[www.cgwheels.com](http://www.cgwheels.com)**

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