



METAL FABRICATION & INDUSTRIAL PRODUCT CATALOG

CUT • GRIND • FINISH • POLISH



www.cgwcamel.com

New Products for 2018

NEW PRODUCTS



E3 Green Grinding Wheels

High removal rate
Contaminant-Free Wheels

Pages 110

New

Quickie Cut™ EXTREME 2 Cut-off Wheels

40% performance increase

Pages 98 - 101



New



Corner Flap Discs

Solution for Fillet
Welding application

Pages 21 - 22

New



Ceramic Die Grinder Wheels

Premium Ceramic grain & grinding for free cutting and longer life

Pages 118

Aluminum Application Die Grinder Wheels

Designed with a non-loading bond specially for **Aluminum**

Pages 118



Fast Cut FGF Wheels

Absorb vibrations and provide extended working life

Pages 112

Fast Cut Type 1 Bench Wheels

Economy choice with excellent performance and price!

Pages 166



WHEEL SPECIFICATIONS

Analysis of Typical Wheel Specifications



**MAXIMUM
OPERATING
SPEED**

4 1/2 x 1/4 x 7/8 A 24R



CGW Resin Bond 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.



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

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. Contaminant-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.



Z-PC – Zirconia Poly/Cotton:

Quality zirconia grain on a poly/cotton heat treated backing for strong, long lasting performance. Contaminant-free results; stainless steel won't rust.



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*Products released since January 2015 are categorized as NEW.

USA MADE FLAP DISCS

CGW - USA Flap Disc Market Leader



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-PC, Z-THRU) backing provides greater strength for grain retention, low stretch, and is tougher than typical cotton cloths.

Backing Plate: Fiberglass, trimmable (see pg 12).

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 (all Trimmable Flap Discs are compact). See illustrations on page 7.

4-1/2" Z3® has five disc densities: Compact, Trimmable and Ultimate have 20 - 25% more material than regular discs. XI and XXL have 35 - 80% more material than regular discs.

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

FEATURES & BENEFITS

CGW's Dual Label Same Material & Flap Configuration



Baked on label

#42342 Flap Disc with **7/8 ARBOR**



#42352 Flap Disc with **5/8-11 HUB**



CGW's Dual Label

One label with two UPC numbers. When a 5/8-11 hub is on the product, the UPC number and barcode listed on right hand side is the number of the product.

XL40 Grit - The Production Grinding Workhorse

TASK APPLICATION	RECOMMENDED FLAP DISC MATERIAL	SIZES AVAILABLE
Metal/Weld Removal	Z3® / C3	4, 4-1/2, 5, 6, 7
Stainless Steel	Z-Stainless / Z3® / C3	Z3® - 4, 4-1/2, 5, 6, 7 Z-Stainless - 4 1/2, 5, 7
Precise Welds	Z-THRU®	4-1/2, 5
Aluminum	Aluminum / A3	A3 - 4, 4-1/2, 5, 7 Aluminum - 4-1/2, 5, 7
Non Ferrous Metals/Soft Metals	A3	4, 4-1/2, 5, 7

What Type (Shape) Of CGW Flap Disc To Use



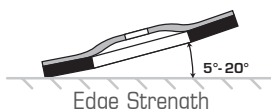
Smooth Finishing

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.

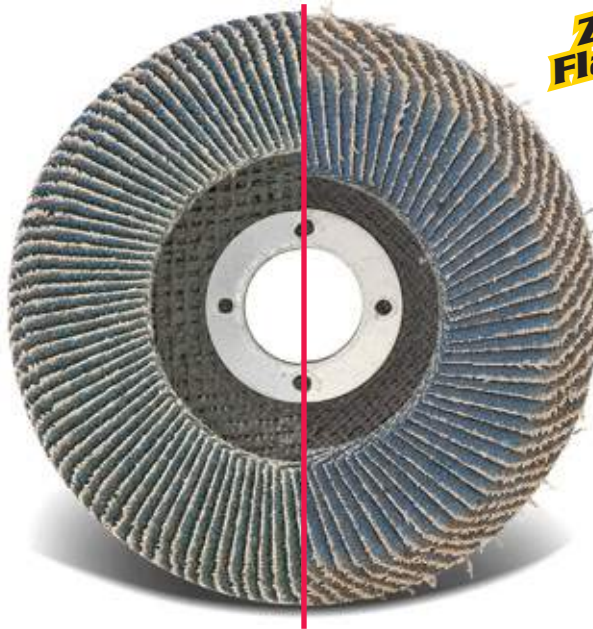
USA MADE FLAP DISCS



**CGW XXL Z3® Flap Discs
Outgrind the Competition***

**Z3® is the best
Flap Disc material
in the world!**

CGW XXL Z3® Flap Disc



Top Competitor Flap Disc
1/3 less life

**5 Material
Configurations**

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

CGW 4-1/2 Z3® Flap Disc Material Comparison

Flap Disc Type



Regular (pg 16-17) – Fast removal rate for aggressive use and heavy duty applications.



Compact (pg 12-13) – Hybrid compact disc design – Flaps are compressed and compacted at a 4 degree angle. **20% more material** than regular Z3® flap discs.



Ultimate (pg 18) – 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.



XL (pg 16-17) – Approximately **35-55% more material** than regular Z3® flap discs.



XXL (pg 19) – **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

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.



USA MADE FLAP DISCS

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.

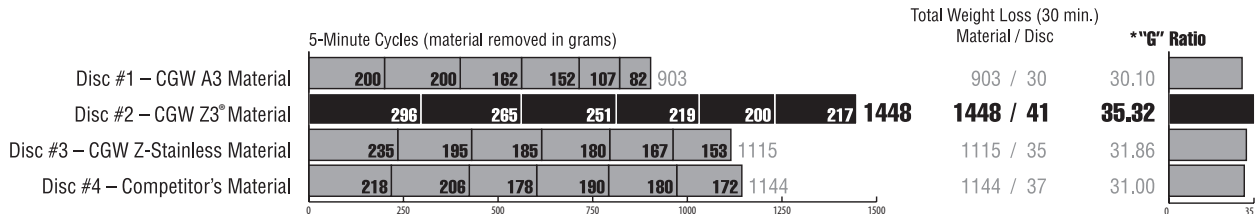
"G" Ratio

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.

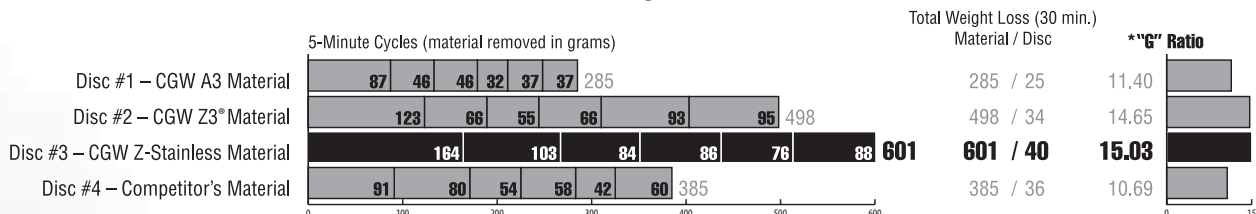
Conclusion

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.

Conclusion

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



USA MADE FLAP DISCS



View Video
youtube.com/CGWCamel



CGW USA



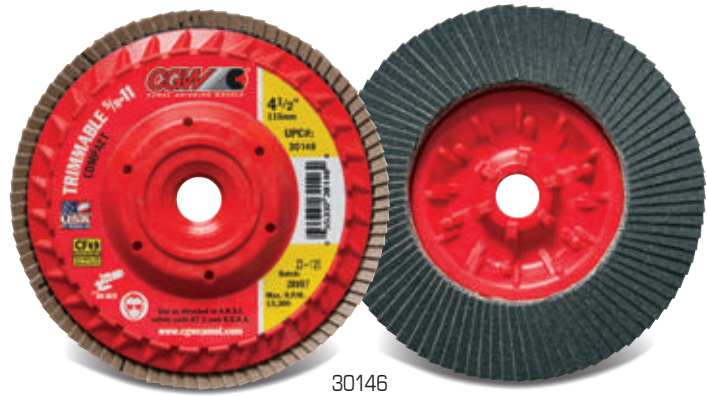
TRIMMABLE FLAP DISCS

Compact C3, Z3®, Z4 & Z-PC 5/8-11

Trimmable Flap Discs

USA Made Flap Discs

- **C3 (Ceramic)** for aggressive cutting action. Self-sharpening ceramic grain and cool grinding aid. Ideal for hard-to-grind materials including steel and other heat sensitive materials.
 - 4-1/2" has 20% more material than 7/8" trimmable.
 - 5" has 10% more material than 7/8" trimmable.
- **Z3® (Zirconia)** for fast, long-lasting grinding. 20% more material than regular Z3® flap discs. Ideal for heavy-duty applications.
 - 6" Z3® is XL.
- **Z-PC** quality zirconia grain with a poly/cotton heat treated backing. The poly/cotton backing provides low stretch and strength.



Compact C3, Z3® & Z-PC 5/8-11 Trimmable Flap Discs

SIZE	GRIT	RPM	CARTON QTY	C3 CERAMIC UPC#	Z3® ZIRCONIA UPC#	Z-PC REGULAR UPC#	Z-PC XL UPC#
4-1/2 x 5/8-11	36	13,300	10				
4-1/2 x 5/8-11	40	13,300	10	30202*	30142*	30172	30262 XL
4-1/2 x 5/8-11	60	13,300	10	30204*	30144*	30174	30264 XL
4-1/2 x 5/8-11	80	13,300	10	30205*	30145*	30175	30265 XL
4-1/2 x 5/8-11	120	13,300	10		30146*	30176	30266 XL
5 x 5/8-11	40	12,200	10	30212*	30152*		
5 x 5/8-11	60	12,200	10	30214*	30154*		
5 x 5/8-11	80	12,200	10	30215*	30155*		
5 x 5/8-11	120	12,200	10		30156*		
6 x 5/8-11	40	10,200	10	30222	30162 XL		
6 x 5/8-11	60	10,200	10	30224	30164 XL		
6 x 5/8-11	80	10,200	10	30225	30165 XL		
6 x 5/8-11	120	10,200	10		30166 XL		

- *C3 (Ceramic) has 20% more material than C3 trimmable discs (page 13).
- *Z3 (Zirconia) has 20% more material than Z3 regular discs (page 16).
- Hybrid compact design (4-1/2", 5" and 6") - Flaps are compressed and compacted at a 4 degree angle for edge strength and longer life.



Side View

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



View Video

youtube.com/CGWCamel



CGW USA



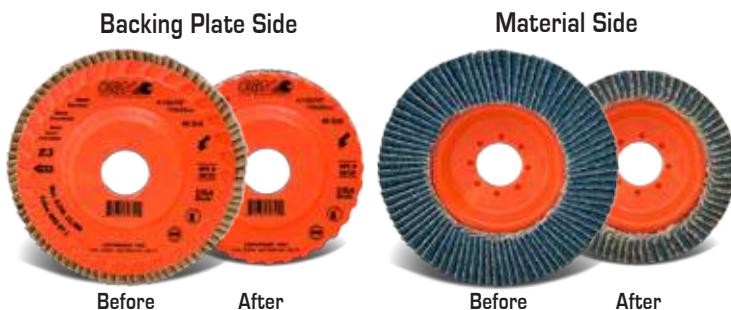
Compact C3 & Z3[®] Trimable Flap Discs USA Made Flap Discs

- Time is Money. Trimming the backing allows for more of the disc to be used for fewer disc changes and better production rates.
- Easy Trimming. Simply angle the backing edge against a hard metal to expose more flap material.
- Easier Heavy Duty Jobs. Stiff backing construction paired with a **compacted 4 degree flap angle** makes grinding easier, quieter and with less vibration.
- C3 (Ceramic) for aggressive cutting action. Self-sharpening ceramic grain and cool grinding aid. Ideal for hard-to-grind materials including steel and other heat sensitive materials.
- Z3[®] (Zirconia) for fast, long-lasting grinding.
* 20% more material than regular Z3[®] flap discs (page 16). Ideal for heavy-duty applications.



Compact C3 & Z3[®] Trimable Flap Discs

SIZE	GRIT	RPM	CARTON QTY	C3 CERAMIC UPC#	*Z3 [®] ZIRCONIA UPC#
4-1/2 x 7/8	40	13,300	10	42942	39722
4-1/2 x 7/8	60	13,300	10	42944	39724
4-1/2 x 7/8	80	13,300	10	42945	39725
4-1/2 x 7/8	120	13,300	10		39726
4-1/2 x 5/8-11	40	13,300	10	42962	39712
4-1/2 x 5/8-11	60	13,300	10	42964	39714
4-1/2 x 5/8-11	80	13,300	10	42965	39715
4-1/2 x 5/8-11	120	13,300	10		39716
5 x 7/8	40	12,200	10	42952	39742
5 x 7/8	60	12,200	10	42954	39744
5 x 7/8	80	12,200	10	42955	39745
5 x 7/8	120	12,200	10		39746
5 x 5/8-11	40	12,200	10	42972	39734
5 x 5/8-11	60	12,200	10	42974	39735
5 x 5/8-11	80	12,200	10	42975	39736
5 x 5/8-11	120	12,200	10		39737



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

View Video 
youtube.com/CGWCamel



C3 CERAMIC FLAP DISCS

USA MADE FLAP DISCS

C3 Ceramic USA Made Flap Discs

- 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 Contaminant-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.



42402

Flap Disc with Arbor



Side View

Aggressive Cutting

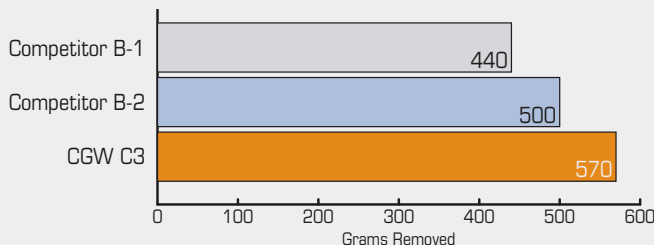
CERAMIC



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

C3 Ceramic Flap Discs - Top in Removal



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

XL Requires high output angle grinders for best results.



42455

Flap Disc with Hub Side View

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

USA MADE FLAP DISCS

PREMIUM Z3® FLAP DISCS

USA MADE FLAP DISCS

Premium Z3® USA Made Flap Discs

- 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.
- **XL** Requires high output angle grinders for best results.



#1 PERFORMER ON CARBON
#2 PERFORMER ON STAINLESS

ZIRCONIA



Regular

XL

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.
200 piece minimum order.

Samples Available for Testing – Contact CGW for Details

Z3® - **#1** SELLING MATERIAL

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 7/8	120	10,200	10	53006	53026	53046	53066
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
6 x 5/8-11	120	10,200	10	53016	53036	53056	53076
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.
200 piece minimum order.

USA MADE FLAP DISCS



Z3[®] ULTIMATE FLAP DISCS

USA MADE FLAP DISCS

Z3[®] Ultimate USA Made Flap Discs

- 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.
- 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.



Selling Flap Disc Material

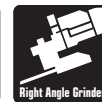


Z3[®] Ultimate XTRA Material

- 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	54001	54021
4-1/2 x 7/8	40	13,300	10	54002	54022
4-1/2 x 5/8-11	36	13,300	10	54011	54031
4-1/2 x 5/8-11	40	13,300	10	54012	54032

Z3[®] Ultimate WIDER & XTRA Material

- 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	T27 UPC#	T29 UPC#
4-1/2 x 7/8	60	13,300	10	54004	54024
4-1/2 x 7/8	80	13,300	10	54005	54025
4-1/2 x 5/8-11	60	13,300	10	54014	54034
4-1/2 x 5/8-11	80	13,300	10	54015	54035
5 x 7/8	60	12,200	10	SM	
5 x 7/8	80	12,200	10	SM	

*Items in gray are discontinued and only available while supplies last.

Z3[®] COMPACT & DOUBLE XXL

Z3[®] Double/XXL USA Made Flap Discs

- 20% more material than XL flap discs.
- Designed for easy working on angled surfaces.
- Extra wide flaps for longer working life.
- **XXL** Requires high output angle grinders for best results.



Z3[®] Double XXL

SIZE	GRIT	RPM	CARTON QTY	T27 UPC#	T29 UPC#
4-1/2 x 7/8	40	13,300	10	36316	36322
4-1/2 x 7/8	60	13,300	10	36317	36323
4-1/2 x 7/8	80	13,300	10	36318	36324
4-1/2 x 5/8-11	40	13,300	10	36319	36325
4-1/2 x 5/8-11	60	13,300	10	36320	36326
4-1/2 x 5/8-11	80	13,300	10	36321	36327
5 x 7/8	40	12,200	10	SM	36348
5 x 7/8	60	12,200	10	SM	36349
5 x 7/8	80	12,200	10	SM	36350

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

USA MADE FLAP DISCS

Replaces Quick Change Discs

MINI FLAP DISCS



2" - 3" Mini Flap Discs Z3® (Zirconia) & C3 Ceramic

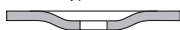
- Z3® Premium Zirconia alumina grain with a poly/cotton heat-treated backing. The poly/cotton combination provides low stretch and strength for long working life.
- Active grinding agent provides cool cutting with only light pressure.
- Contaminant-Free. Contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results. Stainless steel won't rust.
- 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.
- Type 27 shape for smooth finishes.



CERAMIC

ZIRCONIA

Type 27



R-Roll-On



S-Turn-On

Z3® 2"-3" Mini Flap Discs

SIZE	MATERIAL	TYPE	GRIT	RPM	CARTON QTY	TYPE R UPC#	USE HOLDER	TYPE S UPC#	USE HOLDER
2"	Z3® (Zirconia)	T27	36	24,000	10	30001	59732	N/A	N/A
2"	Z3® (Zirconia)	T27	40	24,000	10	30002	59732	30022	59738
2"	Z3® (Zirconia)	T27	60	24,000	10	30004	59732	30024	59738
2"	Z3® (Zirconia)	T27	80	24,000	10	30005	59732	30025	59738
2"	Z3® (Zirconia)	T27	120	24,000	10	30006	59732	30026	59738
3"	Z3® (Zirconia)	T27	36	24,000	10	30011	59734	N/A	N/A
3"	Z3® (Zirconia)	T27	40	24,000	10	30012	59734	30032	59735
3"	Z3® (Zirconia)	T27	60	24,000	10	30014	59734	30034	59735
3"	Z3® (Zirconia)	T27	80	24,000	10	30015	59734	30035	59735
3"	Z3® (Zirconia)	T27	120	24,000	10	30016	59734	30036	59735

New

C3 Ceramic 2"-3" Mini Flap Discs - Roll On

SIZE	MATERIAL	TYPE	GRIT	RPM	CARTON QTY	TYPE R UPC#	USE HOLDER
2"	Ceramic	T27	36	24,000	10	30038	59732
2"	Ceramic	T27	60	24,000	10	30039	59732
2"	Ceramic	T27	80	24,000	10	30040	59732
3"	Ceramic	T27	36	24,000	10	30042	59734
3"	Ceramic	T27	60	24,000	10	30043	59734
3"	Ceramic	T27	80	24,000	10	30044	59734

- Self-sharpening ceramic grain and cool grinding aid for fast, aggressive cutting action on hard-to-grind materials.
- Polyester backing material for longer working life.

Rubber Holder Pads Roll On/Turn On

- Medium grade reinforced rubber pad holder.



Roll-On Rubber Holder Pads

UPC#	SIZE/SPEC	CARTON QTY
59732	For 2" discs	5
59734	For 3" discs	5

Turn-On Rubber Holder Pads

UPC#	SIZE/SPEC	CARTON QTY
59733	2" Dia. x 1/4" / M6	1
59738	M10 For 2" discs	5
59735	For 3" discs	5

CORNER FLAP DISCS



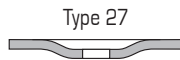
Corner Flap Discs - Z3[®] Zirconia & C3 Ceramic

- Specially designed angle for Fillet Welding application.
- Faster option over grinding wheels that can undercut the work piece.
- C3 Ceramic for aggressive grinding action. Self-sharpening ceramic grain and cool grinding aid is ideal for steel, stainless steel and other heat sensitive materials.
- Z3[®] premium Zirconia grain with poly-cotton heat-treated backing provides low stretch and strength for long working life. Active grinding agent provides cool cutting with light pressure.
- Both C3 & Z3[®] are Contaminant-Free, stainless steel won't rust.



CERAMIC

ZIRCONIA



Corner Flap Discs

SIZE	GRIT	RPM	CARTON QTY	C3 CERAMIC	Z3 [®] ZIRCONIA
4-1/2 x 7/8	36	13,300	10	42910	42020
4-1/2 x 7/8	40	13,300	10	42911	42021
4-1/2 x 7/8	60	13,300	10	42912	42022
4-1/2 x 7/8	80	13,300	10	42913	42023
4-1/2 x 5/8-11	36	13,300	10	42915	42025
4-1/2 x 5/8-11	40	13,300	10	42916	42026
4-1/2 x 5/8-11	60	13,300	10	42917	42027
4-1/2 x 5/8-11	80	13,300	10	42918	42028
5 x 7/8	36	12,200	10	42920	42030
5 x 7/8	40	12,200	10	42921	42031
5 x 7/8	60	12,200	10	42922	42032
5 x 7/8	80	12,200	10	42923	42033
5 x 5/8-11	36	12,200	10	42925	42035
5 x 5/8-11	40	12,200	10	42926	42036
5 x 5/8-11	60	12,200	10	42927	42037
5 x 5/8-11	80	12,200	10	42928	42038
7 x 7/8	36	8,600	10	42930	42040
7 x 7/8	40	8,600	10	42931	42041
7 x 7/8	60	8,600	10	42932	42042
7 x 7/8	80	8,600	10	42933	42043
7 x 5/8-11	36	8,600	10	42935	42045
7 x 5/8-11	40	8,600	10	42936	42046
7 x 5/8-11	60	8,600	10	42937	42047
7 x 5/8-11	80	8,600	10	42938	42048

CORNER MINI FLAP DISCS



Corner Mini Flap Discs - Z3® Zirconia & C3 Ceramic

- Mini flap discs are designed to prevent walking, allow access to tight areas and reduce heat build-up, use with holder.
- Specially designed angle for Fillet Welding application.
- C3 Ceramic for aggressive grinding action. Self-sharpening ceramic grain and cool grinding aid is ideal for steel, stainless steel and other heat sensitive materials.
- Z3® premium Zirconia grain with poly-cotton heat-treated backing provides low stretch and strength for long working life. Active grinding agent provides cool cutting with light pressure.
- Both C3 & Z3® are Contaminant-Free, stainless steel won't rust.



CERAMIC

ZIRCONIA



Type 27



R-Roll-On

Corner Mini Flap Discs

SIZE	TYPE	GRIT	RPM	CARTON QTY	C3 CERAMIC	Z3® ZIRCONIA	USE HOLDER*
2"	R	36	24,000	10		30060	30089
2"	R	40	24,000	10	30072	30061	30089
2"	R	60	24,000	10	30073	30062	30089
2"	R	80	24,000	10	30074	30063	30089
3"	R	36	24,000	10		30066	30090
3"	R	40	24,000	10	30077	30067	30090
3"	R	60	24,000	10	30078	30068	30090
3"	R	80	24,000	10	30079	30069	30090

* Specially designed back up holders #30089 or #30090 are required to use with Corner Mini Flap Discs as noted above.

SILICON CARBIDE FLAP DISCS

SC Ultimate - Silicon Carbide Flap Discs

- 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.

Type 27



SILICON CARBIDE



SC Ultimate

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

SC Ultimate

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

SILICON CARBIDE FLAP DISCS

Z-POLY COTTON

Z-Poly Cotton (PC) USA Made Flap Discs

- Quality zirconia grain with a poly/cotton heat treated backing. The poly/cotton backing provides low stretch and strength.
- For steel and stainless steel.
- XL** Requires high output angle grinders for best results.



41706

Fastest Growing Material



Regular

XL

ZIRCONIA



Z-Poly Cotton



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	41701	41721	41741	41761
4-1/2 x 7/8	40	13,300	10	41702	41722	41742	41762
4-1/2 x 7/8	60	13,300	10	41704	41724	41744	41764
4-1/2 x 7/8	80	13,300	10	41705	41725	41745	41765
4-1/2 x 7/8	120	13,300	10	41706	41726	41746	41766
4-1/2 x 5/8-11	36	13,300	10	41711	41731	41751	41771
4-1/2 x 5/8-11	40	13,300	10	41712	41732	41752	41772
4-1/2 x 5/8-11	60	13,300	10	41714	41734	41754	41774
4-1/2 x 5/8-11	80	13,300	10	41715	41735	41755	41775
4-1/2 x 5/8-11	120	13,300	10	41716	41736	41756	41776
5 x 7/8	40	12,200	10	SM	41802	SM	41842
5 x 7/8	60	12,200	10	SM	41804	SM	41844
5 x 7/8	80	12,200	10	SM	41805	SM	41845
5 x 7/8	120	12,200	10	SM	41806	SM	41846
5 x 5/8-11	40	12,200	10	SM	41812	SM	41852
5 x 5/8-11	60	12,200	10	SM	41814	SM	41854
5 x 5/8-11	80	12,200	10	SM	41815	SM	41855
5 x 5/8-11	120	12,200	10	SM	41816	SM	41856
7 x 7/8	36	8,600	10	41941	41961	SM	SM
7 x 7/8	40	8,600	10	41942	41962	41982	42002
7 x 7/8	60	8,600	10	41944	41964	SM	SM
7 x 7/8	80	8,600	10	41945	41965	SM	SM
7 x 5/8-11	36	8,600	10	41951	41971	SM	SM
7 x 5/8-11	40	8,600	10	41952	41972	41992	42012
7 x 5/8-11	60	8,600	10	41954	41974	SM	SM
7 x 5/8-11	80	8,600	10	41955	41975	SM	SM

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

#1

ON STAINLESS STEEL

Premium Z-Stainless USA Made Flap Discs

- 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.
- **XL** Requires high output angle grinders for best results.



#1 PERFORMER ON STAINLESS
#2 PERFORMER ON CARBON

ZIRCONIA AO
w/GRINDING AID



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

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



PREMIUM A3

Premium A3 USA Made Flap Discs

- Premium Blue Fired A0 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.
- **XL** Requires high output angle grinders for best results.



ALUMINUM OXIDE



Premium A3



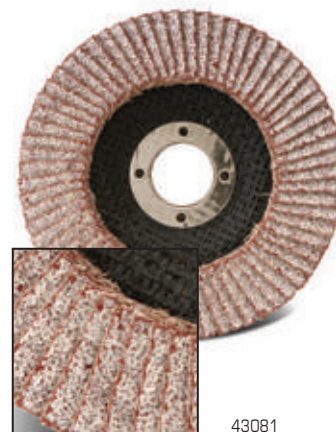
SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 x 5/8	40	15,300	10	39202	SM	39242	SM
4 x 5/8	60	15,300	10	39204	SM	39244	SM
4 x 5/8	80	15,300	10	39205	SM	39245	SM
4 x 3/8-24	40	15,300	10	39212	SM	39252	SM
4 x 3/8-24	60	15,300	10	39214	SM	39254	SM
4 x 3/8-24	80	15,300	10	39215	SM	39255	SM
4-1/2 x 7/8	24	13,300	10	39400	39420	NA	NA
4-1/2 x 7/8	36	13,300	10	39401	39421	SM	SM
4-1/2 x 7/8	40	13,300	10	39402	39422	39442	39462
4-1/2 x 7/8	60	13,300	10	39404	39424	39444	39464
4-1/2 x 7/8	80	13,300	10	39405	39425	39445	39465
4-1/2 x 7/8	100	13,300	10	39407	NA	NA	NA
4-1/2 x 7/8	120	13,300	10	39406	39426	39446	39466
4-1/2 x 5/8-11	24	13,300	10	39410	39430	NA	NA
4-1/2 x 5/8-11	36	13,300	10	39411	39431	SM	SM
4-1/2 x 5/8-11	40	13,300	10	39412	39432	39452	39472
4-1/2 x 5/8-11	60	13,300	10	39414	39434	39454	39474
4-1/2 x 5/8-11	80	13,300	10	39415	39435	39455	39475
4-1/2 x 5/8-11	100	13,300	10	39417	NA	NA	NA
4-1/2 x 5/8-11	120	13,300	10	39416	SM	39456	SM
5 x 7/8	40	12,200	10	SM	39602	SM	SM
5 x 7/8	60	12,200	10	SM	39604	SM	SM
5 x 7/8	80	12,200	10	SM	39605	SM	SM
7 x 7/8	40	8,600	10	39802	SM	39822	SM
7 x 7/8	60	8,600	10	39804	SM	39824	SM
7 x 7/8	80	8,600	10	39805	SM	39825	SM
7 x 5/8-11	40	8,600	10	39812	SM	39832	SM
7 x 5/8-11	60	8,600	10	39814	SM	39834	SM
7 x 5/8-11	80	8,600	10	39815	SM	39835	SM

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

ALUMINUM

Aluminum

- Premium Blue fired AO grain with a polyester heat treated backing.
- Made with non-loading, heavy white calcium coating.
- A3 Material with Calcium Stearate coating liquefies under heat keeping the material cooler and preventing loading with soft materials.
- Recommended use:
 - 36 grit for rough grinding, heavy stock removal or weld removal.
 - 60 grit for deburring, cleaning, finish preparation.
- Use on soft metals such as **aluminum** and blending stainless steel.



43081



43084



Premium A3 with Calcium Stearate Coating



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

USA MADE FLAP DISCS

View Video

youtube.com/CGWCamel



CGW USA



SURFACE CONDITIONING

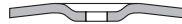
Surface Conditioning Flap Discs

- Premium surface conditioning material for surface preparation.
- Three different grits for blending, deburring, and cleaning.
- For steel and stainless steel.
- Coarse discs (brown) are 120 grit
- Medium discs (maroon) are 180 grit
- Very Fine discs (blue) are 320 grit
- **Please operate at 3,000 RPM for optimal performance.**

Medium/Maroon - **#1 Seller!**
180 grit



Type 29



Very Fine/Blue
320 grit

Coarse/Brown
120 grit

SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC# # 1 Seller!	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	70120	70122	70124
4-1/2 x 5/8-11	13,300	2,700-5,000	10	70121	70123	70125
5 x 7/8	12,200	2,500-4,500	10	70185	70187	70189
5 x 5/8-11	12,200	2,500-4,500	10	70186	70188	70190

Interleaf Flap Discs

Grind & finish with one disc - save time and money

- Stainless steel finishing, light grinding, deburring.
- Alternating flaps of non-woven and coated abrasive materials provide uniform, consistent finishes with very little heat.
- Top size aluminum oxide poly cotton material for cool, yet fast cutting action for long life.
- European made non-woven material for non-smearing high grade finishes.
- Three grit levels of discs for a variety of work including stainless steel, aluminum, brass, steel sheet metal.
- **Please operate at 3,000 RPM for optimal performance.**



Brown - 120 grit

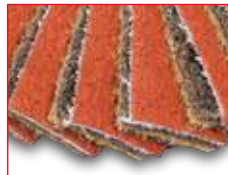
Maroon - 180 grit

Blue - 320 grit

TOP SIZE ALUMINUM OXIDE



Type 29



COARSE



MEDIUM
Perfect satin finish,
achieves #4 finish



VERY FINE
High mirror polish

SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC# # 1 Seller!	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	49686	49687	49688
4-1/2 x 5/8-11	13,300	2,700-5,000	10	49689	49690	46691
5 x 7/8	12,200	2,500-4,500	10	49692	49693	49694
5 x 5/8-11	12,200	2,500-4,500	10	49695	49696	49697

Felt/Wool Discs - Buffing For fast mirror finishes

- Stainless steel, **aluminum**, sheet metal mild steel and brass.
- Flexible felt/wool disc easily works with contoured surfaces for consistent polishing action.
- Cool working action without burning.
- Designed for smooth polishing action.
- 100% virgin wool.
- **MUST USE WITH BUFFING COMPOUND.**
- Please operate at 3,000 RPM for optimal performance.



UPC#	SIZE	RPM	CARTON QTY
49698	4-1/2 x 7/8	13,300	10
49700	4-1/2 x 5/8-11	13,300	10
49699	5 x 7/8	12,200	10
49701	5 x 5/8-11	12,200	10

Buffing Compound

- Compounds will not discolor metals.
- White SS51 (1,200 grit) compound helps buff aluminum, steel, stainless and natural stone to the desired finish without adding scratches. **High gloss finish.**
- Green C-3 (2,000 grit) premium buffing compound works on aluminum, steel and stainless steels and eliminates drag lines while still achieving the desired finish and **maximum luster.**
- Use of buffing compound will extend the life of **aluminum** flap discs.



UPC#	DESCRIPTION	GRIT	COLOR	SIZE (OZ)	CARTON QTY
49652	White SS51 Polishing Compound	1,200	White	5.6	1
49653	Green C-3 Polishing Compound	2,000	Green	5.6	1

SEMI-FLEX RED FIBRE BACKING

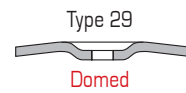
Semi-Flex Discs - Red Fibre Backing

- **Silicon Carbide (C)** for aggressive grinding on 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. Excellent on materials such as...
 - Cold rolled, Stainless steel, Bronze, Aluminum, Iron.



C Silicon Carbide

A Aluminum Oxide



4 1/2 x 7/8 - Domed 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
49625	50-B	A-50-B	25
49626	60-B	A-60-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 - Domed 8,500 R.P.M.

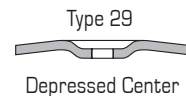
UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY
35839	16-B	A-16-B	25
35840	24-B	A-24-B	25
35841	36-B	A-36-B	25
49633	50-B	A-50-B	25
49634	60-B	A-60-B	25
35842	16-B	C-16-B	25
35843	24-B	C-24-B	25
35844	36-B	C-36-B	25
49685	50-B	C-50-B	25
35845	60-B	C-60-B	25
35846	80-B	C-80-B	25
35847	120-B	C-120-B	25

5 x 7/8 - Domed 12,250 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY
49627	16-B	A-16-B	25
49628	24-B	A-24-B	25
49629	36-B	A-36-B	25
49630	50-B	A-50-B	25
49631	60-B	A-60-B	25
49632	50-B	C-50-B	25



SILICON CARBIDE



Economy Semi-Flex Discs - Red Fibre Backing

4 1/2 x 7/8 - Depressed Center 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 - Depressed Center 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

*Carton contains four shrink-wrapped packages of five discs.

SEMI-FLEX DISCS - RIGID

Semi-Flex Discs - Rigid Strong, Phenolic Backing

- Rigid phenolic (fiberglass) backing for aggressive grinding applications.
- Phenolic backings are stronger than plastic and vulcanized fiber backings.
- Rigid disc design allows for more control when grinding corners and edges.
- Made for unlimited storage life. No deformation due to use, heat or humidity.
- Use wet or dry. **No back-up pad needed.**
- **Silicon Carbide discs for:** Concrete prep work – cleaning, grinding, sanding floors and walls. Floor coating removal – epoxy, glue, urethane, coatings, mastiks. Stone, brick and masonry. Non-ferrous metals. Fiberglass.
- **Aluminum Oxide discs for:** Metal fabrication, cast iron and foundry.



SILICON CARBIDE

ALUMINUM OXIDE



Type 27



SEMI-FLEX DISCS

4 1/2" Diameter - Depressed Center 13,300 R.P.M.

UPC#	SIZE	SPEC.	CARTON QTY
49582	4-1/2 x 7/8	A-16-B	25
49584	4-1/2 x 7/8	A-24-B	25
49586	4-1/2 x 7/8	A-36-B	25
49583	4-1/2 x 5/8-11	A-16-B	10
49585	4-1/2 x 5/8-11	A-24-B	10
49587	4-1/2 x 5/8-11	A-36-B	10
49606	4-1/2 x 7/8	C-16-B	25
49608	4-1/2 x 7/8	C-24-B	25
49610	4-1/2 x 7/8	C-36-B	25
49607	4-1/2 x 5/8-11	C-16-B	10
49609	4-1/2 x 5/8-11	C-24-B	10
49611	4-1/2 x 5/8-11	C-36-B	10

7" Diameter - Depressed Center 8,600 R.P.M.

UPC#	SIZE	SPEC.	CARTON QTY
49594	7 x 7/8	A-16-B	25
49596	7 x 7/8	A-24-B	25
49598	7 x 7/8	A-36-B	25
49595	7 x 5/8-11	A-16-B	10
49597	7 x 5/8-11	A-24-B	10
49599	7 x 5/8-11	A-36-B	10
49618	7 x 7/8	C-16-B	25
49620	7 x 7/8	C-24-B	25
49622	7 x 7/8	C-36-B	25
49619	7 x 5/8-11	C-16-B	10
49621	7 x 5/8-11	C-24-B	10
49623	7 x 5/8-11	C-36-B	10

5" Diameter - Depressed Center 12,250 R.P.M.

