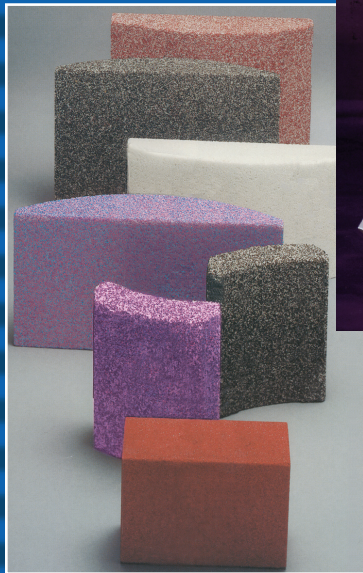




Precision Engineered Grinding Wheels

# INDUSTRIAL CATALOG



[www.radiac.com](http://www.radiac.com)



Precision Engineered Grinding Wheels

## A Full Line Abrasives Supplier

*Radiac is one of the largest manufacturers of Abrasive Products in North America. For more than 100 years, Radiac has delivered Technology and Quality in both product and service to the industry.*

*Today with our enlarged product offering, we deliver engineered solutions, for many operations and applications, where constant maximum performance and the toughest efficiency are required.*

## **Tell us your needs . . . We'll Meet Them!**

Radiac Abrasives offers more than 50,000 precision built products of high quality, performance and repeatability, for virtually every conceivable manufacturing specific area. These vast resources are presented via Vitrified Bond, Resinoid Bond, Rubber Bonded, Epoxy Diamond and CBN products. An unrivaled track record, working with many leading-edge companies, serves as testimony to the expertise offered by Radiac Abrasives.

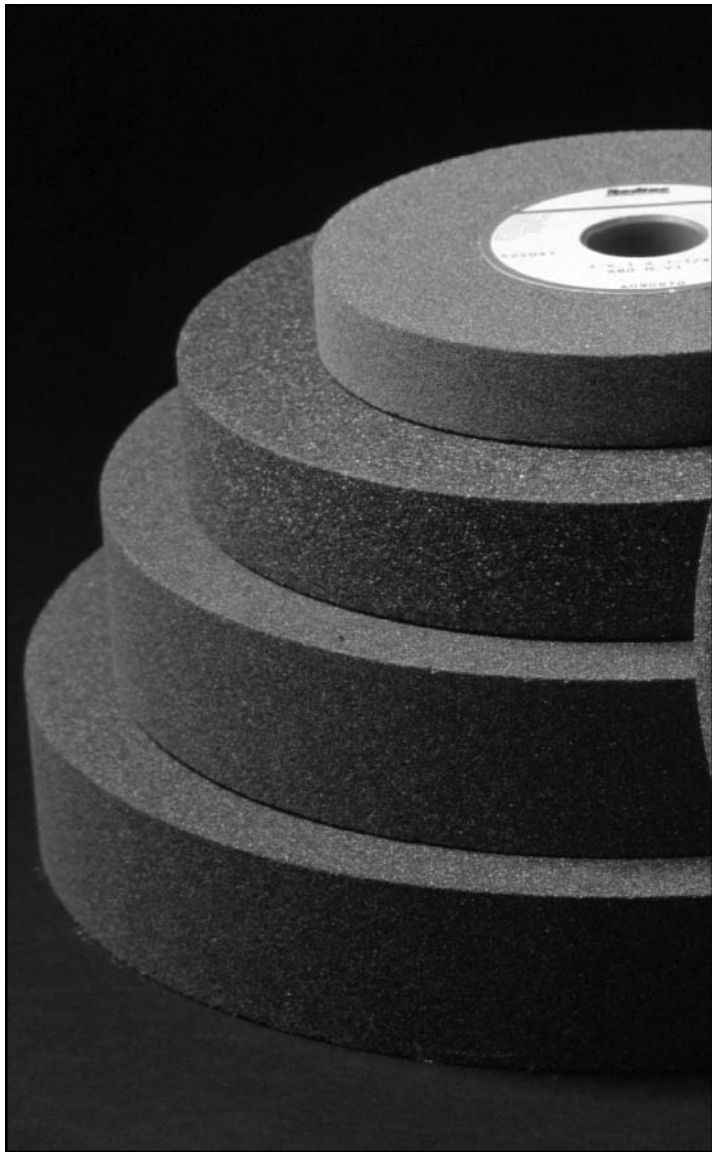
## **Grind with a team that knows how . . .**

Radiac offers an unparalleled selection of products, service and materials to help manufacturing organizations address their requirements. No other organization can offer the experience, spirit, resources and support enjoyed by Radiac clients.

## **We'll measure your performance . . .**

World-class organizations understand the increasing importance of producing quality products. Radiac Abrasives' Engineering Group offers comprehensive testing, application experience and understanding. It is quality product performance that can help your business grow.





Revised July 2009



# INDUSTRIAL CATALOG

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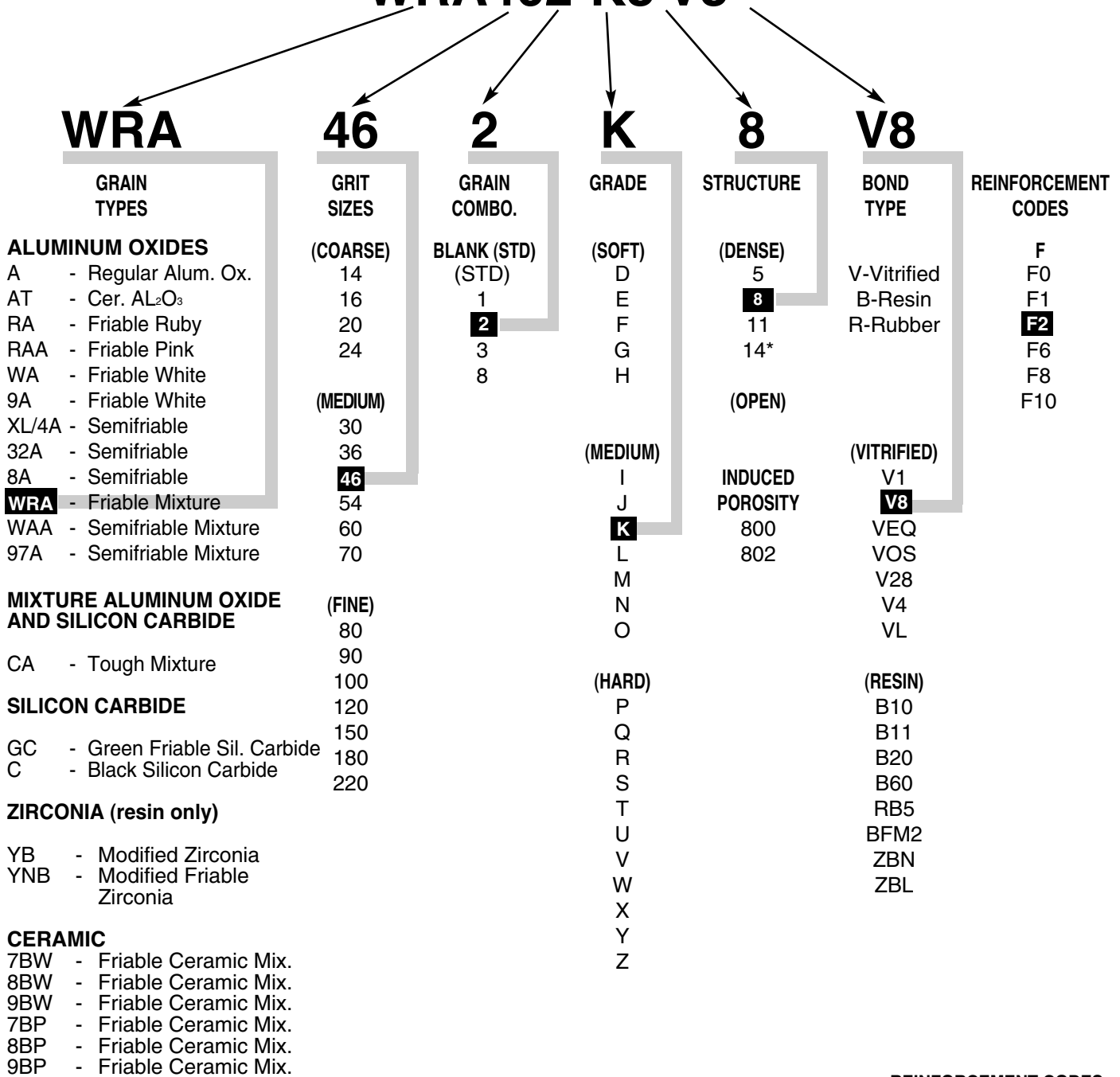
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# RADIAC MARKINGS

## WRA462-K8-V8



**REINFORCEMENT CODES:  
 A46-P5-B10 **F2****

The majority of cut-off and snagging wheels are made with fiberglass reinforcement. This is to add strength to the product to resist breakage due to uneven pressures or severe bending or side pressure. As shown on the chart, the fiberglass can be internal, external or a combination of both. Wheels can also be ordered with 50% reinforcement to add strength in the flange area. On any operation where the work piece may not be securely clamped, reinforcement wheels should be used.

\* 11 + 14 structures in V8 and VIP bonds are made with induced porosity.

CODE		REINFORCING DESCRIPTION
F	Full	Internal Only, Over 1/2" Thick
F0	Flange	1-Full Diameter Inside 2-Short (50%) Diameter Outside
F1	Full	1-Full Diameter Inside
<b>F2</b>	Full	1-Full Diameter Inside 2-Full Diameter Outside
F6	Flange	2-Full Diameter Inside 2-Short (50%) Diameter Outside
F8	Full	2-Full Diameter Outside
F10	Zone	2-Short (50%) Diameter Outside
<b>Limited To Wheels Less Than 1/2" Thick</b>		

1-800-851-1095

**ABRASIVES****Aluminum Oxide Abrasive**

For grinding or cutting carbon steel, high speed steel, tool and die steel and other high alloy, high tensile strength materials.

**MULTI-PURPOSE ALUMINUM OXIDE - WAA - 97A - A**

Versatile abrasives recommended for both hard and soft materials and for extended wheel life.

**PREMIUM ALUMINUM OXIDE - 32A - 9A - WA - WRA - RA - RAA - 8A**

Very forgiving, cool cutting abrasives. Best suited for heat sensitive hardened steels and hard to grind alloys.

**A**

- REGULAR ALUMINUM OXIDE
- GOOD FOR ROUGH GRINDING
- VERSATILE FOR SOFT/HARD MATERIALS
- BLuish GRAY IN COLOR

**WAA**

- MULTI-PURPOSE ABRASIVE
- EXCELLENT ON SOFT AND HARD MATERIALS
- BLEND OF WA AND A
- LIGHT STOCK REMOVAL
- BROWN/WHITE IN COLOR

**97A**

- GOOD MULTI-PURPOSE ABRASIVE
- EXCELLENT IN POR-OS-WAY
- BROWN/WHITE IN COLOR

**WA**

- COOL CUTTING
- GOOD FOR FINISH GRINDING
- GOOD FOR HEAT SENSITIVE MATERIALS
- LIGHT STOCK REMOVAL .001" or less per pass
- WHITE IN COLOR

**9A**

- COOLEST CUTTING
- EXCELLENT ON HEAT SENSITIVE PARTS
- LIGHT STOCK REMOVAL .001" or less per pass
- WHITE IN COLOR

**RAA**

- COOL CUTTING
- GOOD FOR HEAT SENSITIVE MATERIALS
- EXCELLENT ON EXOTIC MATERIALS
- LIGHT TO MEDIUM STOCK REMOVAL .001" - .002" per pass
- PINK IN COLOR

**8A**

- EXCELLENT FORM HOLDING
- IDEAL FOR HEAT SENSITIVE MATERIALS
- LIGHT TO MEDIUM STOCK REMOVAL .001" - .003" per pass
- LAVENDER IN COLOR

**32A**

- GOOD MULTI-PURPOSE ABRASIVES
- VERY VERSATILE
- GOOD FORM HOLDING
- LIGHT TO MEDIUM STOCK REMOVAL .001" - .003" per pass
- GRAY IN COLOR

**WRA**

- GOOD MULTI-PURPOSE ABRASIVE
- VERY VERSATILE
- GOOD FORM HOLDING
- MEDIUM STOCK REMOVAL .002" - .003" per pass
- MIXTURE OF WA (WHITE) AND RA (RUBY) ABRASIVES

**XL**

- MULTI-PURPOSE ABRASIVE
- GOOD FORM HOLDING
- HEAVY STOCK REMOVAL
- PREMIUM FLUTING ABRASIVE

**RA**

- TOUGH ABRASIVE
- EXCELLENT FORM HOLDING
- GOOD FOR ROUGH GRINDING
- HEAVY STOCK REMOVAL .005" plus per pass
- RUBY IN COLOR

**Ceramic Abrasive**

Ideal for down feeds of .005"-plus per pass, on material with a Rockwell hardness range of 40 Rc+. Excellent for Heat sensitive and difficult to grind material. A micron sized abrasive, uniform in size, continually presenting sharp cutting edges during stock removal.

**BW**

- LONGER WHEEL LIFE
- GOOD FOR HEAT SENSITIVE MATERIALS
- BLEND OF CERAMIC ABRASIVE WITH WA
- HEAVY STOCK REMOVAL .003+
- EXCELLENT FORM HOLDING

**BP**

- EXCELLENT WITH METAL OF HIGH CHROMIUM CONTENT
- WELL SUITED FOR MATERIALS 40 Rc+
- MINIMAL DRESSING
- BLEND OF CERAMIC ABRASIVE AND RAA
- HEAVY STOCK REMOVAL .005+

**BL**

- EXCELLENT FORM HOLDING
- EXCELLENT ON EXOTIC MATERIALS
- BLEND OF CERAMIC AND 8A
- HEAVY STOCK REMOVAL .004+

**Silicon Carbide Abrasive**

Used in grinding of tungsten carbide, cast iron, aluminum, copper, bronze and non-metallic materials such as plastic and glass. A very hard, sharp abrasive grain.

GC - PREMIUM FRIABLE

C - MULTI-PURPOSE

**GC**

- SILICON CARBIDE ABRASIVE
- EXCELLENT FOR CARBIDE CUTTING TOOLS
- GRINDING OF CEMENTED CARBIDE
- IRON AND TITANIUM
- GREEN IN COLOR

**C**

- SILICON CARBIDE ABRASIVE
- IDEAL FOR GRAY IRON CASTINGS
- GOOD FOR NON-FERROUS MATERIAL
- GLASS, RUBBER, STONE
- BLACK IN COLOR

**Zirconia Abrasive**

The grain best suited for foundry-type wheels, where long life and aggressive cutting properties are required.

**NZB**

- TOUGH GRAIN
- QUICK-CUTTING
- LONG LIFE

**NZBC**

- MEDIUM TO HEAVY STOCK REMOVAL
- AGGRESSIVE GRINDING
- ZIRCONIA AND SILICON CARBIDE MIXTURE
- LONG LIFE
- USED FOR 12500 SFPM

**Aluminum Oxide/Silicon Carbide****CA**

- RESIN BOND ONLY
- GOOD FOR ROUGH GRINDING
- FOR NON-FERROUS MATERIALS
- VERSATILE FOR SOFT/HARD MATERIALS
- MAIN USE IN FOUNDRY APPLICATION



## Grains for Vitrified Bonds

Radiac's extensive selection of abrasives for vitrified wheels deliver engineered versatility in grinding all types of material such as high speed steel, superalloys and hard to machine special materials, with superior metal removal, finish tolerances, and wheel life.

Grain Type Selection	Stock Removal Per Pass			
	.001 or Less	.001 to .002	.003 to .004	.005 or More
32A-Gray				
9A-White				
WA-White				
WRA-Ruby/White				
RA-Ruby				
8A-Lavender				
RAA-Pink				
WAA-Brown/White				
97A-Brown/White				
A-Bluish Gray				
GC-Green				
Ceramic				



The great variety of grinding tasks has led to the large offering of abrasive grains. Their properties and performance are critical to efficient grinding.

Grain Type	T.27/28		Steel		Iron	Non-Ferrous
	Premium	Gen. Pur.	Premium	Gen. Pur.		
YNB						
YB						
CA						
A						
C						

## Grains for Resin Bonds

Radiac's complete line of resin abrasives for reinforced and non-reinforced wheels, includes a wide variety of grain types in the Silicon Carbide, Aluminum Oxide, and Zirconia families. These grains provide the best stock removal and performance possible today.

Average Grain	Particle Size	Radius	Finish RMS	Finish Tolerances:	Finish
46	.020	over .020	over 32	.002	Commercial
54	.017	.017 - .020	20 - 32	.0008	Commercial
60	.016	.016 - .020	15 - 20	.0008	Smooth
80	.0105	.010 - .020	12 - 18	.0008	Fine
100	.0085	.008 - .010	10 - 15	.0002	Very Fine
120	.0056	.005 - .008	8 - 12	.0002	Extra Fine
150	.0048	.004 - .006	6 - 10	.0001	Mirror Finish
220	.0026	.003 - .005	5 - 6	.0001	Mirror Finish

## Grain Size

The wide range of abrasive grain, coarse, medium, fine and very fine, are important for stock removal. This determines the quality and economy of most grinding operations.

Wheel Grade	<42Rc	42-50Rc	50-57Rc	>57Rc
G				
H				
I				
J				
K				

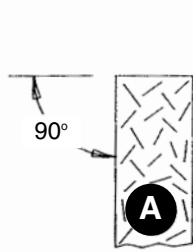
## Vitrified Bond Hardness Selection

Wheel hardness is dependent on the holding power of the bond, the hardness of the material, rate of stock removal and finish required.

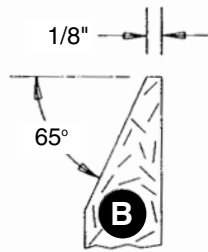
### Grade Hardness

If you need:	Change Grade by:
Cooler or Freer Cutting Action	1 or 2 letter grades softer
Longer Life	1 or 2 letter grades harder

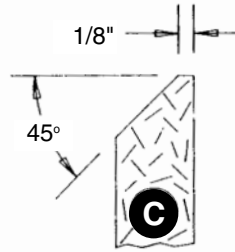
# STANDARD WHEEL FACES



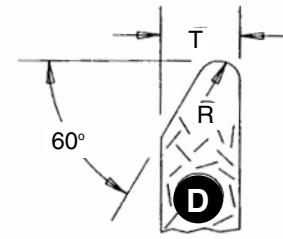
**A**  
General Applications



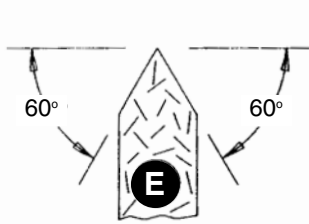
**B**  
For Broach Grinding Applications



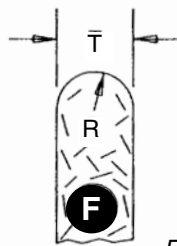
**C**  
For Drill Pointing Applications



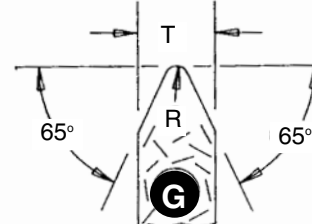
$$R = \frac{3(T)}{10}$$



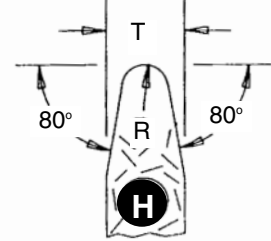
**E**  
For Thread Grinding Applications



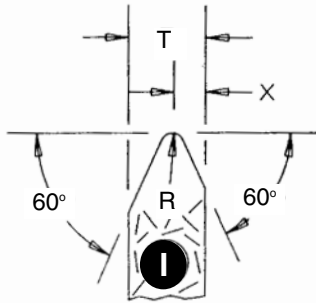
$$R = \frac{T}{2}$$



$$R = \frac{T}{8}$$

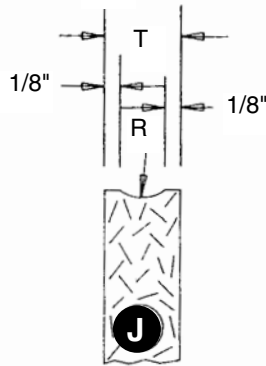


$$R = \frac{T}{8}$$

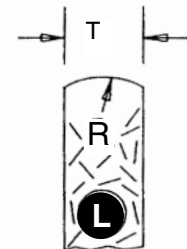
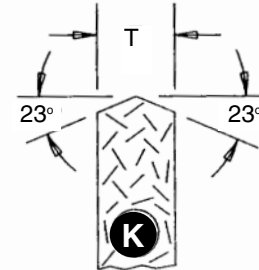


$$R = \frac{T}{8}$$

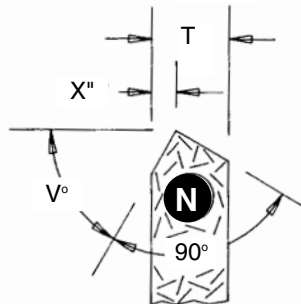
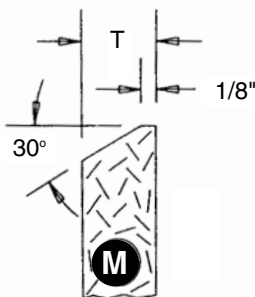
$$X = \frac{T}{3}$$



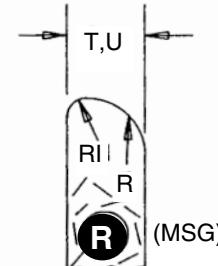
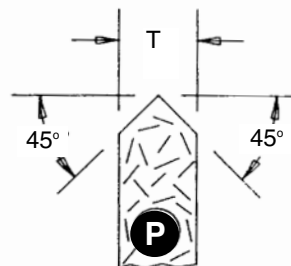
$$R = \frac{7(T)}{10}$$



$$R = T$$



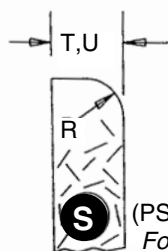
"X" is Less than



$$R = \frac{T}{8}$$

$$X = \frac{T}{8}$$

For Saw Gumming



**S** (PSG)  
For Saw Gumming

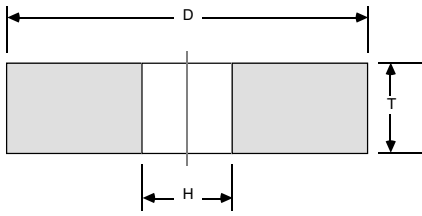
For Angle Head Cylindrical Grinding Applications

- These standard wheel faces are most common with Type 1-5-7 wheel shapes.
- Any angles other than specified on the above faces will require a print.

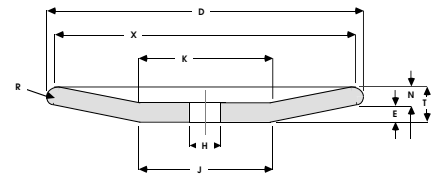
# STANDARD WHEEL SHAPES

1-800-851-1095

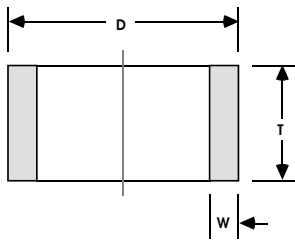
**Grinding wheels** are available in a wide range of shapes. The wheel shapes are accepted standards from ANSI B74.2. For most applications, the correct wheel shape can be selected from these standard configurations.



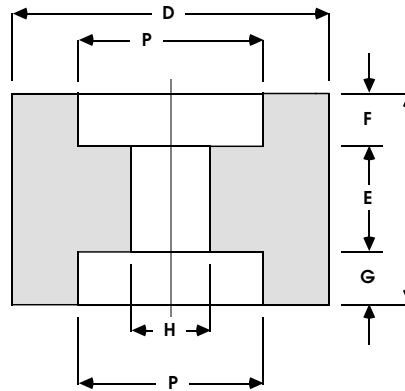
**Type 1, Straight**



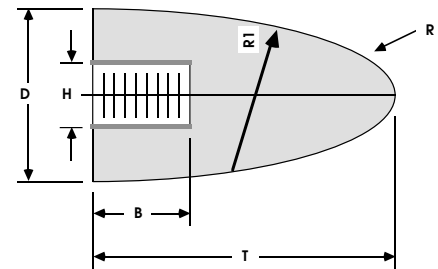
**Type 13, Saucer**



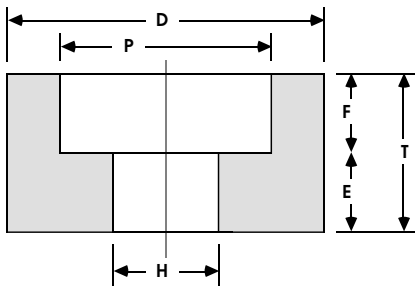
**Type 2, Cylinder**



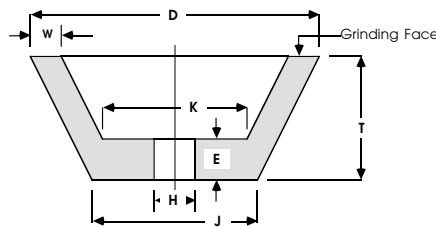
**Type 7, Recessed 2 sides**



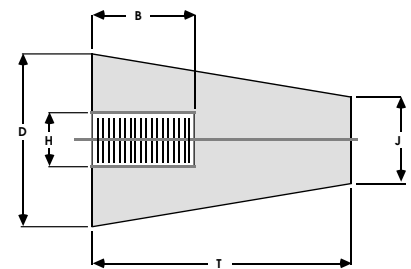
**Type 16, Cone**



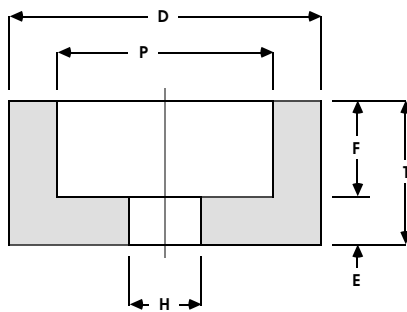
**Type 5, Recessed 1 side**



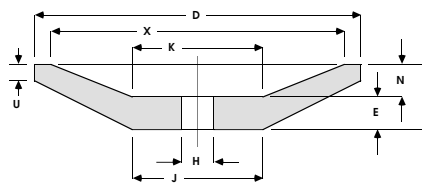
**Type 11, Flaring Cup**



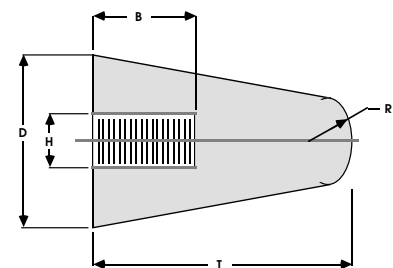
**Type 17, Cone**



**Type 6, Straight Cup**



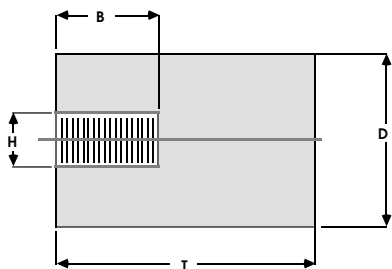
**Type 12, Dish**



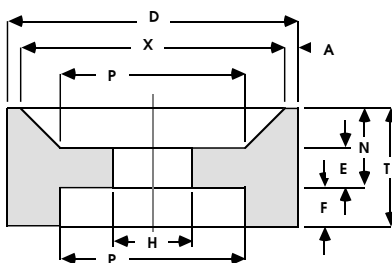
**Type 17R Cone**



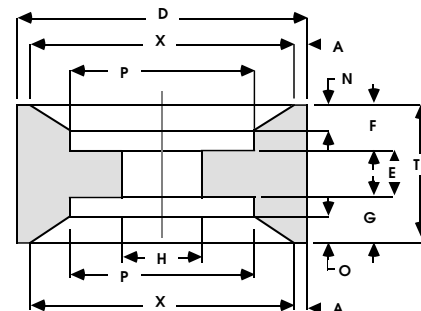
**1-800-851-1095** **STANDARD WHEEL SHAPES**



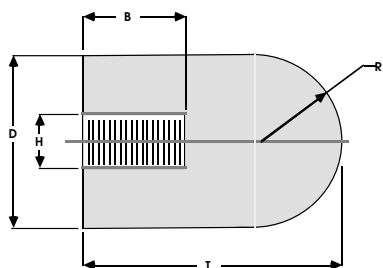
**Type 18, Plug, Square**



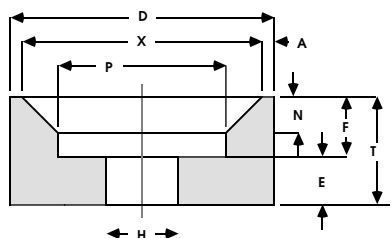
**Type 22, Relieved 1 side,  
Recessed other side**



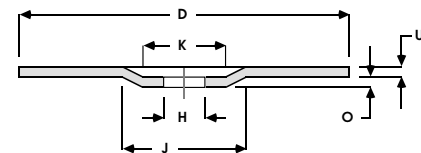
**Type 26,  
Relieved and Recessed 2 sides**



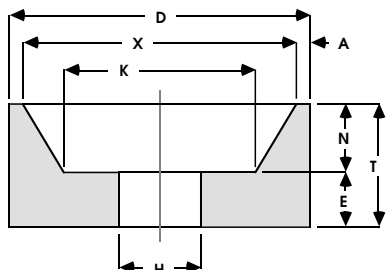
**Type 18R Plug, Round**



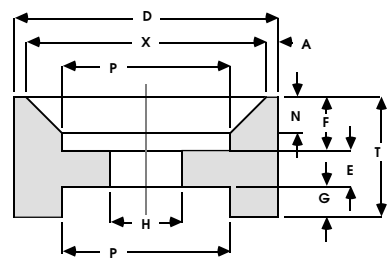
**Type 23,  
Relieved and Recessed 1 side**



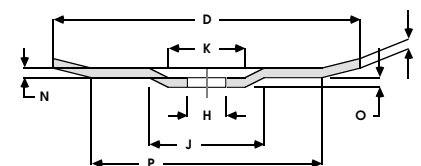
**Type 27, Raised Hub Disc Wheel**



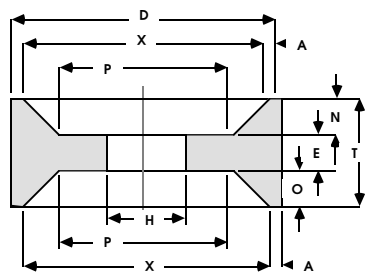
**Type 20, Relieved 1 side**



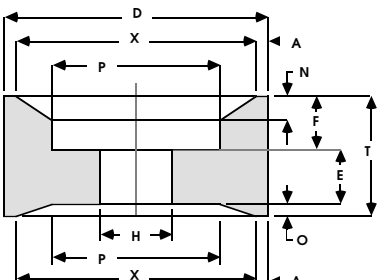
**Type 24, Relieved 1 side,  
Recessed 2 sides**