UPC#	SIZE	SPEC.	CARTON QTY
49588	5 x 7/8	A-16-B	25
49590	5 x 7/8	A-24-B	25
49592	5 x 7/8	A-36-B	25
49589	5 x 5/8-11	A-16-B	10
49591	5 x 5/8-11	A-24-B	10
49593	5 x 5/8-11	A-36-B	10
49612	5 x 7/8	C-16-B	25
49614	5 x 7/8	C-24-B	25
49616	5 x 7/8	C-36-B	25
49613	5 x 5/8-11	C-16-B	10
49615	5 x 5/8-11	C-24-B	10
49617	5 x 5/8-11	C-36-B	10

CERAMIC PREMIUM DISCS



Premium Ceramic 2 Resin Fibre Discs

- Improved grain technology allows for 30-40% higher stock removal rates and longer product life, when compared to traditional ceramic grain.
- Advanced grinding aid for cool cutting technology that reduces heat and increases performance.
- Suitable for high pressure grinding applications.

CERAMIC



**30 - 40%
product performance
increase over traditional
ceramic grain products**



View Video

youtube.com/CGWCamel



CGW USA



SIZE	SPEC.	RPM	CARTON QTY	UPC#
4-1/2 x 7/8	24 Grit	13,300	25	59801
4-1/2 x 7/8	36 Grit	13,300	25	59802
4-1/2 x 7/8	60 Grit	13,300	25	59803
4-1/2 x 7/8	80 Grit	13,300	25	59804
5 x 7/8	24 Grit	12,200	25	59805
5 x 7/8	36 Grit	12,200	25	59806
5 x 7/8	60 Grit	12,200	25	59807
5 x 7/8	80 Grit	12,200	25	59808
7 x 7/8	24 Grit	8,600	25	59809
7 x 7/8	36 Grit	8,600	25	59810
7 x 7/8	60 Grit	8,600	25	59811
7 x 7/8	80 Grit	8,600	25	59812

Resin Fibre Discs *Ceramic Blend with Grinding Aid*

- Premium 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**.

CERAMIC

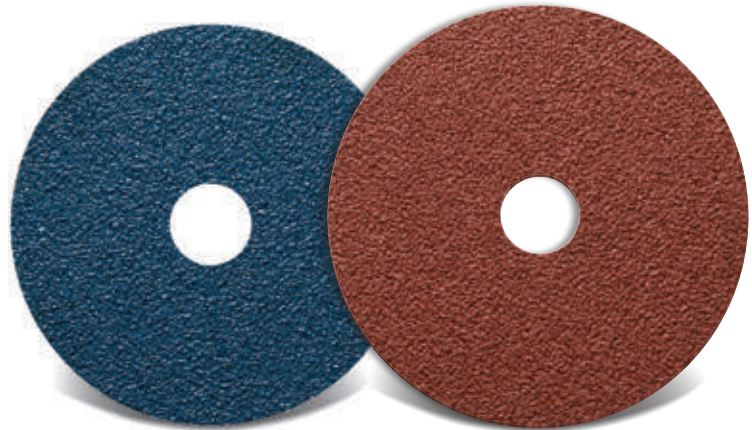


SIZE	SPEC.	RPM	CARTON QTY	UPC#	QUICK LOCK UPC#
4-1/2 x 7/8	24 Grit	13,300	25	48181	48881
4-1/2 x 7/8	36 Grit	13,300	25	48182	48882
4-1/2 x 7/8	50 Grit	13,300	25	48184	48884
4-1/2 x 7/8	60 Grit	13,300	25	48185	48885
4-1/2 x 7/8	80 Grit	13,300	25	48186	48886
5 x 7/8	24 Grit	12,200	25	48191	48891
5 x 7/8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

PREMIUM RESIN FIBRE DISCS

New Premium Resin Fibre Discs - Aluminum Oxide & Zirconia

- Made with premium grains using **NEW** world class state-of-the-art electrostatic coating process.
- Heavy duty vulcanized fibre for extended disc life and over 30% less curling during storage (**discs stay flatter**).



49472

49451



Rubber Back-up Pads Required
(see page 39 for full program)



Right Angle Grinder

ALUMINUM OXIDE

ZIRCONIA

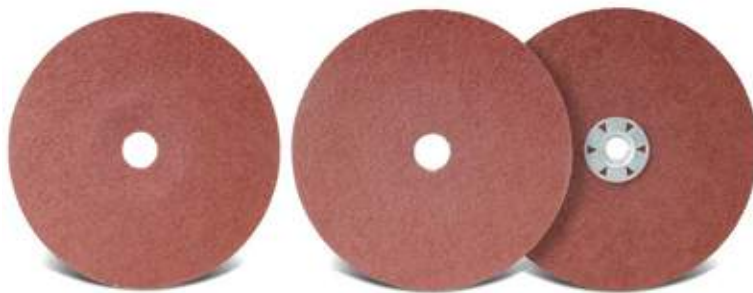
Premium Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	ALUMINUM OXIDE UPC#	ZIRCONIA UPC#
4-1/2 x 7/8	16 Grit	15,300	25	49441	
4-1/2 x 7/8	24 Grit	15,300	25	49442	49471
4-1/2 x 7/8	36 Grit	15,300	25	49443	49472
4-1/2 x 7/8	50 Grit	15,300	25	49444	49473
4-1/2 x 7/8	60 Grit	15,300	25	49445	49474
4-1/2 x 7/8	80 Grit	15,300	25	49446	49475
4-1/2 x 7/8	100 Grit	15,300	25	49447	
4-1/2 x 7/8	120 Grit	15,300	25	49448	
5 x 7/8	16 Grit	13,300	25	49449	
5 x 7/8	24 Grit	13,300	25	49450	49476
5 x 7/8	36 Grit	13,300	25	49451	49477
5 x 7/8	50 Grit	13,300	25	49452	49478
5 x 7/8	60 Grit	13,300	25	49453	49479
5 x 7/8	80 Grit	13,300	25	49454	49480
5 x 7/8	100 Grit	13,300	25	49455	
5 x 7/8	120 Grit	13,300	25	49456	
7 x 7/8	16 Grit	12,200	25	49457	
7 x 7/8	24 Grit	12,200	25	49458	49481
7 x 7/8	36 Grit	12,200	25	49459	49482
7 x 7/8	50 Grit	12,200	25	49460	49483
7 x 7/8	60 Grit	12,200	25	49461	49484
7 x 7/8	80 Grit	12,200	25	49462	49485
7 x 7/8	100 Grit	12,200	25	49463	
7 x 7/8	120 Grit	12,200	25	49464	

AO RESIN FIBRE DISCS

Resin Fibre Discs Aluminum Oxide

- 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.



ALUMINUM OXIDE



Program note: 7" depressed center discs are being discontinued. Discs will transition to a flat disc style like the 4 - 5" and 9" diameters.



Rubber Back-up Pads Required
(see page 39 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	48000	
4 x 5/8	24 Grit	15,300	25	48001	
4 x 5/8	36 Grit	15,300	25	48002	
4 x 5/8	50 Grit	15,300	25	48004	
4 x 5/8	60 Grit	15,300	25	48005	
4 x 5/8	80 Grit	15,300	25	48006	
4 x 5/8	100 Grit	15,300	25	48007	
4 x 5/8	120 Grit	15,300	25	48008	
4-1/2 x 7/8	16 Grit	13,300	25	48010	
4-1/2 x 7/8	24 Grit	13,300	25	48011	48711
4-1/2 x 7/8	36 Grit	13,300	25	48012	48712
4-1/2 x 7/8	50 Grit	13,300	25	48014	48714
4-1/2 x 7/8	60 Grit	13,300	25	48015	48715
4-1/2 x 7/8	80 Grit	13,300	25	48016	48716
4-1/2 x 7/8	100 Grit	13,300	25	48017	
4-1/2 x 7/8	120 Grit	13,300	25	48018	
5 x 7/8	16 Grit	12,200	25	48020	
5 x 7/8	24 Grit	12,200	25	48021	48721
5 x 7/8	36 Grit	12,200	25	48022	48722
5 x 7/8	50 Grit	12,200	25	48024	48724
5 x 7/8	60 Grit	12,200	25	48025	48725
5 x 7/8	80 Grit	12,200	25	48026	48726
5 x 7/8	100 Grit	12,200	25	48027	
5 x 7/8	120 Grit	12,200	25	48028	

Aluminum Oxide Resin Fibre Discs (cont.)

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

Aluminum Oxide 50 or 100-Pack Spindles

- Spindle-spool 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	48501
4-1/2 x 7/8	36 Grit	13,300	100	48502
4-1/2 x 7/8	50 Grit	13,300	100	48503
4-1/2 x 7/8	60 Grit	13,300	100	48504
4-1/2 x 7/8	80 Grit	13,300	100	48505
5 x 7/8	24 Grit	12,200	50	48508
5 x 7/8	36 Grit	12,200	100	48509
5 x 7/8	50 Grit	12,200	100	48510
5 x 7/8	60 Grit	12,200	100	48511
5 x 7/8	80 Grit	12,200	100	48512
7 x 7/8	24 Grit	8,600	50	48515
7 x 7/8	36 Grit	8,600	100	48516
7 x 7/8	50 Grit	8,600	100	48517
7 x 7/8	60 Grit	8,600	100	48518
7 x 7/8	80 Grit	8,600	100	48519
Premium spindle				36203
4-1/2" & 5" spindle only (for replacement)				48251
7" spindle only (for replacement)				48252



Spindle only available



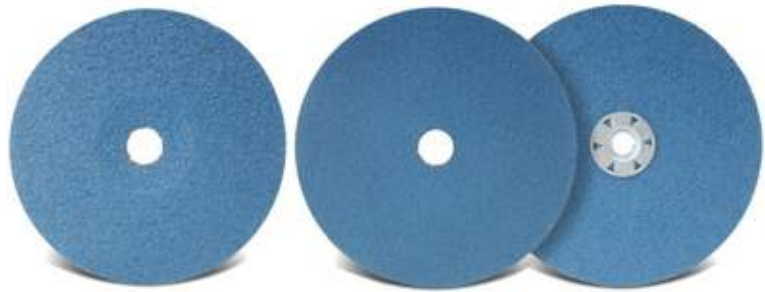
Premium Spindle

ZIRCONIA RESIN FIBRE DISCS

Resin Fibre Discs

Zirconia - High Performance

- 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.



ZIRCONIA



Program note: 7" depressed center discs are being discontinued. Discs will transition to a flat disc style like the 4 - 5" and 9" diameters.



Rubber Back-up Pads Required
(see page 39 for full program)

Zirconia Resin Fibre Discs

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

SILICON CARBIDE DISCS

Zirconia

50 or 100-Pack Spindles

- 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	48528
4-1/2 x 7/8	36 Grit	13,300	100	48529
4-1/2 x 7/8	50 Grit	13,300	100	48530
4-1/2 x 7/8	60 Grit	13,300	100	48531
4-1/2 x 7/8	80 Grit	13,300	100	48532
5 x 7/8	24 Grit	12,200	50	48533
5 x 7/8	36 Grit	12,200	100	48534
5 x 7/8	50 Grit	12,200	100	48535
5 x 7/8	60 Grit	12,200	100	48536
5 x 7/8	80 Grit	12,200	100	48537
7 x 7/8	24 Grit	8,600	50	48538
7 x 7/8	36 Grit	8,600	100	48539
7 x 7/8	50 Grit	8,600	100	48540
7 x 7/8	60 Grit	8,600	100	48541
7 x 7/8	80 Grit	8,600	100	48542
Premium spindle				36203
4-1/2 & 5" spindle only (for replacement)				48251
7" spindle only (for replacement)				48252



Spindle only available



Premium Spindle



Resin Fibre Discs

Silicon Carbide

- 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	48320
5 x 7/8	24 Grit	12,200	25	48321
5 x 7/8	36 Grit	12,200	25	48322
7 x 7/8	16 Grit	8,600	25	48330
7 x 7/8	24 Grit	8,600	25	48331
7 x 7/8	36 Grit	8,600	25	48332
7 x 7/8	50 Grit	8,600	25	48334
7 x 7/8	60 Grit	8,600	25	48335
7 x 7/8	80 Grit	8,600	25	48336
7 x 7/8	120 Grit	8,600	25	48338
7 x 7/8	150 Grit	8,600	25	48333
7 x 7/8	220 Grit	8,600	25	48350
7 x 7/8	300 Grit	8,600	25	48339
7 x 7/8	400 Grit	8,600	25	48352

TOP SIZE RESIN FIBRE DISCS

New **Top Size (Grinding Aid)
AO Resin Fibre Discs**

Metal and Stainless

- Top-Size (grinding aid coating) for cooler grinding and longer life – disc does not clog or burn.
- Premium aluminum oxide grain and grinding aid for superior performance without burning or staining the material.
- Heavy duty vulcanized fiber for extended life and production rates.



ALUMINUM OXIDE



SIZE	SPEC.	RPM	CARTON QTY	UPC#
4-1/2 x 7/8	36 Grit	13,300	25	49702
4-1/2 x 7/8	50 Grit	13,300	25	49703
4-1/2 x 7/8	60 Grit	13,300	25	49704
4-1/2 x 7/8	80 Grit	13,300	25	49705
5 x 7/8	36 Grit	12,200	25	49706
5 x 7/8	50 Grit	12,200	25	49707
5 x 7/8	60 Grit	12,200	25	49708
5 x 7/8	80 Grit	12,200	25	49709
7 x 7/8	36 Grit	8,600	25	49710
7 x 7/8	50 Grit	8,600	25	49711
7 x 7/8	60 Grit	8,600	25	49712
7 x 7/8	80 Grit	8,600	25	49713

BACK-UP PADS

Rubber Back-up Pads

- 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.
 - Flexible Rubber Pads are recommended for contours and Rigid Pads will last longer on aggressive grinding applications.



Rubber Back-up Pad

Rubber w/Standard Threaded Spiral Pattern – w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
Medium		
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
Flexible		
49510	7" x 5/8-11	1
49526	9" x 5/8-11	1
Rigid		
49511	7" x 5/8-11	1
49527	9" x 5/8-11	1

Rubber w/Smooth Bore & Spiral Pattern – w/o Nut

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

* Use with #49529, #49530, #48223 nut.

Polypropylene Back-up Pads

- Polypropylene Back-up Pads - Use with medium to fine grits.
 - Spiral ribs provide contact points and form channels for airflow.

Polypropylene w/Standard Spiral Pattern – w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
Medium		
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



Polypropylene Back-up Pad

Rubber w/Smooth Face for Low Profile Grinders

UPC#	SIZE/SPEC	CARTON QTY
48261	4-1/2"	1
48262	5"	1

Rubber w/Smooth Face for Fibre Discs with Quick Lock

UPC#	SIZE/SPEC	CARTON QTY
48264	5"	1
48266	7"	1


Rubber w/Smooth Face w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
Medium		
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
Flexible		
49504	7" x 5/8-11	1
Rigid		
49505	7" x 5/8-11	1

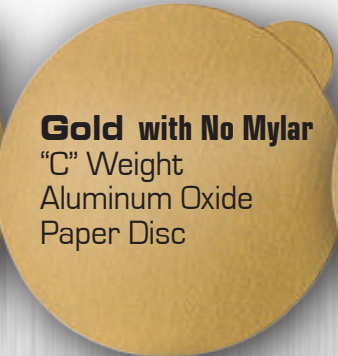
Accessories

UPC#	SIZE/SPEC	DISCS	CARTON QTY
48223	5/8-11 Locking Pad Nut 1 1/2" Flange w/Holes	for 4-1/2 & 5 inch discs	1
49530	5/8-11 Locking Pad Nut 2" Flange w/Holes	for 7 & 9 inch discs	1
49529	3/8-24 Locking Pad Nut 1 1/2" Flange w/Holes	for 4 inch discs	1
49531	10 mm 1.25 Pad Nut 1 1/2" Flange w/Holes		1
48229	Adjustable Spanner Wrench		1


Paper, Film & Cloth **SANDING DISCS**



Gold with Mylar
"C" Weight
Aluminum Oxide
Paper Disc




Gold with No Mylar
"C" Weight
Aluminum Oxide
Paper Disc



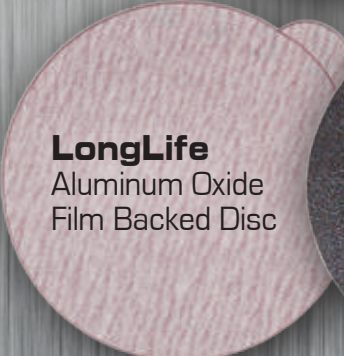
U612
"A" Weight
Aluminum Oxide
Paper Disc




S13T
"A" Weight
Silicon Carbide
Paper Disc



Q711T
White
Aluminum Oxide
Film Backed Disc




LongLife
Aluminum Oxide
Film Backed Disc



K35F/K35SF
"J" Weight
Aluminum Oxide
Cloth Disc



"X" Weight
Aluminum Oxide
Cloth Disc



Zirconia/R203
"Y" Weight
Zirconia AO
Cloth Disc

PASCO

SANDING DISCS

★ THE PASCO ADVANTAGE:

Made in USA! Edge tear resistant! Made with strong .0005 Mylar film for superior edge tear resistance. Available on A, B, C, D weight products.

- ★ We make the best disc in the world – we believe it and we can prove it. We'll convince you and show you how to reduce costs, improve profits and solve problems.

Call CGW/PASCO about our sample program.

Take The Tear Test!



- Compare our laminated disc against a typical "hot melt" adhesive disc.
- Full resin bond system reinforces grain adhesion for longer working life.
- Latex paper backing – strong, yet pliable. Resists delamination and tearing.
- Zinc stearate coating for less loading and longer life.

New



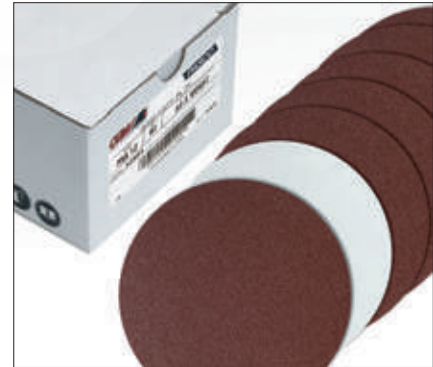
Paper Sanding Discs

pages 42 - 44



Film-Backed Sanding Discs

pages 45



Cloth Sanding Discs

pages 45 - 46



PASCO



PAPER SANDING DISCS



PAPER SANDING DISCS

Gold with Mylar Paper Disc - #1 Selling Pasco Disc!

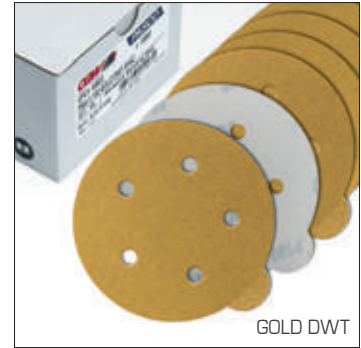
Aluminum Oxide,
"C" Weight Paper Backing, Open Coat

THE PASCO ADVANTAGE:

- Made with a strong .0005 Mylar film for superior edge tear resistance.
- The PASCO Advantage outperforms other "C" weight gold discs.
- Stearated paper with heat treated aluminum oxide grain and a full phenolic bond system provides uniform scratch pattern.
- Open coat disc delivers fast cut and exceptionally long life.



GOLD DOR



GOLD DWT

DOR = Disc on Roll DWT = Disc with Tab
Vacuum disc available as DWT only

ALUMINUM OXIDE

5" Gold with Mylar DWT & DOR PSA

GRIT	UPC#				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P40		49790			50	400
P60	49761	49791			50	400
P80	49762	49792	49822	49852	100	800
P100	49763	49793	49823	49853	100	800
P120	49764	49794	49824	49854	100	800
P150	49765	49795	49825	49855	100	800
P180	49766	49796	49826	49856	100	800
P220	49767	49797	49827		100	800
P240		49798	49828		100	800
P320		49800			100	800
P400		49801			100	800
P600		49803			100	800
P800		50965			100	800
P1000		50966			100	800

5" Gold with Mylar Hook & Loop

GRIT	UPC#			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P40	49925	49955	49985	50	400
P60	49926	49956	49986	50	400
P80	49927	49957	49987	100	800
P100	49928	49958	49988	100	800
P120	49929	49959	49989	100	800
P150	49930	49960	49990	100	800
P180	49931	49961	49991	100	800
P220	49932	49962	49992	100	800
P320	49935		49995	100	800
P400	49936			100	800
P600	49938			100	800
P1000	52166			100	800

6" Gold with Mylar DWT & DOR PSA

GRIT	UPC#		BX/RL	MASTER PACK
	DOR	DWT		
P40		49805	50	400
P60	49776	49806	50	400
P80	49777	49807	100	800
P100	49778	49808	100	800
P120	49779	49809	100	800
P150	49780	49810	100	800
P180	49781	49811	100	800
P220	49782	49812	100	800
P240		49813	100	800
P320		49815	100	800
P400		49816	100	800
P600		49818	100	800

6" Gold with Mylar 6VAC Hook & Loop

GRIT	UPC#		BOX	MASTER PACK
	6VAC			
P40	49970		50	400
P60	49971		50	400
P80	49972		100	800
P100	49973		100	800
P120	49974		100	800
P150	49975		100	800
P180	49976		100	800
P220	49977		100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

UPC #'s shown are standard stocking items in Niles, IL and Buena Park, CA.

Other sizes, grits and special-make sanding discs are available. Contact customer service for minimum order requirements and lead time.

U612 Paper Disc - Provides Finer Finish!

ALUMINUM OXIDE



Aluminum Oxide, "A" Weight Paper Backing, Open Coat

THE PASCO ADVANTAGE:

- Made with a strong .0005 Mylar film for superior edge tear resistance.
- Sharp, durable premium heat treated aluminum oxide grain on a "A" weight backing with a full phenolic resin bond system and non-loading zinc stearate treatment. 80 grit uses latex "B" weight paper.
- Faster rate of cut and longer life versus competitive "A" weight disc products.
- Exclusive PASCO disc to compete against 3M 216U disc at a lower price.

5" U612 DWT & DOR PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DOR	DWT		
P80	50660	50690	100	800
P100		50691	100	800
P120	50662	50692	100	800
P150	50663	50693	100	800
P180	50664	50694	100	800
P220	50665	50695	100	800

5" U612 VELCRO® Hook & Loop

GRIT	UPC #		BOX	MASTER PACK
	VELCRO®			
P80	50825		100	800
P100	50826		100	800
P120	50827		100	800
P150	50828		100	800
P180	50829		100	800
P220	50830		100	800
P320	50833		100	800

Gold with No Mylar Paper Disc

Aluminum Oxide, "C" Weight Paper Backing, Open Coat

- Heavy duty "C" weight paper. Will outperform competitor Gold C-weight discs.
- Stearated paper with heat treated aluminum oxide grain and a full phenolic bond system provides uniform scratch pattern.
- Open coat disc delivers fast cut and exceptionally long life.

SPECIAL ALUMINUM OXIDE

DWT = Disc with Tab



5" Gold with No Mylar DWT & DOR PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DWT			
P80	50391		100	800
P100	50392		100	800
P120	50393		100	800
P150	50394		100	800
P180	50395		100	800
P220	50396		100	800
P320	50399		100	800
P400	50400		100	800

6" Gold with No Mylar DWT PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DWT			
P80	50406		100	800
P100	50407		100	800
P120	50408		100	800
P150	50409		100	800
P180	50410		100	800
P220	50411		100	800
P320	50414		100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack

UPC #'s shown are standard stocking items in Niles, IL and Buena Park, CA.

Other sizes, grits and special-make sanding discs are available. Contact customer service for minimum order requirements and lead time.





PAPER SANDING DISCS



PAPER SANDING DISCS

S13T Paper Disc

Silicon Carbide, "A" Weight Paper Backing, Open Coat

SILICON CARBIDE

THE PASCO ADVANTAGE:

- Made with a strong .0005 Mylar film for superior edge tear resistance.
- Sharp silicon carbide grain with steared paper with full phenolic resin bond system.
- For white wood, sealer, lacquer and polyurethane sanding.



S13T DWT

5" S13T DWT PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DWT			
P120	51955		100	800
P150	51956		100	800
P220	51958		100	800
P320	51961		100	800

DWT = Disc with Tab

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

Q711T Film Backed Disc

Aluminum Oxide, 3 Mill Film Back

WHITE ALUMINUM OXIDE

- Film backing - longer life. Strong, yet pliable .003 Mylar backing. Film offers up to 4X the life vs. paper discs.



Q711T DOR

5" Q711T DWT PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DOR	DWT		
P80	51015	51051	100	800
P100	51016	51052	100	800
P120	51017	51053	100	800
P150	51018	51054	100	800
P180	51019	51055	100	800
P220	51020	51056	100	800
P240		51057	100	800
P280		51058	100	800
P320		51059	100	800
P400		51060	100	800
P600		51062	100	800
P800		51063	100	800
P1000		51064	100	800
P1200		51065	100	800
P2000		51066	100	800

DOR = Disc on Roll

DWT = Disc with Tab

- Longest lasting disc available by up to 300% over paper discs.
- Uniform film backing with "P" graded abrasive for uniform finish.
- Faster rate of cut, more consistent finish and longer life.

5" Q711T Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P80	51231	51267	51303	100	800
P100	51232		51304	100	800
P120	51233	51269	51305	100	800
P150	51234	51270	51306	100	800
P180	51235		51307	100	800
P220	51236	51272	51308	100	800
P320	51239			100	800
P400	51240			100	800
P600	51242			100	800

6" Q711T DWT PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DWT			
P80	51069		100	800
P100	51070		100	800
P120	51071		100	800
P150	51072		100	800
P180	51073		100	800
P220	51074		100	800

6" Q711T VELCRO® Hook & Loop

GRIT	UPC #		BOX	MASTER PACK
	VELCRO®			
P80	51249		100	800
P100	51250		100	800
P120	51251		100	800
P150			100	800
P180	51253		100	800
P220	51254		100	800

FILM SANDING DISCS



FILM-BACKED SANDING DISCS

LongLife Film Backed Disc - PASCO Exclusive

Aluminum Oxide, 3 Mill Film Back

- Heat treated aluminum oxide grain on a strong .003" Mylar backing with full phenolic resin bond for better grain adhesion and longer life.
- Outperforms paper discs by up to 300%! Non-loading zinc stearate treatment.
- Strong yet pliable film for a superior finish.

ALUMINUM OXIDE

DOR = Disc on Roll

DWT = Disc with Tab



LongLife DOR

5" LongLife DWT & DOR PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DOR	DWT		
P80		52405	100	800
P100		52406	100	800
P120	52383	52407	100	800
P150	52384	52408	100	800
P180	52385	52409	100	800
P220	52386	52410	100	800
P320		52412	100	800
P400		52413	100	800

5" LongLife VELCRO® Hook & Loop

GRIT	UPC #		BOX	MASTER PACK
	VELCRO®			
P80	52525		100	800
P120	52527		100	800
P150	52528		100	800
P180	52529		100	800
P220	52530		100	800
P320	52532		100	800
P600	52534		100	800

6" LongLife DWT PSA

GRIT	UPC #		BX/RL	MASTER PACK
	DWT			
P80		52417	100	800
P180		52421	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

"J" Weight Cloth PSA Discs

Aluminum Oxide, "J" Weight, Open Coat

- Tough, durable "J" wgt. 65/35% polyester/cotton cloth is an outstanding product for the right applications and is worth the higher cost of cloth disc compared to paper.
- Applications: wood sanding, mold sanding, contour sanding, breaking edges.
- Grit Range: 60 - 220. Maximum Life.

5" K35F "J" Cloth PSA

GRIT	DWT UPC#	BOX	MASTER PACK
P60	51657	50	400
P80	51658	50	400
P100	51659	100	800
P120	51660	100	800
P150	51661	100	800
P180	51662	100	800
P220	51663	100	800

ALUMINUM OXIDE



K35F

UPC #'s shown are standard stocking items in Niles, IL and Buena Park, CA.

Other sizes, grits and special-make sanding discs are available. Contact customer service for minimum order requirements and lead time.





RESIN CLOTH PSA DISCS

CLOTH SANDING DISCS

New Premium AO X-Weight CLOTH PSA DISCS

- X-weight resin bond cloth disc for general purpose work.

ALUMINUM OXIDE

SIZE/GRIT	UPC #							BOX QTY	
	36	40	50	60	80	100	120		180
1/2"					53302		53303		100
3/4"					53308		53310	53311	100
1"					53314		53316	53317	100
1-1/2"				53319	53320		53322		100
2"				53326	53327	53328			100
3"				53335	53336	53337	53338		100
5"	52636	52637	52638	52639	52640	52641	52642	52644	50
6"	52647	52648		52650	52651		52653		50
8"	52658			52661	52662				50
12"	52680	52681	52682	52683	52684	52685	52686		25



52639

Note: Material available in 24-150-220-320 grits. Contact PASCO customer service for special make pricing, order minimums and lead times.



Sander

New Premium ZA Y-Weight CLOTH PSA DISCS

- Y-weight resin bond polyester cloth disc with graining aid for fast cutting action.
- Very cool cutting action and long disc life. Applications: Stainless steel, alloy & aluminum.

ZIRCONIA AO

SIZE/GRIT	UPC #							BOX QTY
	36	40	50	60	80	100	120	
5"	52714		52716	52717	52718		52720	50
6"					52726			50
12"	52746	52747	52748	52749	52750			25
20"	52762							25



52717

Note: Material available in 24 grit. Contact PASCO customer service for special make pricing, order minimums and lead times.

New Premium R203 Y-Weight CLOTH PSA DISCS - Zirc W/Grinding Aid

- Y-weight resin bond polyester cloth disc with two coatings of grinding aid. Applications: Cast iron, nickel, stainless steel.

ZIRCONIA AO w/GRINDING AID

SIZE/GRIT	UPC #							BOX QTY
	36	40	50	60	80	100	120	
5"			52773	52774	52775			50
16"	52811			52814	52815			25
20"	52819	52820		52822	52823			25



52773

Note: Material available in 24 grit. Contact PASCO customer service for special make pricing, order minimums and lead times.

UPC #'s shown are standard stocking items in Niles, IL and Buena Park, CA.

Other sizes, grits and special-make sanding discs are available. Contact customer service for minimum order requirements and lead time.

SANDING DISC PADS



7000 Series Fiberglass Hubbed Disc Pads

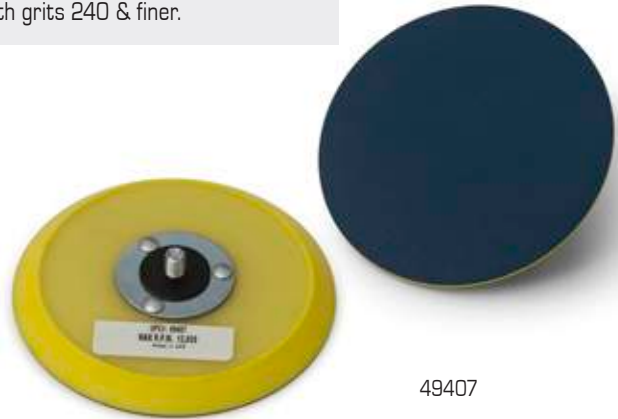


Disc Pad Selection Information

- **Firm Pads** – designed for use on flat surfaces & with grits 100 and coarser.
- **Medium Pads** – designed for use on both flat & curved surfaces with grits 120 – 240.
- **Soft Pads** – designed for use on curved surfaces with grits 240 & finer.

FIBERGLASS HUBBED PSA DISC PADS

- **Molded urethane body:**
 - Hub, foam & facing are all one molded unit.
 - More durable and longer lasting than bonded pads.
- Durable vinyl face for production sanding.
- Strong hub for heat resistance.
- **To use with Orbital Sander only.**



UPC #	PASCO #	DESCRIPTION	RPM	BOX
5" PSA Disc Pads				
49406	70595V	5 x 5/16-24 Medium Back Pad	10,000	1
49407	70515V	5 x 5/16-24 Firm Back Pad	12,000	1
49408	70595VH5	5 x 5/16-24 Med Back Pad – 5 VAC	10,000	1
6" PSA Disc Pads				
49423	70596V	6 x 5/16-24 Medium Fiberglass Back Pad	10,000	1
49424	70516V	6 x 5/16-24 Firm Fiberglass Back Pad	10,000	1
49425	70516-H6	6 x 5/16-24 Firm Fiberglass Back Pad – 6 VAC	10,000	1

FIBERGLASS HUBBED HOOK & LOOP DISC PADS

- **Molded urethane body:**
 - Hub, foam & facing are all one molded unit.
 - More durable and longer lasting than bonded pads.
- "J" hook face for strong hook & loop attachment and production sanding.
- Strong hub for heat resistance.
- **To use with Orbital Sander only.**



UPC #	PASCO #	DESCRIPTION	RPM	BOX
5" Hook & Loop Disc Pads				
49413	J70595	5 x 5/16-24 Medium Back Pad	10,000	1
49414	J70515	5 x 5/16-24 Firm Back Pad	12,000	1
49415	J70595H5	5 x 5/16-24 Medium Back Pad – 5 VAC	10,000	1
6" Hook & Loop Disc Pads				
49426	J70596	6 x 5/16-24 Medium Fiberglass Back Pad	10,000	1
49427	J70516	6 x 5/16-24 Firm Fiberglass Back Pad	10,000	1
49428	J70596H6	6 x 5/16-24 Med Fiberglass Back Pad – 6VAC	10,000	1



METALLURGICAL

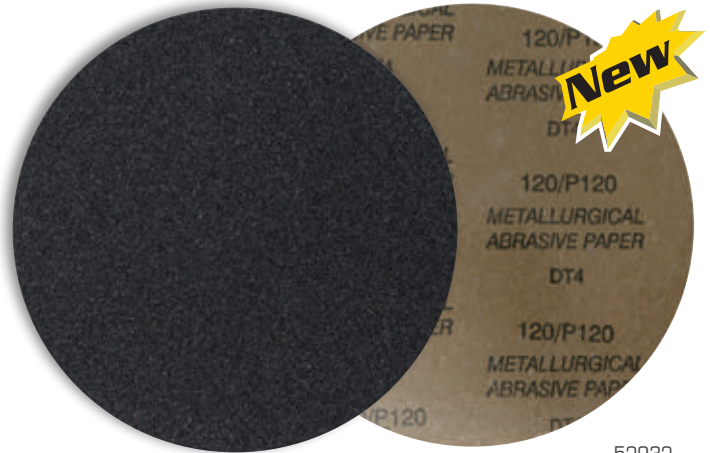
METALLURGICAL DISCS

Metallurgical Discs

Silicon Carbide,
"C" Weight Waterproof Paper Backing

CONSISTENT, HIGH GRINDING RATES

- For preparation of metallurgical samples including most metal and alloys.
- Fully phenolic bonded silicon carbide for free cutting and minimal heat build-up.
- Discs are available in ANSI grit sizes 60 - 600 (FEPA P60 - P1200).
- Discs are "C" weight waterproof paper with either Plain or PSA (Pressure Sensitive Adhesive) backing.



52932

New Silicon Carbide Discs

SILICON CARBIDE

SIZE/GRIT	UPC#								BOX QTY
	60 (P60)	80 (P80)	120 (P120)	180 (P180)	240 (P280)	320 (P400)	400 (P800)	600 (P1200)	
8" Plain	52931	52921	52932	52933	52934	52935	52936	52937	100
10" Plain	52959	52922	52960	52961	52962	52963	52964	52965	100
12" Plain	52938	52923	52939	52940	52941	52942	52943	52944	100
8" PSA	52945	52924	52946	52947	52948	52949	52950	52951	100
10" PSA	52966	52925	52967	52968	52969	52970	52971	52972	100
12" PSA	52952	52926	52953	52954	52955	52956	52957	52958	100

STANDARD ANSI GRIT	EUROPEAN (P-GRADE)	MEDIAN DIAMETER (MICRONS)
60	P60	250
80	P80	180
120	P120	106
180	P180	75
240	P280	63
320	P400	40.5
400	P800	25.8
600	P1200	15.3
800	P2400	6.5
1200	P4000	2.5

4 x 36 Metallurgical Sanding Belts

STANDARD ANSI GRIT	EUROPEAN (P-GRADE)	MEDIAN DIAMETER (MICRONS)
60	P60	250
80	P80	180
120	P120	106
180	P180	75
240	P280	63
320	P400	40.5
400	P800	25.8
600	P1200	15.3
800	P2400	6.5
1200	P4000	2.5



S181

Silicon Carbide "Y" Weight Polyester Backing

New

UPC#	SIZE	GRIT	BOX QTY
52911	4 x 36	60	10
52912	4 x 36	80	10
52913	4 x 36	120	10
52914	4 x 36	180	10
52915	4 x 36	240	10
52916	4 x 36	320	10
52917	4 x 36	400	10
52918	4 x 36	600	10

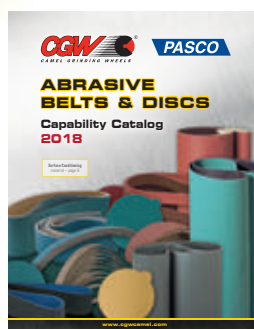
A3

Aluminum Oxide, "X" Weight Backing

New

UPC#	SIZE	GRIT	BOX QTY
61261	4 x 36	24	10
61262	4 x 36	36	10
61263	4 x 36	40	10
61264	4 x 36	50	10
61265	4 x 36	60	10
61266	4 x 36	80	10
61267	4 x 36	100	10
61268	4 x 36	120	10
61269	4 x 36	150	10
61270	4 x 36	180	10
61271	4 x 36	220	10
61272	4 x 36	240	10
61273	4 x 36	320	10

- ★ CGW/PASCO offer fill line of coated and surface conditioning belts & discs
- ★ Special make belts & discs programs are available upon request
- ★ Call CGW/PASCO CSR for program details



2018 Abrasive Belts & Discs Capability Catalog

www.cgwcamel.com

QUICK CHANGE DISCS

QUICK CHANGE DISCS

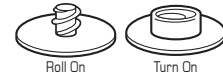
Grit Comparison Chart

	GRAIN	COLOR	STANDARD	HEAVY DUTY
Coarse	A/O	Brown	60	50-60
Medium	A/O	Maroon	80-120	60-100
Very Fine	A/O	Blue	180-240	–
Super Fine	S/C	Gray	240-320	–

Coated Quick Change Discs
on pages 51-55.