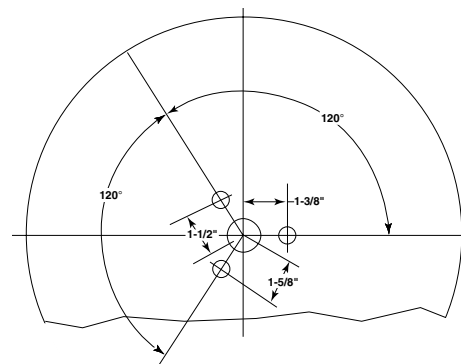
**Type 28, Raised Hub Dish Wheel**



**Type 21, Relieved 2 sides**

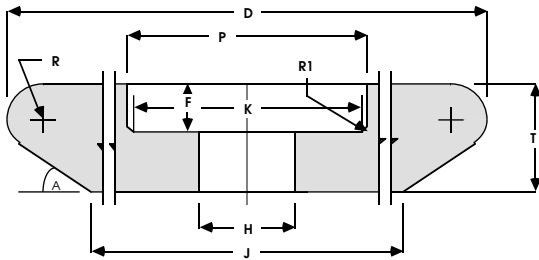


**Type 25, Relieved 2 sides,  
Recessed 1 side**



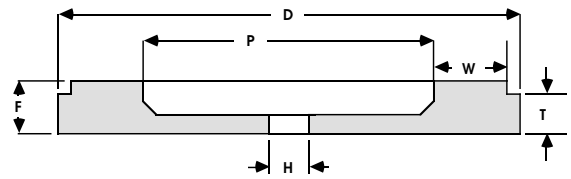
**Type 1 Blue Print 2699  
3 Bolt Holes 5/8" Diameter  
spaced 120° apart**

**Type 5 Can-Car Chip N Saw Grinder**



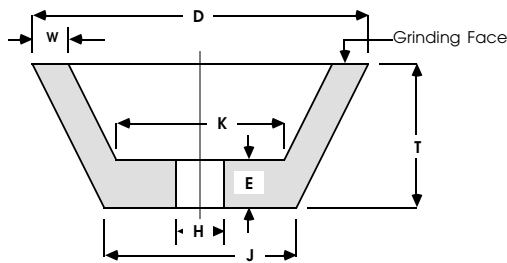
B/P No.	D	T	H	J	R	R1	K	P	F	A
26311	12	2	1-3/4	9-1/16	5/8	3/16	4-1/2	4-7/8	1	35°

**Type 99 Black Diamond Drill Grinder**



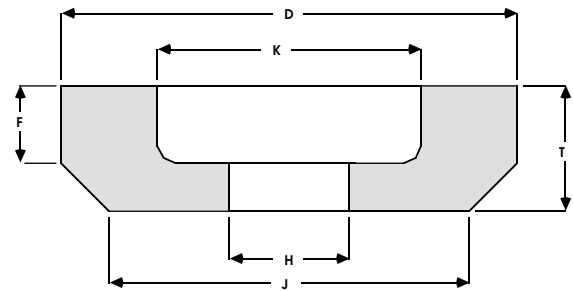
B/P No.	D	T	H	W	P	E	F
2232	7	7/8	1/2	13/16	4-15/16	3/8	1/2

**Type 11 Flaring Cup Wheels**



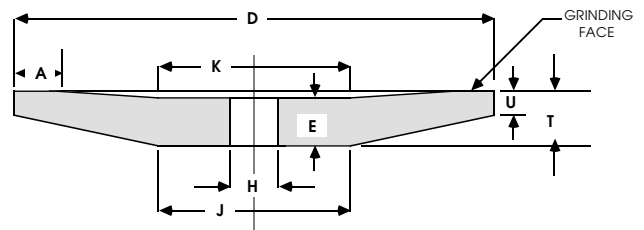
B/P No.	D	T	H	W	E	J	K
2009	3	1-1/4	-	1/4	3/8	2-1/4	1-5/8
1958	3-1/2	1-1/2	-	1/4	3/8	2-3/4	2-1/4
2012	4	1-1/2	-	1/4	1/2	3	2-5/8
D1534	4	1-1/2	-	1/4	1/2	3	2-5/8
2696	4-1/2	1	5/8SQ	1/2	1/2	2	2
2013	4-1/2	1	-	1/4	1/2	3-3/4	3-1/8
2014	5	1-3/4	-	1/4	1/2	3-3/4	3-1/8
D1536	5	1-3/4	-	1/4	1/2	3-3/4	3-1/8
2015	6	2	-	3/8	1/2	4-1/2	3-3/4
26876	6	2	1-1/4	1/2	1/2	3	2-3/4
13173	6	2-1/2	-	1/2	3/4	3-3/4	3-1/2
16074	7	1-1/2	3/4	1	5/8	2-7/8	2-1/2
12893	8	1-3/4	-	3/4	3/4	3-1/4	3-1/2

**Type 6 Select-O-Point Drill Grinder**



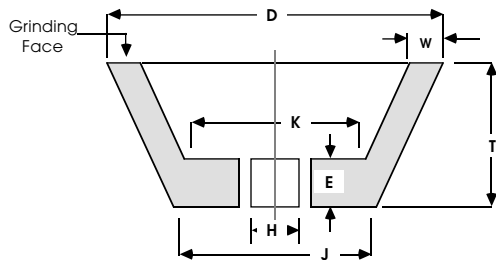
B/P No.	D	T	H	W	K	J	E	F
23519	5-7/8	1-1/2	50mm	1-11/32	3-3/16	5	1/2	1-1/8

**Type 12 Dish Wheels**



B/P No.	D	T	H	E	J	K	U	A
2002	4	1/2	-	5/16	2	2	3/323/16	
2005	6	1/2	-	5/16	3	3	1/8 3/8	
2006	6	3/4	-	3/8	3	3	1/8 3/8	
D1545	6	3/4	-	3/8	3	3	1/8 3/8	
1921	6-1/2	1-1/2	1	3/4	2-1/2	3-3/32	1/16.656	
2628	7	3/4	-	7/16	3-1/2	3-1/2	1/87/16	
D3343	7	3/4	-	7/16	3-1/2	3-1/2	1/87/16	
28634	10	1	1-1/4	11/16	6-1/4	3-5/8	1/8 2	

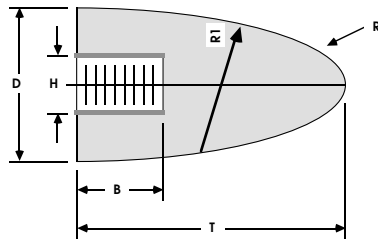
**Type 11 Flaring Cup Wheels**



B/P No.	D	T	H	W	E	J
15521	4	2	5/8-11	1	3/4	3
14183	6	2	5/8-11	1-1/2	3/4	4-3/4

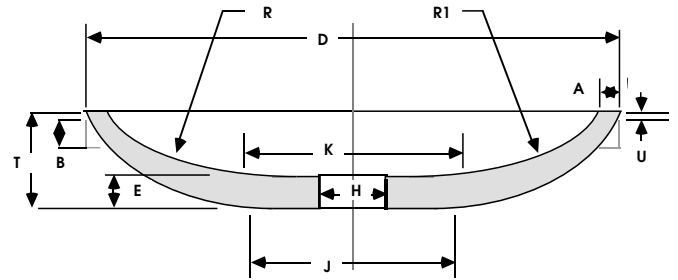
# 1-800-851-1095 STANDARD STOCK BLUEPRINTS

**Type 16 Cones**



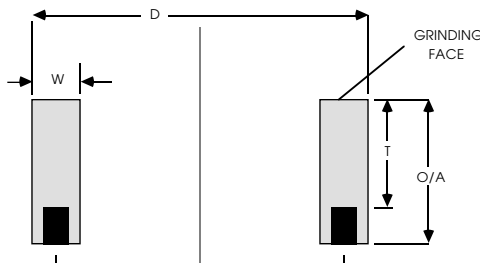
B/P No.	D	T	H	B	R	R1
21466	1-1/2	2-1/2	5/8-11	1	5/16	6-1/8
1896	2-3/4	3-1/2	5/8-11	1	5/8	6-3/8

**Type 99 Yates American Saw Grinder**



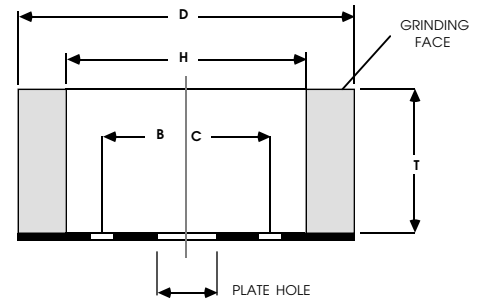
B/P No.	D	T	E	J	K	U	A	B	R	R1
1466	8	1-9/16	-	3	4-15/16	1/16	7/16	3/8	4-3/4	4-1/2

**Type 52 Nut Inserted Cylinders**



B/P No.	D	T	W	O/A	B.C.	Holes	TH-D
23818	8	1-1/2	1-3/4	1-7/8	6-1/4	4	3/8 - 16
2195	10	3	1	3-3/8	9	8	1/4 - 20
2554	10	4	1	4-3/8	9	8	1/4 - 20
2077	14	4	1-1/4	4-3/8	12-3/4	8	3/8 - 16

**Type 53 Plate Mounted Wheel**



B/P No.	D	T	H	PLATE HOLE	B.C.	BOLT HOLES	BOLT HOLE DIA.	BOLT HOLE SHAPE
16434	5	1	3-1/2	1-3/8	2-1/4	4	9/32	C/Bore
16423	6	1	4	1-1/4	3-1/4	4	25/64	Straight
17070	6	1-1/2	4	1-1/4	3-1/4	4	25/64	Straight
16428	7	1-1/2	5	1-3/4	3-1/4	4	9/32	Straight
16436	8	2	5-1/2	3-1/8	3-13/16	4	25/64	C/Bore
16430	9	2	5	2	4	6	17/64	C/Sunk
D1517	9	2	5	2	4	6	17/64	C/Sunk
2671	10	2	7	2	3-1/2	6	25/64	Straight
2671	10	2	7	2	5-1/2	6	21/64	C/Sunk
21878	10	2	7-1/2	3-3/4	5	4	25/64	C/Bore
16421	14	4	11	1-1/4	8	4	9/16	Straight



# ROCKWELL HARDNESS

1-800-851-1095

Rockwell C-Scale Hardness No. †¹	Diamond Pyramid Hardness No., Vickers	Brinnell Hardness No. 10-mm Ball, 3000-kg Load			Rockwell Hardness No. †¹			Rockwell, Superficial Hardness No., Superficial Brale Penetrator			Shore Scleroscope Hardness No.
		Standard Ball	Hultgren Ball	Tungsten Carbide Ball	A-Scale 60-kg Load, Brale Penetrator	B-Scale 100-kg Load, 1/16 in. Dia. Ball	D-Scale 100-kg Load, Brale Penetrator	15-N Scale, 15-kg Load	30-N Scale, 30-kg Load	45-N Scale, 45-kg Load	
68	940	—	—	—	85.6	—	76.9	93.2	84.4	75.4	97
67	900	—	—	—	85.0	—	76.1	92.9	83.6	74.2	95
66	865	—	—	—	84.5	—	75.4	92.5	82.8	73.3	92
65	832	—	—	739	83.9	—	74.5	92.2	81.9	72.0	91
64	800	—	—	722	83.4	—	73.8	91.8	81.1	71.0	88
63	772	—	—	705	82.8	—	73.0	91.4	80.1	69.9	87
62	746	—	—	688	82.3	—	72.2	91.1	79.3	68.8	85
61	720	—	—	670	81.8	—	71.5	90.7	78.4	67.7	83
60	697	—	613	654	81.2	—	70.7	90.2	77.5	66.6	81
59	674	—	559	634	80.7	—	69.9	89.8	76.6	65.5	80
58	653	—	587	615	80.1	—	69.2	89.3	75.7	64.3	78
57	633	—	575	595	79.6	—	68.5	88.9	74.8	63.2	76
56	613	—	561	577	79.0	—	67.7	88.3	73.9	62.0	75
55	595	—	546	560	78.5	—	66.9	87.9	73.0	60.9	74
54	577	—	534	543	78.0	—	66.1	87.4	72.0	59.8	72
53	560	—	519	525	77.4	—	65.4	86.9	71.2	58.6	71
52	544	500	508	512	76.8	—	64.6	86.4	70.2	57.4	69
51	528	487	494	496	76.3	—	63.8	85.9	69.4	56.1	68
50	513	475	481	481	75.9	—	63.1	85.5	68.5	55.0	67
49	498	464	469	469	75.2	—	62.1	85.0	67.6	53.8	66
48	484	451	455	455	74.7	—	61.4	84.5	66.7	52.5	64
47	471	442	443	443	74.1	—	60.8	83.9	65.8	51.4	63
46	458	432	432	432	73.6	—	60.0	83.5	64.8	50.3	62
45	446	421	421	421	731	—	59.2	83.0	64.0	49.0	60
44	434	409	409	409	72.5	—	58.5	82.5	63.1	47.8	58
43	423	400	400	400	72.0	—	57.7	82.0	62.2	46.7	57
42	412	390	390	390	71.5	—	56.9	81.5	61.3	45.5	56
41	402	381	381	381	70.9	—	56.2	80.9	60.4	44.3	55
40	392	371	371	371	70.4	—	55.4	80.4	59.5	43.1	54
39	382	362	362	362	69.9	—	54.6	79.9	58.6	41.9	52
38	372	353	353	353	69.4	—	53.8	79.4	57.7	40.8	51
37	363	344	344	344	68.9	—	53.1	78.8	56.8	39.6	50
36	354	336	336	336	68.4	(109.0)	52.3	78.3	55.9	38.4	49
35	345	327	327	327	67.9	(108.5)	51.5	77.7	55.0	37.2	48
34	336	319	319	319	674	(108.0)	50.8	77.2	54.2	36.1	47
33	327	311	311	311	66.8	(107.5)	50.0	76.6	53.3	34.9	46
32	318	301	301	301	66.3`	(107.0)	49.2	76.1	52.1	33.7	44
31	310	294	294	294	65.8	(106.0)	48.4	75.6	51.3	32.5	43
30	302	286	286	286	65.3	(105.5)	47.7	75.0	50.4	31.3	42
29	294	279	279	279	647	(104.5)	47.0	74.5	49.5	30.1	41
28	286	271	271	271	64.3	(104.0)	46.1	73.9	48.6	28.9	41
27	279	264	264	264	63.8	(103.0)	45.2	73.3	47.7	27.8	40
26	272	258	258	258	63.3	(102.5)	44.6	72.8	46.8	26.7	38
25	266	253	253	253	62.8	(101.5)	43.8	72.2	45.9	25.5	38
24	260	247	247	247	62.4	(101.0)	43.1	71.6	45.0	24.3	37
23	254	243	243	243	62.0	100.0	42.1	71.0	44.0	23.1	36
22	248	237	237	237	61.5	99.0	41.6	70.5	43.2	22.0	35
21	243	231	231	231	61.0	98.5	40.9	69.9	42.3	20.7	35
20	238	226	226	226	60.5	97.8	40.1	69.4	41.5	19.6	34
(18)	230	219	219	219	—	96.7	—	—	—	—	33
(16)	222	212	212	212	—	95.5	—	—	—	—	32
(14)	213	203	203	203	—	93.9	—	—	—	—	31
(12)	204	194	194	194	—	92.3	—	—	—	—	29
(10)	196	187	187	187	—	90.7	—	—	—	—	28
(8)	188	179	179	179	—	89.5	—	—	—	—	27
(6)	180	171	171	171	—	87.1	—	—	—	—	26
(4)	173	165	165	165	—	85.5	—	—	—	—	25
(2)	166	158	158	158	—	83.5	—	—	—	—	24
(0)	160	152	152	152	—	81.7	—	—	—	—	24

†¹ Values in parentheses are beyond normal range and are given for information only.

1-800-851-1095

**CONVERSION CHARTS****Abrasive Grain Conversions**

RADIAC	BAY STATE	CARBO.	CINCINNATI	NORTON	PACIFIC	SL ABRASIVES	TYROLIT	WINTERTHUR
A	3A A	A	A 2A	57A* 16A A	35A A	A 3A	A	A
97A WAA	8A 2A	HA DA GA	97A 16A 29A	53A* 23A* 19A 57A* 64A	40A 42A 45A 47A 48A	2A L5A H5A 4A	50A	61A 31A
79A				55A				
WRA	17A*	BA	12A*		54A	82A		
9A/WA	9A	AA	9A	38A	50A	11A 10A	89A	53A 49A 42A
AT	TA	TA		UA U57A	TA	14A		
7RA	16A							
43A				53A*		2A		
45A		SA		23A*				64A
9RA					5LA 52A			
4A/XL				57A*				67A
RA					53A		91A	68A
RAA	17A*	PA	12A*	25A	49A	82A	88A	57A
8A				86A				
32A			32A	32A				
9BW				1SG				
9BP				3SG				
8BW			3MSB	5SG				
8BP			CMSB					
7BW				SG				
7BP								
C	C	TC C	6C	37C	75C	18C 15C C	1C	C
GC	1C	GC	5C	39C	80C	GC	C	11C
BC	3C	RC BC	7C	74C	77C	FC	50C	
CA	MA	SZC STC CA	CA	AC	70C 69A 68A	R5A*		AC
CWA	50A	C5A	C9A		72A 71A	R5A*		
7CA					37A			
YNB								
NZB			8A	4NZ NZ				
NZD								
NZDC				NZC				
YA				ZF			28A	ZA*
YB				4ZF	20A	20A 18A	21A	ZA*
YD				5ZF		15A		
YDC					74A	15C		

\* Appears more than once.

# BOND CONVERSION TABLES

1-800-851-1095

<b>Vitrified Bonds</b>			
<b>RADIAC V8 / V1</b>	Bay State	V22, V62*, V52, V56, V76, VH2**, VA2	
	Carborundum	V10, V40*	Norton
	Cincinnati	VQC, VRW, VFM, VL*, V5*, V6*, V7*, V20*	
			VBE*, VA, VBA, VCN, VJN, VS, VSB**, VTN, VT, VSM*, V127, V128**
<b>RADIAC VOS / VOSX</b>	Bay State	V62*	
	Carborundum	V40*	Norton
	Cincinnati	VL*	
			VSM*, VBEP* VSP
<b>RADIAC VEQ (32A Only)</b>	Bay State	--	
	Carborundum	--	Norton
	Cincinnati	--	
			VBE*, VBEP*
<b>RADIAC V28</b>	Bay State	V72, V82	
	Carborundum	V, V30, V60	Norton
	Cincinnati	V5*, V6*, V7*, V20*	
			V, VM
<b>RADIAC VA3</b>	Bay State	--	
	Carborundum	--	Norton
	Cincinnati	--	
			VG
<b>RADIAC V4/VL</b>	Bay State	VC2, V32,VR2	
	Carborundum	VR	Norton
	Cincinnati	VSC	
			VK

<b>Shellac Bonds</b>			<b>Treatment Codes</b>			
<b>RADIAC ES</b>	Bay State	EC2	MANUFACTURER	WAX	SULFUR	RESIN
	Carborundum	EA, EAE	<b>RADIAC</b>	<b>P</b>	<b>S, SF</b>	<b>K</b>
	Cincinnati	--	Bay State	#4, #5	#10	#11
	Norton	E, E3, E6, E7, E9, E12	Carborundum	YA	YT	YP
			Cincinnati	D, S	B, D2	R, X
			Norton	#12	#22	#3, #X110

<b>Reinforced Resin Bonds</b>					
<b>RADIAC B(F)</b>	Bay State	BF2, BFK, BTH, BTK, RFR	<b>RADIAC B20F8</b>	Bay State	BG2
	Carborundum	--		Carborundum	BFCW, BFC, BFX2
	Cincinnati	--		Cincinnati	BF9
	Norton	BDA		Norton	BN,BNA, BNA2, B25N,B30N,B65N
<b>RADIAC B10F</b>	Bay State	BFD, BR2	<b>RADIAC ***</b>	Bay State	--
	Carborundum	--		Carborundum	--
	Cincinnati	--		Cincinnati	--
	Norton	BRA		Norton	BN, BNC, B65N, B65B
<b>RADIAC B20F1</b>	Bay State	BF2	<b>RADIAC BFX / BTX</b>	Bay State	FA2, FP2, BZ2
	Carborundum	BFX5		Carborundum	--
	Cincinnati	--		Cincinnati	--
	Norton	B25B, B65B		Norton	BBFRR, BFR

\* Appears more than once.  
 \*\* Vitrified high speed bond.



1-800-851-1095

**BOND CONVERSION TABLES**

<b>Non-Reinforced Resin Bonds</b>					
<b>RADIAC B10</b>	Bay State Carborundum Cincinnati Norton	BA2, BC2, BD2* B53 B2, BB B, B2, B5, BH*	<b>RADIAC B15</b>	Bay State Carborundum Cincinnati Norton	BS2 -- -- --
<b>RADIAC B20</b>	Bay State Carborundum Cincinnati Norton	BJ2, BP2 B5S2, B55W BF9 B25, B65W	<b>RADIAC ZBN</b>	Bay State Carborundum Cincinnati Norton	-- -- B8* --
<b>RADIAC B51</b>	Bay State Carborundum Cincinnati Norton	BD2* -- B80* Snagging B7, BX2348	<b>RADIAC ***</b>	Bay State Carborundum Cincinnati Norton	-- -- B8* B65W, BZZ
<b>RADIAC RB8</b>	Bay State Carborundum Cincinnati Norton	BEN* B8 -- B17* Roll Grinding	<b>RADIAC ES</b>	Bay State Carborundum Cincinnati Norton	-- -- -- B4
<b>RADIAC RB9</b>	Bay State Carborundum Cincinnati Norton	BEN* -- B80* Centerless B24, B17* Centerless	<b>RADIAC B60</b>	Bay State Carborundum Cincinnati Norton	-- -- -- B14
<b>RADIAC BFM2</b>	Bay State Carborundum Cincinnati Norton	BQ2, BT2 -- -- BH*	<b>RADIAC B36</b>	Bay State Carborundum Cincinnati Norton	-- -- -- B15

**REINFORCEMENT CODES**

CODE		REINFORCING DESCRIPTION
F	Full	Internal Only, Over 1/2" Thick
F0	Flange	1-Full Diameter Inside 2-Short (50%) Diameter Outside
F1	Full	1- Full Diameter
F2	Full	1-Full Diameter Inside 2-Full Diameter Outside
F6	Flange	2-Full Diameter Inside 2-Short (50%) Diameter outside
<b>F8</b>	Full	2-Full Diameter Outside
F10	Zone	2-Short (50%) Diameter Outside
<b>Limited To Wheels Less Than 1/2" Thick</b>		

**Reinforcement Codes:****A46-P5-B10F8**

The majority of cut-off and snagging wheels are made with fiber-glass reinforcement. This is to add strength to the product to resist breakage due to uneven pressures or severe bending or side pressure. As shown on the chart, the fiberglass can be internal, external or a combination of both. Wheels can also be ordered with 50% reinforcement to add strength in the flange area. On any operation where the work piece may not be securely clamped, reinforcement wheels should be used.

\* Appears more than once

\*\*\* Contact application engineering for conversion

**WHEEL SAFETY:** The following safety information is based in part on material contained in the ANSI B7.1 Safety Requirements for the "Use, Care and Protection of Abrasive Wheels". It is recommended that all personnel involved with grinding wheels become familiar with ANSI B7.1.

### PROPER USE OF GRINDING WHEELS

Given the correct wheel, in accordance with approved procedure, safe operation depends largely on the treatment to which the wheel is subject during use.

#### DO:

Ensure that guards and work rests are properly adjusted and secure before starting machine.

Always use safety guard covering at least one-half the grinding wheel.

Allow a newly mounted wheel to run at operating speed with guard in place at least one minute before starting to dress or grind.

Always wear protective glasses or some type of eye protection when grinding.

Always dress or make grinding contact gently.

Re-dress the wheel when necessary.

Turn off the coolant before stopping the wheel to avoid creating an out of balance condition.

#### DO NOT:

Ever exceed the maximum operating speed established for the wheel.

Start the machine until the guard is in place.

Stand directly in front of the wheel when the machine is started.

Jam the work into the wheel, nor use excessive pressure or infeed.

Force grinding so that the motor slows noticeably or the work gets hot.

Grind on the side of the wheel (see ANSI B7.1 for exception).

Allow stationary wheels to rest in fluids.

Apply pressure to wheels to stop them.

Continuously use glazed wheels without dressing.

Use wheels for purposes other than those for which they are designed.

### RECEIPT

On receipt, grinding wheels should be examined to see if they show any signs of damage, such as chips, cracks or discoloration. Damaged wheels must not be used.

### HANDLING

All grinding wheels can be damaged by any mishandling that results in the wheel being subjected to any shock loading. This can occur due to the product being inadvertently dropped, knocked over or banged against any other object. This is equally true if the wheel is secured on a pallet which has been dropped heavily from a fork lift truck.

Any grinding wheel subjected to such mishandling should be carefully examined for signs of damage such as chips, cracks or discoloration. If in doubt - do not use.

### WHEEL HANDLING

Only a trained person should mount a grinding wheel.

A wheel should only be mounted on the machine for which it was intended.

All grinding wheels should be closely inspected before mounting to ensure that they have not been damaged while in storage or transit.

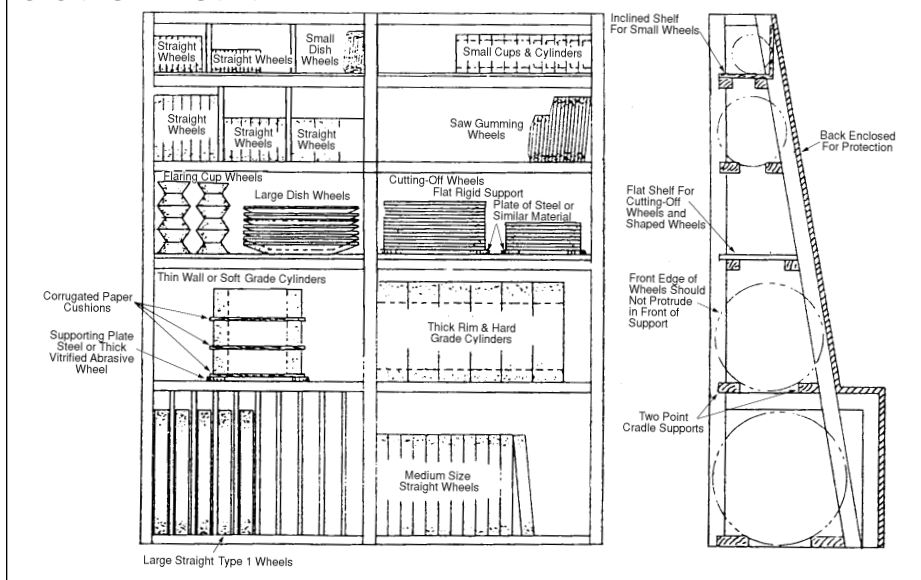
The ring test should be carried out only in a place where the tone of the ring can be easily heard.

The speed of the spindle on which the wheel is mounted should not, under any circumstances, exceed the maximum speed specified for the wheel.

Bushings should not project beyond the side of the wheel and the wheel blotter when used. The wheel should fit freely, but not loosely, on the spindle.

Wheels, blotters and flanges should be free from foreign matter.

### STORAGE DIAGRAM



This drawing illustrates a rack design which is suitable for handling a wide variety of abrasive wheels.

### STORAGE

Do not subject wheels to humidity, water or other liquids, freezing temperatures or sudden temperature change.

Small wheels up to 4" diameter, together with cones, plugs, mounted points and wheels may be stored in suitable bins, drawers or boxes.

Type 2 cylinder wheels, type 6 straight cup wheels, type 12 dish wheels and type 13 saucer wheels should normally be stacked on flat sides with cushioning material between them.

Thick rim and hard grade cylinder and straight cup wheels may be stored on the periphery.

Soft grade, straight cup wheels, and all type 11 taper cup wheels, should be stored base to base and rim to rim to prevent chipping of edges and cracking of walls.

Thin plain wheels, such as cutting off wheels or saw sharpening wheels should be stacked on a flat surface of steel, or similar rigid material.

Other plain or shaped wheels of appreciable thickness are best supported on their periphery in racks. The racks should provide cushioned, two point, cradle support to prevent the wheels from rolling.

1-800-851-1095

# WHEEL SAFETY

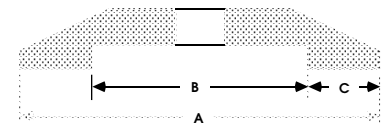
## RED CENTER REDUCING BUSHINGS RECOMMENDED USE

WHEEL DIAMETER	WHEEL THICKNESS	RED CENTER REDUCING BUSHINGS INSIDE DIMENSION(I.D.)
<b>TYPE 1 STRAIGHT WHEELS, TYPE 12 DISH WHEELS, TYPE 13 SAUCER WHEELS</b>		
6"	1/4" to 1-1/2" Incl.	1", 15/16", 7/8", 3/4", 5/8", 1/2"
6"	over 1-1/2" to 2" incl.	1", 15/16", 7/8", 3/4", 5/8"
7"	1/4" to 1" incl.	1", 15/16", 7/8", 3/4", 5/8", 1/2"
7"	over 1" to 2" incl.	1", 15/16", 7/8", 3/4", 5/8"
8"	1/4" to 5/8" incl.	1", 15/16", 7/8", 3/4", 5/8", 1/2"
8"	over 5/8" to 1-3/4" incl.	1", 15/16", 7/8", 3/4", 5/8"
8"	over 1-3/4" to 2" incl.	1", 15/16", 7/8", 3/4"
10"	1/4" to 5/8" incl.	1", 15/16", 7/8", 3/4", 5/8"
10"	over 5/8" to 2" incl.	1", 15/16", 7/8", 3/4"
12"	1/4" to 1-1/4" incl.	1", 15/16"
12"	over 1-1/4" to 2-1/2" incl.	1", 15/16"
14"	1/4" to 5/8" incl.	1", 15/16", 7/8", 3/4"
14"	over 5/8" to 2-1/4" incl.	1", 15/16"
<b>TYPE 6 STRAIGHT CUP WHEELS</b>		
4"	up to 2" incl.	1", 7/8", 3/4", 5/8", 1/2"
5"	up to 2" incl.	1", 7/8", 3/4", 5/8", 1/2"
6"	over 1-1/2" incl.	1", 7/8", 3/4", 5/8", 1/2"
6"	over 1-1/2" to 2" incl.	1", 7/8", 3/4", 5/8"
<b>TYPE 11 FLARING CUP WHEELS</b>		
3-1/2" (overall)	up to 2" incl.	1", 7/8", 3/4", 5/8", 1/2"
4" (overall)	up to 2" incl.	1", 7/8", 3/4", 5/8", 1/2"
4-1/2" (overall)	up to 2" incl.	1", 7/8", 3/4", 5/8", 1/2"
5" (overall)	up to 2" incl.	1", 7/8", 3/4", 5/8", 1/2"
6" (overall)	up to 1-1/2" incl.	1", 7/8", 3/4", 5/8", 1/2"
6" (overall)	over 1-1/2" to 2" incl.	1", 7/8", 3/4", 5/8"

## Reducing Bushings

Radiac has a variety of reducing bushings ranging from 1/2" to 1" internal diameter. The bushings have an outside diameter of 1-1/4" to accommodate most tool room applications.