Turn On



Roll On Turn On

2 - 4" Quick Change Discs - Surface Conditioning

- For stainless steel, and ferrous & non-ferrous metals.
- Premium** - Blending and rust/burr removal.
- Finish Pro** - Economy choice, high performance design for demanding cleaning, deburring and finishing.

Uses USA Developed,
Automated Spin-Weld
Attachment Process for Fast
and Secure Fastening.

SIZE	RPM	DENSITY / GRAIN / GRADE	ROLL ON PREMIUM UPC#	ROLL ON FINISH PRO UPC#	USE HOLDER	TURN ON PREMIUM UPC#	TURN ON FINISH PRO UPC#	USE HOLDER	CARTON QTY
2"	25,000	Coarse - Brown	59503	59743	59732	59610	59749	59733	50
		Medium - Maroon	59504	59744	59732	59611	59750	59733	
		A Very Fine - Blue	59505	59745	59732	59612	59751	59733	
		S Ultra Fine - Grey	59608		59732			59733	
3"	20,000	Coarse - Brown	59506	59746	59734	59614	59752	59735	25
		Medium - Maroon	59507	59747	59734	59615	59753	59735	
		A Very Fine - Blue	59508	59748	59734	59616	59754	59735	
		S Ultra Fine - Grey	59609		59734			59735	
4"	12,000	Coarse - Brown	59509		59736				25
		Medium - Maroon	59510		59736				
		A Very Fine - Blue	59511		59736				

New Heavy Duty 2 - 3" Quick Change Discs - Surface Conditioning, Roll On

- Heavy Duty disc - Aggressive surface conditioning discs for tough cleaning, deburring and finishing.
- Ideal for rugged applications where standard grade discs shred.
- 2X longer working life than standard discs.**
- Use on steel, stainless steel and ferrous & non-ferrous metal.



Roll On



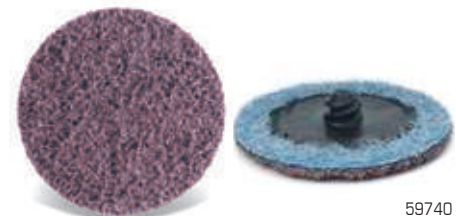
Die Grinder

2 - 4X Faster Stock Removal



59739

Heavy Duty Coarse - Brown



59740

Heavy Duty Medium - Maroon

SIZE	RPM	DENSITY / GRAIN / GRADE	ROLL ON HEAVY DUTY UPC#	GRIT	USE HOLDER	CARTON QTY
2"	25,000	Coarse - Brown New	59739	50-60	59732	50
		Medium - Maroon	59740	60-100	59732	
3"	20,000	Coarse - Brown	59741	50-60	59734	25
		Medium - Maroon	59742	60-100	59734	

STIFF BACK DISCS

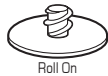


2 - 3" Quick Change Discs - **STIFF BACK** High Pressure

- STIFF BACK technology allows for +20% more stock removal on high pressure applications.
- Ideal for demanding applications that require heavy force and excellent stock removal.
- STIFF backed discs last 30% longer than standard discs when edge wear is an issue.
- STIFF BACK quick changes discs are equal to resin fiber discs for aggressive deburring and interrupted cuts.

2 - 3" Quick Change Discs - **STIFF BACK** Ceramic, **Roll On** and **Turn On**

- Premium ceramic grain with grinding aid for cool cutting and aggressive stock removal.
- Use on carbon steel, stainless steel, heat sensitive materials and hard-to-grind alloys..



Roll On



Turn On

SIZE	GRIT	ROLL-ON TYPE R UPC#	TURN-ON TYPE S UPC#	RPM	BOX QTY
2"	36G	59830	59846	25,000	50
2"	60G	59831	59847	25,000	50
2"	80G	59832	59848	25,000	50
2"	120G	59833	59849	25,000	50
3"	36G	59834	59850	20,000	25
3"	60G	59835	59851	20,000	25
3"	80G	59836	59852	20,000	25
3"	120G	59837	59853	20,000	25



CERAMIC



Die Grinder

2 - 3" Quick Change Discs - **STIFF BACK** Aluminum Oxide, **Roll On** and **Turn On**

- Premium sharp aluminum oxide grain for versatility and performance.
- Ideal for general purpose applications; flat and contoured surfaces for blending and deburring.



Roll On



Turn On

SIZE	GRIT	ROLL-ON TYPE R UPC#	TURN-ON TYPE S UPC#	RPM	BOX QTY
2"	36G	59822	59838	25,000	50
2"	60G	59823	59839	25,000	50
2"	80G	59824	59840	25,000	50
2"	120G	59825	59841	25,000	50
3"	36G	59826	59842	20,000	25
3"	60G	59827	59843	20,000	25
3"	80G	59828	59844	20,000	25
3"	120G	59829	59845	20,000	25



ALUMINUM OXIDE



Die Grinder

Note: When gouging is an issue a standard quick change disc (flexible) product is best. Also for light deburring and shaping a standard quick change disc (flexible) is best.



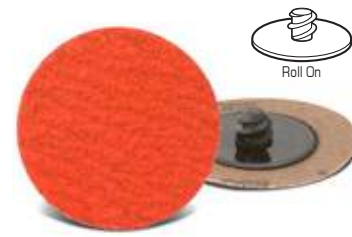
**Rubber Holder
Pads Required**
(see page 56 for full program)

QUICK CHANGE DISCS ROLL-ON

QUICK CHANGE LAMINATED DISCS – ROLL ON

1-1/2" - 3" Quick Change Discs C3 Ceramic, Roll 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.

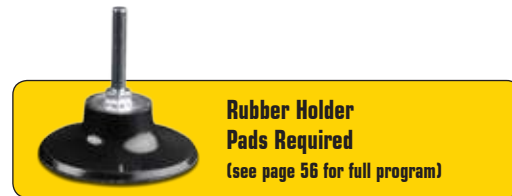


CERAMIC



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

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



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 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
59587	24G	50
59588	36G	50
59589	40G	50
59590	50G	50
59591	60G	50
59592	80G	50
59593	120G	50

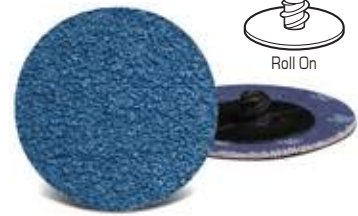
3" Diameter 20,000 R.P.M.

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

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	
59534	240G	50	

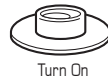
4" Diameter			12,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
59548	24G	25	
59549	36G	25	
59550	40G	25	
59551	50G	25	
59552	60G	25	
59553	80G	25	
59554	100G	25	
59555	120G	25	

QUICK CHANGE DISCS TURN-ON

QUICK CHANGE LAMINATED DISCS – TURN ON

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.

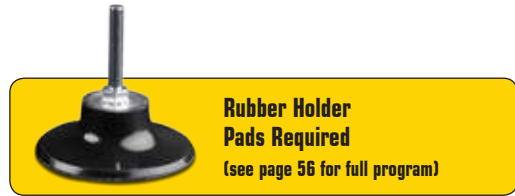


CERAMIC



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.

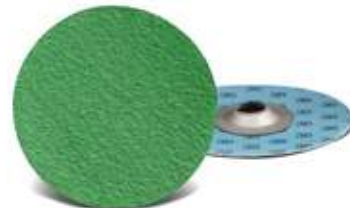
UPC#	SPEC.	CARTON QTY
59950	24G	50
59951	36G	50
59952	40G	50
59953	50G	50
59954	60G	50
59955	80G	50
59956	100G	50
59957	120G	50

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

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.



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	100
59669	36G	100
59670	40G	100
59671	50G	100
59672	60G	100
59673	80G	100

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	100
59622	36G	100
59623	40G	100
59624	50G	100
59625	60G	100
59626	80G	100
59627	100G	100
59628	120G	100

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

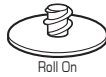
4" Diameter 12,000 R.P.M.

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

FLAP WHEELS & HOLDER PADS

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" / Turn On	1
59735	3" Dia. x 1/4" / Turn On	1

AO-Flex Flap Wheels: 1/4" Shank

Flexible material with premium cut rate

- Premium quality AO flap wheel made with a flexible x-wt. cotton backing for faster cut rate vs. traditional AO 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
70211	60	10
70212	80	10

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

UPC#	SPEC.	CARTON QTY
71000	60	10
71001	80	10
71002	120	10

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

UPC#	SPEC.	CARTON QTY
71033	40	10
71034	60	10
71035	80	10
71036	120	10

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

UPC#	SPEC.	CARTON QTY
71040	40	10
71041	60	10
71042	80	10
71043	120	10

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

UPC#	SPEC.	CARTON QTY
71088	40	10
71089	60	10
71090	80	10
71091	120	10

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

UPC#	SPEC.	CARTON QTY
71114	60	10
71115	80	10
71116	120	10

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

UPC#	SPEC.	CARTON QTY
71147	40	10
71148	60	10
71149	80	10
71150	120	10

FLAP WHEELS - 1/4" SHANK

AO-Firm Flap Wheels: 1/4" Shank

- 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	

AO-FIRM FLAP WHEELS - 1/4" SHANK

FLAP WHEELS - 1/4" SHANK

FLAP WHEELS - 1/4" SHANK

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

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

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 1-1/2 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 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 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

- 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

2 x 1 x 1/4

25,000 R.P.M.

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

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 - 1/4"-20 SHANK

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

- 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

Interleaf Flap Wheels

- 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

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	1



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
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

MINI FLAP WHEELS

MINI FLAP WHEELS – NON WOVEN FLAP WHEELS

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.



3/8 x 3/8 x 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	

5/8 x 5/8 x 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	

3/4 x 3/16 x 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	

3/4 x 3/8 x 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	

3/4 x 3/4 x 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	

1-3/16 x 3/16 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70086	60	10	
70087	80	10	
70088	120	10	
70089	180	10	

1-3/16 x 3/8 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70090	60	10	
70091	80	10	
70092	120	10	
70093	180	10	

Non Woven Flap Wheels

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



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 (Blue)	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 (Blue)	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 (Blue)	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 (Blue)	10	

FLAP WHEEL DRUMS

Metal Surface Flap Wheel Drum Sander

- Machine provides shadow free, transitionless finishes on metal.
- Electronic control and speed preselection allows for versatility.
- 5 Speed setting: 1,200-3,700 RPM.
- All products on pages 61-63 fit this tool.



Metal Surface Flap Wheel Drum Sander

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

Flap Wheel Drums with Keyhole Arbor

- 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

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	19.1 mm	40	5,800	5	72100	72106
4 x 4 x 3/4	19.1 mm	60	5,800	5	72101	72107
4 x 4 x 3/4	19.1 mm	80	5,800	5	72102	72108
4 x 4 x 3/4	19.1 mm	120	5,800	5	72103	72109



View Video
youtube.com/CGWCamel



CGW USA



FLAP WHEEL DRUMS

Interleaf Flap Wheel Drums with Keyhole Arbor

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



5/8 -11 Drum Right Angle & Straight Grinder Adaptor Kit
UPC #48572 (see page 63)

ALUMINUM OXIDE

Interleaf Flap Wheel Drum with Keyhole

SIZE	GRIT	RPM	CARTON QTY.	UPC#
4 x 4 x 3/4	40 / Medium	5,800	5	72110
4 x 4 x 3/4	60 / Medium	5,800	5	72111
4 x 4 x 3/4	80 / Medium	5,800	5	72112
4 x 4 x 3/4	120 / Medium	5,800	5	72113
4 x 4 x 3/4	180 / Medium	5,800	5	72114
4 x 4 x 3/4	240 / Medium	5,800	5	72115

Non-Woven Flap Wheel Drums with Keyhole Arbor

- 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.



5/8 -11 Drum Right Angle & Straight Grinder Adaptor Kit
UPC#48572 (see page 63)

ALUMINUM OXIDE

Non-Woven Flap Wheel Drum with Keyhole

SIZE	GRIT	RPM	CARTON QTY.	UPC#
4 x 4 x 3/4	Coarse	5,800	5	72116
4 x 4 x 3/4	Medium	5,800	5	72117
4 x 4 x 3/4	Fine	5,800	5	72118
4 x 4 x 3/4	Very Fine	5,800	5	72119



View Video

youtube.com/CGWCamel

Reduced Price Samples ▼



FLAP WHEEL DRUM ADAPTOR KIT

5/8 - 11 Flap Wheel Drum Right Angle Grinder & Straight Grinder Adaptor Kit

- Allows CGW keyhole arbor drums to fit onto 5/8 - 11 spindles - including competitive surface finishing machines and variable speed right angle grinders.
- 3-piece set includes one spindle sleeve, one screw and one Allen wrench.
- Available as a set or individually.



RIGHT ANGLE ADAPTER KIT	UPC #
3 piece set	48572



STEP 1. screw on the sleeve



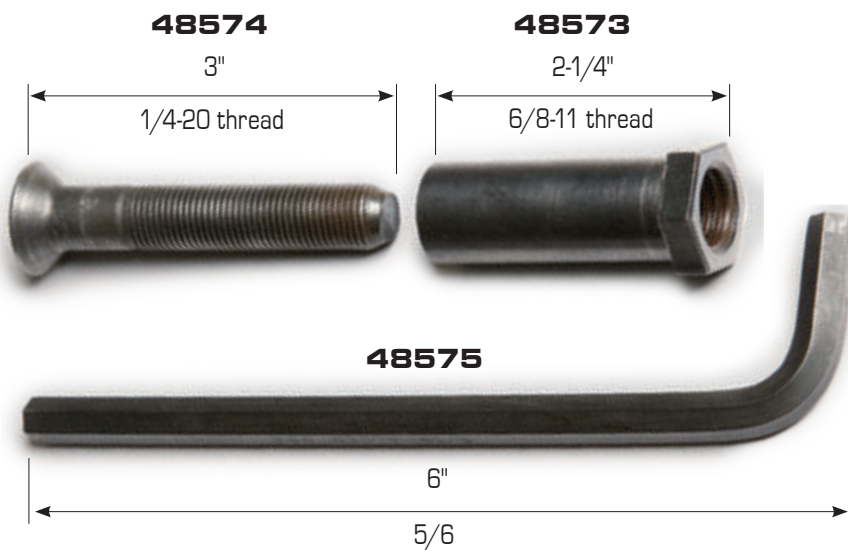
STEP 2. put flap wheel over the sleeve



STEP 3. screw on the nut



STEP 4. tighten nut with Allen wrench



UNMOUNTED FLAP WHEELS

Unmounted Flap Wheels

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

ALUMINUM OXIDE



4 x 1 x 5/8

8,000 R.P.M.

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

6 x 2 x 1

5,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41065	40 Grit	5
41066	60 Grit	5
41067	80 Grit	5
41069	120 Grit	5
41071	180 Grit	5

6 x 1 x 1

5,000 R.P.M.

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

8 x 1 x 1

4,000 R.P.M.

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

6 x 1 1/2 x 1

5,000 R.P.M.

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

8 x 2 x 1

4,000 R.P.M.

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

SHOP ROLLS

Shop Rolls

- High flexibility cotton cloth and bonding technology with special flexible Phenolic Resin instead of Urea type Resin. This bonding technology provides no grain shedding.
- Cotton cloth tears evenly and straight with no grain shedding so you can easily cut and shape your abrasive to your need.
- Semi-friable aluminum oxide abrasive grains provides aggressive sanding while long lasting performance. Grains fracture themselves to more aggressive sharper teeth instead of grinding themselves down flat like regular aluminum oxide grains.
- Crumbled cloth takes old form and does not lose integrity of abrasive.
- Perfect for plumbing, working on lathes, details of fine craftsmanship.



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
40	1	63092	63095	63098	10
60	1	63062	63072	63082	10
80	1	63063	63073	63083	10
100	1	63064	63074	63084	10
120	1	63065	63075	63085	10
150	1	63066	63076	63086	10
180	1	63067	63077	63087	10
220	1	63068	63078	63088	10
240	1	63069	63079	63089	10
320	1	63070	63080	63090	10
400	1	63071	63081	63091	10



SANDING SHEETS

9 X 11 SANDING SHEETS

9" x 11" Sanding Sheets - Aluminum Oxide

ALUMINUM OXIDE

CSA Stearated Paper Sheets

Aluminum Oxide, "A" Weight, Open Coat, Stearated



- Aluminum oxide grain treated with zinc stearate for non-loading lubricating effect. The best finishing sheet in the industry.

GRIT	UPC#	SLEEVE	WEIGHT	PACK
400	44836	100	A	1
320	44837	100	A	1
280	44838	100	A	1
240	919540	100	A	1
220	44839	100	A	1
180	919560	100	A	1
150	44840	100	A	1
120	44841	100	A	1
100	44842	100	A	1

Cabinet & Finishing Paper Sheets

Aluminum Oxide, "A" & "D" Weight, Open Coat



- Aluminum oxide grain coated on "D" weight paper for "Cabinet Paper" and on "A" weight paper for "Finishing Paper".

GRIT	UPC#	SLEEVE	WEIGHT	PACK
320	919370*	100	A	1
240	919380*	100	A	1
220	44881	100	A	1
180	44882	100	A	1
150	44883	100	A	1
120	44884	100	A	1
100	44885	100	A	1
80	44886	50	D	1
60	44887	50	D	1
50	44888	50	D	1

* While supplies last

Champ™ Paper Sheets

Aluminum Oxide, "B" Weight, Open Coat, Stearated



- Aluminum oxide grain treated with a film of zinc stearate for lubricating effect. Compare to Norton A275 & Carborundum Premier. For sanding metal or wood.

GRIT	UPC#	SLEEVE	WEIGHT	PACK
320	44829*	100	B	1
220	44830*	100	B	1
180	44831*	100	B	1
150	44832*	100	B	1
120	44833*	100	B	1
100	44834*	100	B	1
80	44835*	50	B	1

* While supplies last

DAF Cloth Sheets

Aluminum Oxide, "J" Weight, Closed Coat



- Used extensively for metal working and maintenance departments.

GRIT	UPC#	SLEEVE	WEIGHT	PACK
400	44917	50	J	1
320	44919	50	J	1
240	44921	50	J	1
220	44922	50	J	1
180	44923	50	J	1
150	44860	50	J	1
120	44924	50	J	1
100	44861	50	J	1
80	44862	50	J	1
60	44925	25	J	1

SANDING SHEETS



9" x 11" Sanding Sheets - Silicon Carbide

SILICON CARBIDE

WSC - Silicon Carbide Waterproof Paper Sheets

Silicon Carbide, "B" & "C" Weight



- Hand or random orbital sanders. Can be used wet or dry. For metal working applications and final sanding of lacquered wood products. Backing is latex paper.

GRIT	UPC#	SLEEVE	WEIGHT	PACK
2000	44889	50	B	1
1200	44865	50	B	1
1000	44866	50	B	1
800	44867	50	B	1
600	44843	50	B	1
500	44868	50	B	1
400	44844	50	B	1
320	44845	50	B	1
240	44871	50	B	1
220	44846	50	C	1
180	44847	50	C	1
150	44872	50	C	1
120	44848	50	C	1
100	44849	50	C	1
80	44873	50	C	1
60	44890	50	C	1

S13T - Silicon Carbide Stearated Sheets

Silicon Carbide, "A Weight, Closed Coat



- Silicon carbide grain treated with zinc stearate for non-loading lubricating effect. For sanding and finishing of very hard surfaces such as lacquer and enamels.

GRIT	UPC#	SLEEVE	WEIGHT	PACK
400	44850	100	A	1
320	44851	100	A	1
280	44852	100	A	1
240	44853	100	A	1
220	44854	100	A	1
180	44855	100	A	1
150	44856	100	A	1
120	44857	100	A	1
100	44858	100	A	1
80	44859	50	A	1

Sanding Sponges & Blocks

ALUMINUM OXIDE

Sanding Sponges

Silicon Carbide, Closed Coat

3-7/8 x 4-3/4 x 1/2"

GRIT	UPC#	PACK
100	44821	50
150	44822	50
180	44823	50
220	44824	50

Sanding Blocks

Brown Aluminum Oxide, Closed Coat

2-3/4 x 4 x 1"

GRIT	UPC#	PACK
100	44825	50
180	44826	50



HI-FLEX Sanding Sponges

White Aluminum Oxide, Closed Coat

5-1/2 x 4-1/2 x 3/16"

GRIT	UPC#	PACK
100	44827	50
220	44828	50

CARTRIDGE ROLLS

Straight Cartridge Rolls

Aluminum Oxide, "X" Weight, Closed Coat

- Tightly wound abrasive material wears away exposing new layers of material. For grinding, deburring, blending, polishing and finishing.

ALUMINUM OXIDE



44667

Straight

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
Diameter x Length x Hole (Inch)				
3/16 x 1 x 3/32			23,000 RPM	
80	44640		100	44759
120	44641		100	44759
1/4 x 1 x 1/8			23,000 RPM	
60	44642	686089	100	44760
80	44643	686088	100	44760
120	44644	686086	100	44760
320	44645	686081	100	44760
1/4 x 1-1/2 x 1/8			23,000 RPM	
60	44646	686109	100	44761
80	44647	686108	100	44761
120	44648	686106	100	44761
180	44649	686104	100	44761
240	44650	686102	100	44761
3/8 x 1 x 1/8			23,000 RPM	
60	44651	686249	100	44760
80	44652	686248	100	44760
120	44653	686246	100	44760
180	44654	686244	100	44760
3/8 x 1-1/2 x 1/8			23,000 RPM	
60	44655	686269	100	44761
80	44656	686268	100	44761
120	44657	686266	100	44761
180	44658	686264	100	44761
3/8 x 2 x 1/8			23,000 RPM	
60	44659	686289	100	44762
80	44660	686288	100	44762
120	44661	686286	100	44762
1/2 x 1 x 1/8			23,000 RPM	
60	44662	686349	100	44760
80	44663	686348	100	44760
120	44664	686346	100	44760
180	44665	686344	100	44760

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
Diameter x Length x Hole (Inch)				
1/2 x 1-1/2 x 1/8			23,000 RPM	
40	44666	686371	100	44761
60	44667	686369	100	44761
80	44668	686368	100	44761
120	44669	686366	100	44761
180	44670	686364	100	44761
240	44671	686362	100	44761
320	44672	686361	100	44761
1/2 x 2 x 1/8			23,000 RPM	
60	44673	686389	100	44762
80	44674	686388	100	44762
120	44675	686386	100	44762
5/8 x 1-1/2 x 3/16			18,000 RPM	
60	44676	686429	100	44765
80	44677	686428	100	44765
120	44678	686426	100	44765
3/4 x 1-1/2 x 1/4			18,000 RPM	
60	44679		100	44763
80	44680		100	44763
120	44681		100	44763
3/4 x 2 x 1/4			18,000 RPM	
60	44682		100	44764
80	44683		100	44764
120	44684		100	44764
1 x 1-1/2 x 1/4			15,000 RPM	
60	44685		100	44763
80	44686		100	44763
120	44687		100	44763
1 x 2 x 1/4			15,000 RPM	
60	44688		100	44764
80	44689		100	44764



PASCO

CARTRIDGE ROLLS & MANDRELS

Full Taper Cartridge Rolls

Aluminum Oxide, "X" Weight, Closed Coat

- Tightly wound abrasive material wears away exposing new layers of material. For grinding, deburring, blending, polishing and finishing.

ALUMINUM OXIDE



44706

Full Taper

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
3/8 x 1 x 1/8 23,000 RPM				
60	44694	686749	100	44760
80	44695	686748	100	44760
120	44696	686746	100	44760
180	44697	686744	100	44760
240	44698	686742	100	44760
3/8 x 1-1/2 x 1/8 23,000 RPM				
60	44699	686769	100	44761
80	44700	686768	100	44761
120	44701	686766	100	44761
180	44702	686764	100	44761
1/2 x 1 x 1/8 23,000 RPM				
60	44703	686849	100	44760
80	44704	686848	100	44760
120	44705	686846	100	44760

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
1/2 x 1-1/2 x 1/8 23,000 RPM				
60	44706	686869	100	44761
80	44707	686868	100	44761
120	44708	686866	100	44761
180	44709	686864	100	44761
5/8 x 1-1/2 x 1/8 18,000 RPM				
60	44710		100	44761
80	44711		100	44761
120	44712		100	44761
3/4 x 1-1/2 x 1/8 18,000 RPM				
60	44713		100	44761
80	44714		100	44761
120	44715		100	44761

Mandrels



Mandrel - Cartridge Rolls*

STYLE #	UPC #	PILOT DIA.	PILOT LENGTH	SHANK DIA.	SHANK LENGTH
CR1	44759	5/64	1	1/8	1
CR4	44760	1/8	3/4	1/8	1
CR6	44761	1/8	1	1/8	1
CR6	44762	1/8	1-1/2	1/8	1

STYLE #	UPC #	PILOT DIA.	PILOT LENGTH	SHANK DIA.	SHANK LENGTH
CR21	44763	1/4	1	1/4	1-1/4
CR22	44764	1/4	1-1/2	1/4	1-1/4
CR13	44765	3/16	3/4	1/8	1

Threaded Mandrel - Cross & Square Pad*

UPC #	SIZE	FITS EYELET	STYLE #	SHANK DIA.	LNQ.
44756	1/4 x 2-1/2	PA-3-48	PM-348-2	1/4	3
44757	1/4 x 3	PA-8-32	PM-832	1/4	3
44758	1/4 x 4	PA-1/4-20	PM-1420-4	1/4	3

***Sold in polybags of 1 each.**

SPIRAL BANDS

Spiral Bands

- Aluminum oxide grain.
- Spiral wound bands are used with rubber expanding drums.
- For grinding contours on most materials.

ALUMINUM OXIDE



Spiral Bands

UPC #	GRIT	BOX QTY	RUBBER EXPANDING DRUM
Diameter x Length (Inch)			
1/2 x 1/2		30,000 RPM	
44601	60	100	44746
44602	80	100	44746
44603	120	100	44746
1/2 x 1		15,000 RPM	
44604	60	100	44747
44605	80	100	44747
44606	120	100	44747
1/2 x 1-1/2		12,000 RPM	
44607	60	100	44748
44608	80	100	44748
44609	120	100	44748
3/4 x 1		19,000 RPM	
44610	36	100	44749
44611	60	100	44749
44612	80	100	44749
44613	120	100	44749
3/4 x 1-1/2		10,000 RPM	
44614	60	100	44750
44615	80	100	44750
44616	120	100	44750
1 x 1		18,000 RPM	
44617	36	100	44751
44618	60	100	44751
44619	80	100	44751
44620	120	100	44751

UPC #	GRIT	BOX QTY	RUBBER EXPANDING DRUM
Diameter x Length (Inch)			
1-1/2 x 1		8,000 RPM	
44621	36	100	44752
44622	60	100	44752
44623	80	100	44752
44624	120	100	44752
1 x 2		8,000 RPM	
44716	36	100	44767
44717	60	100	44767
44718	80	100	44767
44741	120	100	44767
1-1/2 x 1-1/2		10,000 RPM	
44625	36	100	44753
44626	60	100	44753
44627	80	100	44753
44628	120	100	44753
2 x 2		6,000 RPM	
44629	36	50	44754
44630	60	50	44754
44631	80	50	44754
44632	120	50	44754
3 x 3		3,000 RPM	
44633	36	50	44755
44634	60	50	44755
44635	80	50	44755
44636	120	50	44755



RUBBER EXPANDING DRUMS

Rubber Expanding Drums

- Designed for easy on and off of spiral bands.
- No tools or spindle nuts required.
Centrifugal force holds the spiral band in place.

Rubber Expanding Drum with 1/4" Shank

UPC #	PASCO #	SIZE	MAX RPM	BOX QTY
44746	N/A	1/2 x 1/2 x 1/4	30,000	1
44747	N/A	1/2 x 1 x 1/4	20,000	1
44748	N/A	1/2 x 1-1/2 x 1/4	14,000	1
44749	750002	3/4 x 1 x 1/4	19,000	1
44750	750003	3/4 x 1-1/2 x 1/4	13,500	1
44751	750012	1 x 1 x 1/4	15,000	1
44752	750022	1-1/2 x 1 x 1/4	14,000	1
44767	750184	1 x 2 x 1/4	8,000	1
44753	750023	1-1/2 x 1-1/2 x 1/4	10,000	1
44754	750034	2 x 2 x 1/4	6,000	1
44755	N/A	3 x 3 x 3/8	3,000	1



Cross Pads

- Aluminum oxide grain with resin bond.
- For deburring, blending, and polishing of tubing and cylinders.

See page 67 for Mandrels.

GRIT	UPC #	BOX QTY	USE WITH MANDREL
Length x Width (Inch)			
1 x 1	3-48 Eyelet	25,000 RPM	
60	44720	100	44756
80	44721	100	44756
120	44722	100	44756
1-1/2 x 1/2	8-32 Eyelet	23,000 RPM	
60	44723	100	44757
80	44724	100	44757
120	44725	100	44757
2 x 1/2	3-48 Eyelet	23,000 RPM	
60	44726	100	44757
80	44727	100	44757
120	44728	100	44757
2 x 3/4	8-32 Eyelet	23,000 RPM	
60	44732	100	44758
80	44733	100	44758
120	44734	100	44758

GRIT	UPC #	BOX QTY	USE WITH MANDREL
Length x Width (Inch)			
2 x 1	8-32 Eyelet	23,000 RPM	
60	44729	100	44757
80	44730	100	44757
120	44731	100	44757
3 x 1	1/4-20 Eyelet	14,000 RPM	
60	44735	100	44758
80	44736	100	44758
120	44737	100	44758
4 x 1	1/4-20 Eyelet	14,000 RPM	
60	44738	100	44758
80	44739	100	44758
120	44740	100	44758

WIDE BELTS



Aluminum Oxide Cloth Backed Wide Belts

XW341 "X" Weight

- Our most popular cloth wide belt (most common sizes in stock).
- For hardwood sanding (grits: 36 - 220).
- X-Weight, poly cotton backing. **Open coat.**

ALUMINUM OXIDE

*All Jumbo Material
Stocked at PASCO
(Buena Park, CA).*



XW341

37 x 60" XW341 Aluminum Oxide Open Coat, "X" Weight

UPC#	MATERIAL	SIZE	GRIT	WEIGHT	UNIT QTY.
52870	XW341	37 x 60	80	X	3
52871	XW341	37 x 60	100	X	5
52872	XW341	37 x 60	120	X	5
52873	XW341	37 x 60	150	X	5
52874	XW341	37 x 60	180	X	5

37 x 75" XW341 Aluminum Oxide Open Coat, "X" Weight

52875	XW341	37 x 75	80	X	3
52876	XW341	37 x 75	100	X	5
52877	XW341	37 x 75	120	X	5
52878	XW341	37 x 75	150	X	5
52879	XW341	37 x 75	180	X	5

43 x 75" XW341 Aluminum Oxide Open Coat, "X" Weight

52885	XW341	43 x 75	80	X	3
52886	XW341	43 x 75	100	X	5
52887	XW341	43 x 75	120	X	5
52888	XW341	43 x 75	150	X	5
52889	XW341	43 x 75	180	X	5

52 x 75" XW341 Aluminum Oxide Open Coat, "X" Weight

52895	XW341	52 x 75	80	X	3
52897	XW341	52 x 75	120	X	5
52899	XW341	52 x 75	180	X	5

52 x 103" XW341 Aluminum Oxide Open Coat, "X" Weight

52890	XW341	52 x 103	80	X	3
52892	XW341	52 x 103	120	X	5
52894	XW341	52 x 103	180	X	5

54 x 103" XW341 Aluminum Oxide Open Coat, "X" Weight

52901	XW341	54 x 103	120	X	5
52902	XW341	54 x 103	150	X	5
52903	XW341	54 x 103	180	X	5

GRITS AVAILABLE:
36, 40, 50, 60, 80,
100, 120, 150, 180, 220



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Aluminum Oxide Cloth Backed Wide Belts

R192 "X & Y" Weight

- "Y" weight polyester resin bond for 80 grit and coarser.
- "X" weight polyester resin bond for 100 grit and finer.
- Polyester resin bond backing, may be used wet or dry.
- Grinding aid for cool cutting action and longer life.
- For stainless steel, nickel alloy and tool steel.
- Ideal for wide belts for metal working; cost effective.
- For belts up to 53" wide.
- X & Y-weight backing. **Closed coat.**

ALUMINUM OXIDE

*All Jumbo Material
Stocked at PASCO
(Buena Park, CA).*



R192

ALUMINUM OXIDE CLOTH BACKED WIDE BELTS

R192 "X" & "Y" Weight Wide Belts **37 x 60**

UPC#	MATERIAL	SIZE	GRIT	WEIGHT	UNIT QTY.
52861	R192	37 x 60	80	Y	3
52862	R192	37 x 60	100	Y	5
52863	R192	37 x 60	120	Y	5
52864	R192	37 x 60	150	Y	5
52865	R192	37 x 60	180	X	5

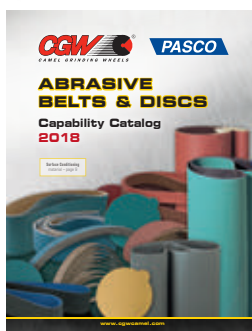
R192 "X" & "Y" Weight Wide Belts **37 x 75**

UPC#	MATERIAL	SIZE	GRIT	WEIGHT	UNIT QTY.
52868	R192	37 x 75	180	X	5
52869	R192	37 x 75	220	X	5
52866	R192	37 x 75	120	Y	5
52867	R192	37 x 75	150	Y	5

GRITS AVAILABLE:

80, 100, 120, 150, 180,
220, 240, 320

- ★ CGW/PASCO offer fill line of coated and surface conditioning belts & discs
- ★ Special make belts & discs programs are available upon request
- ★ Call CGW/PASCO CSR for program details



2018 Abrasive Belts & Discs Capability Catalog

www.cgwcamel.com



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CLOTH ZIRCONIA BELTS

"Y" Weight Zirconia Cloth Backed Belts - Long Life



R203

Zirconia AO with Grinding Aid, "Y" Weight

#1 Seller!

- Very cool cutting and long belt life.
- Two coatings of grinding aid for use in severe grinding applications.
- Competitively priced - even against ceramic products.
- Can be used on stainless steel, alloy, and aluminum.
Ideal for foundry and investment castings.
- For belts up to 53" wide.
- Y-weight backing. **Closed coat.**

ZIRCONIA AO
w/GRINDING AID

BACKING	BOND	COATING	ANTISTATIC
Y	R/R	CC	NO

R203 Zirconia Belts

UPC #	SIZE	GRIT	MIN QTY	STD PACKAGE	MATERIAL
53358	1/4 x 18	40	10	100	ZAG
53359	1/4 x 18	60	10	100	ZAG
53360	1/4 x 18	80	10	100	ZAG
53361	1/4 x 24	40	10	100	ZAG
53362	1/4 x 24	60	10	100	ZAG
53363	1/4 x 24	80	10	100	ZAG
53414	1/2 x 18	40	10	100	ZAG
53415	1/2 x 18	60	10	100	ZAG
53416	1/2 x 18	80	10	100	ZAG
53417	1/2 x 24	40	10	100	ZAG
53418	1/2 x 24	60	10	100	ZAG
53419	1/2 x 24	80	10	100	ZAG
53420	3/4 x 18	40	10	100	ZAG
53421	3/4 x 18	60	10	100	ZAG
53422	3/4 x 18	80	10	100	ZAG
53423	1 x 42	36	10	50	ZAG
53424	1 x 42	60	10	50	ZAG
53425	1 x 42	80	10	50	ZAG
53426	2 x 48	36	10	50	ZAG
53427	2 x 48	60	10	50	ZAG
53428	2 x 48	80	10	50	ZAG
53429	2 x 72	36	10	50	ZAG
53430	2 x 72	60	10	50	ZAG
53431	2 x 72	80	10	50	ZAG
53432	3 x 132	36	10	50	ZAG
53433	3 x 132	60	10	50	ZAG
53434	3 x 132	80	10	50	ZAG
53435	6 x 48	36	10	50	ZAG
53436	6 x 48	60	10	50	ZAG
53437	6 x 48	80	10	50	ZAG

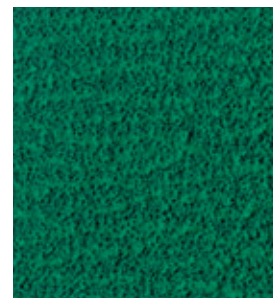


R203 GRITS:

24, 36, 40, 50, 60, 80,
100, 120



All Jumbo Material
Stocked at PASCO
(Buena Park, CA).