Vitrified wheels as thin as 1/4" may be bushed. Resin products may be bushed on wheels down to 3/32" thick. Resin wheels 1/8" and under must have a metal bushing in the arbor to accommodate the reducing bushings. In all cases, machine flanges must extend beyond the diameter of the bushing and bear on the sides of the wheel.



### FLANGES:

For safety reasons, it is important that the grinding wheel flanges bear on the sides of the grinding wheel and not on the bushing(s). Refer to your American National Standard ANSI-B7.1-1988, Section 5 regarding safety standard requirements for flanges.

## Wheel Speed Conversion Chart

Dia- meter of Wheel in Inches	Surface Speed in Feet Per Minute																	Dia- meter of Wheel in Inches		
	4,000	4,500	5,000	5,500	6,000	6,500	7,000	7,500	8,000	8,500	9,000	9,500	10,000	12,000	12,500	14,200	16,000		16,500	17,000
	Revolutions per Minute				Revolutions per Minute				Revolutions per Minute				Revolutions per Minute				Revolutions per Minute			
1	15,279	17,189	19,098	21,008	22,918	24,828	26,737	28,647	30,558	32,467	34,377	36,287	38,196	45,836	47,745	54,240	61,116	63,025	64,935	1
2	7,639	8,594	9,549	10,504	11,459	12,414	13,368	14,323	15,278	16,233	17,188	18,143	19,098	22,918	23,873	27,120	30,558	31,513	32,468	2
3	5,093	5,729	6,366	7,003	7,639	8,276	8,913	9,549	10,186	10,822	11,459	12,096	12,732	15,278	15,915	18,080	20,372	21,010	21,648	3
4	3,820	4,297	4,775	5,252	5,729	6,207	6,685	7,162	7,640	8,118	8,595	9,072	9,549	11,459	11,940	13,560	15,278	15,755	16,233	4
5	3,056	3,438	3,820	4,202	4,584	4,966	5,348	5,730	6,112	6,494	6,876	7,258	7,640	9,168	9,550	10,850	12,224	12,605	12,985	5
6	2,546	2,865	3,183	3,501	3,820	4,138	4,456	4,775	5,092	5,411	5,729	6,048	6,366	7,639	7,960	9,040	10,186	10,505	10,820	6
7	2,183	2,455	2,728	3,001	3,274	3,547	3,820	4,092	4,366	4,638	4,911	5,183	5,456	6,548	6,820	7,750	8,732	9,005	9,275	7
8	1,910	2,148	2,387	2,626	2,865	3,103	3,342	3,580	3,820	4,058	4,297	4,535	4,775	5,729	5,970	6,780	7,640	7,880	8,115	8
9	1,698	1,910	2,122	2,334	2,546	2,758	2,970	3,182	3,396	3,606	3,820	4,032	4,244	5,092	5,305	6,030	6,792	7,000	7,215	9
10	1,528	1,719	1,910	2,101	2,292	2,483	2,674	2,865	3,056	3,247	3,438	3,629	3,820	4,584	4,775	5,425	6,112	6,300	6,495	10
12	1,273	1,432	1,591	1,751	1,910	2,069	2,228	2,386	2,546	2,705	2,864	3,023	3,183	3,820	3,980	4,520	5,092	5,250	5,410	12
14	1,091	1,228	1,364	1,500	1,637	1,773	1,910	2,046	2,182	2,319	2,455	2,592	2,728	3,274	3,410	3,875	4,366	4,500	4,640	14
16	955	1,074	1,194	1,313	1,432	1,552	1,672	1,791	1,910	2,029	2,149	2,268	2,387	2,865	2,985	3,390	3,820	3,940	4,060	16
18	849	955	1,061	1,167	1,273	1,379	1,485	1,591	1,698	1,803	1,910	2,016	2,122	2,546	2,655	3,015	3,396	3,500	3,605	18
20	764	859	955	1,050	1,146	1,241	1,337	1,432	1,528	1,623	1,719	1,814	1,910	2,292	2,390	2,715	3,056	3,150	3,245	20
22	694	781	868	955	1,042	1,128	1,215	1,302	1,388	1,476	1,562	1,649	1,736	2,084	2,170	2,465	2,776	2,865	2,950	22
24	637	716	796	875	955	1,034	1,115	1,194	1,274	1,353	1,433	1,512	1,591	1,910	1,990	2,260	2,546	2,625	2,705	24
26	588	661	734	808	881	955	1,028	1,101	1,176	1,248	1,322	1,395	1,468	1,762	1,840	2,090	2,352	2,425	2,495	26
28	546	614	682	750	818	887	955	1,023	1,092	1,159	1,228	1,296	1,364	1,637	1,705	1,940	2,182	2,250	2,320	28
30	509	573	637	700	764	828	891	955	1,018	1,082	1,146	1,210	1,274	1,528	1,595	1,810	2,056	2,100	2,165	30
32	477	537	597	656	716	776	836	895	954	1,014	1,074	1,134	1,194	1,432	1,495	1,695	1,910	1,970	2,030	32
34	449	505	562	618	674	730	786	843	898	955	1,011	1,067	1,124	1,348	1,405	1,595	1,796	1,855	1,910	34
36	424	477	530	583	637	690	742	795	848	902	954	1,007	1,061	1,273	1,330	1,510	1,698	1,750	1,805	36
38	402	452	503	553	603	653	704	754	804	854	904	955	1,006	1,206	1,260	1,430	1,608	1,660	1,710	38
40	382	430	478	525	573	620	669	716	764	812	860	908	956	1,146	1,195	1,355	1,528	1,575	1,625	40
42	366	409	454	500	545	591	636	682	727	775	818	863	908	1,090	1,140	1,295	1,464	1,500	1,545	42
44	347	390	434	478	521	564	608	651	694	737	780	824	868	1,042	1,085	1,235	1,388	1,432	1,475	44
46	333	375	416	458	500	541	582	624	666	708	750	791	832	1,000	1,040	1,180	1,332	1,370	1,410	46
48	318	358	398	438	478	517	558	597	636	676	716	756	796	956	995	1,130	1,272	1,315	1,350	48
53	288	324	360	395	432	468	503	539	576	612	648	683	720	864	900	1,025	1,152	1,189	1,225	53
60	255	287	319	350	387	414	446	478	510	542	574	606	638	774	795	905	1,020	1,050	1,080	60
72	212	239	265	291	318	345	371	398	424	451	477	504	530	637	665	755	849	875	905	72

**Revolutions per minute for various diameters of grinding wheels to give surface speed in feet per minute as indicated.**

Note: "Centrifugal Force," which is the force that tends to rupture a given wheel when overspeeding, increases as the square of the velocity of that wheel. For example, the centrifugal force in a wheel running at 5,500 surface feet per minute is 49 percent greater than in the same wheel running at 4,500 surface feet per minute, although the speed is actually only 22 percent greater.

For intermediate diameters not listed use the formula listed in Section 1.2.10 page 3 of ANSI B7.1 (SFPM = .262 x wheel diam. in inches x r.p.m.) Note: SFPM ÷ 196.85 = M/S (meters per second).

For additional wheel safety information, please refer to inside back cover of catalog

**GRINDING WHEELS 1/2" to 2" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
1/2 x 1/2 x 1/8	1/S 1/4 x 1/4	5	RAA60-K8-V8	64940	D299489	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
	1/S 1/4 x 1/4	5	32A60-K5-VEQ	64940	D329653	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
1/2 x 1/2 x 1/4		1	RAA60-K8-V8	64940	D299490	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
5/8 x 1/2 x 1/4		1	32A60-K5-VEQ	51950	D329654	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
3/4 x 3/4 x 1/4	1/S 3/8 x 3/8	5	RAA60-K8-V8	43295	D299495	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
	1/S 3/8 x 3/8	5	RAA1002-K8-V8	43295	D299496	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 10 Rms Finish
	1/S 3/8 x 3/8	5	32A60-K5-VEQ	43295	D329656	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
	1/S 3/8 x 3/8	5	32A80-K5-VEQ	43295	D329657	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 12 Rms Finish
3/4 x 1 x 1/4		1	RAA60-K8-V8	43295	D299497	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
1 x .035 x 1/8		1	A60TB(F8)	61000	7315947	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
1 x 1/16 x 1/8		1	A60TB(F8)	61000	7315948	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
1 x 1/4 x 1/4		1	RAA60-K8-V8	32470	D299498	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
1 x 3/4 x 1/4	1/S 1/2 x 3/8	5	RAA60-K8-V8	32470	D299499	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
1 x 1 x 1/4	1/S 1/2 x 1/2	5	RAA60-K8-V8	32470	D299500	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
	1/S 1/2 x 1/2	5	RAA1002-K8-V8	32470	† D299501	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 10 Rms Finish
	1/S 1/2 x 1/2	5	32A60-K5-VEQ	32470	D329659	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
1 x 1 x 3/8		1	32A60-K5-VEQ	32470	D329658	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
	1/S 1/2 x 1/2	5	RAA60-K8-V8	32470	D299502	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
	1/S 1/2 x 1/2	5	32A60-K5-VEQ	32470	D324193	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
1-1/4 x 1 x 3/8	1/S 5/8 x 1/2	5	32A60-K5-VEQ	25975	D329660	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
	1/S 5/8 x 1/2	5	RA60-L5-V8	19865	F020575	Small Wheel	Hardened Steel - Good Finish
1-1/2 x .035 x 1/8		1	A60TB(F8)	45000	7315954	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
1-1/2 x 1/16 x 1/8		1	A36TB(F8)	45000	7315950	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
1-1/2 x 1/16 x 1/4		1	A36TB(F8)	45000	7315951	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
1-1/2 x 1/8 x 1/8		1	A60TB(F8)	45000	7315958	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
1-1/2 x 5/8 x 5/16		1	C24-Q5-VL	16555	A081264	Wheel Dresser	For Aluminum Oxide Wheels
1-1/2 x 1 x 3/8	1/S 5/8 x 1/2	5	RAA60-K8-V8	21650	D299503	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
	1/S 3/4 x 1/2	5	32A60-K5-VEQ	21650	D329661	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
1-1/2 x 2 x 3/8-24 THD 1DP							
	B/P 29122	16	A24PB	24000	† 7316027	Snagging Cone	Steel Castings and Welds - Fast Cutting
1-1/2 x 2-1/2 x 5/8-11THD 1DP							
	B/P 29123	16	A24PB	24000	7316028	Snagging Cone	Steel Castings and Welds - Fast Cutting
1-1/2 x 3 x 3/8-24THD 1DP							
	B/P 29123	16	A24PB	24000	7316028	Snagging Cone	Steel Castings and Welds - Fast Cutting
	B/P 29123	16	A16PB	24000	7316026	Snagging Cone	Very Aggressive Grinding, Heavy Stock Removal
2 x .035 x 1/4		1	A60TB(F8)	30000	7315968	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
2 x .035 x 3/8		1	A60TB(F8)	30000	7315969	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
2 x 1/16 x 1/4		1	A36TB(F8)	30000	7315960	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A46TB(F8)	30000	† 7315964	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
		1	A60TB(F8)	30000	7315970	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
2 x 1/16 x 3/8		1	A36TB(F8)	30000	7315961	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
2 x 1/8 x 1/4		1	A36TB(F8)	30000	7315962	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A60TB(F8)	30000	7315972	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
2 x 1/8 x 3/8		1	A46TB(F8)	30000	7315967	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
		1	A60TB(F8)	30000	7315973	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
2 x 3/16 x 3/8		1	A24TB(F8)	30000	7315906	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
2 x 1/4 x 1/4		1	A24TB(F8)	30000	7315908	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
		1	A36TB(F8)	30000	7315909	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
		1	WA80-K5-V8	12415	A329719	Tool & Cutter	Hardened Steel - Fine Finish