R203

Converted in USA

FILE BELTS

File & Portable, Benchstand and Backstand Belts

■ 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 backing for aggressive use and heavy duty applications.
- For steel and stainless steel.



ALUMINUM OXIDE

ZIRCONIA



File Belts

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

GRIT	MIN QTY	STD PACKAGE	1/4 x 18		1/4 x 24		1/2 x 12		1/2 x 18	
			A3-AO	Z3®-ZA	A3-AO	Z3®-ZA	A3-AO	Z3®-ZA	A3-AO	Z3®-ZA
24	10	100	61008	61506	61016	61512	61024	61518	61032	61524
36	10	100	61009	61507	61017	61513	61025	61519	61033	61525
40	10	100	61010	61508	61018	61514	61026	61520	61034	61526
50	10	100	61011	61509	61019	61515	61027	61521	61035	61527
60	10	100	61012	61510	61020	61516	61028	61522	61036	61528
80	10	100	61013	61511	61021	61517	61029	61523	61037	61529
100	10	100	61014		61022		61030		61038	
120	10	100	61015		61023		61031		61039	

GRIT	MIN QTY	STD PACKAGE	1/2 x 24		3/4 x 18		1 x 30*	
			A3-AO	Z3®-ZA	A3-AO	Z3®-ZA	A3-AO	Z3®-ZA
24	10	100	61040	61530	61056	61542	61080	61554
36	10	100	61041	61531	61057	61543	61081	61555
40	10	100	61042	61532	61058	61544	61082	61556
50	10	100	61043	61533	61059	61545	61083	61557
60	10	100	61044	61534	61060	61546	61084	61558
80	10	100	61045	61535	61061	61547	61085	61559
100	10	100	61046		61062		61086	
120	10	100	61047		61063		61087	

* 1 x 30 has standard package quantity of 50

Converted in USA

FILE BELTS

Portable, Benchstand and Backstand Belts

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



			1 x 42	
GRIT	MIN QTY	STD PACKAGE	A3-A0	Z3®-ZA
24	10	50	61088	61560
36	10	50	61089	61561
40	10	50	61090	61562
50	10	50	61091	61563
60	10	50	61092	61564
80	10	50	61093	61565
100	10	50	61094	
120	10	50	61095	
180	10	50	61096	
220	10	50	61097	
240	10	50	61098	
320	10	50	61099	

			2 x 48		2 x 60	2 x 72	2 x 132*
GRIT	MIN QTY	STD PKG	A3-A0	Z3®-ZA	A3-A0	A3-A0	A3-A0
24	10	50	61116	61578	61124	61132	61156
36	10	50	61117	61579	61125	61133	61157
40	10	50	61118	61580	61126	61134	61158
50	10	50	61119	61581	61127	61135	61159
60	10	50	61120	61582	61128	61136	61160
80	10	50	61121	61583	61129	61137	61161
100	10	50	61122		61130	61138	61162
120	10	50	61123		61131	61139	61163

* 2 x 132 has standard package quantity of 10



Converted in USA

Portable, Benchstand and Backstand Belts

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



GRIT	MIN QTY	STD PKG	3 x 18	3 x 21	3 x 24	3 x 90	3 x 132*
			A3-A0	A3-A0	A3-A0	Z3®-ZA	A3-A0
24	10	50	61164	61177	61190	61602	61227
36	10	50	61165	61178	61191	61603	61228
40	10	50	61166	61179	61192	61604	61229
50	10	50	61167	61180	61193	61605	61230
60	10	50	61168	61181	61194	61606	61231
80	10	50	61169	61182	61195	61607	61232
100	10	50	61170	61183	61196		61233
120	10	50	61171	61184	61197		61234
150	10	50	61172	61185	61198		
180	10	50	61173	61186	61199		
220	10	50	61174	61187	61200		
240	10	50	61175	61188	61201		
320	10	50	61176	61189	61202		

* 3 x 132 has standard package quantity of 10

GRIT	MIN QTY	STD PKG	4 x 24	4 x 36	4 x 132*		6 x 48**	
			A3-A0	A3-A0	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA
24	10	50	61248	61261	61282	61626	61290	61632
36	10	50	61249	61262	61283	61627	61291	61633
40	10	50	61250	61263	61284	61628	61292	61634
50	10	50	61251	61264	61285	61629	61293	61635
60	10	50	61252	61265	61286	61630	61294	61636
80	10	50	61253	61266	61287	61631	61295	61637
100	10	50	61254	61267	61288		61296	
120	10	50	61255	61268	61289		61297	
150	10	50	61256	61269			61298	
180	10	50	61257	61270			61299	
220	10	50	61258	61271			61300	
240	10	50	61259	61272			61301	
320	10	50	61260	61273			61302	

* 4 x 132 has standard package quantity of 10

** 6 x 48 has standard package quantity of 20

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SURFACE CONDITIONING

SURFACE CONDITIONING



SURFACE CONDITIONING BELTS

Surface Conditioning Belts

Surface Conditioning material utilizes a substrate base (nylon fiber), a resin bond (phenolic or polyurethane) and abrasive grain (aluminum oxide, silicon carbide, alumina silicate). The fiber and resin are fully waterproof so the product can be used wet or dry. The structure is extremely open so that the product resists loading and runs cool compared to coated abrasives.

The product is available in three grades:

Coarse (Brown) – equivalent to 120 grit finish; **Medium** (Maroon) – equivalent to 180 grit finish; **Very Fine** (Blue) – equivalent to 320 grit finish. X-Flex material is modified to give increased flexibility as the belt has to run around a small diameter contact wheel (less than 1") without cracking. For longer belts. Low Stretch material resists stretch in the length direction.

- For cleaning, finishing, blending and deburring applications.
- Belts provide a linear grain scratch pattern for blending stainless welds.
- Blends and finishes without undercutting or gouging work pieces.
- Belts 40 inches and less are made from X-Flex material for flexibility. For hand held tools.
- Belts 40 inches and higher are made from Low Stretch material for reliable dimension holding – no stretching. For stationary machines.



SIZE	MATERIAL TYPE	STD PKG	COARSE BROWN	MEDIUM MAROON	VERY FINE BLUE
X-Flex Belts					
1/4 x 18	X-Flex	10	59220	59221	59222
1/4 x 24	X-Flex	10	59223	59224	59225
1/2 x 12	X-Flex	10	59226	59227	59228
1/2 x 18	X-Flex	10	59229	59230	59231
1/2 x 24	X-Flex	10	59232	59233	59234
3/4 x 18	X-Flex	10	59235	59236	59237
3/4 x 20-1/2	X-Flex	10	59238	59239	59240
1 x 18	X-Flex	10	59241	59242	59243
1 x 30	X-Flex	10	59244	59245	59246
2-3/4 x 15-1/2	X-Flex	10	59268	59269	59270
3 x 10-11/16	X-Flex	10	59271	59272	59273
3 x 18	X-Flex	10	59274	59275	59276
New 3 x 21	X-Flex	10	59306	59307	59308
3 x 24	X-Flex	10	59277	59278	59279
3-1/2 x 15-1/2	X-Flex	10	59283	59284	59285
4 x 24	X-Flex	10	59286	59287	59288

SIZE	MATERIAL TYPE	STD PKG	COARSE BROWN	MEDIUM MAROON	VERY FINE BLUE
Low Stretch Belts					
1 x 42	Low Stretch	10	59247	59248	59249
New 1 x 72	Low Stretch	10	59309	59310	59311
1 x 132	Low Stretch	10	59250	59251	59252
2 x 48	Low Stretch	10	59253	59254	59255
2 x 60	Low Stretch	10	59256	59257	59258
2 x 72	Low Stretch	10	59259	59260	59261
2 x 132	Low Stretch	5	59262	59263	59264
2-1/2 x 60	Low Stretch	10	59265	59266	59267
3 x 132	Low Stretch	5	59280	59281	59282
New 4 x 54	Low Stretch	10	59312	59313	59314
New 4 x 72	Low Stretch	10	59315	59316	59317
4 x 132	Low Stretch	5	59289	59290	59291
4 x 168	Low Stretch	5	59292	59293	59294
6 x 48	Low Stretch	5	59295	59296	59297

Converted in USA

FLAP DISCS

Surface Conditioning Flap Discs

- Premium surface conditioning material for surface preparation.
- Three different grits for blending, deburring, and cleaning.
- For steel and stainless steel.
- Coarse discs (brown) are 120 grit.
- Medium discs (maroon) are 180 grit.
- Very Fine discs (blue) are 320 grit.
- Please operate at 3,000 RPM for optimal performance.



Medium/Maroon
180 grit

Very Fine/Blue
320 grit

Coarse/Brown
120 grit



Type 29

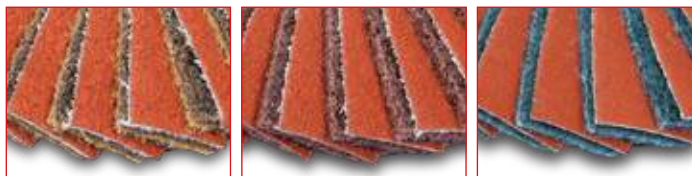
See pages 11-28 for More Flap Discs.

SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC#	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	70120	70122	70124
4-1/2 x 5/8-11	13,300	2,700-5,000	10	70121	70123	70125
5 x 7/8	12,200	2,500-4,500	10	70185	70187	70189
5 x 5/8-11	12,200	2,500-4,500	10	70186	70188	70190

Interleaf Flap Discs

Grind and finish with one disc – save time and money

- Stainless steel finishing, light grinding, deburring.
- Alternating flaps of non-woven and coated abrasive materials provide uniform, consistent finishes with very little heat.
- Top size aluminum oxide poly cotton material for cool, yet fast cutting action for long life.
- European made non-woven material for non-smearing high grade finishes.
- Three grit levels of discs for a variety of work including stainless steel, aluminum, brass, steel sheet metal.
- Please operate at 3,000 RPM for optimal performance



COARSE
Brown - 120 grit

MEDIUM
Maroon - 180 grit
Perfect satin finish,
achieves #4 finish

VERY FINE
Blue - 320 grit
High mirror polish

TOP SIZE ALUMINUM OXIDE



Type 29



SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC#	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	49686	49687	49688
4-1/2 x 5/8-11	13,300	2,700-5,000	10	49689	49690	46691
5 x 7/8	12,200	2,500-4,500	10	49692	49693	49694
5 x 5/8-11	12,200	2,500-4,500	10	49695	49696	49697

SURFACE CONDITIONING

Felt/Wool Discs - Buffing For fast mirror finishes



- Stainless steel, aluminum, sheet metal mild steel and brass.
- Flexible felt/wool disc easily works with contoured surfaces for consistent polishing action.
- Cool working action without burning.
- Designed for smooth polishing action.
- 100% virgin wool.
- **MUST USE WITH BUFFING COMPOUND.**

Type 27



UPC#	SIZE	RPM	CARTON QTY
49698	4-1/2 x 7/8	13,300	10
49700	4-1/2 x 5/8-11	13,300	10
49699	5 x 7/8	12,200	10
49701	5 x 5/8-11	12,200	10

Buffing Compound



- Compounds will not discolor metals.
- White SS51 (1,200 grit) compound helps buff aluminum, steel, stainless and natural stone to the desired finish without adding scratches. High gloss finish.
- Green C-3 (2,000 grit) premium buffing compound works on aluminum, steel and stainless steels and eliminates drag lines while still achieving the desired finish and maximum luster.

UPC#	DESCRIPTION	GRIT	COLOR	CARTON QTY
49652	White SS51 Polishing Compound	1,200	White	1
49653	Green C-3 Polishing Compound	2,000	Green	1

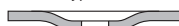
Type 27 Unitized Economy Fiberglass Backed Wheels

- 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.



Improved

Type 27



ALUMINUM OXIDE

SILICON CARBIDE

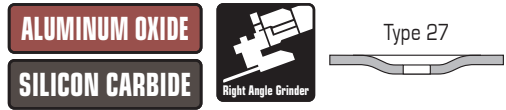


UPC#	SIZE	GRAIN	DENSITY / GRADE	RPM	CARTON QTY
72070	4-1/2 x 7/8	AO	Soft / Very Fine	11,000	10
72071	4-1/2 x 5/8-11	AO	Soft / Very Fine	11,000	10
72072	4-1/2 x 7/8	AO	Medium / Fine	11,000	10
72073	4-1/2 x 5/8-11	AO	Medium / Fine	11,000	10
72074	4-1/2 x 7/8	AO	Hard / Medium	11,000	10
72075	4-1/2 x 5/8-11	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

UNITIZED WHEELS

Premium Unitized Right Angle Grinder Wheels

- 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.



SIZE	RPM	CARTON QTY	2 / S / FINE UPC#	3 / S / FINE UPC#	6 / A / MEDIUM UPC#
Unitized Fiberglass Backed Wheels					
4-1/2 x 7/8	11,000	10	72050	72051	72052
4-1/2 x 5/8-11	11,000	10	72055	72056	72057
5 x 7/8	10,000	10	72053		72054
5 x 5/8-11	10,000	10	72058		72059

A=Aluminum Oxide, S=Silicon Carbide

SURFACE PREP WHEELS

Surface Preparation Wheels

- Non-woven material impregnated with abrasive grains for blending, finishing and removal of paint and rust.
- Blends and smooths coated abrasive scratch patterns.
- Easily removes welding or cutting discoloration on stainless steel.
- Compact backing minimizes work piece scratches, allows for full use of disc material and softer/buffing-like finishing
- Use on steel, aluminum, stainless and nonferrous metals
- **Fine/AO (maroon) wheels** ideal for cleaning, blending and finishing stainless steel.
- Very Fine/SC (gray) wheels for light finishes on metal, wood, composites and satin finishing aluminum.



SIZE	RPM	BOX QTY	UPC#	GRAIN	GRADE	UPC#	GRAIN	GRADE
Surface Preparation T27 Wheels								
4 x 5/8	13,700	10	53241	A/O Maroon	Fine	53246	S/C Gray	Very Fine
4-1/2 x 7/8	13,300	10	53242	A/O Maroon	Fine	53247	S/C Gray	Very Fine
4-1/2 x 5/8-11	13,300	10	53243	A/O Maroon	Fine	53248	S/C Gray	Very Fine
7 x 7/8	8,500	10	53244	A/O Maroon	Fine	53249	S/C Gray	Very Fine
7 x 5/8-11	8,500	10	53245	A/O Maroon	Fine	53250	S/C Gray	Very Fine



UPC#	SIZE	GRAIN	GRADE	RPM	BOX QTY
Aluminum Oxide Roll On Surface Preparation Discs					
53251	2" Medium	Aluminum Oxide Maroon	Medium	25,000	25
53252	3" Medium	Aluminum Oxide Maroon	Medium	20,000	10
Silicon Carbide Roll On Surface Preparation Discs					
53253	2" Super Fine	Silicon Carbide Gray	Super Fine	25,000	25
53254	3" Super Fine	Silicon Carbide Gray	Super Fine	20,000	10

CONVOLUTE WHEELS

Convolute Wheels

- 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.

■ 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, stainless steel, titanium and composite materials.
- **8S & 9S fine good for aluminum.**



ALUMINUM OXIDE

SILICON CARBIDE



SIZE	RPM	CARTON QTY	7 / S / FINE UPC#	8 / A / MEDIUM UPC#	8 / S / FINE UPC#	9 / S / FINE UPC#
Deburring Wheels – General Purpose						
6 x 1/2 x 1	6,000	4	70130	70131	70132	70133
6 x 1 x 1	6,000	2	70134	70135	70136	70137
8 x 1/2 x 3	4,500	4	70138	70139	70140	70141
8 x 1 x 3	4,500	2	70142	70143	70144	70145
8 x 2 x 3	4,500	1			70148	70149

A=Aluminum Oxide, S=Silicon Carbide

Deburring Wheels - Metal and Multi Finishing

For metal, plastic and composite materials.

Metal

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

Multi Finishing

- Made for general purpose cleaning, rust removal and removal of discoloration from welds.
- Long life, high stock removal, conforms to work piece.
Runs directional.



ALUMINUM OXIDE

SILICON CARBIDE



SIZE	RPM	CARTON QTY	MULTI FINISHING		METAL
			2 / S / COARSE UPC#	2 / S / MEDIUM UPC#	5 / A / MEDIUM UPC#
6 x 1x 1	6,000	2	70154	70155	70150
6 x 2 x 1	6,000	1	70156	70157	70151
8 x 1 x 3	4,500	2		70159	70152
8 x 2 x 3	4,500	1		70160	70153

A=Aluminum Oxide, S=Silicon Carbide

CONVOLUTE & UNITIZED WHEELS

Unitized Wheels with Arbor Hole

- 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.
- For metal, stainless steel, titanium and composite materials.



ALUMINUM OXIDE

SILICON CARBIDE



SIZE	RPM	CARTON QTY	UPC#				
			2 / S / FINE	3 / S / FINE	2 / A / MEDIUM	6 / A / MEDIUM	8 / A / COARSE
Unitized Wheels – with hole							
1 x 1 x 3/16	35,100	40				72000	72001
3 x 1/8 x 1/4	15,100	25				72010	72011
3 x 1/8 x 3/8	15,100	25		72012			
3 x 1/4 x 1/4	15,100	25		72013			
3 x 1/4 x 3/8	15,100	25	72002	72014	72003	72004	72005
3 x 1/2 x 1/4	15,100	25		72015			
3 x 1/2 x 3/8	15,100	25		72016			
6 x 1/8 x 1	7,500	10		72019			
6 x 1/4 x 1/2	7,500	5		72017			
6 x 1/4 x 1	7,500	5	72006	72020	72007		
6 x 1/2 x 1/2	7,500	10		72018			
6 x 1/2 x 1	7,500	10	72008		72009		

Unitized Quick Change Wheels - Roll On

- 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



**Rubber Holder
Pads Required**
(see page 56 for full program)

SIZE	RPM	DENSITY / GRAIN / GRADE	UPC#	CARTON QTY
Unitized Wheels – Quick Change, Roll On				
2"	22,100	2 / S / Fine	72040	10
		2 / A / Medium	72041	
		3 / S / Fine Line	72046	
		6 / A / Medium	72042	
3"	15,100	2 / S / Fine	72043	10
		2 / A / Medium	72044	
		3 / S / Fine Line	72047	
		6 / A / Medium	72045	

A=Aluminum Oxide, S=Silicon Carbide

EZ STRIP WHEELS

EZ Strip Wheels

- 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

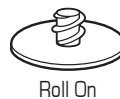
UPC#	SIZE	RPM	CARTON QTY
59204	4-1/2 x 7/8	11,000	10
59205	4-1/2 x 5/8-11	11,000	10
59208	5 x 7/8	9,800	10
59209	5 x 5/8-11	9,800	10
59206	7 x 7/8	7,000	10
59207	7 x 5/8-11	7,000	10

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

EZ Strip Wheels - Roll On

- Roll-on attachment for easy attachment.
- **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, Roll On

UPC#	SIZE	RPM	CARTON QTY
59060	2 x 1/2	10,500	10
59062	3 x 1/2	7000	10

EZ Strip Wheels - Black, Roll On

UPC#	SIZE	RPM	CARTON QTY
59061	2 x 1/2	10,500	10
59063	3 x 1/2	7000	10

EZ Strip Wheels With 1/2" Arbor Hole

- 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 Single EZ Strip Wheels	1
70045	5/16 x M12 (1/2" hole) shaft for Double EZ Strip Wheels	1

*While supplies last.

EZ Strip Wheels With 1/4" Spindle

- 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

SURFACE CONDITIONING DISCS

Surface Conditioning Discs - Hook and Loop

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

Surface Conditioning Discs - Hook and Loop

- 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.
- *Use with 48224, 48225 and 48226 backup pad.



Surface Conditioning Discs with Arbor Hole

UPC#	SIZE	SPEC.	RPM	CARTON QTY	BACKING PAD UPC#
70029	4-1/2 x 7/8	Coarse – Tan	12,000	10	48224
70030	4-1/2 x 7/8	Medium – Maroon	12,000	10	48224
70031	4-1-2 x 7/8	Very Fine – Grey	12,000	10	48224
70032	5 x 7/8	Coarse – Tan	10,000	10	48225
70033	5 x 7/8	Medium – Maroon	10,000	10	48225
70034	5 x 7/8	Very Fine – Grey	10,000	10	48225
70035	7 x 7/8	Coarse – Tan	6,000	10	48226
70036	7 x 7/8	Medium – Maroon	6,000	10	48226
70037	7 x 7/8	Very Fine – Grey	6,000	10	48226

Backing Pads

- 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.



Hook & Loop Backing Pads

UPC#	SIZE	CARTON QTY
49532	4 x 5/8 -11	1
49533	4-1/2 x 5/8 -11	1
49534	5 x 5/8 -11	1
49535	6 x 5/8 -11	1
49536	7 x 5/8 -11	1
49537	8 x 5/8 -11	1

Right Angle Grinder Backing Pads

UPC#	SIZE	CARTON QTY
*48224	4-1/2 – polypropylene w/ 7/8" arbor hole	1
*48225	5 – polypropylene w/ 7/8" arbor hole	1
*48226	7 – polypropylene w/ 7/8" arbor hole	1

QUICK CHANGE DISCS

QUICK CHANGE CONDITIONING DISCS

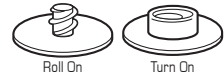
Grit Comparison Chart

	GRAIN	COLOR	STANDARD	HEAVY DUTY
Coarse	A/O	Brown	60	50-60
Medium	A/O	Maroon	80-120	60-100
Very Fine	A/O	Blue	180-240	–
Super Fine	S/C	Gray	240-320	–

Coated Quick Change Discs
on pages 50-55.



Turn On



Roll On Turn On

2 - 4" Quick Change Discs - Surface Conditioning

- For stainless steel, and ferrous & non-ferrous metals.
- **Premium** - Blending and rust/burr removal.
- **Finish Pro** - Economy choice, high performance design for demanding cleaning, deburring and finishing.

Uses USA Developed,
Automated Spin-Weld
Attachment Process for Fast
and Secure Fastening.

SIZE	RPM	DENSITY / GRAIN / GRADE	ROLL ON PREMIUM UPC#	ROLL ON FINISH PRO UPC#	USE HOLDER	TURN ON PREMIUM UPC#	TURN ON FINISH PRO UPC#	USE HOLDER	CARTON QTY
2"	25,000	Coarse - Brown	59503	59743	59732	59610	59749	59733	50
		Medium - Maroon	59504	59744	59732	59611	59750	59733	
		A Very Fine - Blue	59505	59745	59732	59612	59751	59733	
		S Ultra Fine - Grey	59608		59732			59733	
3"	20,000	Coarse - Brown	59506	59746	59734	59614	59752	59735	25
		Medium - Maroon	59507	59747	59734	59615	59753	59735	
		A Very Fine - Blue	59508	59748	59734	59616	59754	59735	
		S Ultra Fine - Grey	59609		59734			59735	
4"	12,000	Coarse - Brown	59509		59736				25
		Medium - Maroon	59510		59736				
		A Very Fine - Blue	59511		59736				

New Heavy Duty 2 - 3" Quick Change Discs - Surface Conditioning, Roll On

- Heavy Duty disc - Aggressive surface conditioning discs for tough cleaning, deburring and finishing.
- Ideal for rugged applications where standard grade discs shred.
- **2X longer working life than standard discs.**
- Use on steel, stainless steel and ferrous & non-ferrous metal.



Roll On



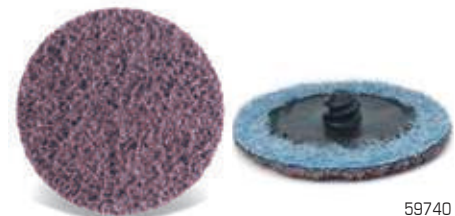
Die Grinder

**2 - 4X Faster
Stock Removal**



59739

Heavy Duty Coarse - Brown



59740

Heavy Duty Medium - Maroon

SIZE	RPM	DENSITY / GRAIN / GRADE	ROLL ON HEAVY DUTY UPC#	GRIT	USE HOLDER	CARTON QTY
2"	25,000	Coarse - Brown New	59739	50-60	59732	50
		Medium - Maroon	59740	60-100	59732	
3"	20,000	Coarse - Brown	59741	50-60	59734	25
		Medium - Maroon	59742	60-100	59734	

NON WOVEN / INTERLEAF FLAP WHEELS

Non Woven Flap Wheels

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



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

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

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 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

Interleaf Flap Wheels

- 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

See pages 56-64 for Flap Wheels.

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

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

COTTON FIBER ABRASIVES

COTTON FIBER WHEELS AND QUICK CHANGE DISCS

Cotton Fiber Wheels - Blending

- General Fabrication, Tank Fabrication (Pharmaceutical, Petro-Chemical, Dairy), Shipbuilding, Food Service.
- Grind and finish with one wheel for long working life.
- Cotton fiber impregnated with aluminum oxide grain and latex bond for superior stainless steel and aluminum blending and finishing.
- Smooth grinding action. Aluminum will not load-up.



SIZE	RPM	CARTON QTY	A36GFX UPC#	A54GFX UPC#
4-1/2 x 1/4 x 7/8	13,300	25	49549	49600
4-1/2 x 1/4 x 5/8-11	13,300	10	49550	49601
5 x 1/4 x 7/8	12,200	25	49551	49602
5 x 1/4 x 5/8-11	13,300	10	49552	49603
7 x 1/4 x 7/8	8,500	25	49553	49604
7 x 1/4 x 5/8-11	8,500	10	49554	49605

Cotton Fiber Quick Change Discs - Roll On

- Aircraft/Aerospace, Food Service, Automotive and General Fabrication.
- No smearing on titanium and stainless steel.
- Grind and finish with one disc.
- Engineered to last 10 times longer than coated discs.
- Smooth grinding action. Aluminum will not load-up.
- Flexible disc structure for applications that need a disc with give.
- Ideal for light weld removal, blending, deburring and finishing.



2" Quick Change Disc			30,000 R.P.M.	3" Quick Change Disc			20,000 R.P.M.
UPC#	SPEC.	CARTON QTY		UPC#	SPEC.	CARTON QTY	
49555	A36F	25		49558	A36F	25	
49556	A54F	25		49559	A54F	25	
49557	A80F	25		49560	A80F	25	

MOUNTED POINTS AND WHEELS

COTTON FIBER MOUNTED POINTS AND WHEELS

Cotton Fiber Mounted Points

- Aircraft/Aerospace, Automotive, Tool & Die, Fabrication.
- Deburr, blend and finish with one mounted point.
- Provide superior metal removal control without changing part geometry.
- Ideal for deburring and polishing stainless steel, aluminum, mild steel and exotic metals.



W163 W177 B52 B122



SHAPE	SIZE	SHANK DIAMETER	SHANK LENGTH	SPEC	R.P.M.	UPC#	CARTON QTY
W163	1/4 x 1/2	1/8"	1-1/2"	A80GFX	59,990	49561	25
W163	1/4 x 1/2	1/8"	1-1/2"	A80MTX	59,990	49562	25
W163	1/4 x 1/2	1/8"	1-1/2"	A120GFX	59,990	49563	25
W177	3/8 x 3/4	1/8"	1-1/2"	A80GFX	33,750	49564	25
W177	3/8 x 3/4	1/8"	1-1/2"	A80MTX	33,750	49565	25
W177	3/8 x 3/4	1/8"	1-1/2"	A120GFX	33,750	49566	25
B52	3/8 x 3/4	1/8"	1-1/2"	A80GFX	45,370	49567	25
B52	3/8 x 3/4	1/8"	1-1/2"	A80MTX	45,370	49568	25
B52	3/8 x 3/4	1/8"	1-1/2"	A120GFX	45,370	49569	25
B122	3/8" Ball	1/8"	1-1/2"	A80GFX	61,650	49570	25
B122	3/8" Ball	1/8"	1-1/2"	A80MTX	61,650	49571	25
B122	3/8" Ball	1/8"	1-1/2"	A120GFX	61,650	49572	25

Cotton Fiber High Speed Deburring & Finishing Wheels - Type 1

- Aluminum oxide impregnated cotton fiber and fiberglass reinforcement (for die grinder speeds).
- Soft bond - for light deburring and finishing.
- Hard bond - for deburring and long life.



2 x 1/8 x 1/4 28,000 R.P.M.

UPC#	SPEC.	CARTON QTY
49573	ACRS-HARD	25
49574	AMED-SOFT	25
49575	AFN-SOFT	25



Type 1

3 x 1/8 x 1/4 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
49576	ACRS-HARD	25
49577	AMED-SOFT	25
49578	AFN-SOFT	25

3 x 1/8 x 3/8 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
49579	ACRS-HARD	25
49580	AMED-SOFT	25
49581	AFN-SOFT	25

HAND PADS

Premium Surface Conditioning Hand Pads

- Strong, yet flexible premium pad construction for surface preparation.
- Maroon pads for 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
36287	Maroon – All Purpose	20
36283	Grey – Ultra Fine	20
36284	Green – General Cleaning	20
36285	White – Light Duty	20
36286	Tan – Heavy Duty	20
71151	Black – Heavy Duty	20

Bulk Shrink Wrap Packs of 10

UPC#	SPEC.	CARTON QTY
36288	Maroon – Bulk	100

Surface Conditioning Hand Pads - Economy

- 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*
36241	Maroon – All Purpose	60
36242	Green – General Cleaning	60
36243	White – Light Duty	60

* Carton contains 6 packages of 10

RESIN BONDED WHEELS

RESIN BONDED WHEELS



[View Video
youtube.com/CGWCamel](https://www.youtube.com/CGWCamel)



YouTube

THE RIGHT ABRASIVE FOR



Right Angle Grinders – Page 98-114

- Premium Quickie Cut™ Cut-Off Wheels
- Quickie Cut™ Cut-Off Wheels
- Quickie Cut™ EXTREME Wheels
- Super Quickie Cut™ Cut-Off Wheels
- 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 117-119

- 1-1/2" - 4" Cut-Off Wheels



Circular Saws – Page 120

- 7" Cut-Off Wheels



Stationary Saws – Page 120-121

- 10" - 20" Cut-Off Wheels
- Fast Cut Premium 20" Cut-Off Wheels



Chop Saws – Page 122-123

- 10" - 16" Cut-Off Wheels

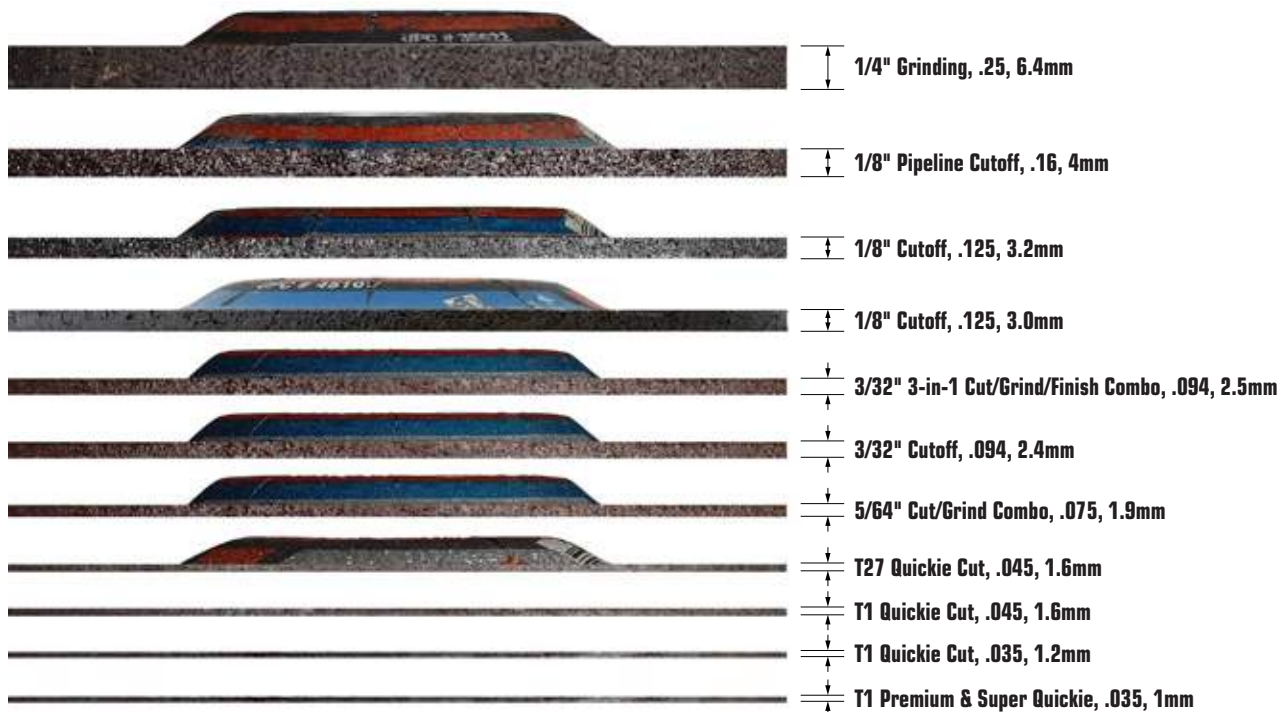


Gas Saws – Page 124-127

- 12" - 16" Cut-Off Wheels
- 14" - 16" Rail Wheels
- All Purpose Demo Blade

ALL YOUR TOOL NEEDS

CGW has the Broadest Resin Bonded Wheel Program in the Industry



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.
- Contaminant-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.**
- Contaminant-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 203 for more information.

QUICKIE CUT™ CUT-OFF WHEELS

View Video
youtube.com/CGWCamel

METAL AND STEEL - TYPE 1

New **Quickie Cut™ EXTREME 2 Reinforced Cut-Off Wheels - Type 1**



- **ZA60-T:** Higher percentage of special Premium treated Alox grain and premium fiberglass net for Maximum safety.
- Improved bonding technology and innovative grain formula to achieve **40%** more cuts, reduced Burning and Burrs as compared to regular Quickie Cut™ Cut-off Wheels.
- Fast cutting, Flexible, and extended long life (Highest G-Ratio).



Quickie Cut™ Reinforced Cut-Off Wheels - Type 1

- **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.

Type 1

ZIRCONIA AO
ALUMINUM OXIDE



ZA60-TB-Flex



ZA36-T - Rigid

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

- **A60-T:** Maximum cutting speeds with minimal burrs.
 - Provides excellent finish with reduced vibration.

All CGW Cut-Off Wheels Cut Steel and Stainless Steel

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		QUICKIE-CUT EXTREME 2	SUPER QUICKIE-CUT A60-T	SUPER QUICKIE CARTON QTY.
			ZA60-TB-FLEX	ZA36-T-RIGID	ZA60-T		
4 x .040 x 5/8	15,300	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			New 45284		
4-1/2 x .045 x 7/8	13,300	25		35514		45102	50
5 x .040 x 7/8	12,250	25	45011				
5 x .045 x 7/8	12,250	25		35516	New 45285	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	New 45286	45106	25
7 x 1/16 x 7/8	8,500	25	45013	35518			
9 x 1/16 x 5/8	6,600	25		45100			

STAINLESS STEEL - TYPE 1

QUICKIE CUT™ CONTAMINANT-FREE CUT-OFF WHEELS

New **Quickie Cut™ EXTREME 2**
Contaminant-Free
Reinforced Cut-Off Wheels -
Type 1



- **WA60-T:** Premium Contaminate Free Grain and Bond Technology. Design specifically for CF applications.
- Improved special bonding Technology and Innovative Grain formula to achieve **40%** more cuts, reduced Burrs and better Surface Finish as compared to regular CF Quickie Cut™ Cut-off Wheels.
- Fast cutting, Flexible, and extended long life (Highest G-Ratio).



Type 1



Quickie Cut™
Contaminant-Free
Cut-Off Wheels - Type 1

- Contaminant 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.

Super Quickie Cut™
Contaminant-Free
Reinforced Cut-Off Wheels -
Type 1

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



WA60-B-Flex



WA36-T - Rigid

Type 1 Reinforced Quickie-Cut™ Cut-Off Wheels

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		QUICKIE-CUT EXTREME 2	SUPER QUICKIE-CUT A60-T	SUPER QUICKIE CARTON QTY.
			WA60-TB-FLEX	WA36-T-RIGID	WA60-T		
4-1/2 x .035 x 7/8	13,300	25	36303		New 45291	45041	50
4-1/2 x .045 x 7/8	13,300	25		35515	New 45292	45042	50
5 x .040 x 7/8	12,250	25	36304		New 45293	45104	50
5 x .045 x 7/8	12,250	25		36301	New 45295	45080	25
6 x .040 x 5/8	10,200	25					
6 x .045 x 7/8	10,200	25		36302	New 45295		
7 x 1/16 x 7/8	8,500	25		53259			
9 x 1/16 x 7/8	6,600	25		53260			

METAL AND STEEL - TYPE 27

QUICKIE CUT™ CUT-OFF WHEELS

New **Quickie Cut™ EXTREME 2**
Reinforced Cut-Off Wheels -
Type 27



- **ZA60-T:** Higher percentage of special Premium treated AloX grain and premium fiberglass net for Maximum safety.
- Improved bonding technology and innovative grain formula to achieve **40%** more cuts, reduced Burning and Burrs as compared to regular Quickie Cut™ Cut-off Wheels.
- Fast cutting, Flexible, and extended long life (Highest G-Ratio).



Now Available with 5/8-11 Hub

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

- 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.



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

- **ZA:** Zirconia and Aluminum Oxide mixture. General purpose wheel. Zirconia grain allows for faster cutting and longer life. Excellent on Steel/Stainless.

All CGW Cut-Off Wheels Cut Steel and Stainless Steel

SIZE	RPM	CARTON QTY.	QUICKIE-CUT	QUICKIE-CUT EXTREME 2
			ZA60-S	ZA60-T
4 x .045 x 5/8	15,300	25	45001	
4-1/2 x .045 x 7/8	13,300	25	45002	New 45300
4-1/2 x .045 x 5/8-11	13,300	10	45141	New 45301
5 x .045 x 7/8	12,250	25	45005	New 45302
5 x .045 x 5/8-11	12,250	10	45142	New 45303
6 x .045 x 7/8	10,200	25	45007	New 45304
6 x .045 x 5/8-11	10,200	10	45143	New 45305
7 x 1/16 x 7/8	8,500	25	45008	
7 x 1/16 x 5/8-11	8,500	10	45144	
9 x 1/16 x 7/8	6,600	25	45047	
9 x 1/16 x 5/8-11	6,600	10	45145	

SUPER QUICKIE-CUT	SUPER QUICKIE CARTON QTY.
A60-T	
45103	50
45152	10
45098	25
45153	10

STAINLESS STEEL - TYPE 27

New Quickie Cut™ EXTREME 2 Contaminant-Free Reinforced Cut-Off Wheels - Type 27

- **WA60-T:** Premium Contaminant Free Grain and Bond Technology. Design specifically for CF applications.
- Improved special bonding Technology and Innovative Grain formula to achieve **40%** more cuts, reduced Burrs and better Surface Finish as compared to regular CF Quickie Cut™ Cut-off Wheels.
- Fast cutting, Flexible, and extended long life (Highest G-Ratio).



**Now Available
with
5/8-11 Hub**



Quickie Cut™ Contaminant-Free Cut-Off Wheels - Type 27

- Contaminant 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.

Super Quickie Cut™ Contaminant-Free Reinforced Cut-Off Wheels - Type 27

- 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 2		SUPER QUICKIE-CUT	
			WA60-R	WA60-T	WA60-R	WA60-T	A60-T	SUPER QUICKIE CARTON QTY.
4-1/2 x .045 x 7/8	13,300	25	45003		45310		45099	50
4-1/2 x .045 x 5/8-11	13,300	10	45154		45311		45159	10
5 x .045 x 7/8	12,250	25	45006					
5 x .045 x 5/8-11	12,250	10	45155					
6 x .045 x 7/8	10,200	25	45017					
6 x .045 x 5/8-11	10,200	10	45156					
7 x 1/16 x 7/8	8,500	25	45009					
7 x 1/16 x 5/8-11	8,500	10	45157					

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 - Contaminant-Free	*	*	*	*	*	*	*				*	*	*	*
WA60T / WA60-R - Contaminant-Free	*	*	*	*	*	*	*				*	*	*	*
ZA60S	*	*	*	*	*	*	*	*	*	*	*	*	*	*

* = Recommended
● = May Be Used

FERROUS METALS

CASTINGS

NON-FERROUS METALS

QUICKIE CUT™ FAST CUT

New Quickie Cut™ - Fast Cut Wheels - Metal/Stainless Steel

- Fast, smooth cutting action with minimal burr.
- WA grain (White Aluminum Oxide): stainless steel, food grade and nuclear applications.
- Contaminant free wheels contain ≤ 0.1% iron, sulfur or chlorine for rust free and corrosion free results. STAINLESS STEEL WILL NOT RUST.
- Excellent performance & price! Use on metal and stainless steel.



35134 / 35135



Quickie Cut™ - Fast Cut, Type 1

UPC#	SIZE	SPEC.	RPM	BOX QTY	MASTER BOX QTY
35130	4-1/2 x .045 x 7/8	WA46-R	13,300	25	200
35131	6 x .045 x 7/8	WA46-R	10,200	25	200

Quickie Cut™ - Fast Cut, Type 27

UPC#	SIZE	SPEC.	RPM	BOX QTY	MASTER BOX QTY
35132	4-1/2 x .045 x 7/8	WA46-R	13,300	25	200
35133	4-1/2 x .045 x 5/8-11	WA46-R	13,300	10	100
35134	6 x .045 x 7/8	WA46-R	10,200	25	200
35135	6 x .045 x 5/8-11	WA46-R	10,200	10	100

Premium Quickie Cut™ Cut-Off Wheels - Metal/Stainless Steel, Type 1

- New technology delivers significant increase in cutting, speed and number of cuts.
- Flexible wheel design provides extremely free cutting - even from the start.
- Reduction of work piece stress reduces burn and extra work such as cleaning and deburring.
- **Applications:** Thin sheet metals, metal and stainless fabrication, profiles, small cross-sections and steel reinforcements.



Type 1

While Supplies Last*

Premium Quickie Cut™ Cut-Off Wheels - Metal/Stainless Steel

UPC#	SIZE	SPEC-GRIT-GRADE	RPM	CARTON QTY
53257*	4-1/2 x .035 x 7/8	A60-RBF	13,300	25
53258*	5 x .035 x 7/8	A60-RBF	12,200	25

QUICKIE CUT™ CUT-OFF WHEELS

QUICKIE CUT™ CUT-OFF WHEELS

New Premium Quickie Cut™
Cut-Off Wheels -
Aluminum, Type 1

- Premium aluminum oxide grain and A46-N-grade bond engineered for superior non-loading cutting action.
- Clean steady cuts.
- Minimal burrs.
- Suitable for aluminum cutting and non-ferrous metals.
- **Applications:** Aluminum, copper and bronze fabrication, sheet and plate work.
- **Industries:** Aerospace, Automotive, Boating, Building & Construction, Naval & Military Plants, Oil & Gas.



ALUMINUM OXIDE



Type 1

Premium Quickie Cut™ Cut-Off Wheels - Aluminum

UPC#	SIZE	SPEC-GRIT-GRADE	RPM	CARTON QTY
53255	4-1/2 x .045 x 7/8	A46-NBF	13,300	25
53256	5 x .045 x 7/8	A46-NBF	12,200	25

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

- **A46N-ALU:** Aluminum Oxide mixture. Contains a non-loading bond. Good on Aluminum.



ALUMINUM OXIDE

Type 27

Quickie Cut™ Reinforced Cut-Off Wheels - Aluminum

UPC#	SIZE	SPEC-GRIT-GRADE	RPM	CARTON QTY
45004	4-1/2 x .045 x 7/8	A46N-ALU	13,300	25
45146	4-1/2 x .045 x 5/8-11	A46N-ALU	13,300	10
70114	5 x .045 x 7/8	A46N-ALU	12,250	25
45147	5 x .045 x 5/8-11	A46N-ALU	12,250	10
70115	6 x .045 x 7/8	A46N-ALU	10,200	25
45148	6 x .045 x 5/8-11	A46N-ALU	10,200	10

View Video

youtube.com/CGWCamel



CGW USA



QUICKIE CUT™ CUT-OFF WHEELS

THIN REINFORCED CUT-OFF WHEELS – TYPE 1 & 27

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

- 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.



WHITE AD



Type 1

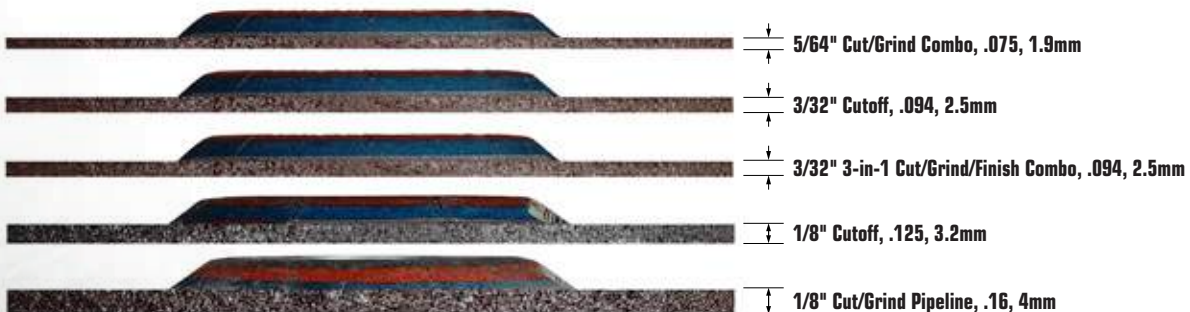
UPC#	SIZE	SPEC.	RPM	CARTON QTY
45028	4-1/2 x 3/32 x 7/8	WA36-S-BF	13,300	25
45030	5 x 3/32 x 7/8	WA36-S-BF	12,250	25
45046	6 x 3/32 x 7/8	WA36-S-BF	10,200	25
45032	7 x 3/32 x 7/8	WA36-S-BF	8,500	25



Type 27

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

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



NEW INNOVATION

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

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



Type 27



ALUMINUM OXIDE



View Video

youtube.com/CGWCamel



CGW USA



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
45234	7 x 1/8 (.125) x 7/8	A36S	8,600	25
45235	7 x 1/8 x (.125) x 5/8-11	A36S	8,600	10

Super Quickie Cut .075 Cut/Grind Combo Wheels

- 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.
- Three layers of fiberglass net reinforcement provides added strength and flexibility.
- For stainless steel and steel.



Type 27



ALUMINUM OXIDE



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

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. Contaminant 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.



Type 27



- ALUMINUM OXIDE
- WHITE AO
- ZIRCONIA

■ 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)

SIZE	RPM	CARTON QTY.	ULTRA – New and Improved			
			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	45210	45037	35675	36221
5 x 1/8 x 5/8-11	12,250	10	45211	45038	35676	36222
6 x 1/8 x 7/8	10,200	25	45212	36189	35630	36223
6 x 1/8 x 5/8-11	10,200	10	45213	36190	35631	36224
7 x 1/8 x 7/8	8,600	25	45214	35638	35634	36225
7 x 1/8 x 5/8-11	8,600	10	45215	35639	35635	36226
9 x 1/8 x 7/8	6,650	25	45216	35652	35648	36227
9 x 1/8 x 5/8-11	6,650	10	45217	35653	35649	36228

New items are in **bold**

1/8" Wheel Profile



1/8" PIPELINE WHEELS

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

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	45204	45200	36244
5 x 1/8 x 5/8-11	12,250	10	45205	45201	36245
6 x 1/8 x 7/8	10,200	25	45203	45206	36246
6 x 1/8 x 5/8-11	10,200	10	45202	45207	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**

Items in gray are being discontinued and then available as a special make item only.

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	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Bress, Bronze	Titanium	Asphalt / Green Concrete	Concrete	Roof – Tiles	Slate	Masonry	Manble	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

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**
 - Contaminant-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)

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

FAST CUT 1/4" GRINDING WHEELS

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

- **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	19,100	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 Adapter Kit

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

E3 GREEN GRINDING WHEELS

New E3 Green Grinding Wheels

CGW's New Unique E3 Wheel is designed with Zirconia grain along with high-performance grains to provide high metal removal (E Ratio**) along with a smooth and easy operator experience.

** $E [gr/min] = \text{Grinding Efficiency/Speed} = \text{Weight [gram] of material removed per minute}$

- Provide twice the removal rate compared to Aluminum Oxide and WA wheels with the same life span.
* *The Wheel you would use if YOU were "the grinder" - fast, comfortable and friendly with the highest E ratio (metal grams removed per minute).*
- 40% higher removal rate compare to ZA, but the life span is shorter.
* *Best when used with light pressure or low force.*
- Grinds smooth, reduces operator fatigue and provides superior finish.



54200 / 54201

Type 27



E3 GREEN METAL • STAINLESS STEEL

ZIRCONIA

ALUMINUM OXIDE

1/4" Thickness

UPC#	SIZE	SPEC.	RPM	BOX QTY	MASTER BOX QTY
54200	4-1/2 x 1/4 x 7/8	ZA36 QBF	13,300	25	200
54201	4-1/2 x 1/4 x 5/8-11	ZA36 QBF	13,300	10	100
54202	5 x 1/4 x 7/8	ZA36 QBF	12,250	25	200
54203	5 x 1/4 x 5/8-11	ZA36 QBF	12,250	10	100
54204	7 x 1/4 x 7/8	ZA36 QBF	8,500	25	200
54205	7 x 1/4 x 5/8-11	ZA36 QBF	8,500	10	100

5/32" Thickness

UPC#	SIZE	SPEC.	RPM	BOX QTY	MASTER BOX QTY
54206	4-1/2 X 5/32 x 7/8	ZA36 QBF	13,300	10	100
54207	4-1/2 X 5/32 x 5/8-11	ZA36 QBF	13,300	25	200

Improvement & Innovation

Application:

- Stainless steel light grinding.
- Excellent for blending and contouring welds (hand rails and shaped work pieces).
- Excellent on light welds like tig welding.
- Welding/metal fabrication, power plant maintenance and repair, shipbuilding, tank fabrication, and foundries.
- Not recommended for Aluminum or heavy weld removal.

PREMIUM WHEELS

New **C3 Green Wheels**
Our Fastest Metal Removal Wheel

- High concentration of ceramic grain provides for very fast grinding and long life.
- Contains less than 0.1% of sulfur & chlorine and virtually no iron.
- Use on: stainless steel, mild steel, hard face, titanium, inconel, **aluminum**.
- AS [ceramic grain] and L [special grains].



CERAMIC



Type 27

1/8" / 3.2mm / .125

UPC#	SIZE	SPEC.	RPM	CARTON QTY
49750	4-1/2 x 1/8 (3.2mm) x 7/8	ASL-36P-BF	13,300	25
49751	4-1/2 x 1/8 (3.2mm) x 5/8-11	ASL-36P-BF	13,300	10

New **Green Grind Grinding Wheels - Type 27**
Exceptionally Fast Grinding

- Premium grain allows for high performance grinding action.
- 50% faster metal removal than aluminum oxide wheels.
- Ideal for tank fabrication, power plant maintenance and metal fabrication.
- Contains less than 0.1% of sulfur & chlorine and virtually no iron.
- Grain and bond engineered for cooler working. Does not discolor or warp stainless steel.
- Made for smoother, quieter working and less operator fatigue.
- Use on: stainless steel, mild steel, hard face, titanium, inconel, **aluminum**.



ZIRCONIA

ALUMINUM OXIDE



Type 27

5/32" / 4mm / .16

UPC#	SIZE	GRIT	RPM	CARTON QTY
49543	4-1/2 x 5/32 (4mm) x 7/8	36	13,300	25
49544	4-1/2 x 5/32 (4mm) x 5/8-11	36	13,300	10
49545	5 x 5/32 (4mm) x 7/8	36	12,250	25
49546	5 x 5/32 (4mm) x 5/8-11	36	12,250	10
49547	7 x 5/32 (4mm) x 7/8	36	8,500	25
49548	7 x 5/32 (4mm) x 5/8-11	36	8,500	10
New 49752	4-1/2 x 1/4 (6.4mm) x 7/8	36	13,300	10
New 49753	4-1/2 x 1/4 (6.4mm) x 5/8-11	36	13,300	10
New 49754	5 x 1/4 (6.4mm) x 7/8	36	12,250	10
New 49755	5 x 1/4 (6.4mm) x 5/8-11	36	12,250	10
New 49756	7 x 1/4 (6.4mm) x 7/8	36	8,500	10
New 49757	7 x 1/4 (6.4mm) x 5/8-11	36	8,500	10

FGF WHEELS

FGF-Special Wheels *Flex, Grind, Finish*

- 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



FGF-Special Wheels

UPC#	SIZE	SPEC.	RPM	CARTON QTY
36271	4-1/2 x 1/8 x 7/8	WA36-R-BF	13,300	25
36272	4-1/2 x 1/8 x 5/8-11	WA36-R-BF	13,300	10
36273	4 1/2 x 1/8 x 7/8	WA60-R-BF	13,300	25
36274	4-1/2 x 1/8 x 5/8-11	WA60-R-BF	13,300	10
36275	5 x 1/8 x 7/8	WA36-R-BF	12,250	25
36276	5 x 1/8 x 5/8-11	WA36-R-BF	12,250	10
36277	5 x 1/8 x 7/8	WA60-R-BF	12,250	25
36278	5 x 1/8 x 5/8-11	WA60-R-BF	12,250	10
36279	7 x 1/8 x 7/8	WA36-R-BF	8,600	25
36280	7 x 1/8 x 5/8-11	WA36-R-BF	8,600	10
36281	7 x 1/8 x 7/8	WA60-R-BF	8,600	25
36282	7 x 1/8 x 5/8-11	WA60-R-BF	8,600	10

NEW & Improved *Fast Cut*
FGF Wheels
Flex, Grind, Finish

- Waffle pattern is designed to provide cooler grinding and to absorb vibrations for reduced operator fatigue.
- New & improved formula provides extended working life
- Recommended for metal, steel, stainless steel and non-ferrous metals.



FGF Wheels

UPC#	SIZE	SPEC.	RPM	CARTON QTY	MASTER BOX QTY
36380	4 x 1/8 x 7/8	WA36-Q-BF	15,300	25	200
36381	4-1/2 x 1/8 x 7/8	WA36-Q-BF	13,300	25	200
36382	4-1/2 x 1/8 x 5/8-11	WA36-Q-BF	13,300	10	100
36383	5 x 1/8 x 7/8	WA36-Q-BF	12,250	25	200
36384	5 x 1/8 x 5/8-11	WA36-Q-BF	12,250	10	100
36385	7 x 1/8 x 7/8	WA36-S-BF	8,600	25	100
36386	7 x 1/8 x 5/8-11	WA36-S-BF	8,600	10	50

ALUMINUM

Aluminum Wheels

■ Depressed Center Wheels:

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.



ALUMINUM

ALUMINUM OXIDE



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

SIZE	RPM	CARTON QTY.	ALUMINUM T27 A30N	ALUMINUM FAST CUT T27 A30N
4 x 1/4 x 5/8	15,300	25	36106	70098
4-1/2 x 1/4 x 7/8	13,300	25	36107	70099
4-1/2 x 1/4 x 5/8-11	13,300	10	36108	70100
5 x 1/4 x 7/8	12,200	25	36109	70101
5 x 1/4 x 5/8-11	12,200	10	36110	70102
7 x 1/4 x 7/8	8,600	25	36111 (qty 10)	70103
7 x 1/4 x 5/8-11	8,600	10	36112	70104
9 x 1/4 x 7/8	6,600	25	36156 (qty 10)	
9 x 1/4 x 5/8-11	6,600	10	36157	

*New items are in bold

Aluminum Flap Discs



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

Quickie Cut™ Thin Reinforced Cut-Off Wheels - Type 1 & Type 27



SIZE	RPM	CARTON QTY.	ALUMINUM A46N-BF T1 UPC#	ALUMINUM A46N T27 UPC#
4-1/2 x .045 x 7/8	13,300	25	New 53255	45004
5 x .045 x 7/8	12,250	25	New 53256	70114
6 x .045 x 7/8	10,200	25		70115

CONCRETE

Concrete Wheels

■ Depressed Center Wheels: **Fast Cut C24R: Silicon Carbide Grain – Concrete**

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

■ Tile/Grout Cutter – Type 1: **C36: Tile/Grout**

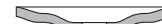
- Wheel specifically designed for cutting tiles, ceramics and marble.



SILICON CARBIDE



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



SIZE	RPM	CARTON QTY.	CONCRETE/STONE	
			FAST CUT T27 C24R	FAST CUT T28 C24R
4 x 1/4 x 5/8	15,300	25	37510	
4-1/2 x 1/4 x 7/8	13,300	25	37520	
4-1/2 x 1/4 x 5/8-11	13,300	10	37525	
7 x 1/4 x 7/8	8,600	25	37545	35698
7 x 1/4 x 5/8-11	8,600	10	37540	35697
9 x 1/4 x 7/8	6,600	25	37555	36289
9 x 1/4 x 5/8-11	6,600	10	37550	36290

*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

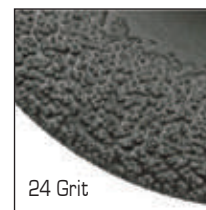
D3-DIAMOND WHEELS

D3-Diamond - Depressed Center Grinding Wheels

- Longer working life - advanced brazing process and high-quality diamonds for less down time for increased production times.
- **Can be used on sheet metal up to 3/8" thick or metal bar up to 3/4" thick.**
- Cleaner and easier working - designed to produce fewer sparks, no odor and less material debris.
- Safer working - solid steel body.
No fractures and breaks.



70401



At Least 25 Times The Life Of Resin Wheels

Items in gray are being discontinued and then available as a special make item only.



D3-DIAMOND WHEELS FOR METAL

UPC ITEM	DESCRIPTION	BOX QTY	APPLICATION
D3-Diamond - Depressed Center Grinding Wheels			
70400	4 x 5/8 D3-Diamond 24G Type 29 Grinding	1	Weld removal, pipe beveling and stock removal of all ferrous and non-ferrous metals. Excellent on stainless steel, ductile materials hard-face metal alloys and ceramics.
70401	4-1/2 x 5/8-11 D3-Diamond 24G Type 29 Grinding	1	
70402	4-1/2 x 7/8 D3-Diamond 24G Type 29 Grinding	1	
70403	5 x 5/8-11 D3-Diamond 24G Type 29 Grinding	1	
70404	5 x 7/8 D3-Diamond 24G Type 29 Grinding	1	
70405	6 x 5/8-11 D3-Diamond 24G Type 29 Grinding	1	
70406	6 x 7/8 D3-Diamond 24G Type 29 Grinding	1	
70407	7 x .156 x 5/8-11 D3-Diamond 50G Type 27 Pipeline	1	
70409	9 x .156 x 5/8-11 D3-Diamond 50G Type 27 Pipeline	1	

* 70402, 70404 and 70406 will be supplied as 70401, 70403 and 70405 as stock is depleted

D3-Diamond - T29 Depressed Center Grinding Wheels - Finer Finish			
70449	4-1/2 x 5/8-11 D3-Diamond 50G Type 29 Grinding	1	Weld removal with a finer finish

* Available as special order in sizes 4"-5"-6"-7"-9". Contact CGW Customer Service for details.

D3-Diamond - T27 Depressed Center Grinding Wheels - Pipe Line			
70443	6 x .156 x 5/8-11 D3-Diamond 50G Type 27 Pipeline	1	All pipeline applications
70444	7 x .156 x 5/8-11 D3-Diamond 50G Type 27 Pipeline	1	

* Available as special order in sizes 4"-4 1/2"-5"-9". Contact CGW Customer Service for details.

D3-Diamond - Flat Grind (Reversible) - Foundry and Hard Facing Type 1			
70425	5 x 1/4 x 5/8-11 D3-Diamond 36G Flat Grinding	1	Weld removal, pipe beveling and stock removal of all ferrous and non ferrous metals.
70428	9 x 1/4 x 5/8-11 D3-Diamond 36G Flat Grinding	1	

* Available as special order in sizes 4"-4 1/2"-6"-7". Contact CGW Customer Service for details.

D3-DIAMOND WHEELS

Applications:

- Steel, stainless steel, fiberglass, plastics, composite materials, masonry and ceramics.
- Sheet and plate work.



For Better Results:

- Do not use on metal plates/sheets over 3/8" thick.
- Do not use on solid bars/bolts over 3/4".
- Let the diamond do the cutting, do not push or force the wheel.

Type 1

UPC ITEM	DESCRIPTION	BOX QTY	APPLICATION
D3 - Diamond - Type 1 Flat Cutting and Grinding Wheels			
70411	4 x .140 x 5/8 D3-Diamond 36G Type 1 Notch/Cut/Grind	1	Foundry-Gate/Rise Removal, Forgings, Metal Pipe, Sectional Tubing, Metal plate, Steel bar and Ductile iron.
70412	4-1/2 x .140 x 7/8 D3-Diamond 24G Type 1 Notch/Cut/Grind	1	
70413	5 x .140 x 7/8 D3-Diamond 24G Type 1 Notch/Cut/Grind	1	
70414	6 x .140 x 7/8 D3-Diamond 24G Type 1 Notch/Cut/Grind	1	
70415	7 x .140 x 7/8 D3-Diamond 24G Type 1 Notch/Cut/Grind	1	
70416	9 x .140 x 7/8 D3-Diamond 24G Type 1 Notch/Cut/Grind	1	
D3-Diamond .050 Thickness Type 1 Diamond Blades			
49714	4-1/2 x .050 x 7/8 T-1, D3-Diamond Thin Cutting Blade	1	Steel, stainless steel, bolts, plastics, non-ferrous materials, fiberglass, wood, concrete, tile and brick
49715	5 x .050 x 7/8 T-1, D3-Diamond Thin Cutting Blade	1	
49716	6 x .050 x 7/8 T-1, D3-Diamond Thin Cutting Blade	1	
D3-Diamond - High Speed Wheels (All Steel types – RAIL), Stationary and Chop Saw			
New 70420	14 x .133 x 1 D-3 BSL Diamond Blade CHOP SAW	1	Chop Saw
New 49721	14 x .146 x 1 D-3 BSL Diamond Blade HIGH SPEED and RAIL with PH	1	High Speed and Stationary Gas Saw
New 49722	16 x .150 x 1 D-3 BSL Diamond Blade HIGH SPEED with PH	1	
70456	12 x .15 x 20mm / 1 D3-Diamond 24G Cut Off	1	Chop and Stationary Saw
70429	14 x .15 x 20mm / 1 D3-Diamond 24G Cut Off	1	
70430	16 x .15 x 1 / 20mm D3-Diamond 30G Cut Off	1	
70431	18 x .15 x 1 D3-Diamond 30G Cut Off	1	
70432	20 x .17 x 1 D3-Diamond 30G Cut Off	1	
70440	20mm / 1 Arbor for D3-Diamond wheels	1	

* Available as special order in sizes 24"-26"-28"-30". Contact CGW Customer Service for details.

DIE GRINDER GRINDING AND CUT-OFF WHEELS

HIGH-SPEED REINFORCED CUT-OFF WHEELS

Mini Depressed Center Grinding Wheels - Type 27

- Automotive parts manufacturing, sheet metal production, finishing work, weld spot cleaning, ornamental iron work, rough die cast cleaning & detailing, light to heavy stock removal.
- Compact and lightweight for easy use in hard to reach work areas.
- Advanced abrasive grain blend for smooth grinding.
- Designed to last longer than traditional sanding discs and some carbide burs in the market.
- Fiberglass reinforced for overall safety.



Mini Depressed Center Grinding Wheels - Type 27

UPC#	SIZE	SPEC.	RPM	CARTON QTY
49682	2-5/16 x 5/32 x 3/8	A40	20,000	25
49683	2-5/16 x 5/32 x 3/8	A60	20,000	25
49684	2-5/16 x 5/32 x 3/8	A80	20,000	25

High-Speed Reinforced Cut-Off Wheels - Type 1

- **A:** Aluminum Oxide - Metal & Steel



Aluminum Oxide - USA Made

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

DIE GRINDER GRINDING WHEELS



CERAMIC Die Grinder Wheels

- Premium Ceramic grain with grinding aid designed to provide free cutting and longer life.
- Applications include Steel, Stainless Steel, Aluminum.



CERAMIC



Type 1, Ceramic Die Grinder Cut-Off Wheels

UPC	SIZE	SPEC.	TYPE	MATERIAL	RPM	BOX QTY
36181	3 x 1/32 x 3/8	C60-R-BF	T1	Ceramic	23,900	50
36182	3 x 1/16 x 3/8	C36-R-BF	T1	Ceramic	23,900	50
36183	4 x 1/32 x 3/8	C60-R-BF	T1	Ceramic	19,100	50
36184	4 x 1/16 x 3/8	C36-R-BF	T1	Ceramic	19,100	50



ALUMINUM Application Die Grinder Wheels

- ALU60R specification designed with a non-loading bond specifically for Aluminum
- Applications include Aluminum, Copper and Bronze fabrication



ALUMINUM

ALUMINUM OXIDE



Type 1, Aluminum Oxide Die Grinder Cut-Off Wheels for ALUMINUM

UPC	SIZE	SPEC.	TYPE	MATERIAL	RPM	BOX QTY
36185	3 x 1/32 x 3/8	ALU60-R-BF	T1	Aluminum	23,900	50
36186	4 x 1/32 x 3/8	ALU60-R-BF	T1	Aluminum	19,100	50

CUT-OFF WHEELS

HIGH-SPEED REINFORCED CUT-OFF WHEELS

Zirconia Premium Cut-Off Wheels - Type 1

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



Zirconia - USA Made

SIZE	SPEC.	UPC# for ARBOR HOLE		RPM	CARTON QTY
		1/4"	3/8"		
3 x 1/32	ZA60-R-BF	36175	36176	23,900	50
3 x 1/16	ZA36-R-BF	36173	36174	23,900	50
4 x 1/32	ZA60-R-BF	36179	36180	19,100	50
4 x 1/16	ZA36-R-BF	36177	36178	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

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

Cut-Off Wheel Mandrel Adaptor



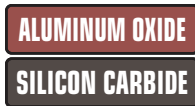
Cut-Off Wheel Mandrel Adaptor

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

CIRCULAR & SAW WHEELS

7" Circular Saw Cut-Off Wheels - Type 1

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



Type 1

UPC#	SIZE	SPEC.	RPM	CARTON QTY
37573	7 x .045 x 5/8	A60-S-BF	8,600	25
37574	7 x .045 x 5/8	C30-R-BF	8,600	25
59109	7 x 3/32 x 5/8-◆	A24-R-BF	8,600	25
59110	7 x 3/32 x 5/8-◆	C24-R-BF	8,600	25

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



Type 1



Fast Cut Performance Stationary Saw Wheels

- Higher grade aluminum oxide and bond. Guaranteed to provide more cuts than standard Fast Cut wheels.

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70146	20 x 5/32 x 1	A24-R-BF	3,100	10
70147	20 x 3/16 x 1	A24-R-BF	3,100	10

Fast Cut Stationary Saw Wheels

- Economical choice for metal, steel and general applications.

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

STATIONARY SAW WHEELS

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

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.



Type 1

UPC#	SIZE	SPEC.	RPM	CARTON QTY
35577	10 x 1/16 x 5/8	A24-R-BF	6,110	10
35580	10 x 1/8 x 1	A24-R-BF	6,110	10
35581*	12 x 1/8 x 1	A24-R-BF	5,100	10
35582	14 x 1/8 x 1	A24-R-BF	4,400	10
37671	14 x 1/8 x 1	C24-R-BF	4,400	10
45089	14 x 1/8 x 1	WA24-S-BF	4,400	10
35584	16 x 5/32 x 1	A24-R-BF	3,820	10
35851	20 x 7/32 x 1	A30R-B-BF	3,100	10

*While supplies last.

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	*	*	*	*	*	*	*	*	*	*	*	*	*											
	FERROUS METALS							CASTINGS		NON-FERROUS METALS				MASONRY										

* = Recommended
• = May Be Used

CHOP SAW CUT-OFF WHEELS

12"-16" Chop Saw Wheels - Type 1

- **A:** Aluminum Oxide - Metal & Steel. 14" available in **single (SR)** and **double (DR)** fiberglass reinforced.
- **Fast Cut:** Economical choice for metal, steel and general applications.
- **ALU:** Aluminum Oxide - Special non-loading formulation for cutting aluminum.



Type 1

10-16" Double Reinforced - General Purpose

UPC#	SIZE	SPEC.	RPM	CARTON QTY
35575	12 x 3/32 x 1	A36-P-BF	5,100	10
35576	14 x 3/32 x 1	A36-P-BF	4,400	10
36133	16 x 3/32 x 1	A36-P-BF	3,820	10

10-14" Single & Double Reinforced - General Purpose - Fast Cut

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

14" Single Reinforced - General Purpose

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

14" Double Reinforced - Aluminum

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



5-Pack Merchandiser

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

*SR=Single or internal reinforced chop saw blade

**DR=Double reinforced chop saw blade

14" Chop Saw Wheels - Type 1

- **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
36125	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
36124	14 x 3/32 x 1	A30-R-BF	4,400	10

14" Single Reinforced - Stainless

- Designed for stainless steel applications
- Contaminant Free, Fe+S+Cl≤0.1%



UPC#	SIZE	SPEC.	RPM	CARTON QTY
36123	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	*	*	*	*	*	*	*	*	•	•	•				

FERROUS METALS

CASTINGS

NON-FERROUS METALS

*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

HIGH SPEED CUT-OFF WHEELS

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

- **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 TR	5,500	10	20
35600	14 x 5/32 x 1	A24-R-BF TR	5,500	10	20
36142	16 x 5/32 x 20mm	A24-R-BF TR	4,800	10	20
36143	16 x 5/32 x 1	A24-R-BF TR	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 TR	5,500	10	20
36126	14 x 5/32 x 1	A24-T-BF TR	5,500	10	20

TR=Triple Reinforced

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

- **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" AC24-R, Ductile Iron

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

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 TR	5,500	10	20
35602	14 x 5/32 x 1	AC24-R-BF TR	5,500	10	20
36144	16 x 5/32 x 20mm	AC24-R-BF TR	4,800	10	20
36145	16 x 5/32 x 1	AC24-R-BF TR	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 TR	4,400	10	20
36117	14 x 5/32 x 1	C24-R-BF TR	4,400	10	20
36146	16 x 5/32 x 20mm	C24-R-BF TR	4,800	10	20
36147	16 x 5/32 x 1	C24-R-BF TR	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

HIGH SPEED CUT-OFF WHEELS

HIGH SPEED CUT-OFF WHEELS

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

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



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

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

14" Walk Behind Saw Wheels with Pinhole

- **C16:** Silicon Carbide - Asphalt/Green Concrete.
- **C24:** Silicon Carbide - Stone/Concrete.



14" wheels for Walk Behind Saws - Asphalt/concrete

14" Walk Behind Saw Wheels with Pinhole

UPC#	SIZE	SIZE (mm)	SPEC.	RPM	RETAIL PACK	MASTER PACK
35608	14 x 3/16 x 1 + PH	355 x 5 x 25.4 + PH	C16-U-BF	5,500	10	20
37672	14 x 3/16 x 1 + PH	355 x 5 x 25.4 + PH	C24-R-BF	5,500	10	20

DEMOLITION & RAIL BLADES

Demolition Blade All Purpose Metal Decking, Demolition Blade - Type 1

- Can be used wet or dry.
- Metal decking, reinforced concrete, steel, cast iron, ductile iron, PVC pipe and wood.



Type 1



Demolition Blade

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70446	12 x .15 x 1" / 20mm	24 Grit	6,300	1
70447	14 x .15 x 1" / 20mm	24 Grit	5,360	1

14-16" Rail Track Cut-Off Wheel

- 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	SIZE (mm)	SPEC.	RPM	RETAIL PACK	CARTON QTY
36162	14 x 1/8 x 1	355 x 3.2 x 25.4	ZA24-R-BF	5,500	10	20
36163	16 x 1/8 x 1	405 x 3.2 x 25.4	ZA24-R-BF	4,800	10	20

RESIN CONES & PLUGS

Resin Cones & Plugs

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



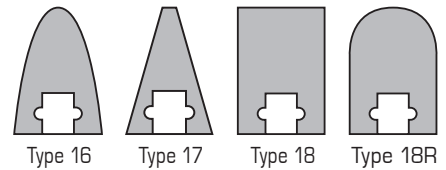
Cones

UPC#	SIZE	SPEC.	RPM	CARTON	UNIT
Type 16:					
49016	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49017	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10	20
49018	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49019	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
36238	2 x 3 x 5/8-11	A24R	18,100	10	20
49021	2 x 3 x 5/8-11	A16R	18,100	10	20
49022	2-3/4 x 3-1/2 x 5/8-11	A16R	13,200	10	20
49023	3 x 3 x 5/8-11	A16R	13,200	10	20
Type 17:					
49024	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49026	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49027	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
49028	2 x 3 x 5/8-11	A16R </td <td>18,100</td> <td>10</td> <td>20</td>	18,100	10	20
49029	2 1/2 x 3 x 5/8-11	A16R	18,100	10	20



Plugs

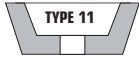
UPC#	SIZE	SPEC.	RPM	CARTON	UNIT
Type 18:					
49030	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49031	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10	20
49032	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49033	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
36239	2 x 3 x 5/8-11	A24R	18,100	10	20
49035	2 x 3 x 5/8-11	A16R	18,100	10	20
49036	2 x 3-1/2 x 5/8-11	A16R	18,100	10	20
Type 18R:					
49037	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49038	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10	20
49039	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49040	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
36240	2 x 3 x 5/8-11	A24R	18,100	10	20
49042	2 x 3 x 5/8-11	A16R	18,100	10	20
49043	3 x 3 x 5/8-11	A16R	13,200	10	20



RESIN CUP WHEELS

Resin Cup Wheels

- **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
No Steel Back:			
49000	A16-Q6-B	1	10
49002	C16-N-B	1	10
49003	CA16-N-B	1	10
With Steel Back:			
49001	A16-Q6-B	1	10

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

UPC#	SIZE	CARTON	UNIT
No Steel Back:			
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
No Steel Back:			
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-Q6-B	1	10
With Steel Back:			
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.