1-800-851-1095

## 2" to 3" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
2 x 1/4 x 1/4		1	RAA60-K8-V8	16235	D299504	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
		1	RAA1002-K8-V8	16235	D299505	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 10 Rms Finish
2 x 3/8 x 3/8		1	A24TB(F8)	27000	7315914	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
		1	A36TB(F8)	27000	7315915	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
2 x 1/2 x 1/4		1	A36TB(F8)	27000	7315917	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
2 x 1/2 x 3/8		1	A24TB(F8)	27000	7315918	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
		1	A36TB(F8)	27000	7315919	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
		1	RAA60-K8-V8	16235	D299506	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
2 x 1 x 3/8	1/S 1 x 1/2	5	RAA60-K8-V8	16235	D277704	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
		5	RAA1002-K8-V8	16235	D299507	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 10 Rms Finish
		5	32A60-K5-VEQ	16235	D329663	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
		5	32A60-K5-VEQ	16235	D329664	Internal Grinding	Bearing & High Carbon Steels > 35 Rc - 16 Rms Finish
2 x 1-1/2 x 5/8	1/S 1 x 3/4	5	RAA60-K8-V8	16235	D299508	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
2 x 3 x 5/8-11 1DP	B/P 29126	16	A24PB	18000	7316034	Snagging Cone	Steel Castings and Welds - Fast Cutting
2 x 3 x 5/8-11 1DP		18	A24PB	18000	7316042	Snagging Plug	Steel Castings and Welds - Fast Cutting
2-1/2 x 1-1/2 x 3/8	1/S 1-1/4 x 3/4	5	RAA60-K8-V8	12990	D299510	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
2-3/4 x 3-1/2 x 5/8-11THD-1DP	B/P 29127	16	A16PB	13200	7316035	Snagging Cone	Very Aggressive Grinding, Heavy Stock Removal
3 x .035 x 1/4		1	A60TB(F8)	25000	7316088	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
3 x .035 x 3/8		1	A60TB(F8)	25000	T316089	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
3 x 1/32 x 3/8		1	HP-857	25100	T429308	Reinforced Cut-Off	High Performance - Long Life - Ceramic
3 x 1/16 x 1/4		1	A36TB(F8)	20375	7315990	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A46TB(F8)	25000	7315994	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
		1	A60TB(F8)	25000	7316090	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
3 x 1/16 x 3/8		1	A36TB(F8)	25000	7315991	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A46TB(F8)	25000	7315995	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
		1	A60TB(F8)	20375	7316091	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
		1	HP-707	25100	T429309	Reinforced Cut-Off	High Performance - Long Life - Ceramic
3 x 1/8 x 1/4		1	A36TB(F8)	25000	7315992	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A60TB(F8)	25000	7316092	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
3 x 1/8 x 3/8		1	A24TB(F8)	25000	7315989	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast, Aggressive Cutting, Long Life
		1	A36TB(F8)	25000	7315993	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A46TB(F8)	25000	7316087	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
		1	A60TB(F8)	25000	7316093	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
3 x 1/4 x 1/4		1	A24TB(F8)	23000	7315924	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
		1	A36TB(F8)	23000	7315925	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
3 x 1/4 x 3/8		1	A24TB(F8)	23000	7315926	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
		1	A36TB(F8)	23000	7315927	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
3 x 3/8 x 1/4		1	A36TB(F8)	18000	T315929	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
3 x 3/8 x 3/8		1	A36TB(F8)	18000	7315931	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
3 x 1/2 x 3/8		1	A24TB(F8)	18000	7315934	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
		1	RAA60-K8-V8	10825	D299512	Internal Grinding	High Carbon 52100, Chromium, & Nickel Alloys - 16 Rms Finish
3 x 1/2 x 1/2		1	A60-M5-V1	8280	A088560	Small Wheel	Soft Annealed Steel
		T1	C60-M5-VL	8280	A402347	Wheel Dresser	Brake Dress Wheel - For Truing Diamond Wheels
		T1	C60-M5-VL	8280	A303890	Wheel Dresser	Brake Dress Wheel - For Truing Diamond Wheels
3 x 1 x 1/2		T1	C80-M5-VL	8280	A388820	Wheel Dresser	Brake Dress Wheel - For Truing Diamond Wheels
		1	WA60-M8-V8	8280	A321264	Wheel Dresser	Brake Dress Wheel - For Truing CBN & Diamond Wheels
3/2-1/4 x 1-1/4 x 3/4	1/4R 3/8B B/P 2009	11	32A60-K5-VEQ	7640	F325041	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish

**GRINDING WHEELS 3" to 4" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
3/2-1/4 x 1-1/4 x 3/4	1/4R 3/8B B/P 2009	11	RA60-J5-V8	7640	F098310	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
3 x 3 x 5/8-11 1DP		18	A16PB	12000	7316045	Snagging Plug	Very Aggressive Grinding, Heavy Stock Removal
3-1/2 x 3/8 x 1/2	1/S 2-1/2 x 1/8	5	WA46-J5-V8	7095	F102512	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
	1/S 2-1/2 x 1/8	5	RA46-J5-V8	7095	F191876	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
3-1/2 x 1-1/2 x 7/8	B/P 1490	99	C30-Q5-VL	0	F081418	Wheel Dresser	Metcalf - For Aluminum Oxide Wheels
3-1/2-3/4 x 1-1/2 x 1-1/4							
	1/4R 3/8B B/P 1958	11	WA60-J5-V8	6550	F141836	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	1/4R 3/8B B/P 1958	11	32A60-K5-VEQ	6550	F322192	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish
	1/4R 3/8B B/P 1958	11	WRA46-K5-V8	6550	F816698	Tool & Cutter	Hardened Steels - 32 Rms Finish - Good Durability
	1/4R 3/8B B/P 1958	11	WRA60-J5-V8	6550	F753548	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	1/4R 3/8B B/P 1958	11	RA60-I800-VOS	6550	M299745	Tool & Cutter	Hardened Steel - Better Finish - Heavy Downfeed
	1/4R 3/8B B/P 1958	11	RA60-J5-V8	6550	F098345	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
4 x .035 x 1/4		1	A60TB(F8)	15280	7316104	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
4 x .035 x 3/8		1	A60TB(F8)	15280	7316105	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
4 x 1/32 x 3/8		1	HP-857	20140	T429306	Reinforced Cut-Off	High Performance - Long Life - Ceramic
4 x 1/16 x 1/4		1	A36TB(F8)	19000	7316096	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A46TB(F8)	19000	7316100	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
		1	A60TB(F8)	19000	T316106	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
4 x 1/16 x 3/8		1	A36TB(F8)	19000	7316097	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A46TB(F8)	19000	7316101	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
		1	A60TB(F8)	19000	7316107	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
		1	HP-707	20140	T429307	Reinforced Cut-Off	High Performance - Long Life - Ceramic
4 x 1/16 x 5/8		1	A36TB(F8)	19000	7316098	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
4 x 1/8 x 3/8		1	A24TB(F8)	19000	7316095	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast, Aggressive Cutting, Long Life
		1	A36TB(F8)	19000	T316099	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A60TB(F8)	19000	T316109	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
4 x 1/8 x 5/8		27	A24TB(F)	13560	7316212	Depressed Center	Fast Stock Removal - Weld Applications
4 x 3/16 x 3/8		1	A36TB(F8)	19000	7315939	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
4 x 1/4 x 1/2		1	RA60-J5-V8	6210	A098370	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish
4 x 1/4 x 5/8		27	A24TB(F)	13560	7316213	Depressed Center	Fast Stock Removal - Weld Applications
		27	YNB24-R-B(F)	15300	† 7320428	Depressed Center	High Performance - Long Life - Zirconia
4 x 1/2 x 3/8		1	A24TB(F8)	13500	7315997	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Aggressive Grinding, Long Life
		1	A36TB(F8)	13500	T315998	Reinforced Cut-Off	Electric/Air Driven Die Grinder - Rapid Grinding, Exc. Finish
4 x 1/2 x 1/2		1	A46-M5-V1	6210	† A088846	Tool Room Wheel	Soft Annealed Steel
		1	A60-M5-V1	6210	A088854	Tool Room Wheel	Soft Annealed Steel
		1	32A46-K5-VEQ	6210	A325042	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
4 x 1/2 x 3/4		1	32A60-K5-VEQ	6210	A325043	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	WRA60-K5-V8	6210	A824607	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold
		1	RA60-J8-V8	6210	A135895	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish
4 x 1/2-5/16 x 3/4	B/P 2002	12	32A60-J5-VEQ	6210	F329665	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish
	B/P 2002	12	32A60-K5-VEQ	6210	F329666	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish
4 x 1 x 1/2		1	WA60-M8-V8	6210	A329720	Wheel Dresser	Brake Dress Wheel - For Truing CBN & Diamond Wheels
4/3 x 1-1/2 x 1-1/4	1/4R 1/2B B/P 2012	11	WA46-J5-V8	5730	F102733	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
	1/4R 1/2B B/P 2012	11	WA60-J5-V8	5730	F102768	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	1/4R 1/2B B/P 2012	11	WA60-K5-V8	5730	F102776	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	1/4R 1/2B B/P 2012	11	WA80-K5-V8	5730	F102814	Tool & Cutter	Hardened Steel - Fine Finish - Light Downfeed
	1/4R 1/2B B/P 2012	11	9A46-I2(H800)VOS	5730	M105	Tool & Cutter	Hardened Steel - Good Finish - Light Downfeed
	1/4R 1/2B B/P D1534	11	RAA60-J2(H+800)VOS	5730	M005	Tool & Cutter	M-2, M-7, M42, & Chromium Alloys - 16 Rms - Open Structure
	1/4R 1/2B B/P 2012	11	GC60-I5-VL	5730	F107557	Sharpening	Rough Grind - Carbide Sharpening

1-800-851-1095

## 4" to 5" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
4/3 x 1-1/2 x 1-1/4	1/4R 1/2B B/P 2012	11	32A46-K5-VEQ	5730	F320718	Tool & Cutter	High Speed Tool Steel - Aggressive Removal - 32 Rms Finish
	1/4R 1/2B B/P 2012	11	32A60-J5-VEQ	5730	F320719	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish
	1/4R 1/2B B/P 2012	11	32A60-K5-VEQ	5730	F320720	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish
	1/4R 1/2B B/P 2012	11	WRA46-J5-V8	5730	F671908	Tool & Cutter	Hardened Steel - Good Finish - Medium Downfeed
	1/4R 1/2B B/P 2012	11	WRA60-J5-V8	5730	F671924	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	1/4R 1/2B B/P 2012	11	WRA60-K5-V8	5730	F671932	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	1/4R 1/2B B/P 2012	11	RA46-J5-V8	5730	F098540	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
4/3 x 1-1/2 x 1-1/4	1/4R 1/2B B/P 2012	11	RA60-I800-VOS	5730	M297263	Tool & Cutter	Hardened Steel - Better Finish - Heavy Downfeed
	1/4R 1/2B B/P 2012	11	RA60-J5-V8	5730	F098574	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
	1/4R 1/2B B/P 2012	11	RA60-K5-V8	5730	F300454	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
	1/4R 1/2B B/P 2012	11	8BP60-J8-V8	5730	F323155	Tool & Cutter	Ceramic Abr. - Cool Cut, Long Life - Stls > 35 Rc - 16 Rms Finish
1/4R 1/2B B/P 2012	11	8BP60-L8-V8	5730	F323156	Tool & Cutter	Hardened Steel - Better Finish - Ceramic Abrasive	
4 x 1-1/2 x 1-1/2		1	C30-Q5-VL	6210	A081485	Wheel Dresser	For Aluminum Oxide Wheels
4/3 x 2 x 5/8-11	1R 3/4B B/P 15521	11	A24-R4-B10	9075	U302074	Snagging Cup	Steel Castings & Welds
	1R 3/4B B/P 29117	11	C16PB	7250	7316069	Snagging Cup	Non-Ferrous Applications - Aluminum, Brass & Bronze Castings
4 x 2 x 20MM	3/8R 3/8B	6	9A802-J14-V35	5730	F004	Drill Grinding	Deckel - H.S.S. ( M-2, M-7, & M-42 Mat I ) Good Finish
4-1/2 x 1/16 x 7/8		1	A36TB(F8)	13500	T316110	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A60TB(F8)	13500	7316113	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
4-1/2 x 3/32 x 7/8		1	A36TB(F8)	13500	7316111	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
4-1/2 x 1/8 x 5/8-11		27	A24TB(F)	13000	7316216	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	13300	7425086	Depressed Center	High Performance - Weld Applications
4-1/2 x 1/8 x 7/8		1	A36TB(F8)	13500	7316112	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		27	A24TB(F)	13300	7316214	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	13300	7425085	Depressed Center	High Performance - Weld Applications
4-1/2 x 1/4 x 5/8-11		27	A24TB(F)	13300	7316217	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	13300	7425088	Depressed Center	High Performance - Weld Applications
4-1/2 x 1/4 x 7/8		27	A24TB(F)	13000	7316215	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	13300	7425087	Depressed Center	High Performance - Weld Applications
4-1/2/2 x 1 x 5/8-SQ	1/2R 1/2B B/P 2696	11	SA46-I-V8	5095	F720070	Saw Sharpening	Jockey - Gumming of High Carbon Stl - Med Feed - Good Form
4-1/2/2 x 1 x 5/8-SQ	1/2R 1/2B B/P 2696	11	SA46-J5-V8	5095	F011258	Saw Sharpening	Jockey - Gumming of High Carbon Stl - Med Feed - Good Form
	1/2R 1/2B B/P 2696	11	WA46-J5-V8	5095	F329347	Saw Sharpening	Jockey - High Carbon Saw Steel - Light Feeds - Very Cool Cutting
	1/2R 1/2B B/P 2696	11	WRA601-J5-V8	5095	F741817	Saw Sharpening	Jockey - High Carbon Saw Steel - Med. Feed - Good Form Hold
	1/2R 1/2B B/P 2696	11	RA46-J5-V8	5095	F342190	Saw Sharpening	Jockey - Tough Ruby Abrasive
4-1/2/3-3/4 x 2 x 1-1/4	1/4R 1/2B B/P 2013	11	RA46-J5-V8	5095	F098663	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
5 x .035 x 5/8		1	A60TB(F8)	12200	T316127	Reinforced Cut-Off	Hi-Speed Die Grinder - Fine Finish, Burr Free, Tubing
5 x 1/16 x 7/8		1	A36TB(F8)	12200	T316117	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		1	A46TB(F8)	12200	T316124	Reinforced Cut-Off	Hi-Speed Die Grinder - Smooth Finish, Hardened Sheet Steel
5 x 1/8 x 5/8-11		27	ZA24-TB	12000	7425090	Depressed Center	High Performance - Weld Applications
5 x 1/8 x 7/8		1	A36TB(F8)	12200	7316120	Reinforced Cut-Off	Hi-Speed Die Grinder - Fast Cutting, Good Life
		27	A24TB(F)	10850 †	7316218	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	12000	7425089	Depressed Center	High Performance - Weld Applications
5 x 1/4 x 5/8-11		27	ZA24-TB	12000	7425092	Depressed Center	High Performance - Weld Applications
5 x 1/4 x 7/8		27	A24TB(F)	12000	7316219	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	12000	7425091	Depressed Center	High Performance - Weld Applications
5 x 1 x 3-1/2	B/P 16434	53	WA60-J5-V8	4585	J203807	Drill Grinding	Sellers - Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
5 x 1-1/2 x 1-1/4	3/8R 3/8B B/P 2021	6	WA60-K5-V8	4585	F102890	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	3/8R 3/8B B/P 2021	6	WRA46-K5-V8	4585	F584282	Tool & Cutter	Hardened Steels - 32 Rms Finish - Good Durability
	3/8R 3/8B B/P 2021	6	WRA60-J5-V8	4585	F618608	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	3/8R 3/8B B/P 2021	6	WRA60-K5-V8	4585	F610348	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold

**GRINDING WHEELS 5" to 6" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
5 x 1-1/2 x 1-1/4	3/8R 3/8B B/P 2021	6	RA46-J5-V8	4585	F156744	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
	3/8R 3/8B B/P 2021	6	RA60-J5-V8	4585	F098680	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
5/3-3/4 x 1-3/4 x 1-1/4	1/4R 1/2B B/P 2014	11	WA46-J5-V8	4585	F880213	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
	1/4R 1/2B B/P 2014	11	WA46-K5-V8	4585	F103039	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
	1/4R 1/2B B/P 2014	11	WA60-J5-V8	4585	F103020	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	1/4R 1/2B B/P 2014	11	WA60-K5-V8	4585	F300403	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	1/4R 1/2B B/P D1536	11	RAA602-I14-VA3	4585	F001	Tool & Cutter	M-2, M-7, M42, & Chromium Alloys - 16 Rms - Good Form
	1/4R 1/2B B/P 2014	11	32A46-J5-VEQ	4585	F320722	Tool & Cutter	High Speed Tool Steel - Aggressive Removal - 32 Rms Finish
	1/4R 1/2B B/P 2014	11	32A60-K5-VEQ	4585	F320723	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish
	1/4R 1/2B B/P 2014	11	WRA46-J5-V8	4585	F734349	Tool & Cutter	Hardened Steel - Good Finish - Medium Downfeed
	1/4R 1/2B B/P 2014	11	WRA46-K5-V8	4585	F747726	Tool & Cutter	Hardened Steels - 32 Rms Finish - Good Durability
	1/4R 1/2B B/P 2014	11	WRA60-J5-V8	4585	F713554	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	1/4R 1/2B B/P 2014	11	WRA60-K5-V8	4585	F753513	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	1/4R 1/2B B/P 2014	11	RA46-J5-V8	4585	F024791	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
	1/4R 1/2B B/P 2014	11	RA60-I800-VOS	4585	M299754	Tool & Cutter	Hardened Steel - Better Finish - Heavy Downfeed
	1/4R 1/2B B/P 2014	11	RA60-J800-VOS	4585	M299755	Tool & Cutter	Hardened Steel - Better Finish - Heavy Downfeed
1/4R 1/2B B/P 2014	11	RA60-J5-V8	4585	F098701	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish	
1/4R 1/2B B/P 2014	11	8BP60-K8-V8	4585	F323157	Tool & Cutter	Ceramic Abr. - Cool Cut, Long Life - Stls > 35 Rc - 16 Rms Finish	
5/4 x 2 x 5/8-11	1-1/4R 3/4B B/P 29118	11	A16QB	7250	7316065	Snagging Cup	Very Aggressive Grinding, Steel & Ferrous Metals
5/4 x 2 x 5/8-11S	1-1/4R 3/4B B/P 29119	11	A16QB	7250	7316066	Snagging Cup	Very Aggressive Grinding, Steel & Ferrous Metals
	1-1/4R 3/4B B/P 29119	11	CA16PB	7250	7316179	Snagging Cup	Gray and Ductile Iron - Castings Impregnated with Sand and Scale
	1-1/4R 3/4B B/P 29119	11	C16PB	7250	7316071	Snagging Cup	Non-Ferrous Applications - Aluminum, Brass & Bronze Castings
5-7/8 x 1-1/2 x 50MM	1-11/32R 1/2B 42-1/4 deg. bvd bk B/P 23519	6	WA60-J5-V8	3820	F025062	Drill Grinding	Select-O-Point - H.S.S. (M-2, M-7, & M-42 Mat I) - Good Finish
		1	A60-O5-B20F8	10190	T566365	Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
6 x 1/32 x 1/2	1	A70-O5-B20	7639	S112321	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
		A70-P6-B20	7639	7076465	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
6 x .035 x 1/2	1	A60TB(F8)	10200	T315863	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
6 x .035 x 5/8	1	A60TB(F8)	10200	7315864	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
6 x .035 x 1-1/4	1	A60-O5-B20F8	10186	7935832	Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
6 x 1/16 x 1/2	1	A46-P5-B20	7639	S076600	Non-Reinforced Cut-Off	Tool Room - General Purpose	
		A70-O5-B20	7639	S076708	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
6 x 1/16 x 1/2	1	A60TB(F8)	10200	T315865	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
6 x 1/16 x 5/8	1	A36TB(F8)	10200	7315858	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life	
		A46TB(F8)	10200	7315862	Reinforced Cut-Off	Bench Top Chop Saw - Smooth Finish, Good Cutting	
6 x 1/16 x 1-1/4	1	A54-N6-B20	7639	7131172	Non-Reinforced Cut-Off	Tool Room - General Purpose	
6 x 3/32 x 1-1/4	1	A70-O5-B20	9040	7159468	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
6 x 1/8 x 1/2	1	A36TB(F8)	10200	7315859	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
		A60TB(F8)	10200	7315867	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
6 x 1/8 x 5/8	1	A36TB(F8)	10200	7315860	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life	
		A60TB(F8)	10200	7315868	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
6 x 1/8 x 1-1/4	1	A46-P5-B20	9040	S076813	Non-Reinforced Cut-Off	Tool Room - General Purpose	
		A465-O5-B20	9040	S076880	Saw Sharpening	Saw Gumming - Resin Bonded Wheels	
6 x 1/4 x 1-1/4	1	A46-M5-V1	4140	A089729	Tool Room Wheel	Soft Annealed Steel	
		A60-M5-V1	4140	A089753	Tool Room Wheel	Soft Annealed Steel	
		WA60-K-V8	4140	A027294	Tool Room Wheel	Hardened Steel - Better Finish - Light Downfeed	
		WA80-K-V8	4140	A612901	Tool Room Wheel	Hardened Steel - Fine Finish - Light Downfeed	
		WA100-K5-V8	4140	A300629	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .008 R	



1-800-851-1095

## 6" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
6 x 1/4 x 1-1/4		1	GC120-J5-VL	4140	A107670	Sharpening	Finish Grind - Carbide
		1	32A60-K5-VEQ	4140	A325046	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	RA46-J5-V8	4140	A098736	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-J5-V8	4140	A098850	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish
		1	RA80-J5-V8	4140	A025399	Tool Room Wheel	High Carbon / Chrome - Gen Forms > .010 R - 12 Rms Finish
		1	RA80-L5-V8	4140	A025500	Tool Room Wheel	High Carbon / Chrome - Gen Forms > .010 R - 12 Rms Finish
		1	RA120-L6-V8	4140	A006416	Tool Room Wheel	High Carbon / Chrome - Fine Forms > .005 R - 8 Rms Finish
6 x 1/2 x 1-1/4		1	A46-M5-V1	4140	A001708	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	4140	A003271	Bench & Pedestal	Aluminum Oxide - Fine
		1	A80-M5-V1	4140	A001643	Bench & Pedestal	Aluminum Oxide - Very Fine
		1	WA46-J8-V8	4140	A102970	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA60-J8-V8	4140	A102954	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA60-K5-V8	4140	A102946	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .016 R
		1	WA80-J8-V8	4140	A184527	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish
		1	WA120-K8-V8	4140	A103144	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 8 Rms Finish
		1	GC60-J5-VL	4140	A107689	Sharpening	Rough Grind - Carbide
		1	GC60-J5-VL	4140	A008931	Sharpening	Rough Grind - Carbide
		1	GC80-J5-VL	4140	A107700	Sharpening	Medium Grind - Carbide
		1	GC120-J5-VL	4140	A107719	Sharpening	Finish Grind - Carbide
		1	32A60-J8-VEQ	4140	A322101	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-K8-VEQ	4140	A322102	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
	1	WRA60-K8-V8	4140	A795798	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish	
	1	RA46-H800-VOS	4140	K299757	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure	
6 x 1/2 x 1-1/4		1	RA46-J8-V8	4140	A098779	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-H800-VOS	4140	K299759	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-J8-V8	4140	A098795	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	RA80-J8-V8	4140	A006610	Surface Grinding	High Carbon / Chrome - Heavy Feed - Gen Forms > .010 R
6 x 1/2/5/16 x 1-1/4	B/P 2005	12	WA46-K5-V8	4140	F903191	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
	B/P 2005	12	WA60-J5-V8	4140	F103179	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	B/P 2005	12	32A60-K5-VEQ	4140	F322195	Tool & Cutter	High Speed Tool Steels - Aggressive Removal - 16 Rms Finish
	B/P 2005	12	WRA46-K5-V8	4140	F812226	Tool & Cutter	Hardened Steels - 32 Rms Finish - Good Durability
	B/P 2005	12	WRA60-J5-V8	4140	F767182	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	B/P 2005	12	WRA60-K5-V8	4140	F762970	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	B/P 2005	12	RA46-J5-V8	4140	F098833	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
	B/P 2005	12	RA60-J5-V8	4140	F098868	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
6 x 3/4 x 1		1	C60-G8-V4	4140	A316376	Bench & Pedestal	Rough Grind - Carbide
6 x 3/4 x 1-1/4		1	A36-M5-V1	4140	A089850	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A36-O5-V1	4140	A089869	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	4140	A089982	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	4140	A090158	Bench & Pedestal	Aluminum Oxide - Fine
		1	A80-M5-V1	4140	A090018	Bench & Pedestal	Aluminum Oxide - Very Fine
		1	A120-M6-V1	4140	A090034	Bench & Pedestal	Aluminum Oxide - Very Fine
		1	WA60-J8-V8	4140	A103233	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	9A60-N2(K800F)VOS	4140	K001	Surface Grinding	Hardened Steel - Better Finish - Light Downfeed
		1	9A100-N2(K800)VOS	4140	K002	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 10 Rms Finish
		1	GC60-J5-VL	4140	A107735	Sharpening	Rough Grind - Carbide
		1	GC80-J5-VL	4140	A107751	Sharpening	Medium Grind - Carbide
		1	GC100-H11-VL	4140	K005932	Sharpening	Medium Grind - Carbide
		1	GC100-J5-VL	4140	A184187	Sharpening	Medium Grind - Carbide

**GRINDING WHEELS 6" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
6 x 3/4 x 1-1/4		1	GC120-G8-V4	4140	A318649	Sharpening	Finish Grind - Carbide
		1	GC120-J5-VL	4140	A107778	Sharpening	Finish Grind - Carbide
		1	RA46-J8-V8	4140	A098817	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-H800-VOS	4140	K292919	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-J8-V8	4140	A098825	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
6 x 3/4/3/8 x 1-1/4	B/P 2006	12	WA46-J5-V8	4140	F300772	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
	B/P 2006	12	WA60-J5-V8	4140	F103284	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	B/P D1545	12	RAA60-J2(H+800)VOS	4140	M008	Tool & Cutter	M-2, M-7, M42, & Chromium Alloys - 16 Rms - Open Structure
	B/P 2006	12	WRA60-K5-V8	4140	F638447	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	B/P 2006	12	RA46-J5-V8	4140	F099015	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
	B/P 2006	12	RA60-J5-V8	4140	F098884	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
6 x 1 x 5/8		1	A24-P4-B10	6050	Q077151	Snagging Wheel	Steel Castings & Welds
		1	CA16-P4-B10	6050	Q302015	Snagging Wheel	Iron & Steel Castings
6 x 1 x 1-1/4		1	A36-M5-V1	4140	A090140	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A36-O5-V1	4140	A090182	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	4140	A090166	Bench & Pedestal	Aluminum Oxide - Medium
6 x 1 x 1-1/4		1	A60-M5-V1	4140	A090352	Bench & Pedestal	Aluminum Oxide - Fine
		1	A80-M5-V1	4140	A090247	Bench & Pedestal	Aluminum Oxide - Very Fine
		1	A100-N5-V1	4140	A090360	Bench & Pedestal	Aluminum Oxide - Very Fine
		1	GC60-J5-VL	4140	A107794	Sharpening	Rough Grind - Carbide
		1	GC80-J5-VL	4140	A107808	Sharpening	Medium Grind - Carbide
		1	GC120-J5-VL	4140	A107824	Sharpening	Finish Grind - Carbide
6 x 1 x 4		1	RA46-J8-V8	4140	A098914	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-J8-V8	4140	A098930	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
	B/P 16423	53	WA46-K5-V8	3820	J096342	Plate Mtd Tool Sharpen	Hi-Speed Steel Baldor, Delta, Hammond
	B/P 16423	53	GC60-J14-VL	3820	J067830	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - Rough Grind - Carbide
	B/P 16423	53	GC80-J14-VL	3820	J096440	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - Medium Grind - Carbide
	B/P 16423	53	GC100-I14-VL	3820	J096458	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - Medium Grind - Carbide
	B/P 16423	53	GC120-J14-VL	3820	J096474	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - Finish Grind - Carbide
6 x 1-1/4 x 1-1/4		53	32A60-J5-VEQ	3820	J329668	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - Hi-Speed Steel
	1/S 3-1/2 x 5/8	5	9A60-N2(K800)VOS	4140	M933	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
	1/S 3-1/2 x 5/8	5	9A100-N2(K800)VOS	4140	† M934	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 10 Rms Finish
6 x 1-1/2 x 1-1/4	1/2R 1/2B	6	WA60-J5-V8	3820	F050326	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
	1/2R 1/2B	6	WRA46-K5-V8	3820	F817600	Tool & Cutter	Hardened Steels - 32 Rms Finish - Good Durability
	1/2R 1/2B	6	WRA60-K5-V8	3820	F817619	Tool & Cutter	Hardened Steels - 16 Rms Finish - Good Form Hold
	1/2R 1/2B	6	RA46-J5-V8	3820	F098949	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
	1/2R 1/2B	6	RA60-J5-V8	3820	F098957	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
6 x 1-1/2 x 4	B/P 17070	53	A46-I5-V1	3820	J010146	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - General Purpose
	B/P 17070	53	GC60-J14-VL	3820	J005266	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - Rough Grind - Carbide
	B/P 17070	53	GC120-I14-VL	3820	J005240	Plate Mtd Tool Sharpen	Baldor, Delta, Hammond - Finish Grind - Carbide
6/3 x 2 x 1-1/4	1/2R 1/2B B/P 26876	11	WRA46-J5-V8	3820	F881686	Tool & Cutter	Hardened Steel - Good Finish - Medium Downfeed
6/4-1/2 x 2 x 1-1/4	3/8R 1/2B B/P 2015	11	WA46-K5-V8	3820	F103411	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
	3/8R 1/2B B/P 2015	11	RA46-I800-VOS	3820	M299773	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
	3/8R 1/2B B/P 2015	11	RA46-J5-V8	3820	F098981	Tool & Cutter	Hardened Steel - Good Finish - Heavy Downfeed
6/4-3/4 x 2 x 5/8-11	1-1/2R 3/4B B/P 29120	11	A16QB	6050	7316067	Snagging Cup	Very Aggressive Grinding, Steel & Ferrous Metals
	1-1/2R 3/4B B/P 29120	11	CA16PB	6050	7316180	Snagging Cup	Gray and Ductile Iron - Castings Impregnated with Sand and Scale
	1-1/2R 3/4B B/P 29120	11	C16PB	6050	7316072	Snagging Cup	Non-Ferrous Applications - Aluminum, Brass & Bronze Castings
	1-1/2R 3/4B B/P 1418311		A16-R4-B10	6050	U077348	Snagging Cup	Steel Castings & Welds