CARBIDE BURS

USA MADE CARBIDE BURS

Carbide Burs

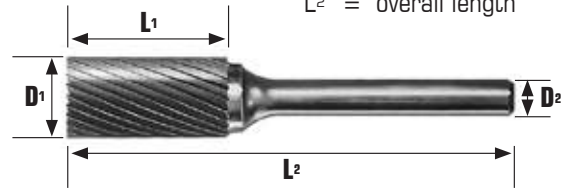
- CGW carbide burs are made on premium CNC machines for precision, uniform burs.
- **Single Cut:** General purpose cut made for steel, cast iron and other ferrous materials. Single cut burs provide good material removal and work piece finishes.
- **Double Cut:** Designed to produce smaller chips for 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.



D¹ = head diameter
L¹ = length of cut
D² = shank diameter
L² = overall length

SA - Cylinder Shape

- Application: **Deburring**
- No cut on end



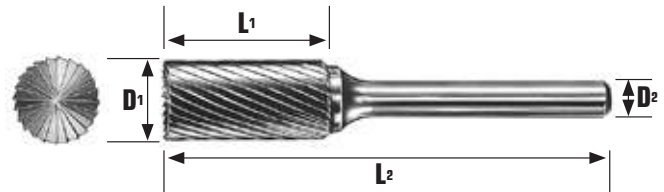
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SA-41	1/16"	1/4"	1/8"	1-1/2"	1		62301	
SA-42	3/32"	7/16"	1/8"	1-1/2"	1	62005		
SA-43	1/8"	9/16"	1/8"	1-1/2"	1	62008	62308	
SA-51	1/4"	1/2"	1/8"	2"	1		62318	
SA-1	1/4"	5/8"	1/4"	2"	1	62019	62319	
SA-3	3/8"	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		62330	
SA-7	3/4"	1"	1/4"	2-3/4"	1		62333	

Long Shank

SA-1L6	1/4"	1/2"	1/4"	6-1/2"	1		62321	
SA-3L6	3/8"	3/4"	1/4"	6-3/4"	1		62325	
SA-5L6	1/2"	1"	1/4"	7"	1		62329	

SB - Cylinder Shape

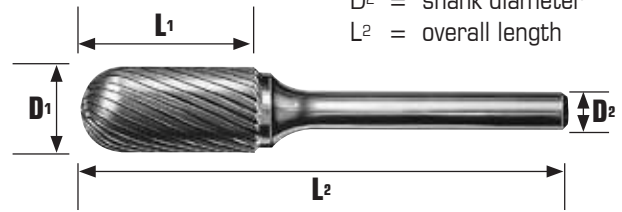
- Applications: **Face & Peripheral Milling**
- With end cut



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SB-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

SC - Cylinder Shape

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

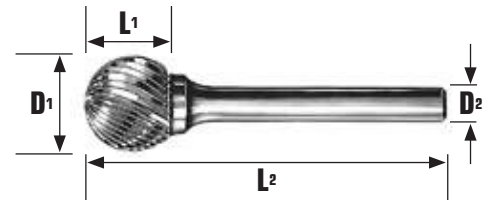


D¹ = head diameter
L¹ = length of cut
D² = shank diameter
L² = overall length

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SC-42	1/8"	9/16"	1/8"	1-1/2"	1	62066	62366	
SC-1	1/4"	5/8"	1/4"	2"	1	62077	62377	
SC-3	3/8"	3/4"	1/4"	2-1/2"	1	62081	62381	
SC-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62621
SC-5	1/2"	1"	1/4"	2-3/4"	1	62086	62386	
SC-5NF	1/2"	1"	1/4"	2-3/4"	1			62625
SC-7	3/4"	1"	1/4"	2-3/4"	1		62391	
Long Shank								
SC-1L6	1/4"	1/2"	1/4"	6-1/2"	1		62379	
SC-3L6	3/8"	3/4"	1/4"	6-3/4"	1		62383	
SC-5L6	1/2"	1"	1/4"	7"	1		62387	

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	3/32"	3/32"	1/8"	1-1/2"	1		62394	
SD-42	1/8"	1/8"	1/8"	1-1/2"	1		62395	
SD-51	1/4"	7/32"	1/8"	1-11/16"	1		62403	
SD-1	1/4"	7/32"	1/4"	2"	1	62104	62404	
SD-3	3/8"	5/16"	1/4"	2-5/64"	1		62407	
SD-3NF	3/8"	5/16"	1/4"	2-5/64"	1			62630
SD-5	1/2"	7/16"	1/4"	2-13/64"	1	62110	62410	
SD-5NF	1/2"	7/16"	1/4"	2-13/64"	1			62634
SD-6	5/8"	9/16"	1/4"	2-5/16"	1		62412	
SD-7	3/4"	11/16"	1/4"	2-7/16"	1		62413	
Long Shank								
SD-1L6	1/4"	1/4"	7/32"	6-7/32"	1		62405	
SD-3L6	3/8"	3/8"	1/4"	6-3/8"	1		62408	
SD-5L6	1/2"	1/2"	1/4"	6-1/2"	1		62411	

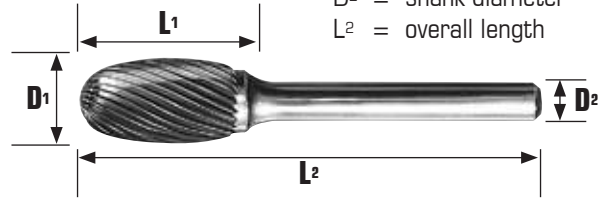
CARBIDE BURS

SE - Oval/Egg Shape

Application: **Contouring**



D¹ = head diameter
L¹ = length of cut
D² = shank diameter
L² = overall length



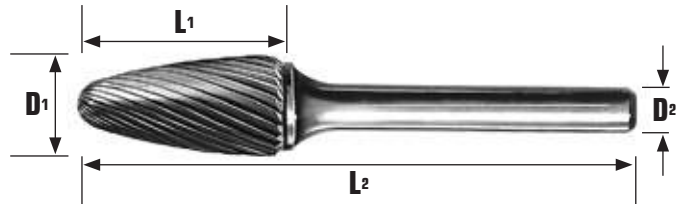
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SE-51	1/4"	3/8"	1/8"	1-7/8"	1		62422	
SE-1	1/4"	3/8"	1/4"	2"	1		62423	
SE-3	3/8"	5/8"	1/4"	2-3/8"	1		62425	
SE-3NF	3/8"	5/8"	1/4"	2-3/8"	1			62642
SE-5	1/2"	7/8"	1/4"	2-5/8"	1	62127	62427	
SE-5NF	1/2"	7/8"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

Long Shank

SE-1L6	1/4"	3/8"	1/4"	6-3/8"	1		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	

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		62432	
SF-51	1/4"	1/2"	1/8"	2"	1		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		62448	
SF-7	3/4"	1"	1/4"	2-3/4"	1		62449	
SF-14	3/4"	1-1/4"	1/4"	3"	1	62150	62450	

Long Shank

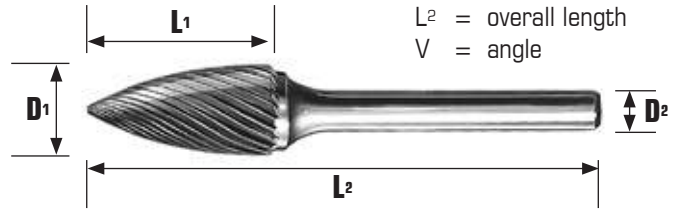
SF-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62143	62443	
SF-5L6	1/2"	1"	1/4"	7"	1		62447	

SG - Pointed Tree Shape

- Applications: Sharp angled areas, narrow contours



D¹ = head diameter
 L¹ = length of cut
 D² = shank diameter
 L² = overall length
 V = angle



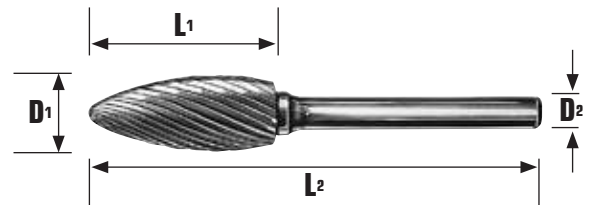
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SG-42	1/8"	5/16"	1/8"	1-1/2"	1		62454	
SG-51	1/4"	1/2"	1/8"	2"	1	62161		
SG-1	1/4"	5/8"	1/4"	2"	1		62462	
SG-3	3/8"	3/4"	1/4"	2-1/2"	1	62165	62465	
SG-5	1/2"	1"	1/4"	2-3/4"	1	62168	62468	

Long Shank

SG-1L6	1/4"	1/2"	1/4"	6-1/2"	1		62463	
SG-3L6	3/8"	3/4"	1/4"	6-3/4"	1		62466	
SG-5L6	1/2"	1"	1/4"	7"	1		62469	

SH - Flame Shape

- Application: Contouring



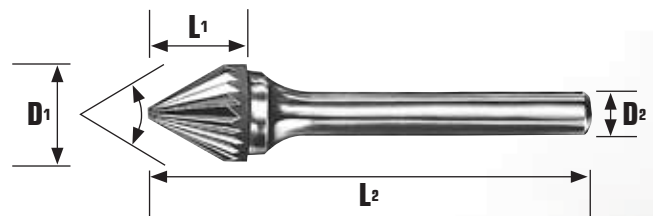
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SH-41	1/8"	1/4"	1/8"	1-1/2"	1		62473	
SH-1	1/4"	5/8"	1/4"	2"	1		62477	
SH-2	5/16"	3/4"	1/4"	2-1/2"	1		62478	
SH-5	1/2"	1-1/4"	1/4"	3"	1		62480	

Long Shank

SH-2L6	5/16"	3/4"	1/4"	6-3/4"	1		62479	
SH-5L6	1/2"	1-1/4"	1/4"	7-1/4"	1		62481	

SJ - 60° Cone Shape

- Applications: Sharp angled areas, countersinking

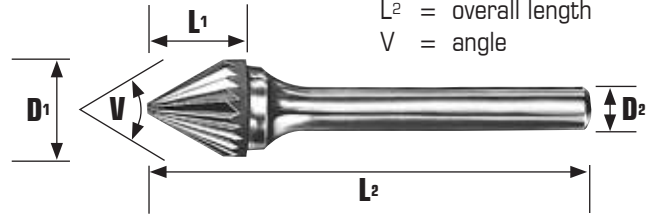


SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SJ-3	3/8"	5/16"	1/4"	2-3/16"	1	62186	62486	
SJ-5	1/2"	7/16"	1/4"	2-19/64"	1	62187*	62487*	

CARBIDE BURS

SK - 90° Cone Shape

- Applications: **Sharp angled areas, countersinking**

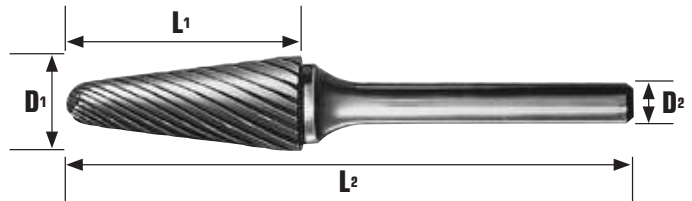


D¹ = head diameter
 L¹ = length of cut
 D² = shank diameter
 L² = overall length
 V = angle

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		62493	
SK-5	1/2"	1/4"	1/4"	2-1/8"	1		62494	

SL - Taper Shape Radius

- Applications:
Narrow contours, surface machining



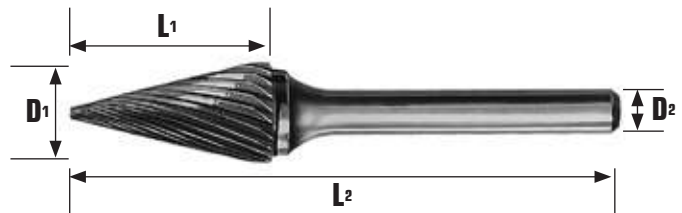
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SL-41	1/8"	3/8"	1/8"	1-1/2"	1		62498	
SL-42	1/8"	1/2"	1/8"	1-1/2"	1		62499	
SL-4	1/2"	1-1/8"	1/4"	3"	1	62202	62502	
SL-1	1/4"	5/8"	1/4"	2"	1		62505	
SL-3	3/8"	1-1/16"	1/4"	2-5/16"	1		62508	
SL-4NF	1/2"	1-1/8"	1/4"	3"	1			62668
SL-5	5/8"	1-3/16"	1/4"	3-1/16"	1		62511	
SL-5NF	5/8"	1-3/16"	1/4"	3-1/16"	1			62669

Long Shank

SL-3L6	3/8"	1-1/16"	1/4"	7-1/16"	1		62509	
SL-4L6	1/2"	1-1/8"	1/4"	7-1/8"	1		62510	

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		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	

Carbide Bur Kit

- 8-Piece kit has the most popular double cut carbide burs for faster cutting action, minimal loading and improved operator control.
- 8-Piece kit includes:
SA-5D (#62328), SC-5D (#62386),
SD-5D (#62410), SE-5D (#62477),
SG-5D (#62468), SH-5D (#62480),
SL-5D (#62511), SM-5D (#62526)

CARBIDE BUR KIT	UPC #
8 piece set	62700



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

S - Standard cut formation for general-purpose deburring.

D - Diamond cut for use on hard metals. Produces high surface quality, very small metal shavings and no blockage (double tooth).

ALU - Aluminium cut 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

USA MADE WIRE BRUSHES

USA MADE WIRE BRUSHES

Knot Wire Wheel Brushes

■ 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.



Bulk Wire Brushes
see pages 146-147

Knot Wire Wheel Brush

UPC#	SPEC	WIRE SIZE	THREADED ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
Knot Wire Wheel Brush – Standard Twist						
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
Knot Wire Wheel Brush – Standard Twist						
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
High Speed Small Grinder Stringer Bead Wheel Brush						
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
Knot Wire Wheel Brush – Stringer Bead						
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

*While Supplies Last.

Wire Cup Brushes

- 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.
- **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.
- **Crimped 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.



Bulk Wire Brushes
 see pages 146-147

Cup Brush

UPC#	SPEC	WIRE SIZE	THREADED ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
High Speed Small Grinder Knot Wire Cup Brush						
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
Knot Wire Cup Brush – Heavy Duty						
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
High Speed Small Grinder Crimped Wire Cup Brush						
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
Crimped Wire Cup Brush						
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

*While Supplies Last.

MISCELLANEOUS BRUSHES

End Brushes

- 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.



Bulk Wire Brushes
see pages 146-147



End Brush

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY	MASTER PACK QTY	BULK UPC#	CATALOG PAGE#
Knot Wire End Brush								
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	60133	147
60132	1" Knotted End Brush Stainless	.020	1/4"	22,000	12	144		
Crimped Wire End Brush								
60140	3/4" Crimped End Brush Carbon	.0104	1/4"	22,000	12	144	60250	147
60141	1" Crimped End Brush Carbon	.020	1/4"	22,000	12	144		

BRUSHES

Crimped Wire Wheel Brushes

- 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 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.



Bulk Wire Brushes
see pages 146-147



USA MADE WIRE BRUSHES

Crimped Wire Wheel Brush

UPC#	SPEC	WIRE SIZE	ARBOR OR SHANK	MAX RPM	BOX QTY	MASTER PACK QTY
Crimped Concave Wire Wheel Brush With Shank						
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	
Crimped Wire Wheel Brush With Shank						
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	
High Speed Small Grinder Crimped Wire Wheel Brush						
60150	4" Radial Carbon	.014	5/8-11	15,000	6	24
Crimped Wire Narrow Face Wheel Brush						
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
Crimped Wire Medium Face Wheel Brush						
60190	6" Radial Medium Carbon	.014	1/2-5/8	6,000	1	36
Crimped Wire Wide Face Wheel Brush						
60195	7" Radial Wide Carbon	.014	5/8	6,000	1	12
60196	10" Radial Wide Carbon	.014	5/8	3,600	1	6

MISCELLANEOUS BRUSHES

Miscellaneous Brushes

- **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
Metal Chip Brush			
60200	1" Metal Chip Brush	12	
Cement Cleaning Brush			
60000	12" Radial Cement Crack Cleaning Brush .035 Knot Carbon 1" w 7/16" Drive Pin Hole	1	4

Scratch Brushes

- 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
Economy Curved Handle Scratch Brush – w/hang up hole				
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
Economy Shoe Handle Scratch Brush				
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
Economy Small Cleaning Scratch Brush				
60208	3 x 7 Rows	Brass Scratch Brush Plastic Handle	36	648
60209	3 x 7 Rows	Stainless Scratch Brush Plastic Handle	36	648
Small Cleaning Scratch Brush				
60210	3 x 7 Rows	Brass Scratch Brush	36	648
60211	3 x 7 Rows	SS Scratch Brush	36	648
V-Trim Small Cleaning Scratch Brush				
60212	V-Groove	Scratch Brush Stainless	36	648
60213*	V-Groove	Scratch Brush Carbon	36	648

*While Supplies Last.

ADAPTERS & BRUSHES

Adapters

- Metal Adapters for Brushes with 2" Arbor Hole.



Adapters

UPC#	SPEC	DESCRIPTION
Metal Adapters for Brushes with 2" Arbor Hole		
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	12	72
60230	4" Pure Bristle Wood Handle Chip Paint Brush	12	48



KNOT WIRE WHEEL BRUSHES

Knot Wire Wheel Brushe - *Fast Cut*

■ 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 Twist

- Standard wire twist knot designed 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 – Cable Twist

- Cable twist knots designed for more aggressive action than standard knot wires.

■ 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.



Bulk Wire Brushes
 see pages 146-147

Knot Wire Wheel Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY	BULK UPC#	CATALOG PAGE#
Knot Wire Wheel Brush – Standard Twist								
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	49635	146
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		
Knot Wire Wheel Brush – Cable Twist								
60514	4" Cable Twist Carbon	.020	5/8-11	20,000	5	50	49637	146
60515	4" Cable Twist Stainless	.020	5/8-11	20,000	5	50	49638	146
Knot Wire Wheel Brush – Stringer Bead								
New 60520	4" Stringer Bead Carbon	.020	5/8-11	20,000	5	50	49639	146
60521	4" Stringer Bead Stainless	.020	5/8-11	20,000	5	50	49640	146
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	49641	146
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	49670	146
60526*	6-1/2" Stringer Bead Stainless	.020	5/8-11	12,000	5	25		

*While Supplies Last.

WIRE CUP BRUSHES

Wire Cup Brushes - *Fast Cut*

- 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.



Bulk Wire Brushes
see pages 146-147

ECONOMY WIRE BRUSHES

Cup Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY	BULK UPC#	CATALOG PAGE#
Knot Wire Cup Brush								
60535	2-3/4" Cup Knot Carbon	.014	5/8-11	12,500	5	50	49645	147
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	49646	147
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	49647	147
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		
Crimped Wire Cup Brush								
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		

*While Supplies Last.

WIRE END BRUSHES

End Brushes - *Fast Cut*

- 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	BULK UPC#	CATALOG PAGE#
Knot Wire End Brush								
60575	3/4" Knotted End Brush Carbon	.014	1/4"	20,000	5	200	49649	147
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	49650	147
Crimped Wire End Brush								
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

Crimped Wire Wheel Brushes - *Fast Cut*

- 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.

Bulk Wire Brushes
see pages 146-147

Crimped Wire Wheel Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY	BULK UPC#	CATALOG PAGE#
Crimped High Speed Small Grinder Crimped Wire Wheel Brush								
60650	4" Radial Carbon	.014	5/8-11	15,000	5	50	49642	146
60651	4" Radial Stainless	.014	5/8-11	15,000	5	50		
Crimped Wire Medium Face Wheel Brush								
New 60665	6" Radial Medium Carbon	.014	2	6,000	5	25		

BULK WIRE WHEEL BRUSHES

New Bulk Wire Wheel Brushes

- Quality performance and competitively priced wire wheel brushes in convenient bulk packs.
- Environmentally friendly packaging.
- Lower pricing than individual pack.
- High quality oil-tempered wire.



Bulk Knot Wire Wheel Brush - Standard Twist

- For aggressive yet, uniform brushing action.
- Designed for surface preparation, weld cleaning, removal of rubber flash, scale, rust, pipeline cleaning, and heavy duty applications.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49635	4" Radial Knot Carbon Standard	.020	5/8-11	20,000	10	Fast-Cut	60502	142
49636	4" Radial Knot Stainless Standard	.020	5/8-11	20,000	10	Fast-Cut		

Bulk Knot Wire Wheel Brush - Cable Twist Wheel Brush

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49637	4" Radial Knot Carbon Cable Twist	.020	5/8-11	20,000	10	Fast-Cut	60514	142
49638	4" Radial Knot Stainless Steel	.020	5/8-11	20,000	10	Fast-Cut	60515	142

Bulk Knot Wire Wheel Brush - Stringer Bead

- Easily reaches into narrow or recessed areas for quick material removal.
- For pipeline welding junctions and cleaning bead welds.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49639	4" Radial Knot Carbon Stringer Bead	.020	5/8-11	20,000	10	Fast-Cut	60520	142
49640	4" Radial Knot Stainless Steel Stringer	.020	5/8-11	20,000	10	Fast-Cut	60521	142
49641	6" Stringer Bead Carbon	.020	5/8-11	12,000	10	Fast-Cut	60523	142
49670	6-1/2" Stringer Bead Carbon	.020	5/8-11	12,000	12	Fast-Cut	60525	142

Bulk Knot Wire Wheel Brush - Encapsulated Stringer Bead

- Encapsulated wire gradually wears away to expose wire for consistent wear during aggressive brushing action for longer working life.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
60043	7" Stringer Bead	.014	5/8-11	9,000	40	Made In USA 		

Bulk Crimped Wire Wheel Brush

- For general use including cleaning and rust removal.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49642	4" Radial Crimp Carbon	.014	5/8-11	15,000	10	Fast-Cut	60650	145

Bulk Knot Wire Cup Brush

- For scale removal, deburring, weld cleaning and flat surfaces.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49645	2-3/4" Cup Knot Carbon	.014	5/8-11	12,500	10	Fast-Cut	60535	143
49646	2-3/4" Cup Knot Carbon	.020	5/8-11	12,500	10	Fast-Cut	60537	143
49647	4" Cup Knot Carbon 1 Row	.020	5/8-11	8,500	10	Fast-Cut	60539	143

Bulk Crimped Wire Cup Brush


- For light and medium duty cleaning including cleaning welds, burr removal and removing scale.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49648*	2-3/4" Cup Brush Crimped Carbon Wire	.014	5/8-11	12,500	10	Fast-Cut		

*While Supplies Last.

Bulk Knot End Brush with 1/4" Shank

- Can be used at higher brushing speeds.
- For pipeline cleaning, CNC equipment maintenance/cleaning and removal of rust or scale.

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49649	3/4" Knotted End Brush Carbon with 1/4" Shank	.014	1/4" Shank	20,000	20	Fast-Cut	60575	144
60133	1" Knotted End Brush Carbon with 1/4" Shank	.006	1/4" Shank	22,000	12	Made In USA 	60131	138
49650	1" Knotted End Brush Carbon with 1/4" Shank	.020	1/4" Shank	20,000	20	Fast-Cut	60580	144

Bulk Crimped End Brush with 1/4" shank

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
60250	3/4" Crimped End Brush Carbon with 1/4" Shank	.010	1/4" Shank	22,000	100	Made In USA 	60140	143

Bulk Crimped Wire Wheel Brush with 1/4" Shank

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49643	2" Crimped Carbon Wire with 1/4" Shank	.014	1/4" Shank	25,000	20	Fast-Cut		
49644	3" Crimped Carbon Wire with 1/4" Shank	.014	1/4" Shank	25,000	20	Fast-Cut		

Bulk Copper Center Wheel Brush

- For general use including cleaning and rust removal.


UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY		INDIV. UPC#	PAGE#
49624	3" Crimped Brush	.008	1/2", 3/8" Adaptor	25,000	50	Fast-Cut		

VITRIFIED WHEELS

VITRIFIED WHEELS



Comparative Marking Chart

Abrasives		SAINT-GOBAIN		TYROLIT	
		NORTON	CARBORUNDUM	CINCINNATI/ BAYSTATE	RADIAC
Regular Aluminum Oxide	A	A, 57A	A	A	A
Semi-Friable Aluminum Oxide	94AB	57A, 64A, 32A	6A	2A, 3A	JA
Mixed Aluminum Oxide	91AB	19A, 23A, 53A	DA	97A, 2A	FA, NA
Ceramic	AS3	3SG, 5SG	3SG, 5SG	3BP, 5MSB, 3MSB, 3GA, 5GA	7BW, 8BW, 8BP
Mono-Crystalline Aluminum Oxide	32A	32A	32AR	32A	32A
Premium Blue Aluminum Oxide	AZ	32A, 55A, 38A	–	9A, 48A, 12A, 17A, 32A	32A, SA WAA, WA
Ruby Aluminum Oxide	RA	48A	–	–	RA
Pink Aluminum Oxide	PA	55A, 32A, 25A	PA	87A, 12A, 17A	WAA, RAA, WRA
Premium Pink Aluminum Oxide	PASP	55A, 86A	–	87A, 32A	RAA, WRA
White Aluminum Oxide with Special Bond	WAG	38A, 23A, 19A	98A	9A, 97A, 12A	WA, 9A, RAA, WPA
White Aluminum Oxide	WA/83A	38A	AA	9A, 48A	SA, WA
Mixed Aluminum Oxide/ Silicon Carbide	CA	AC	CA	CA	CA
Green Silicon Carbide	GC	39C	GC	5C, 1C	GC
Black Silicon Carbide	72C, C	37C	C	6C, C	C

Special engineered vitrified wheels

CGW provides wheels to industries that request “Special Engineered Vitrified Wheels”.

For example, the aerospace and gas turbine industries manufacture aircraft engine blades and vanes using CGW open structure wheels. These special engineered wheels are typically used during Creep Feed Surface Grinding applications.

Our R&D department is committed to finding solutions for the most difficult applications. Using the Technical Data Sheet provided on page 152 along with your request would ensure that CGW could provide the best choice wheel for your application.

Our success in these industries, as well as the gear and bearings industries, is attributed not only to the sophisticated wheels we are capable of manufacturing, but also to the technical and logistical support that compliments them.

VITRIFIED WHEELS

CGW Grain Types

- A – Dark Aluminum Oxide:** The most common of all grains. This grain is used for heavy-duty general purpose applications.
- 94AB – Semi-Friable Aluminum Oxide:** Advanced grain technology used in Cylindrical and Centerless grinding wheels. This grain can be used to grind steels in either soft or hard state.
- AS3 – 20% Ceramic Aluminum Oxide, 30% Pink Grain, and 50% White Grain** creates a wheel with maximum grinding performance and life. Excellent for form and corner holding and down feed of .0005-.002 per pass.
- 32A – Mono-Crystalline Aluminum Oxide:** Ideal for medium to heavy stock removal; outstanding form holding and free cutting grain. Provides maximum versatility.
- AZ – Blue Aluminum Oxide:** Excellent at grinding HSS over 55 RC. Grinds with an exceptionally cool, fast cutting action and requires minimum dressing.
- RA – Red Aluminum Oxide (Ruby):** This grain is harder and sharper than PA and AZ. Good for steels with a high level of chromium.
- PA – Pink Aluminum Oxide:** Good general purpose grain that is tough, but friable. Excellent for tool room sharpening applications.
- 83A, WA – White Aluminum Oxide:** Highly friable grain for fast, cool cutting. Good for light grinding of all kinds of steels, particularly on tool and die steels.
- 91AB – White and Regular Aluminum Oxide:** Advanced Grain technology in combination with WA for Surface Grinding general applications and various materials.
- GC – Green Silicon Carbide:** More friable than C; for carbide grinding applications.
- 72C, C – Black Silicon Carbide:** Sharper than Aluminum Oxide and therefore more effective grinding low tensile materials and non-ferrous metals.
- WAG –** Highly friable grain with special bond characteristics for fast, cool cutting action and extended life over traditional aluminum oxide wheels.
- PASP –** Special pink formulation for precision grind applications. Tough, but very friable. Produced with new high performance VD ceramic bond for cooler cutting and longer life.

Analysis of Typical Vitrified Wheel Specifications

Grain Size

Coarse: 8, 10, 12, 14, 18, 20, 24
 Med: 30, 36, 46, 54, 60
 Fine: 80, 100, 120, 150, 180
 Very-Fine: 220, 240, 280, 320, 400, 600

Grade

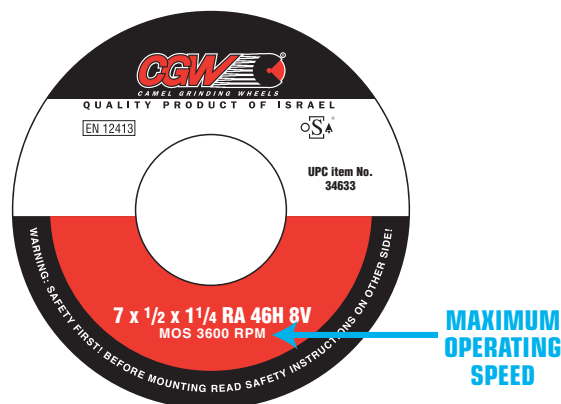
Soft: B, D, E, F, G, H
 Med: I, J, K, L, M, N
 Hard: O, P, Q, R, S, T

Bond

V, VN18, V32A, VD18, VD, VN: Vitrified
 VP, V18P, VPB, VCERP: Vitrified Porous
 B: Resin
 B2: Resin Bonded
 BF: Reinforced Resin
 RX: Natural Rubber
 CDR: Calendered Rubber

Structure

DENSE ←————→ **OPEN/POROUS**
 3 4 5 6 7 8 9 10 11 12 18



Basic Characteristics of a CGW Wheel

The CGW grinding wheel consists of abrasive grains held together by a bond. By varying the properties of the abrasives, the type of bond and the structure of the wheel, it is possible to produce innumerable grinding characteristics.

The Abrasive: There are two main categories of grain:

Aluminum Oxide - For grinding high tensile steel (i.e. hardened or high speed steels)

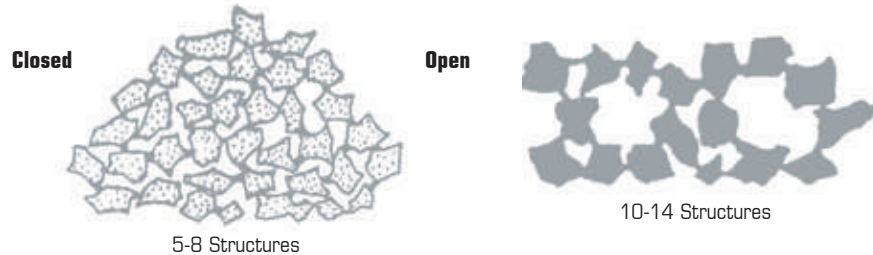
Silicon Carbide - Low tensile steels (i.e. cast iron and non-ferrous metals)

Bond: The function of the bond is to hold the abrasive grains in a definite spacing to form a product of defined size and shape. The most commonly used bonds are:

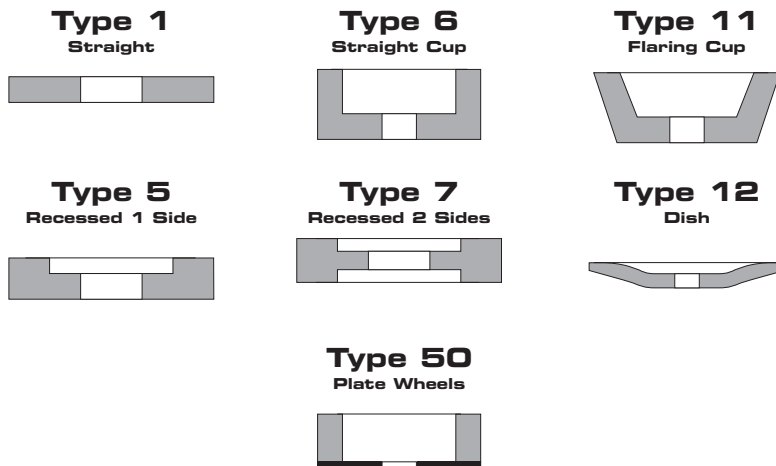
Vitrified - This bond gives rich stock removal and its rigidity is excellent for precision grinding.

Resin - An organic bond which makes the wheel tougher; suited for heavy-duty operations, high operating speeds, rough grinding and cut-off applications (i.e. 1-1/2 - 20" Cutoff Wheels, 3 - 9" Depressed Center Wheels).

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.



Standard Wheel Shapes



Standard Wheel RPMs

Diameter	RPM
6	4,456
7	3,760
8	3,600
10	2,674
12	2,228
14	1,910
16	1,671

VITRIFIED WHEELS

Technical Information Data Sheet for Grinding Operation

Grinding Operation					
Cylindrical Grinding	<input type="checkbox"/> Traverse Grinding	<input type="checkbox"/> Plunge Grinding	<input type="checkbox"/> Internal Grinding	<input type="checkbox"/> Sharpening Grinding	<input type="checkbox"/> Gears
Surface Grinding	<input type="checkbox"/> Traverse Grinding	<input type="checkbox"/> Plunge Grinding	<input type="checkbox"/> Creep Feed		
Centerless Grinding	<input type="checkbox"/> Through Feed	<input type="checkbox"/> In-Feed	<input type="checkbox"/> End Feed		
Tool Room					
Cutting					
Bench					
Other					
Machine Data					
Type of Grinder					
Control System	<input type="checkbox"/> CNC	<input type="checkbox"/> Manual			
Production Year					
Machine Condition					
No. of Machines					
Coolant Type	<input type="checkbox"/> Oil	<input type="checkbox"/> Emulsion	<input type="checkbox"/> Dry		
Other					
Grinding Wheel Data					
Wheel Dimensions	D x W x H				
Shape					
Shape Dimensions					
Tolerance	<input type="checkbox"/> Standard	<input type="checkbox"/> Special			
Spindle Speed					
Work Piece Speed					
Dressing Tool System	<input type="checkbox"/> Stationary	<input type="checkbox"/> Rotary			
Other					
Work Piece Data					
Shape					
Material					
Hardness					
Total Material to Remove					
Surface Finish (Ra)					
Other					
Wheel Used Today					
Brand					
Specifications					
Parts per Dress					
Grind Time					
No. of Wheels per Year					
Other					

Fax: 800-447-3731

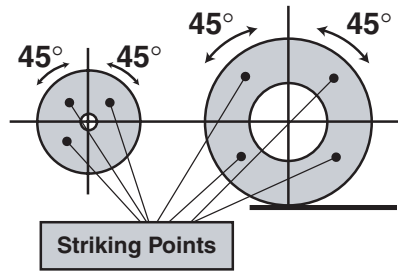
Email: orders@cgwcamel.com

Part#: _____

Surface Grinding Wheel Safety

Ring Test

- Always perform a ring test on a grinding wheel before mounting it. The ring test will locate an invisible crack.
- If a sharp distinct ring is heard the wheel is safe.
- If the wheel is cracked the ring will be dull.
DO NOT USE DAMAGED WHEELS.



Warning!

Grinding Wheels Improperly Used Are Dangerous

Grinding is a safe operation if the few basic rules listed below are followed. These rules are based on material contained in the ANSI B7.1 Safety Requirements for "Use, Care and Protection of Abrasive Wheels." For your safety, we suggest you benefit from the experience of others and carefully follow these rules.

Safe Operating Instructions

ALWAYS USE A GUARD

WEAR EYE PROTECTION

COMPLY WITH ANSI CODE B7.1 AND OSHA REGULATIONS

DO NOT EXCEED MAXIMUM SAFE SPEED MARKED ON WHEEL

1. DO always HANDLE AND STORE wheels in a CAREFUL manner.
2. DO VISUALLY INSPECT and ring test all wheels before mounting for possible damage.
3. DO CHECK MACHINE SPEED against the established maximum safe operating speed marked on the wheel.
4. DO CHECK MOUNTING FLANGES for equal and correct diameter.
5. DO USE MOUNTING BLOTTERS when supplied with wheels.
6. DO be sure WORK REST is properly adjusted. (Center of wheel or above; no more than 1/8" away from wheel.)
7. DO always USE A SAFETY GUARD covering at least one-half of the grinding wheel.
8. DO allow NEWLY MOUNTED WHEELS to run at operating speed, with a guard in place, for at least one minute before grinding.
9. DO always WEAR SAFETY GLASSES or some type of eye protection when grinding.
10. DO TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance condition.
1. DON'T use a cracked wheel or one that HAS BEEN DROPPED or has become damaged.
2. DON'T FORCE a wheel onto the machine OR ALTER the size of the mounting hole—if wheel won't fit the machine, get one that will.
3. DON'T ever EXCEED MAXIMUM OPERATING SPEED established for the wheel.
4. DON'T use mounting flanges on which the bearing surfaces ARE NOT CLEAN, FLAT AND FREE OF BURRS.
5. DON'T OVERTIGHTEN the mounting nut EXCESSIVELY.
6. DON'T grind the SIDE OF THE WHEEL (see Safety Code for B7.1 for exception).
7. DON'T start the machine until the WHEEL GUARD IS IN PLACE.
8. DON'T JAM work into the wheel.
9. DON'T STAND DIRECTLY IN FRONT of a grinding wheel whenever a grinder is started.
10. DON'T FORCE GRINDING so that motor slows noticeably or work gets hot.

SURFACE GRINDING WHEELS



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

- Mono-crystalline aluminum oxide grain 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.

AZ – Premium Blue Aluminum Oxide

- Sharp aluminum oxide grain with premium CGW bond offers excellent versatility and performance.
- Exceptionally fast and cool cutting characteristics suitable for grinding heat sensitive, alloy steels and mold steels (high speed steels under 58RC).
- 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/PASP – Pink Aluminum Oxide/Premium Pink Aluminum Oxide

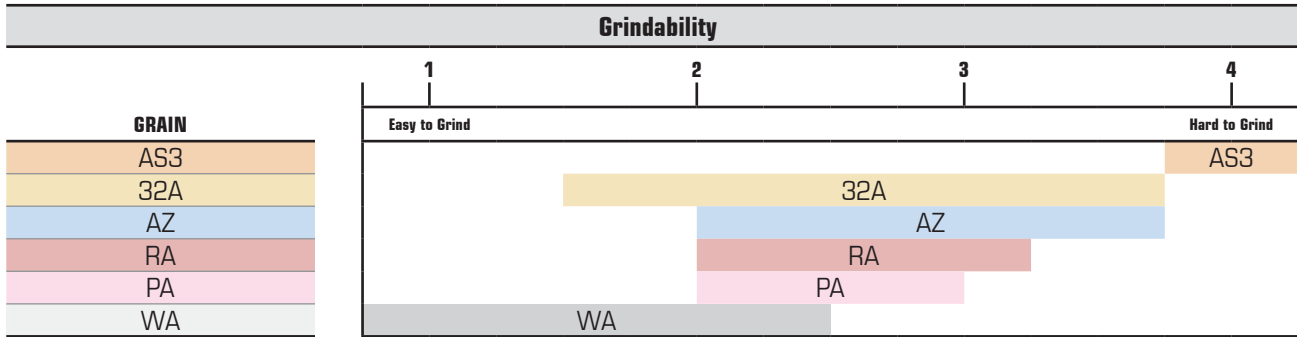
- Engineered for grinding high speed steels over 55C and general purpose tool steels.
- Best choice for fast & cool cutting of heat sensitive & hard alloys. 55RC and general purpose tool steels.
- Excellent tool sharpening wheel.
- Best value for performance & tooling costs.

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

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
Air-Hardening Medium Alloy Cold Work Tool Steels		Carbon-Tungsten Tool Steels		Molybdenum Hot Work Tool Steels		Molybdenum High-Speed Tool Steels (cont.)		Oil-Hardened Cold Work Tool Steels		Tungsten High-Speed Tool Steels	
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	Chromium Hot Work Tool Steels		Low-Alloy Special Purpose Tool Steels		M10	2	O7	1	T4	2
A6	1					M15	4	Mold Steels		T5	3
A7	1	H10	1			M20	2			T6	3
A8	1	H11	1	L1	1	M25	2	P1	1	T7	2
A9	1	H12	1	L2	1	M30	2	P2	1	T8	2
A10	1	H13	1	L3	1	M33	3	P3	1	T9	4
Air-Hardening Medium Alloy Cold Work Tool Steels		H14	1	L4	1	M34	3	P4	1	T15	4
D1	2	H16	1	L5	1	M35	3	P5	1	T20	4
D2	3	H17	1	L6	1	M40	3	P6	1	Water-Hardening Tool Steels	
D3	2	Tungsten Hot Work Tool Steels		Molybdenum High-Speed Tool Steels		M41	3	P20	1	W1	1
D4	2	H20	1			M42	3	P21	1	W2	1
D5	2	H21	1	M1	2	M43	3	Shock-Resisting Tool Steels		W3	1
D6	2	H22	1	M2	2	M44	3	S1	1	W4	1
D7	4	H23	1	M3	3	M45	3	S2	1	W5	1
		H24	1	M4	4	M50	3	S3	1	W7	1
		H25	1			M52	3	S4	1		
		H26	1					S5	1		
								S6	1		
								S7	1		

Surface Grinding Tips

There are many applications in surface grinding, from heavy stock removal to a very precise finish and size requirements. Matching the right wheel with the application is very important to achieve the needs of the grinder. There are many ways to meet these needs. If a fine finish is required a finer wheel may be used. Many times an operator may use one wheel to do the job of many changing the speed and feed of the wheel.

Grit Size / Grain Size Combinations

Grit Size: All abrasives are sized to a national standard and are assigned a numerical designation. The higher the number, the finer the grit size. When selecting grit size, the following should be considered:

- | | |
|--|---|
| <p>Use Coarse Grit:</p> <ul style="list-style-type: none"> • For rapid stock removal • For large areas of contact • When finish is not important • For softer materials | <p>Use Fine Grit:</p> <ul style="list-style-type: none"> • For form holding • For small areas of contact • For fine finishes • For hard, brittle materials |
|--|---|

General Grain Size Selections

Grain	Finish (Rms)	Grain	Finish (Rms)	Grain	Finish (Rms)
46	Over 32	80	12 – 18	120	8 – 12
54	20 – 32	100	10 – 15	150	6 – 10
60	15 – 20				

SURFACE GRINDING WHEELS

SIZE – GRIT – HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White	Carton	Unit
6 x 1/2 x 1 1/4 T1 60-K			34301				10	20
7 x 1/4 x 1 1/4 T1 46-I			34303		58000	34600	10	20
7 x 1/4 x 1 1/4 T1 60-I			34308			34603	10	20
7 x 1/4 x 1 1/4 T1 60-J			34309	59025	58001	34604	10	20
7 x 1/4 x 1 1/4 T1 60-K	34206		34310			34605	10	20
7 x 1/4 x 1 1/4 T1 80-J			34312			34606	10	20
7 x 1/4 x 1 1/4 T1 80-K	34207		34313		58002	34607	10	20
7 x 1/4 x 1 1/4 T1 80-L							10	20
7 x 1/4 x 1 1/4 T1 100-K			34315		58003	34608	10	20
7 x 1/4 x 1 1/4 T1 120-K						34609	10	20
7 x 1/4 x 1 1/4 T1 150-K			34317			34610	10	20
7 x 1/2 x 1 1/4 T1 46-G						34614	10	20
7 x 1/2 x 1 1/4 T1 46-H	34208	37700	34318	34633	58004	34615	10	20
7 x 1/2 x 1 1/4 T1 46-I	34210	37701	34319			34616	10	20
7 x 1/2 x 1 1/4 T1 46-J	34209	37702	34320		58006	34617	10	20
7 x 1/2 x 1 1/4 T1 46-J/K				34634			10	20
7 x 1/2 x 1 1/4 T1 46-K		37703	34321		58007	34618	10	20
7 x 1/2 x 1 1/4 T1 60-H			34323		58008	34619	10	20
7 x 1/2 x 1 1/4 T1 60-I		37704	34324			34620	10	20
7 x 1/2 x 1 1/4 T1 60-J	34212	37705	34325		58010	34621	10	20
7 x 1/2 x 1 1/4 T1 60-J/K				34635			10	20
7 x 1/2 x 1 1/4 T1 60-K	34213	37706	34326		58011	34622	10	20
7 x 1/2 x 1 1/4 T1 60-L			34327				10	20
7 x 1/2 x 1 1/4 T1 80-H			34328				10	20
7 x 1/2 x 1 1/4 T1 80-K	37768	37728	34329	59000	58012	34623	10	20
7 x 1/2 x 1 1/4 T1 100-K			34330			34624	10	20
7 x 1/2 x 1 1/4 T1 120-K			34331			34625	10	20
7 x 1/2 x 1 1/4 T1 150-K			34332			34626	10	20
7 x 1/2 x 1 1/4 T1 46-H12			34333				10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H		37729	34335			34636	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-I			34336		58013		10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J			34337	59001		34638	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-K			34338				10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-H						34640	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J		37731	34341	59002	58015	34642	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J/K							10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H		37732	34342		58016	34647	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I			34343			34648	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J		37733	34344	59003	58017	34649	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K			34345				10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34652	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J		37734	34348	59004	58018	34653	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K			34349				10	20
8 x 1/4 x 1 1/4 T1 46-J	37769						10	20
8 x 1/4 x 1 1/4 T1 60-J	34114						10	20
8 x 1/4 x 1 1/4 T1 60-K						34663	10	20
8 x 1/4 x 1 1/4 T1 80-J						34664	10	20
8 x 1/2 x 1 1/4 T1 46-H		37707	34350	59005	58019	34671	10	20
8 x 1/2 x 1 1/4 T1 46-I		37708	34351			34672	10	20
8 x 1/2 x 1 1/4 T1 46-J	37771	37709	34352		58021	34673	10	20
8 x 1/2 x 1 1/4 T1 46-J/K				59006			10	20
8 x 1/2 x 1 1/4 T1 46-K	34214		34353			34674	10	20
8 x 1/2 x 1 1/4 T1 60-H			34354				10	20
8 x 1/2 x 1 1/4 T1 60-I			34355			34676	10	20
8 x 1/2 x 1 1/4 T1 60-J	34215	37710	34356		58023	34677	10	20
8 x 1/2 x 1 1/4 T1 60-K			34357	59007	58024	34678	10	20
8 x 1/2 x 1 1/4 T1 80-K		37736	34358	59008	58025	34679	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H			34359	59009	58026	34683	10	20

Items in gray are being discontinued and then available as a special make item only.

SELECTION CHART

SIZE – GRIT – HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White	Carton	Unit
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J			34360			34685	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-I						34688	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J			34364	59033 J/K		34689	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-K						34690	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H			34366				10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I						34696	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J			34367		58028	34697	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J/K				59010			10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K						34698	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34700	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J			34369		58029	34701	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J/K				59011			10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K						34702	10	20
10 x 1/2 x 3 T1 60-J						34712	5	10
10 x 3/4 x 3 T1 46-I			34380				5	10
10 x 3/4 x 3 T1 60-H			34383				5	10
10 x 3/4 x 3 T1 60-I						34719	5	10
10 x 1 x 2 T1 46-I			34387				5	10
10 x 1 x 3 T1 46-H						34723	5	10
10 x 1 x 3 T1 46-I			34390				5	10
10 x 1 x 3 T1 46-J	37773	37737	34391		58031	34725	5	10
10 x 1 x 3 T1 46-J/K				59012			5	10
10 x 1 x 3 T1 46-K	34217		34392				5	10
10 x 1 x 3 T1 60-I			34394				5	10
10 x 1 x 3 T1 60-J		37738	34395	59035 J/K	58032	34729	5	10
10 x 1 x 3 T1 60-K			34396				5	10
12 x 3/4 x 3 T1 46-H			34397				4	8
12 x 3/4 x 3 T1 46-I						34735	4	8
12 x 3/4 x 5 T1 60-J			34409				4	8
12 x 1 x 3 T1 46-H	34219	37712	34411	59013	58033	34742	2	6
12 x 1 x 3 T1 46-I							2	6
12 x 1 x 3 T1 46-J	34220	37713	34413		58034	34744	2	6
12 x 1 x 3 T1 46-J/K				59014			2	6
12 x 1 x 3 T1 46-K			34414				2	6
12 x 1 x 3 T1 60-I	34221		34416				2	6
12 x 1 x 3 T1 60-J	37775			59036 J/K			2	6
12 x 1 x 3 T1 60-K		37739	34418				2	6
12 x 1 x 5 T1 46-H	34222		34419			34752	2	4
12 x 1 x 5 T1 46-J	34223	37740	34421	59038 J/K		34755	2	4
12 x 1 x 5 T1 46-K			34422	59015	58035		2	4
12 x 1 x 5 T1 60-J	37777	37742	34425			34759	2	4
12 x 1 x 5 T1 60-K			34426	59016	58036		2	4
12 x 1 x 5 T1 80-K		37754					2	4
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-H						34761	2	4
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-I						34762	2	4
12 x 1 1/2 x 3 (w-7 1/2 x 1/2) T5 46-J						34763	2	4
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 60-I						34766	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-H	34225	37714	34427	59017	58037	34769	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-I						34770	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J	34226	37715	34429		58038	34771	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J/K				59018			2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-K			34430				2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-I						34774	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-J	34227	37755	34433	59040 J/K		34775	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-K		37744				34776	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 80-K							2	4
12 x 2 x 3 (R/2-7 1/2 x 1/2) T7 46-I			34434				1	3
12 x 2 x 3 (R/2-6 1/2 x 1/2) T7 60-J			34435				1	3

Items in gray are being discontinued and then available as a special make item only.

SELECTION CHART

SIZE – GRIT – HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White	Carton	Unit
12 x 2 x 5 (R/2-6 1/2 x 1/2) T7 46-H		37716	34436	59019	58039		1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 46-I		37717	34437		58040	34778	1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 46-J		37757				34779	1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 46-J/K				59020			1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 60-H			34440			34781	1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 60-J				59041 J/K			1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 60-K							1	3
14 x 1 x 3 T1 46-H	37779						2	4
14 x 1 x 3 T1 46-I			34445				2	4
14 x 1 x 3 T1 46-J	34115						2	4
14 x 1 x 3 T1 60-J	37780						2	4
14 x 1 x 5 T1 46-H	34230	37745	34447	59042	58048		2	4
14 x 1 x 5 T1 46-I		37718	34448		58049	34786	2	4
14 x 1 x 5 T1 46-I/J				59021			2	4
14 x 1 x 5 T1 46-J	34232	37759	34449				2	4
14 x 1 x 5 T1 46-K							2	4
14 x 1 x 5 T1 60-I			34452			34790	2	4
14 x 1 x 5 T1 60-J	34233						2	4
14 x 1 x 5 T1 60-K		37746	34454		58050	34792	2	4
14 x 1 x 5 T1 80-K		37761				34830	2	4
14 x 1 1/2 x 5 T1 46-H	34238	37719	34456	59022		34801	2	4
14 x 1 1/2 x 5 T1 46-I		37747				34802	2	4
14 x 1 1/2 x 5 T1 46-J	34239	37720	34458			34803	2	4
14 x 1 1/2 x 5 T1 46-K			34459	59045			2	4
14 x 1 1/2 x 5 T1 60-H			34460				2	4
14 x 1 1/2 x 5 T1 60-I	34240						2	4
14 x 1 1/2 x 5 T1 60-J			34462				2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-H	34234	37721	34464		58041	34793	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-I	34235	37722	34465			34794	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-I/J				59023			2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-J	37782		34466		58042	34795	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-K		37748	34467				2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-H							2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-I	34236		34469			34798	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-J	37783	37749	34470				2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-K							2	4
14 x 2 x 5 T1 46-H		37750	34472				1	2
14 x 2 x 5 T1 46-I			34473			34808	1	2
14 x 2 x 5 T1 46-J		37723	34474				1	2
14 x 2 x 5 T1 60-J		37764				34809	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-H	34241	37724	34480	59024	58043	34811	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-I			34481		58044	34812	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-J		37751	34482			34813	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-K							1	2
14 x 2 x 5 (R/1-8 x 1) T5 60-I						34816	1	2
14 x 2 x 5 (R/1-8 x 1) T5 60-J	34116		34486	59059 J/K			1	2
14 x 2 x 5 (R/1-8 x 1) T5 60-K		37726	34487		58045		1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-H		37752					1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-I			34488		58046		1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-J			34489		58047		1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-K			34490				1	2
14 x 2 x 5 (R/1-8 x 1) T7 60-J		37753					1	2
16 x 1 1/2 x 5 T1 46-H			34491				1	2
16 x 1 1/2 x 5 T1 60-H			34500				1	2
16 x 1 1/2 x 5 T1 60-J			34493				1	2
16 x 2 x 5 T1 46-I			34495				1	2
16 x 2 x 5 T1 46-J			34496				1	2
16 x 2 x 5 T1 60-K			34497				1	2

Items in gray are being discontinued and then available as a special make item only.

SURFACE GRINDING WHEELS

New Porous Surface Grinding Wheels

- 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	Unit	Carton
7 x 1/2 x 1 1/4 T1 46-G12		37786	59080		10	20
7 x 1/2 x 1 1/4 T1 46-H12	34250	37787	59081	58062	10	20
7 x 1/2 x 1 1/4 T1 60-H12	34251	37788	59082	58063	10	20
8 x 1/2 x 1 1/4 T1 46-G12	34252	37789			10	20
8 x 1/2 x 1 1/4 T1 46-H12		37790	59084	58065	10	20
8 x 1/2 x 1 1/4 T1 60-H12	34254	37791	59085	58066	10	20
10 x 1/2 x 1 1/4 (+bushing to 3/4) T1 60-H12		37796	59090	58071	1	5
10 x 1 x 1 1/4 T1 46-H12		37797	59091	58072	5	10
12 x 1 1/2 x 5 T5 46-H12	34255	37792	59086	58067	2	4
14 x 1 1/2 x 5 T1 46-H12	34256	37793	59087	58068	2	4
14 x 1 1/2 x 5 T5 46-H12		37794	59088		2	4
14 x 1 1/2 x 5 T5 60-H12				58069	2	4
14 x 2 x 5 T5 46-H12	34258	37795	59089		1	2
14 x 2 x 5 T5 60-H12				58070	1	2

Items in gray are being discontinued and then available as a special make item only.

Structure

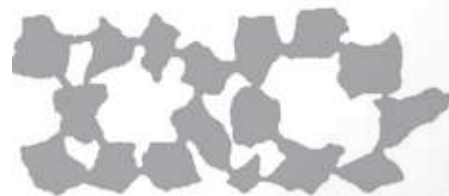
Wheel structure is the spacing of the grain in the wheel. The grain is held in position by the bond, the closer the grains (the smaller the pores), the lower the structure. The further apart the grains (the larger the pores), the higher the structure.

Closed



5-8 Structures

Open



10-14 Structures

SURFACE GRINDING WHEELS

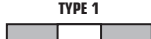
Green Silicon Carbide Surface Grinding Wheels

7"-8" Diameter Grinding Wheels

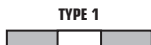
GC – Green Silicon Carbide Grain

- Quickly grinds non-ferrous metals and sharpens tungsten carbide tools.
- Used on titanium and cemented carbide.

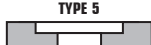


7 x 1/4 x 1-1/4  **3760 RPM**

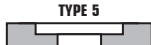
UPC#	SPEC.	CARTON	UNIT
34611	GC60-I-V	10	20
34612	GC80-I-V	10	20
34613	GC100-I-V	10	20

7 x 1/2 x 1-1/4  **3760 RPM**

UPC#	SPEC.	CARTON	UNIT
34627	GC60-I-V	10	20
34628	GC80-I-V	10	20
34629	GC100-I-V	10	20

7 x 3/4 x 1-1/4  **3760 RPM**
R/1 – 3 x 1/4


UPC#	SPEC.	CARTON	UNIT
34644	GC60-I-V	10	20
34645	GC80-I-V	10	20
34646	GC100-I-V	10	20

7 x 1 x 1-1/4  **3760 RPM**
R/1 – 3 x 1/2

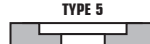
UPC#	SPEC.	CARTON	UNIT
34655	GC60-I-V	10	20
34656	GC80-I-V	10	20
34657	GC100-I-V	10	20

8 x 1/4 x 1-1/4  **3600 RPM**

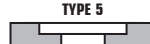
UPC#	SPEC.	CARTON	UNIT
34669	GC80-I-V	10	20

8 x 1/2 x 1-1/4  **3600 RPM**

UPC#	SPEC.	CARTON	UNIT
34680	GC60-I-V	10	20
34681	GC80-I-V	10	20
34682	GC100-I-V	10	20

8 x 3/4 x 1-1/4  **3600 RPM**
R/1 – 3 x 1/4

UPC#	SPEC.	CARTON	UNIT
34692	GC60-I-V	10	20

8 x 1 x 1-1/4  **3600 RPM**
R/1 – 3 x 1/2

UPC#	SPEC.	CARTON	UNIT
34703	GC60-I-V	10	20
34705	GC100-I-V	10	20

32A ID (Internal Dimension) Wheels

- For grinding inside surfaces of bearings, rings, cylinders, barrels, and bores.
- Designed for concentricity, precision, rigidity, and efficiency.

UPC#	SPEC.	RPM	UNIT	UNIT
59050	3/4 x 3/4 x 1/4 (3/8 x 3/8) 32A60-J8-V	33,500	20	40
59051	1 x 1 x 1/4 T5 (1/2 x 1/2) 32A60-J8-V	26,800	20	40
59052	1 x 1 x 3/8 T5 (1/2 x 1/2) 32A60-J8-V	26,800	20	40
59053	1-1/4 x 1 x 3/8 T5 (5/8 x 1/2) 32A60-J8-V	20,900	20	40
59054	1-1/2 x 1 x 3/8 T5 (5/8 x 1/2) 32A60-J8-V	16,750	20	40
59055	1-1/2 x 1 x 3/8 T5 (3/4 x 1/2) 32A60-J8-V	16,750	20	40
59056	2 x 1 x 3/8 T5 (3/4 x 3/8) 32A60-J8-V	13,400	20	40
59057	2 x 1 1/2 x 5/8 T5 (1 x 3/4) 32A60-J8-V	13,400	20	40



MOUNTED POINTS

Mounted Points Premium Pink Aluminum Oxide



- 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 2	1/4 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.

Dressing Wheels, Sticks & Honers

- Combination Stone: Designed to clean magnetic chucks.
- Dressing Wheels: Break control devices used for dressing/opening diamond wheels.
- Dressing Sticks: Dressing and opening vitrified bonded wheels.
- Silicon Carbide



Dressing Wheels 10,823 R.P.M.

UPC#	SIZE	SPEC.	CARTON	UNIT
35905	3 x 1/2 x 1/2	72C-80-L-V	50	100
35906	3 x 1 x 1/2	72C-60-L-V	20	40
35907	3 x 1 x 1/2	72C80-J-XV	20	40
35908	3 x 1 x 1/2	72C-80-L-V	20	40

Round - Combination Stone

UPC#	SIZE	SPEC.	CARTON	UNIT
35902	4 x 1/2	C150/320-MN7	20	40

Dressing Sticks

UPC#	SIZE	SPEC.	CARTON	UNIT
35909	1 x 1 x 6	C24-S-V	50	100

BENCH & PEDESTAL WHEELS

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

- 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.

H*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors
 H²: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors
 H³: 1-1/2" Hole, Installed Telescopic Bushings for 1-1/4" and 1" Arbors
 H⁴: 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
Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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
Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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
Green Silicon Carbide:			
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
Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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
Green Silicon Carbide:			
35039	GC60-I-V	10	20
35040	GC80-I-V	10	20
35041	GC100-I-V	10	20

8 x 3/4 x 1 (H⁴) 3,600 R.P.M.


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

8 x 1 x 1-1/4 (H⁴) 3,600 R.P.M.

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
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
Green Silicon Carbide:			
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



Type 1


- **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.

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

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
38001	A24-Q-V	1	10
38003	A46-M-V	1	10
38004	A60-M-V	1	10
38005	A80-M-V	1	10
Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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
Premium Blue Aluminum Oxide:			
38111	AZ36-K8-V3	1	10
38113	AZ60-K8-V3	1	10
38114	AZ80-K8-V3	1	10
38116	AZ120-K8-V3	1	10
White Aluminum Oxide:			
38613	WA60-K-V	1	10
38616	WA120-K-V	1	10
Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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
Premium Blue Aluminum Oxide:			
38121	AZ36-K8-V32A	1	10
38123	AZ60-K8-V32A	1	10
38126	AZ120-K8-V32A	1	10
White Aluminum Oxide:			
38623	WA60-K-V	1	10
38626	WA120-K-V	1	10
Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
38562	A60-M-V	1	10
Green Silicon Carbide:			
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
 H²: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors
 H³: 1-1/2" Hole, Installed Telescopic Bushings for 1-1/4" and 1" Arbors
 H⁴: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

BENCH & PEDESTAL WHEELS

Single Packs

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

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
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

Premium Blue Aluminum Oxide:			
38161	AZ36-K8-V32A	1	10
38163	AZ60-K8-V32A	1	10
38164	AZ80-K8-V32A	1	10
38166	AZ120-K8-V32A	1	10

White Aluminum Oxide:			
38663	WA60-K-V	1	10
38666	WA120-K-V	1	10

Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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

Premium Blue Aluminum Oxide:			
38201	AZ36-K8-V32A	1	10
38203	AZ60-K8-V32A	1	10
38204	AZ80-K8-V32A	1	10
38206	AZ120-K8-V32A	1	10

White Aluminum Oxide:			
38703	WA60-K-V	1	10
38706	WA120-K-V	1	10

Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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

Green Silicon Carbide:			
38519	GC60-I-V	1	5
38520	GC80-I-V	1	5
38521	GC100-I-V	1	5

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

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
35064	A46/54-M-V	1	5

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

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
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

Green Silicon Carbide:			
38522	GC60-I-V	1	4
38523	GC80-I-V	1	4
38524	GC100-I-V	1	4

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

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
35073	A30/36-O-V	1	2
35074	A54-M-V	1	2

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

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
38036	A24-Q-V	1	2
38038	A46-M-V	1	2
38039	A60-M-V	1	2

Green Silicon Carbide:			
38525	GC60-I-V	1	2

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

H2: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors

H3: 1-1/2" Hole, Installed Telescopic Bushings for 1-1/4" and 1" Arbors

H4: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

Single Packs

12 x 1-1/2 x 1-1/4 (H²) 2,220 R.P.M.

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
38041	A24-Q-V	1	2
38042	A36-O-V	1	2
38043	A46-M-V	1	2
38044	A60-M-V	1	2
Green Silicon Carbide:			
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
Brown Aluminum Oxide:			
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
Green Silicon Carbide:			
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) 1,910 R.P.M.

UPC#	SIZE	CARTON	UNIT
Brown Aluminum Oxide:			
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
Green Silicon Carbide:			
38534	GC60-I-V	1	3
38535	GC80-I-V	1	3

14 x 3 x 1-1/2 x 1-1/4 (H³) 1,773 R.P.M.

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

16 x 2 x 1-1/2 (H³) 1,550 R.P.M.

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

18 x 3 x 1-1/2 (H³) 1,485 R.P.M.

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



H*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors
 H²: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors
 H³: 1-1/2" Hole, Installed Telescopic Bushings for 1-1/4" and 1" Arbors
 H⁴: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

ECONOMY BENCH WHEELS



Fast Cut Bench & Pedestal Wheels - Type 1

- Economy choice, excellent performance & price!
- Type 1 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 - Semi-friable 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



6 x 1/2 x 1 (H*) 4,456 RPM

UPC #	GRIT	SPEC	CRT QTY	MASTER PACK
Aluminum Oxide				
38300	60	GC60-M-V	1	10
38301	80	GC80-M-V	1	10
38302	100	GC100-M-V	1	10

6 x 3/4 x 1 (H*) 4,456 RPM

UPC #	GRIT	SPEC	CRT QTY	MASTER PACK
Aluminum Oxide				
38303	36	A36-M-V	1	10
38304	40	A46-M-V	1	10
38305	60	A60-M-V	1	10
38306	80	A80-M-V	1	10
Green Silicon Carbide				
38307	60	GC60-M-V	1	10
38308	80	GC80-M-V	1	10
38309	100	GC100-M-V	1	10

6 x 1 x 1 (H*) 4,456 RPM

UPC #	GRIT	SPEC	CRT QTY	MASTER PACK
Aluminum Oxide				
38310	36	A36-M-V	1	10
38311	40	A46-M-V	1	10
38312	60	A60-M-V	1	10
38313	80	A80-M-V	1	10
Green Silicon Carbide				
38314	60	GC60-M-V	1	10
38315	80	GC80-M-V	1	10
38316	100	GC100-M-V	1	10

7 x 1 x 1 (H*) 3,760 RPM

UPC #	GRIT	SPEC	CRT QTY	MASTER PACK
Aluminum Oxide				
38317	36	A36-M-V	1	5
38318	46	A46-M-V	1	5
38319	60	A60-M-V	1	5

Green Silicon Carbide				
38320	60	GC60-M-V	1	5
38321	80	GC80-M-V	1	5
38322	100	GC100-M-V	1	5

8 x 1 x 1-1/4 (H*) 3,600 RPM

UPC #	GRIT	SPEC	CRT QTY	MASTER PACK
Aluminum Oxide				
38323	36	A36-M-V	1	5
38324	46	A46-M-V	1	5
38325	60	A60-M-V	1	5
38326	80	A80-M-V	1	5

Green Silicon Carbide				
38327	60	GC60-M-V	1	5
38328	80	GC80-M-V	1	5
38329	100	GC100-M-V	1	5



Bench Wheel Bushings
see page 167

- H*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors
 H2: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors
 H3: 1-1/2" Hole, Installed Telescopic Bushings for 1-1/4" and 1" Arbors
 H4: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

Porous Bench Grinding Wheels

- Engineered for medium and heavy stock removal and heat sensitive applications
- Strong, innovative bonds for tough applications
- Porous grinding wheels accelerate grinding processes
- Gullet grinding on circular saw blades
- **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.



10 x 1/2 x 1-1/4 **2,483 R.P.M.**

UPC#	GRAIN	SIZE	CARTON	UNIT
37796	32A	60-H12	1	5
59090	RA	60-H12	1	5
58071	PA	60-H12	1	5

Items in gray are being discontinued and then available as a special make item only.

Bench Wheel Bushings

WIDTH	1" HOLE REDUCES TO 3/4", 5/8", 1/2" (4PCS SET)	1-1/4" HOLE REDUCES TO 1"	1-1/2" HOLE REDUCES TO 1-1/4"	UNIT
1/2"	51000	51003	51006	1
3/4"	51001	51004	51007	1
1"	51002	51005	51008	1

Bench Wheel Center Hole Types

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

H^o: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors

H^o: 1-1/2" Hole, Installed Telescopic Bushings for 1-1/4" and 1" Arbors

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

TOOL & CUTTER WHEELS

Tool & Cutter Wheels

The standard shapes most commonly used in tool & cutter grinding are:

- T-6 - Straight Cup Wheel
- T-11 - Flaring Cup
- T-12 - Dish Wheels
- T-50 - Plate Mount Wheels



The shape of the wheel is determined by the shape, size, and accessibility of the part to be ground.









When grinding peripheral cutters, cup wheels are used. Dish wheels are best for formed cutters.

- WA - Used when a good cutting action is needed on all steels.
When a sharp corner or radius must be held, use fine grits combined with J or K hardness.
- GC - Used for non-ferrous metals such as cemented materials.
- PA - Used for high alloy steel applications such as sharpening HSS cutters, reamers and chisels.
- AS3 - Used for fast metal removal; excellent for grinding 50 Rockwell C and harder.

Master Selection Stock Sheet

WA: White Premium Aluminum Oxide
PA: Pink Aluminum Oxide

AS3: Ceramic Aluminum Oxide
GC: Green Silicon Carbide

SIZE	WA 46H	WA 46I	WA 46J	WA 46K	WA 60I	WA 60J	WA 60K	WA 80J	WA 80K	PA 46I	PA 46K	PA 60I	PA 60K	PA 80K	AS3 46I	AS3 60J	AS3 60K	GC 60I	GC 80I	GC 100I	GC 120I	
4 x 2 x 20mm  Deckel Cup T6	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/3 x 1 1/2 x 1 1/4  Flaring Cup T11	-	-	•	•	•	•	•	-	•	-	•	•	•	•	•	-	•	•	•	•	-	-
5/3 3/4 x 1 3/4 x 1 1/4  Flaring Cup T11	•	•	•	•	•	•	•	-	•	•	•	-	•	-	•	•	-	•	-	-	-	-
5 x 1 1/2 x 1 1/4  Straight Cup T6	-	-	•	•	-	•	•	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 2 x 1 1/4  Straight Cup T6	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 1 1/2 x 1 1/4  Dish Wheel T12	-	-	-	•	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 3/4 x 1 1/4  Dish Wheel T12	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 1 x 4  Plate Mount Wheel T50	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•

Tool Room Wheels

Almost all manufacturing plants have a tool room which is involved with the maintenance and repair of cutting tools, and the overall maintenance and repair of the plant itself.

Typical grinding operations done in the tool room are:

1. Surface Grinding
2. Tool & Cutter Grinding
3. Internal Grinding
4. Cutoff

With the exception of cutoff, most wheels are vitrified bond. These wheel come in various shapes and sizes. Operations are generally dry.

Common Troubleshooting Problems in Tool & Cutter Grinding

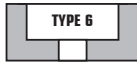
Problem	Things to Check	Suggested Correction
1. Corner breakdown of wheel	How wheel was dressed Wheel too coarse Wheel too soft Worn machine bearings	Slow down dressing cycle Use finer grit wheel Use harder grade wheel Check for run-out
2. Burning of workpiece	Check coolant flow Wheel too hard Work speed too slow Infeed too fast	Increase or direct coolant to point of contact Dress wheel faster or use softer wheel Increase work speed Reduce amount of stock removed per pass
3. Poor surface finish	Wheel too soft Wheel too coarse Machine vibration Dirty coolant	Slow down dressing cycle or use harder grade wheel Dress wheel finer or use finer grit wheel Check worn bearings Filter coolant more thoroughly
4. Wheel loading or glazing	Wheel too hard Wheel too fine Dirty coolant Poor wheel dressing	Test softer grade wheel Test coarser grit wheel Check coolant filter Dress more often and aggressively

Starting Recommendations Alloys & High Speed Steel

Operation	Wheel Type	Recommendation
Broaches		
Sharpening	12	WA80K
Backing Off	6	WA60K
Reamers		
Cylindrical	1	WA60K
Backing Off	1 & 6	WA60J
Taps		
Sharpening	1	AZ60K
Squaring End		AZ60K
Touch Up Flute		AZ60J
Boring Tools	6	AZ60J
Drills – Sharpening		
Offhand – Under 1/4"	1	WA80J
Offhand – 1/4"-1"	1	WA60K
Offhand – Over 1"	1	WA46K
Drills – Machine Sharpening		
Under 1/4" Diameter	6	WA80J
1/4"-1" Diameter	6	WA60K
Over 1" Diameter	6	WA46K
Pointing	1	WA80K
Hobs		
Tool & Cutter	12	WA60J
Milling Cutters		
Face & Side Mill	1	AZ46K
End Mills	11	AZ60J
Formed Cutters	12	AZ60J
Shell End Mills (L)	6	AZ46J
Shell End Mills (S)	1	AZ60J
Side Mills (S)	1 & 6	AZ60J
Carbide Grinding		
Straight Wheels	1	GC80I
Cup Wheels	6 & 11	GC80I

TOOL & CUTTER WHEELS

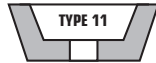
4 x 2 x 20mm



6685 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34900	WA80-J-V	10	20

4/3 x 1-1/2 x 1-1/4



6685 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34903	WA46-J-V	10	20
34904	WA46-K-V	10	20
34906	WA60-I-V	10	20
34907	WA60-J-V	10	20
34908	WA60-K-V	10	20
34909	WA80-K-V	10	20

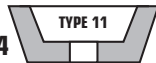
PINK ALUMINUM OXIDE:

58054	PA46-K-V	10	20
58055	PA60-I-V	10	20
58056	PA60-K-V	10	20
58057	PA80-K-V	10	20

CERAMIC ALUMINUM OXIDE:

34200	AS3-46-I-VCER	10	20
34201	AS3-60-K-VCER	10	20

5/3-3/4 x 1-3/4 x 1-1/4



5348 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34914	WA46-H-V	10	20
34915	WA46-I-V	10	20
34916	WA46-J-V	10	20
34917	WA46-K-V	10	20
34919	WA60-I-V	10	20
34920	WA60-J-V	10	20
34921	WA60-K-V	10	20
34923	WA80-K-V	10	20

PINK ALUMINUM OXIDE:

58058	PA46-I-V	10	20
58059	PA46-K-V	10	20
58060	PA60-K-V	10	20

CERAMIC ALUMINUM OXIDE:

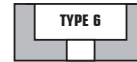
34203	AS3-46-I-VCER	10	20
34204	AS3-60-J-VCER	10	20

GREEN SILICON CARBIDE:

34924	GC60-I-V	10	20
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WA: White Premium Aluminum Oxide
GC: Green Silicon Carbide

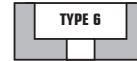
5 x 1-1/2 x 1-1/4



5348 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34929	WA46-J-V	10	20
34930	WA46-K-V	10	20
34933	WA60-J-V	10	20
34934	WA60-K-V	10	20
34936	WA80-K-V	10	20

6 x 2 x 1-1/4



4456 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34941	WA60-K-V	10	20

6 x 1/2 x 1-1/4



4456 RPM

UPC#	SPEC.	CARTON	UNIT
34942	WA46-K-V	10	20
34943	WA60-J-V	10	20
34944	WA60-K-V	10	20

6 x 3/4 x 1-1/4



4456 RPM

UPC#	SPEC.	CARTON	UNIT
34947	WA60-K-V	10	20

6 x 1 x 4



3450 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34948	WA46-K-V	10	20
GREEN SILICON CARBIDE:			
34949	GC60-I-V	10	20
34950	GC80-I-V	10	20
34951	GC100-I-V	10	20
34952	GC120-I-V	10	20

Items in gray are being discontinued and then available as a special make item only.

PA: Pink Aluminum Oxide
AS3: Ceramic Aluminum Oxide Grain

MATTISON-THOMPSON WHEELS

Mattison-Thompson Type

18"-20" Diameter Surface Grinding Wheels

Master Selection Stock Sheet

- 91AB** – Semi-Friable Mixed Premium Aluminum Oxide
- 83A** – White Aluminum Oxide
- 72C** – Black Silicon Carbide
- PA** – Pink Aluminum Oxide
- AZ** – Premium Blue Aluminum Oxide
- AS3** – Advanced Ceramic Grain



For horizontal spindle, rotary and reciprocating tables use wheels T-1, T-5, and T-7.

- **91AB** – Advanced grain technology used in combination with WA for general and various materials. This grain can be used to grind steels in either soft or hard state.
- **83A** – The high friability of this grain allows for fast, cool cutting of all steels. Induced porosity wheels are ideal for steels Rockwell C 55 and over.
- **PA** – Excellent for grinding pre-hardened carbon steels.
- **AZ** – Recommended for hard steels and stainless steels.
- **72C** – Use for grinding non-ferrous materials, plastics, cast and gray iron.
- **AS3** – Ceramic Aluminum Oxide – Recommended for tool steels, sprayed metal coatings and high-temp alloys.

18 x 2 x 8 TYPE 7 **1460 RPM**
R/2/S – 11-1/2 x 1/2

UPC#	SPEC.	CARTON	UNIT
34003	91AB46-I8-VN18	–	2
34004	83A46-H-V18	–	2

20 x 1-1/2 x 8 TYPE 5 **1241 RPM**
R/1/S – 11-1/2 x 1/2

UPC#	SPEC.	CARTON	UNIT
34014	83A46-H8-VD18	–	2
34015	83A60-J8-VD18	–	2

20 x 1 x 8 TYPE 1 **1241 RPM**

UPC#	SPEC.	CARTON	UNIT
34006	83A46-H8-VD18	–	3
34007	83A60-J8-VD18	–	3

20 x 1-1/2 x 10 TYPE 1 **1241 RPM**

UPC#	SPEC.	CARTON	UNIT
34018	83A46-H8-V18	–	2

20 x 1 x 10 TYPE 1 **1241 RPM**

UPC#	SPEC.	CARTON	UNIT
34009	83A36-J8-V18	–	3

20 x 2 x 8 TYPE 7 **1241 RPM**
R/2/S – 11-1/2 x 1/2

UPC#	SPEC.	CARTON	UNIT
34021	91AB46-I8-VN18	–	2
34022	83A46-H8-VD18	–	2
34023	83A60-J8-VD18	–	2
34026	72C46-I8-V18	–	2

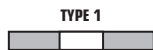
91AB: Semi-Friable Mixed Premium Aluminum Oxide
 83A: White Aluminum Oxide
 72C: Black Silicon Carbide
 PA: Pink Aluminum Oxide
 AZ: Premium Blue Aluminum Oxide
 AS3: Advanced Ceramic Grain

OPEN STRUCTURE:

34024	83A36-J/K-VD18P	–	2
34025	83A46-G+-VD18P	–	2

MATTISON-THOMPSON WHEELS

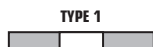
20 x 2 x 10



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34027	83A36-J8-VD18	-	2
34028	83A46-H8-VD18	-	2
34029	83A60-J8-VD18	-	2
OPEN STRUCTURE:			
34030	83A46-G+-VD18P	-	2

20 x 3 x 8

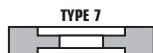


1241 RPM

UPC#	SPEC.	CARTON	UNIT
37817	WAG-80H8-VD	-	2
37818	PASP-6K8-VD	-	2

20 x 3 x 8

R/2/S - 11-1/2 x 1/2

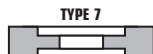


1241 RPM

UPC#	SPEC.	CARTON	UNIT
34032	91AB46-I8-VN18	-	2
34033	83A46-H8-VD18	-	2
34048	83A60-J8-VD18	-	2
34034	AZ46-I8-VN32A	-	2
OPEN STRUCTURE:			
34035	83A36-J/K-VD18P	-	2
34036	83A46-D-VD18P	-	2
34037	83A46-G+-VD18P	-	2
SILICON CARBIDE:			
34038	72C46-I8-VX	-	2

20 x 3 x 10

R/2/S - 12-1/2 x 5/8
O/S - 12-1/2 x 3/4

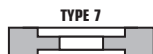


1241 RPM

UPC#	SPEC.	CARTON	UNIT
34039	91AB46-I8-VN18	-	2
34040	83A46-H8-VD18	-	2
34041	83A60-J8-VD18	-	2
34043	AZ46-I8-VN32A	-	2
OPEN STRUCTURE:			
34044	83A36-J/K-VD18P	-	2
34045	83A46-D-VD18P	-	2
34046	83A46-G+-VD18P	-	2
34047	PA36/46-I/J-VN18P	-	2
34245	AS3-46H-VCERN	-	2
SILICON CARBIDE:			
34049	72C46-I8-VX	-	2

20 x 4 x 8

R/2/S - 11-1/2 x 1/2

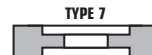


1241 RPM

UPC#	SPEC.	CARTON	UNIT
34051	83A46-H8-VD18	-	1
OPEN STRUCTURE:			
34052	83A36-J/K-VD18P	-	1
34053	83A46-G+-VD18P	-	1

20 x 4 x 10

R/2/S - 12-1/2 x 7/8
O/S - 12-1/2 x 1

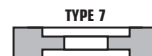


1241 RPM

UPC#	SPEC.	CARTON	UNIT
34055	91AB46-I8-VN18	-	1
34057	83A46-H8-VD18	-	1
OPEN STRUCTURE:			
34059	83A46-D-VD18P	-	1
34060	83A46-G+-VD18P	-	1
34061	83A36-J/K-VD18P	-	1

20 x 6 x 10

R/2/S - 12-1/2 x 1
O/S - 12-1/2 x 2

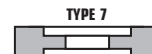


1241 RPM

UPC#	SPEC.	CARTON	UNIT
34063	91AB46-I8-VN18	-	1
34064	83A46-H8-VD18	-	1
34067	AS3-46H-VCERN	-	1
OPEN STRUCTURE:			
34069	83A36-J/K-VD18P	-	1
34070	83A46-B-VN18P	-	1
34071	83A46-D-VD18P	-	1
34072	83A46-G+-VD18P	-	1
34073	83A54-F-VD18P	-	1
34074	AZ46-C12-VN32AP	-	1
34075	PA36/46-I/J-VN18P	-	1
SILICON CARBIDE:			
34076	72C46-I8-VX	-	1

20 x 6 x 12

R/2/S - 14-1/4 x 1

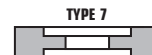


1241 RPM

UPC#	SPEC.	CARTON	UNIT
34077	91AB46-I8-VN18	-	1
34078	83A46-H8-VD18	-	1
OPEN STRUCTURE:			
34079	83A36-J/K-VD18P	-	1
34080	83A46-G+-VD18P	-	1
34081	83A54-F-VD18P	-	1

20 x 8 x 12

R/2/S - 14-1/4 x 1



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34084	83A46-H8-VD18	-	1

Items in gray are being discontinued and then available as a special make item only.

91AB: Semi-Friable Mixed Premium Aluminum Oxide

83A: White Aluminum Oxide

72C: Black Silicon Carbide

PA: Pink Aluminum Oxide

AZ: Premium Blue Aluminum Oxide

AS3: Advanced Ceramic Grain

SEGMENTS / PRECISION TOOL ROOM CUT-OFF

Segments

Cortland, Norton, and Blanchard Shapes

For horizontal spindle, rotary and reciprocating tables use wheels T-1, T-5, and T-7.

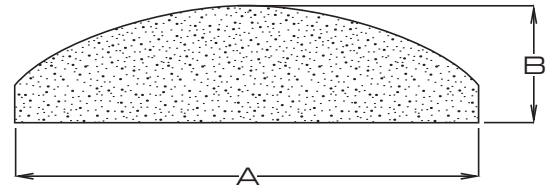
- 29A/DA - Semi-friable mixed premium aluminum oxide - general purpose work.
- 83A/WA - Friable white aluminum oxide - fast stock removal.
- AZP - Premium blue aluminum oxide with bond designed for HSS for cool cutting.

SEGMENTS

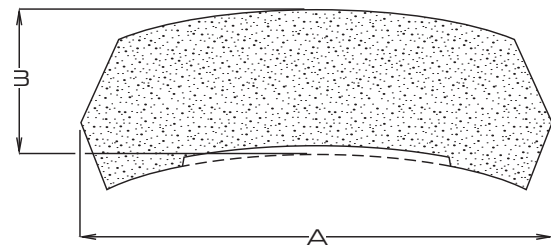
UPC#	SPEC.	CARTON	UNIT
11-1/4 x 2-1/4 x 6 – Cortland Shape			
34094	CD22-6 83A30-E12-V	5	10
34096	CD22-6 83A30-G12-V	5	10
7-1/4 x 1-7/8 x 7 – Cortland Shape			
34101	CD30 83A30-D12-V2	10	20
34103	CD30 83A30-G12-V2	10	20
5 x 1-1/2 x 6 – NORTON Shape			
34107	NO22 AZP30-F12-VPB	10	20
34108	NO22 AZP30-H12-VPB	10	20
7-1/16 x 1-3/4 x 6 – Blanchard Shape			
34113	BL18 83A30-J12-V	6	12

Items in gray are being discontinued and then available as a special make item only.

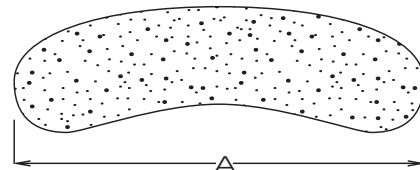
Cortland Segment Shape CD



Norton Segment Shape NO



Blanchard Shape Segments

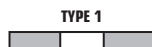


Precision Tool Room Cut-Off Wheels (Non-Reinforced)

Wheels rated 63 m/s

- Used on stationary grinders (Bench or Surface Grinders).
- These wheels must only be used where the work is held tightly and the wheel operates on a controlled cutting surface with no movement.
- Applications that require twisting or lateral stresses must use a reinforced wheel.

7" Cut-Off Wheels



6700 RPM

UPC#	SIZE	SPEC.	CARTON	UNIT
35529	7 x 1/32 x 1-1/4	A60-M8-B2	25	50
35530	7 x 1/16 x 1/2	A60-M8-B2	25	50
35539	7 x 1/8 x 1-1/4	A60-M8-B2	25	50



While Supplies Last

CENTERLESS, CYLINDRICAL

Centerless, Cylindrical & Feed Regulating Wheels

Each Cylindrical, Centerless CGW wheel is manufactured with varying hardness to assure consistent grindability throughout. This feature compensates for the diameter and speed changes as the wheel is used.



- **94AB** – Advanced grain technology used in Cylindrical and Centerless grinding wheels. This grain can be used to grind steels in either soft or hard state.
- **WAG** – Highly friable grain with special bond characteristics for fast, cool cutting action and extended life over traditional aluminum oxide wheels.
- **PASP** – Special pink formulation for precision grind applications. Tough, but very friable. Produced with new high performance VD ceramic bond for cooler cutting and longer life.
- **GC** – Green Silicon Carbide – Quickly grinds non-ferrous metals and sharpens tungsten carbide tools. Used on titanium and cemented carbide.
- **72C** – Black Silicon Carbide – for non-ferrous metals.

All CGW Feed Regulating wheels are manufactured with an isostatic process assuring perfect gripping and elimination of hard spots and voids, a common problem with rubberized wheels.

- A80-R2-RX – Natural Rubber
- A80-R2-CDR – Calendered Rubber

Different Types of Grinding

Cylindrical Grinding – The precision grinding of the outer surface of any round workpiece. The workpiece is held between centers or in chucks.

Traverse Grinding – The grinding operation where the work traverses past the wheel.

Plunge Grinding – Uses a stationary work table and the wheel "plunges" into the workpiece.



& FEED REGULATING WHEELS

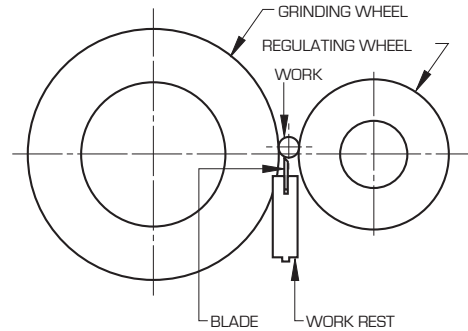
Centerless Grinding

The workpiece lies between two wheels; the grinding wheel and the feed regulating wheel. Feed wheel diameter is always proportionally smaller than the grinding wheel it is matched with (see chart below);

Grinding Wheel Diameter	Feed Wheel Diameter
14"	8"
16"	9"
20"	12"
24"	14"

Width of grinding wheel and feed wheel must be the same.

Grinding Wheel	Feed Wheel
20 x 6 x 12	12 x 6 x 5



Three Basic Types of Centerless Grinding

Grinding wheels for centerless grinding range in size from 12" to 24" in diameter, and up to 34" in thickness. They are made with the same vitrified bonds as those used in cylindrical wheels.

Through Feed – Most commonly used centerless grinding where straight cylindrical parts are passed from the entrance on the machine, through, and out the exit side.

In-Feed (Plunge) – Used on part with a shape that does not allow axial movement. Frequently, several diameters are ground at once by using a specially formed wheel face, or by mounting two or more wheels on the same spindle.

End-Feed – For producing or finishing a taper in the workpiece. The parts are fed in the entrance side of the machine up to a fixed end point.

Benefits of Cast Natural Rubber Feed Wheels

This wheel gives the best drive or braking action while resisting spin out of parts. This grade is satisfactory for the majority of applications. For harder grades, see Calendered Wheels.

Benefits of Calendered Rubber Feed Wheels

Calendered wheels are best used on thinner feed regulating wheels or when the cast natural rubber wheel deflects under pressure. The calendered wheel is preferred when close tolerances are required or there is excessive wheel wear on the standard feed wheel.

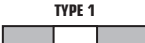
Typical Centerless Grinding Machines

	Cincinnati Model 2	Cincinnati Model 3	Cincinnati Model 3-20 Twingrip	Landis Model 12R	Royal Master Model TG12	Van Norman Model 1C	Van Norman Model 2C
GRINDING WHEEL							
Shape	T-1	T-1	T-1	T-1	T-1	T-7	T-7
Diameter	20	24	24	20	12	14	24
Width Range	3-8	4-12	–	4-8	–	≤4	4-8
Standard Width	6	8	20	6	3	4	4
Hole Size	12	12	12	12	5	8	12
REGULATING WHEEL							
Shape	T-7	T-7	T-7 / T-7	T-7	T-1	T-7	T-7
Diameter	12	14	14 / 14	12	6	8	12
Width Range	3-8	4-12	– / –	4-8	–	≤4	4-8
Standard Width	6	8	20 / 20	6	3	4	6
Hole Size	5	5	5 / 6	5	1	3	5

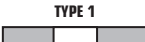
CENTERLESS, CYLINDRICAL

12 x 4 x 5  **2228 RPM**

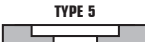
UPC#	SPEC.	CARTON	UNIT
35200	94AB60-L-V18	-	1

14 x 1 x 5  **1910 RPM**

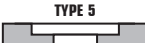
UPC#	SPEC.	CARTON	UNIT
35201	94AB54-K-V18	2	6
35202	94AB60-L-V18	2	6
35203	94AB80-M-V18	2	6

14 x 1-1/4 x 5  **1910 RPM**

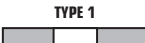
UPC#	SPEC.	CARTON	UNIT
35204	94AB54-K-V18	2	4
35205	94AB60-L-V18	2	4

14 x 1-1/2 x 5  **1910 RPM**
R/1 - 8 x 1/2

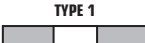
UPC#	SPEC.	CARTON	UNIT
35207	94AB54-K-V18	2	4
35208	94AB60-L-V18	2	4
35209	94AB80-M-V18	2	4

14 x 2 x 5  **1910 RPM**
R/1 - 8 x 1

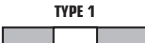
UPC#	SPEC.	CARTON	UNIT
35210	94AB54-K-V18	1	3
35211	94AB60-L-V18	1	3
35212	94AB80-M-V18	1	3

14 x 2 x 5  **1910 RPM**

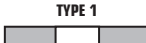
UPC#	SPEC.	CARTON	UNIT
37801	GC-80K7-V	1	2

16 x 1 x 5  **1671 RPM**

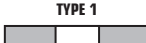
UPC#	SPEC.	CARTON	UNIT
37802	PASP-60K8-VD	1	2
37803	GC-80K7-V	1	2
35213	94AB60-L-V18	1	2
35214	94AB80-M-V18	1	2

16 x 1 x 8  **1671 RPM**

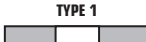
UPC#	SPEC.	CARTON	UNIT
37804	PASP-60K8-VD	1	2
35215	94AB54-K-V18	1	2
35216	94AB60-L-V18	1	2
35217	94AB80-M-V18	1	2

16 x 1-1/2 x 5  **1671 RPM**

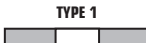
UPC#	SPEC.	CARTON	UNIT
37805	PASP-60K8-VD	1	2
37806	GC-80K7-V	1	2
35218	94AB60-L-V18	1	2
35219	94AB80-M-V18	1	2

16 x 1-1/2 x 8  **1671 RPM**

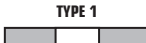
UPC#	SPEC.	CARTON	UNIT
37807	PASP-60K8-VD	1	2
35221	94AB54-K-V18	1	2
35222	94AB60-L-V18	1	2
35223	94AB80-M-V18	1	2

16 x 2 x 5  **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37808	WAG-80H8-VD	1	2
37809	PASP-60K8-VD	1	2
37810	GC-80K7-V	1	2
35224	94AB60-L5-V18	1	2
35225	94AB80-M6-V18	1	2
34495	AZ46-I8-V32A	1	2
34496	AZ46-J8-V32A	1	2
34497	AZ60-K8-V32A	1	2

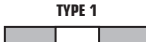
16 x 2 x 8  **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
35229	94AB54-K5-V18	1	2
35230	94AB60-L5-V18	1	2
35231	94AB80-M6-V18	1	2

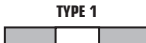
16 x 2-1/2 x 5  **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37811*	WAG-80H8-VD	1	2
37812*	PASP-60K8-VD	1	2

* While supplies last

16 x 3 x 5  **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37813	WAG-80H8-VD	1	2
37814	PASP-60K8-VD	1	2

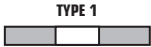
16 x 4 x 10  **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
35232	94AB60-L-V18	-	1
35233	94AB80-L-V18	-	1

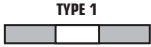
94AB: Semi-Friable Aluminum Oxide
72C: Black Silicon Carbide
GC: Green Silicon Carbide
PASP: Pink Aluminum Oxide

WAG: Engineered Aluminum Oxide
A80-R2-RX: Natural Rubber
A80-R2-CDR: Calendered Rubber

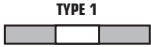
& FEED REGULATING WHEELS

20 x 1 x 8  **1623 RPM**

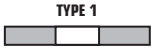
UPC#	SPEC.	CARTON	UNIT
37815	GC-80K7-V	-	1

20 x 2 x 8  **1623 RPM**

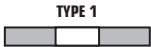
UPC#	SPEC.	CARTON	UNIT
37816	PASP-60K8-VD	-	1

20 x 3 x 8  **1623 RPM**

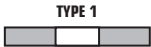
UPC#	SPEC.	CARTON	UNIT
37817	WAG-80H8-VD	-	1
37818	PASP-60K8-VD	-	1

20 x 1 x 12  **1623 RPM**

UPC#	SPEC.	CARTON	UNIT
37819	GC-80K7-V	-	3
35234	94AB60-K-V18	-	3
35236	94AB60-M-V18	-	3
35237	94AB80-O-V18	-	3
35238	94AB80-P-V18	-	3

12 x 1 x 5  **800 RPM**
Matching Feed Regulating Wheel


35239	A80-R2-RX	-	1
35240	A80-R2-CDR	-	1

20 x 2 x 12  **1623 RPM**

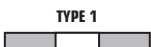
UPC#	SPEC.	CARTON	UNIT
37820	PASP-60K8-VD	-	2
37821	GC-80K7-V	-	2
35241	94AB60-K-V18	-	2
35242	94AB60-L-V18	-	2
35243	94AB60-M-V18	-	2
35244	94AB80-M-V18	-	2
35245	94AB80-O-V18	-	2
35246	94AB80-P-V18	-	2

HARD SIDE 3/16:

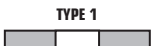
35247	94AB80N/120S-V18	-	2
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12 x 2 x 5  **800 RPM**
Matching Feed Regulating Wheel

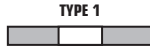
35248	A80-R2-RX	-	1
35249	A80-R2-CDR	-	1

20 x 2-1/2 x 12  **1623 RPM**

UPC#	SPEC.	CARTON	UNIT
HARD SIDE 3/16:			
35251	94AB80N/120S-V18	-	2

12 x 2-1/2 x 5  **800 RPM**
Matching Feed Regulating Wheel

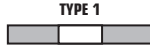
35384	A80-R2-RX	-	1
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20 x 3 x 12  **1623 RPM**

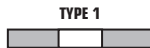
UPC#	SPEC.	CARTON	UNIT
37822	WAG-80H8-VD	-	2
35254	94AB60-K-V18	-	2
35255	94AB60-L-V18	-	2

HARD SIDE 3/16:

35260	94A80N/120S-V18	-	2
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12 x 3 x 5  **800 RPM**
Matching Feed Regulating Wheel

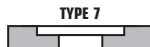
35261	A80-R2-RX	-	1
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20 x 4 x 12  **1623 RPM**

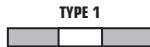
UPC#	SPEC.	CARTON	UNIT
37823	WAG-80H8-VD	-	1
35266	94AB60-K-V18	-	1
35267	94AB60-L-V18	-	1
35270	94AB80-M-V18	-	1
35272	94AB80-P-V18	-	1

HARD SIDE 3/16:

35273	94A80N/120S-V18	-	1
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12 x 4 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

35274	A80-R2-RX	-	1
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20 x 6 x 12  **1623 RPM**

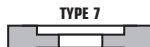
UPC#	SPEC.	CARTON	UNIT
35277	94AB60-J-V18	-	1
35278	94AB60-K-V18	-	1
35279	94AB60-L-V18	-	1
35280	94AB60-M-V18	-	1
35281	94AB80-J-V18	-	1
35282	94AB80-L-V18	-	1
35283	94AB80-M-V18	-	1
35284	94AB80-O-V18	-	1
35285	94A80-P-V18	-	1

HARD SIDE 3/16:

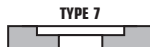
35286	94AB80N/120S-V18	-	1
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SILICON CARBIDE:

35287	72C60-L-VX	-	1
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12 x 6 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

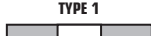
35288	A80-R2-RX	-	1
35289	A80-R2-CDR	-	1

12 x 6 x 5  **800 RPM**
R/2 - 7-1/2 x 1/2, O/S - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

35290	A80-R2-RX	-	1
35291	A80-R2-CDR	-	1

Items in gray are being discontinued and then available as a special make item only.

CENTERLESS, CYLINDRICAL

20 x 8 x 12  **1623 RPM**

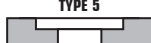
UPC#	SPEC.	CARTON	UNIT
35292	94AB54-J-V18	-	1
35293	94AB60-K-V18	-	1
35294	94AB60-L-V18	-	1
35295	94AB60-M-V18	-	1
35296	94AB80-J-V18	-	1
35297	94AB80-L-V18	-	1
35298	94AB80-M-V18	-	1
35299	94AB80-O-V18	-	1

HARD SIDE 3/16:

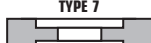
35300	94AB80N/120S-V18	-	1
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SILICON CARBIDE:

35301	72C60-L-VX	-	1
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12 x 8 x 5  **800 RPM**
R/1 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

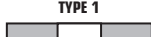
35302	A80-R2-RX	-	1
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12 x 8 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

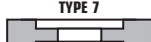
35390	A80-R2-RX	-	1
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12 x 8 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2, O/S - 7-1/2 x 2-1/2 Matching Feed Regulating Wheel

35303	A80-R2-RX	-	1
35304	A80-R2-CDR	-	1

20 x 10 x 12  **1623 RPM**

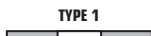
UPC#	SPEC.	CARTON	UNIT
35306	94AB60-L-V18	-	1

12 x 10 x 5  **800 RPM**
R/2 - 8 x 1-1/2, O/S - 8 x 2 Matching Feed Regulating Wheel

35308	A80-R2-RX	-	1
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24 x 1 x 8  **1353 RPM**

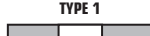
UPC#	SPEC.	CARTON	UNIT
37824	PASP-60K8-VD	-	2
37825	GC-80K7-V	-	2

24 x 1 x 12  **1353 RPM**

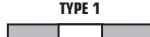
UPC#	SPEC.	CARTON	UNIT
37829	PASP-60K8-VD	-	2
37830	GC-80K7-V	-	2

24 x 1-1/2 x 12  **1623 RPM**


UPC#	SPEC.	CARTON	UNIT
35309	94AB60-K6	-	2

24 x 2 x 8  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
37826	PASP-60K8-VD	-	2
37827	GC-80K7-V	-	2

24 x 3 x 8  **1353 RPM**

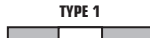
UPC#	SPEC.	CARTON	UNIT
37828	WAG-80H8-VD	-	2

24 x 2 x 12  **1353 RPM**

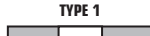
UPC#	SPEC.	CARTON	UNIT
37831	PASP-60K8-VD	-	2
37832	GC-80K7-V	-	2
35314	94AB60-K-V18	-	2
35315	94AB60-L-V18	-	2
35316	94AB60-M-V18	-	2
35318	94AB80-O-V18	-	2

HARD SIDE 3/16:

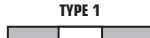
35319	94AB80N/120S-V18	-	2
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24 x 2-1/2 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
SEMI-FRIABLE ALUMINUM OXIDE - HARD SIDE 3/16:			
35321	94AB80N/120S-V18	-	2

24 x 3 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
37833	WAG-80H8-VD	-	2

24 x 3 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35324	94AB60-K-V18	-	1

HARD SIDE 3/16:

35327	94AB80N/120S-V18	-	1
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24 x 3 x 12  **1353 RPM**
R/1 - 14-1/2 x 1

UPC#	SPEC.	CARTON	UNIT
35329	94AB60-K-V18	-	1

24 x 4 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35333	94AB60-K-V18	-	1
35334	94AB60-L-V18	-	1
35337	94AB80-M-V18	-	1

HARD SIDE 3/16:

35339	94AB80N/120S-V18	-	1
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94AB: Semi-Friable Aluminum Oxide
72C: Black Silicon Carbide
GC: Green Silicon Carbide
PASP: Pink Aluminum Oxide

WAG: Engineered Aluminum Oxide
A80-R2-RX: Natural Rubber
A80-R2-CDR: Calendered Rubber

& FEED REGULATING WHEELS

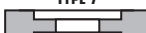
CENTERLESS, CYLINDRICAL & FEED REGULATING WHEELS

24 x 6 x 12  **1353 RPM**

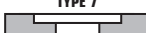
UPC#	SPEC.	CARTON	UNIT
35342	94AB60-K-V18	-	1
35343	94AB60-L-V18	-	1
35345	94AB80-J-V18	-	1
35347	94AB80-M-V18	-	1
HARD SIDE 3/16:			
35349	94AB80N/120S-V18	-	1

24 x 8 x 12  **1353 RPM**


UPC#	SPEC.	CARTON	UNIT
35352	94AB60-K5-V18	-	1
35353	94AB60-L5-V18	-	1
35354	94AB60-M6-V18	-	1
35355	94AB80-J5-V18	-	1
35356	94AB80-L5-V18	-	1
SILICON CARBIDE:			
35360	72C60-L6-VX	-	1

14 x 8 x 5  **650 RPM**
R/2 - 8 x 1-1/2, O/S - 8 x 2 Matching Feed Regulating Wheel

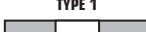
35361	A80-R2-RX	-	1
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14 x 8 x 5  **650 RPM**
R/2 - 8 x 1-1/2, O/S - 8 x 2-1/2 Matching Feed Regulating Wheel


35362	A80-R2-RX	-	1
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24 x 10 x 12  **1353 RPM**

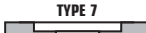
UPC#	SPEC.	CARTON	UNIT
35363	94AB60-K5-V18	-	1
35364	94AB60-L5-V18	-	1
35365	94AB60-M6-V18	-	1

24 x 20 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35368	94AB60-K5-V18	-	1
35370	94AB60-M6-V18	-	1

14 x 20 x 5  **650 RPM**
R/2 - 8 x 1-1/2 Matching Feed Regulating Wheel

35371	A80-R2-RX	-	1
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14 x 20 x 6  **650 RPM**
R/2 - 8-1/2 x 1-1/2 Matching Feed Regulating Wheel

35372	A80-R2-RX	-	1
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Items in gray are being discontinued and then available as a special make item only.

94AB: Semi-Friable Aluminum Oxide
72C: Black Silicon Carbide
6C: Green Silicon Carbide
PASP: Pink Aluminum Oxide

WAG: Engineered Aluminum Oxide
A80-R2-RX: Natural Rubber
A80-R2-CDR: Calendered Rubber

FEED REGULATING WHEELS

FEED REGULATING WHEEL MASTER

Natural Rubber

UPC#	SIZE	SHAPE	RPM	SPEC.	CARTON	UNIT
35373	8 x 2 x 3	T1	1000	A80-R2-RX	-	2
35374	8 x 4 x 3 R/1 - 4-1/4 x 1/2 O/S - 4-1/2 x 1-1/2	T5	1000	A80-R2-RX	-	1
35375	9 x 2 x 4	T1	970	A80-R2-RX	-	1
35376	9 x 4 x 4 R/2 - 5-1/4 x 5/8	T7	970	A80-R2-RX	-	1
35377	10 x 6 x 5-1/2 R/2 - 6-1/2 x 1/2	T7	920	A80-R2-RX	-	1
35239	12 x 1 x 5	T1	800	A80-R2-RX	-	1
35248	12 x 2 x 5	T1	800	A80-R2-RX	-	1
35384	12 x 2-1/2 x 5	T1	800	A80-R2-RX	-	1
35261	12 x 3 x 5	T1	800	A80-R2-RX	-	1
35274	12 x 4 x 5 R/2 - 7-1/2 x 1/2	T7	800	A80-R2-RX	-	1
35290	12 x 6 x 5 R/2 - 7-1/2 x 1/2 O/S - 7-1/2 x 1-1/2	T7	800	A80-R2-RX	-	1
35288	12 x 6 x 5 R/2 - 7-1/2 x 1-1/2	T7	800	A80-R2-RX	-	1
35302	12 x 8 x 5 R/1 - 7-1/2 x 1-1/2	T5	800	A80-R2-RX	-	1
35390	12 x 8 x 5 R/2 - 7-1/2 x 1-1/2	T7	800	A80-R2-RX	-	1
35303	12 x 8 x 5 R/2 - 7-1/2 x 1-1/2 O/S - 7-1/2 x 2-1/2	T7	800	A80-R2-RX	-	1
35308	12 x 10 x 5 R/2 - 8 x 1-1/2 O/S - 8 x 2	T7	800	A80-R2-RX	-	1
35361	14 x 8 x 5 R/2 - 8 x 1-1/2 O/S - 8 x 2	T7	650	A80-R2-RX	-	1
35362	14 x 8 x 5 R/2 - 8 x 1-1/2 O/S - 8 x 2-1/2	T7	650	A80-R2-RX	-	1
35371	14 x 20 x 5 R/2 - 8 x 1-1/2	T7	650	A80-R2-RX	-	1
35372	14 x 20 x 6 R/2 - 8 1/2 x 1-1/2	T7	650	A80-R2-RX	-	1

FEED REGULATING WHEEL MASTER

Calendered Rubber

UPC#	SIZE	SHAPE	RPM	SPEC.	CARTON	UNIT
35240	12 x 1 x 5	T1	800	A80-R2-CDR	-	1
35249	12 x 2 x 5	T1	800	A80-R2-CDR	-	1
35291	12 x 6 x 5 R/2 - 7-1/2 x 1/2 O/S - 7-1/2 x 1-1/2	T7	800	A80-R2-CDR	-	1
35289	12 x 6 x 5 R/2 - 7-1/2 x 1-1/2	T7	800	A80-R2-CDR	-	1
35304	12 x 8 x 5 R/2 - 7-1/2 x 1-1/2 O/S - 7-1/2 x 2-1/2	T7	800	A80-R2-CDR	-	1

RX: Natural Rubber
CDR: Calendered Rubber

R/2: Recess Two Sides - Type 7 Wheel
R/1: Recess One Side - Type 5 Wheel
O/S: Other Side of Wheel

Items in gray are being discontinued and then available as a special make item only.

MERCHANDISERS

POINT-OF-PURCHASE DISPLAY

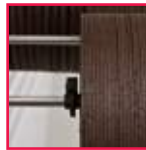
FLEXIBLE • MIX & MATCH TO YOUR NEEDS

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

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.



Pegboard display NOT included.

Carbide Bur Kit

- 8-Piece kit has the most popular double cut carbide burs for faster cutting action, minimal loading and improved operator control
- 8-Piece kit includes:
SA-5D (#62328), SC-5D (#62386), SD-5D (#62410), SE-5D (#62477), SG-5D (#62468), SH-5D (#62480), SL-5D (#62511), SM-5D (#62526)

CARBIDE BUR KIT	UPC #
8 piece set	62700



GEAR GRINDING WHEELS

Gear Grinding Wheels

CGW specializes in customized solutions for the Gear-Grinding industry. With a broad perspective on the constant technical progress in the industry, CGW has developed a wide range of grinding wheels to address the complex demands in the field of Gear Grinding.

- ★ **CGW Gear Grinding wheels are available in aluminum oxide or ceramic grain.**
- ★ **In open or closed structure, straight or pre-profiled.**
 - Diameters: up to 450 mm; 500, 610, 635 mm available by special order
 - Thickness: all thicknesses required for Gear Grinding
- ★ **All the standard bore sizes: 76.2, 100, 127, 152.4, 160, 203.2, 254, 304.8 mm.**



Three Types of Wheels for Gear Grinding:

Worm Grinding Wheels

- New Bond Technology
- High performance standards
- New and Improved profile withholding
- Friable, cool cutting, open structure, form holding
- Higher precision, reduced dressing cycles, reduced wheel consumption



AVAILABLE SIZES	SPECS	PART NUMBER REFERENCE
Worm Wheel		
240 x 125 x 110	Pa/Wa 803 E11V	PA/Wa 803 E11V
240 x 230 x 110		92-E7L2-061723BL
240 x 125 x 100		92-E7L2-954155
275 x 160 x 160		
280 x 160 x 115	RA 80/3 H11V	92-E7L2-954155
300 x 145 x 160		
350 x 84 x 160	RA 100/3 H11V	92-E7L2-021567
350 x 104 x 160		92-E7L2-027064
300 x 145 x 160	AS3 609 G11VD	92-E7L2-039623

Single Rib Grinding Wheels

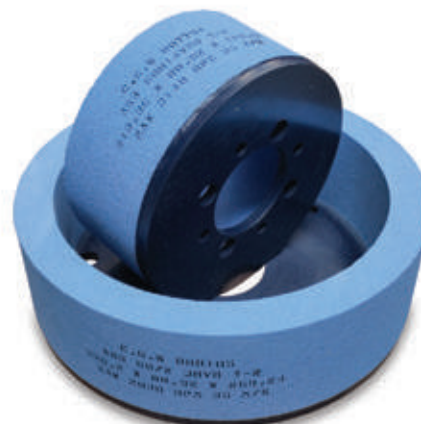
- Cool cutting action
- Lower power grinding
- Reduced cycle times
- Improved surface quality



AVAILABLE SIZES	SPECS
Single Rib T-4	
300 X 20 X 50.8	WAB 60/2 F15V
300 X 30 X 50.8	
300 X 30 X 127	AS2B 60/2 G14V
300 X 60 X 50.8	
350 X 50 X 127	AS3 709 G14V
355 X 50 X 127	
400 X 20 X 127	
400 X 32 X 127	
400 X 40 X 127	
400 X 50 X 127	
400 X 55 X 127	
400 X 55 X 127	
400 X 60 X 127	
450 X 100 X 127	
450 X 150 X 127	

Bevel Grinding Wheels

- Consistent and superior performance
- Superior material removal
- Increased bevels per dress



	SPECS
Bevel Grinding	
	AS3 60 H14V
	AS3 60 J8V

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CGW, Camel Grinding Wheels plant in Kibbutz Sarid, Israel





120,000 square foot CGW, Camel Grinding Wheels facility in Nilus, 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).

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.





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