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## 6" to 7" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
6/4-3/4 x 2 x 5/8-11	1-1/2R 3/4B B/P 1418311	11	A24-P4-B10	6050	U367338	Snagging Cup	Steel Castings & Welds
			CA16-P4-B10	6050	U152382	Snagging Cup	Iron & Steel Castings
6/4-3/4 x 2 x 5/8-11S	1-1/2R 3/4B B/P 29121	11	A16QB	6050	7316068	Snagging Cup	Very Aggressive Grinding, Steel & Ferrous Metals
			CA16PB	6050	7316181	Snagging Cup	Gray and Ductile Iron - Castings Impregnated with Sand and Scale
			C16PB	6050	7316073	Snagging Cup	Non-Ferrous Applications - Aluminum, Brass & Bronze Castings
6/3-3/4 x 2-1/2 x 1-1/4	1/2R 3/4B B/P 13173	11	WA46-I5-V8	3820	F103500	Tool & Cutter	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
6-1/2 x 1-1/2/3/4 x 1-1/4	B/P 1921	12	WA46-J5-V8	3820	F103357	Saw Sharpening	High Carbon Saw Steel - Light Feeds - Very Cool Cutting
7 x 1/32 x 1-1/4		1	A60-M8-B1	6548	S369	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A602-P6-B1	6548	S002	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A70-M5-B20	6550	S104450	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A70-O5-B20	8735	S077461	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A70-P6-B20	7750	7077437	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
7 x .035 x 1/2		1	A60TB(F8)	8500	7315877	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing
7 x .035 x 5/8		1	A60TB(F8)	8740	7315878	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing
7 x .035 x 1-1/4		1	A60-P5-B20F8	8735	T833703	Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A60TB(F8)	8740	7315879	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing
7 x 1/16 x 1/2		1	A46-P5-B20	6548	7077550	Non-Reinforced Cut-Off	Tool Room - General Purpose
			A36TB(F8)	8740	7315869	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life
			A46TB(F8)	8740	7315874	Reinforced Cut-Off	Bench Top Chop Saw - Smooth Finish, Good Cutting
			A60TB(F8)	8740	7315880	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing
7 x 1/16 x 5/8		1	A36TB(F8)	8735	7315870	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life
			A46TB(F8)	8740	7315875	Reinforced Cut-Off	Bench Top Chop Saw - Smooth Finish, Good Cutting
			A60TB(F8)	8740	7315881	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing
7 x 1/16 x 1-1/4		1	A46-M8-B1	6550	7S025	Non-Reinforced Cut-Off	Tool Room - General Purpose
			A46-P5-B20	7750	S077569	Non-Reinforced Cut-Off	Tool Room - General Purpose
			A602-P6-B1	8735	7S003	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A70-M5-B20	6548	S129275	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A70-O5-B20	7750	S077631	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			A36TB(F8)	8735	7315871	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life
			A46TB(F8)	8740	7315876	Reinforced Cut-Off	Bench Top Chop Saw - Smooth Finish, Good Cutting
			A60TB(F8)	8740	7315882	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing
7 x 3/32 x 1-1/4		1	A46-P5-B20	8735	S054291	Non-Reinforced Cut-Off	Tool Room - General Purpose
7 x 1/8 x 5/8		1	A36TB(F8)	8740	7315873	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life
7 x 1/8 x 5/8-11		27	A24TB(F)	8500	7316222	Depressed Center	Fast Stock Removal - Weld Applications
			ZA24-TB	8500	7425094	Depressed Center	High Performance - Weld Applications
7 x 1/8 x DIA(5/8)	Metal	1	A24TB(F8)	8500	7315894	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing
7 x 1/8 x 7/8		27	A24TB(F)	8500	7316220	Depressed Center	Fast Stock Removal - Weld Applications
			ZA24-TB	8500	7425093	Depressed Center	High Performance - Weld Applications
7 x 1/8 x 1-1/4		1	A46-P5-B20	6548	S077755	Non-Reinforced Cut-Off	Tool Room - General Purpose
			A465-O5-B60	6550	Q104477	Saw Sharpening	Saw Gumming - Resin Bonded Wheels
			A70-O5-B20	7750	S077798	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free
			WA60-I5-V8	3600	A027472	Saw Sharpening	Cool Cutting White Abrasive
7 x 1/4 x 5/8-11		27	A24TB(F)	8500	7316223	Depressed Center	Fast Stock Removal - Weld Applications
			C24TB(F)	8500	7316230	Depressed Center	Aggr. Cutting - Concrete, Masonry, Cast Iron, Non-Ferrous Metals
			ZA24-TB	8500	7425096	Depressed Center	High Performance - Weld Applications
			A24TB(F8)	8500	7316234	Depressed Center	Fast Stock Removal - Weld Applications
				28	A24TB(F8)	8500	7316234
7 x 1/4 x 7/8		27	A24TB(F)	8500	7316221	Depressed Center	Fast Stock Removal - Weld Applications

**GRINDING WHEELS 7" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
7 x 1/4 x 7/8		27	C24TB(F)	8500	7316229	Depressed Center	Aggr. Cutting - Concrete, Masonry, Cast Iron, Non-Ferrous Metals
		27	ZA24-TB	8500	7425095	Depressed Center	High Performance - Weld Applications
		28	A24TB(F8)	8500	7316233	Depressed Center	Fast Stock Removal - Weld Applications
7 x 1/4 x 1-1/4		1	A80-K-V25	3600	A395	Tool Room Wheel	Soft Annealed Steel
		1	WA46-H8-V8	3600	A326361	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA46-J5-V8	3600	A011061	Tool Room Wheel	Hardened Steel - Good Finish - Light Downfeed
		1	WA60-I8-V8	3600	A319272	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
7 x 1/4 x 1-1/4		1	WA60-J5-V8	3600	A007820	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .016 R
		1	WA60-J8-V8	3600	A329722	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA60-K5-V8	3600	A027600	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .016 R
		1	WA60-K8-V8	3600	A329723	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA80-I8-V8	3600	A329724	Tool Room Wheel	Hardened Steel - Fine Finish - Light Downfeed
		1	WA80-J5-V8	3600	A103535	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .010 R
		1	WA80-J8-V8	3600	A329725	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish
		1	WA80-K5-V8	3600	A103543	Tool Room Wheel	Hardened Steel - Fine Finish - Light Downfeed
		1	WA80-K8-V8	3600	A329726	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish
		1	WA100-I5-V8	3600	A302672	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .008 R
		1	WA100-I8-V8	3600	A316278	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 10 Rms Finish
		1	WA100-J5-V8	3600	A902314	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .008 R
		1	WA100-J8-V8	3600	A329727	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 10 Rms Finish
		1	WA100-K5-V8	3600	A103560	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .008 R
		1	WA120-K6-V8	3600	A103578	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .005 R
		1	WA120-K8-V8	3600	A329728	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 8 Rms Finish
		1	WA120-M6-V8	3600	A103586	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .005 R
		1	WA150-K6-V8	3600	A815292	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Fine Forms > .004 R
		1	WA150-K8-V8	3600	A318051	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Fine Forms > .004 R
		1	WA150-M8-V28	3600	A329729	Tool Room Wheel	Orange Clay Bond - Hard & H.S.S. - Fine Forms > .004 R
		1	WA220-K6-V8	3600	A103624	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Fine Forms > .003 R
		1	9A60-H2(G800)VOS	3600	K004	Tool Room Wheel	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
		1	9A60-I2(G800)VOS	3600	K249	Tool Room Wheel	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
		1	9A80-H2(G800)VOS	3600	K271	Tool Room Wheel	Tool Steels to 62 Rc - Lt Feeds - 12 Rms - Open Structure
		1	9A100-I1(I800)VOS	3600	K005	Tool Room Wheel	Tool Steels to 62 Rc - Lt Feeds - 10 Rms - Open Structure
		1	9A150-L-V15	3600	A604	Tool Room Wheel	Tool Steels to 62 Rc - Fine Forms > .004 R - 8 Rms Finish
		1	9A220-L12-VA3	3600	AS41	Tool Room Wheel	Tool Steels to 62 Rc - Fine Forms > .003 R - 5 Rms Finish
		1	RAA46-H2(G800)VOS	3600	K641	Tool Room Wheel	Chromium & Nickel Alloys - 32 Rms - Open Structure
		1	RAA60-H2(G800)VOS	3600	K569	Tool Room Wheel	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
		1	RAA60-I2(H800)VOS	3600	K420	Tool Room Wheel	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
		1	RAA100-I2(H800)VOS	3600	K497	Tool Room Wheel	Chromium & Nickel Alloys - 10 Rms Finish - Open Structure
		1	RAA1002-J0(K8)VOS	3600	K262	Tool Room Wheel	Hardened Steel - General Forms
	1	GC60-J5-VL	3600	A016721	Sharpening	Rough Grind - Carbide	
	1	GC120-J5-VL	3600	A107930	Sharpening	Finish Grind - Carbide	
	1	32A46-H8-VEQ	3600	A320694	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-I8-VEQ	3600	A320695	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-J8-VEQ	3600	A322103	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-K8-VEQ	3600	A322104	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A60-H8-VEQ	3600	A322105	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
	1	32A60-I8-VEQ	3600	A320696	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
	1	32A60-J8-VEQ	3600	A320697	Tool Room Wheel	Hardened Steel - Better Finish - Medium Downfeed	

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## 7" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION	
7 x 1/4 x 1-1/4		1	32A60-K5-VEQ	3600	A325049	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
		1	32A60-K8-VEQ	3600	A322106	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
		1	32A80-I8-VEQ	3600	A322108	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish	
		1	32A80-J8-VEQ	3600	A322109	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish	
7 x 1/4 x 1-1/4		1	32A80-K8-VEQ	3600	A322110	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish	
		1	32A100-I8-VEQ	3600	A322112	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - Forms > .008 R	
		1	32A100-J8-VEQ	3600	A322113	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - Forms > .008 R	
		1	32A120-K8-VEQ	3600	A322115	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - Fine Forms > .005 R	
		1	WRA46-J5-V8	3600	A788996	Tool Room Wheel	Hardened Steels - 32 Rms Finish - Good Durability	
		1	WRA46-K5-V8	3600	† A789003	Tool Room Wheel	Hardened Steels - 32 Rms Finish - Good Durability	
		1	WRA60-H5-V8	3600	A781240	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold	
		1	WRA60-I5-V8	3600	A862649	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold	
		1	WRA60-J5-V8	3600	A672157	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold	
		1	WRA60-K5-V8	3600	A755036	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold	
		1	WRA80-J5-V8	3600	A672173	Tool Room Wheel	Hardened Steels - 12 Rms Finish - Forms > .010 R	
		1	WRA80-K5-V8	3600	A650005	Tool Room Wheel	Hardened Steels - 12 Rms Finish - Forms > .010 R	
		1	WRA80-L5-V8	3600	A817198	Tool Room Wheel	Hardened Steels - 12 Rms Finish - Forms > .010 R	
		1	WRA120-K6-V8	3600	A761974	Tool Room Wheel	Hardened Steels - 8 Rms Finish - Forms > .005 R	
		1	RA46-H800-VOS	3600	K299775	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure	
		1	RA46-J5-V8	3600	A105023	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 32 Rms Finish	
		1	RA60-J5-V8	3600	A205036	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish	
		1	RA60-K5-V8	3600	A300675	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish	
		1	RA80-J5-V8	3600	A099082	Tool Room Wheel	High Carbon / Chrome - Gen Forms > .010 R - 12 Rms Finish	
		1	RA80-L5-V8	3600	A099090	Tool Room Wheel	High Carbon / Chrome - Gen Forms > .010 R - 12 Rms Finish	
	1	RA100-J5-V8	3600	A099104	Tool Room Wheel	High Carbon / Chrome - Forms > .008 R - 10 Rms Finish		
	1	RA100-L5-V8	3600	A099112	Tool Room Wheel	High Carbon / Chrome - Forms > .008 R - 10 Rms Finish		
	1	RA120-L6-V8	3600	A099139	Tool Room Wheel	High Carbon / Chrome - Fine Forms > .005 R - 8 Rms Finish		
	1	RA120-N6-V1	3600	A312339	Tool Room Wheel	Hardened Steel < .005 Radius		
	1	RA150-L6-V8	3600	A099155	Tool Room Wheel	High Carbon / Chrome - Fine Forms > .004 R - 6 Rms Finish		
	1	8BP60-I8-V8	3600	A323176	Tool Room Wheel	Ceramic Abr. - Cool Cut, Long Life - Stls > 35 Rc - 16 Rms Finish		
	1	8BP60-J8-V8	3600	A329742	Tool Room Wheel	Ceramic Abr. - Cool Cut, Long Life - Stls > 35 Rc - 16 Rms Finish		
	1	8BP60-K8-V8	3600	A323174	Tool Room Wheel	Ceramic Abr. - Cool Cut, Long Life - Stls > 35 Rc - 16 Rms Finish		
	1	8BP80-K8-V8	3600	A323175	Tool Room Wheel	Ceramic Abr. - Cool Cut, Long Life - Stls > 35 Rc - 12 Rms Finish		
7 x 3/8 x 1-1/4		1	32A60-H8-VEQ	3600	A322117	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
	B Face 65 Degrees	1	WRA60-J5-V8	3600	A692450	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold	
		1	WRA60-J8-V8	3600	A648671	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold	
		1	RA60-J5-V8	3600	A011541	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish	
7 x 1/2 x 1-1/4		1	A46-M5-V1	3600	A770540	Bench & Pedestal	Aluminum Oxide - Medium	
		1	A60-M5-V1	3600	A028258	Bench & Pedestal	Aluminum Oxide - Fine	
		1	A80-K-V25	3600	A823	Tool Room Wheel	Soft Annealed Steel	
		1	WAA46-K8-V8	3600	† A300314	Surface Grinding	Gen. Purpose Low Carbon & Annealed - 32 Rms Finish	
		1	WAA60-H8-V8	3600	A090468	Surface Grinding	Gen. Purpose Low Carbon & Annealed - 16 Rms Finish	
		1	WAA60-J8-V8	3600	A090476	Surface Grinding	Gen. Purpose Low Carbon & Annealed - 16 Rms Finish	
		1	97A46-I3(G+800)VOS	3600	K010	Surface Grinding	Low Carbon & Annealed - 32 Rms Finish - Open Structure	
		1	97A60-I3(G+800)VOS	3600	K299	Surface Grinding	Low Carbon & Annealed - 16 Rms Finish - Open Structure	
		1	97A60-J2(G+800)VOS	3600	K213	Surface Grinding	Low Carbon & Annealed - 16 Rms Finish - Open Structure	
		1	WA46-H8-V8	3600	A103721	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
	7 x 1/2 x 1-1/4		1	WA46-I8-V8	3600	A203874	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
			1	WA46-J8-V8	3600	A103730	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish

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DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
7 x 1/2 x 1-1/4		1	WA46-K8-V8	3600	A103748	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA60-H8-V8	3600	A103764	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA60-I8-V8	3600	A103772	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA60-J8-V8	3600	A103780	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA60-K8-V8	3600	A000558	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA80-I8-V8	3600	A329730	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish
		1	WA80-J8-V8	3600	A103829	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish
		1	WA80-K8-V8	3600	A028495	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish
		1	WA100-I8-V8	3600	A329731	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .008 R
		1	WA100-J8-V8	3600	A103853	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .008 R
		1	WA100-K8-V8	3600	A103861	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .008 R
		1	WA120-J8-V8	3600	A103888	Surface Grinding	Hardened Steel - Fine Forms
		1	WA120-K8-V8	3600	A329732	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - Fine Forms > .005 R
		1	9A46-G3(F+800C)VOS	3600	K040	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	9A46-H2(G800)VOS	3600	K006	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	9A46-I3(G+800C)VOS	3600	K051	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	9A46-J3(H800C)VOS	3600	K183	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	9A46-J2(H+800)VOS	3600	K013	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	9A60-H2(G800)VOS	3600	K007	Surface Grinding	Hardened Steel - Better Finish - Light Downfeed
		1	9A60-J3(H800)VOS	3600	K850	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
		1	9A60-I2(H800)VOS	3600	K082	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
		1	9A60-J2(H+800)VOS	3600	K077	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
		1	9A80-H2(G800)VOS	3600	K061	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 12 Rms Finish
		1	9A80-I3(G+800)VOS	3600	K074	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 12 Rms Finish
		1	9A100-H2(G800)VOS	3600	K078	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 10 Rms Finish
		1	RAA46-J2(H800)VOS	3600	K011	Surface Grinding	Chromium & Nickel Alloys - 32 Rms Finish - Open Structure
		1	RAA462-G2(F+800)VOS	3600	K055	Surface Grinding	Chromium & Nickel Alloys - 32 Rms Finish - Open Structure
		1	RAA462-H2(G800)VOS	3600	K027	Surface Grinding	Chromium & Nickel Alloys - 32 Rms Finish - Open Structure
		1	RAA462-I2(H800)VOS	3600	K095	Surface Grinding	Chromium & Nickel Alloys - 32 Rms Finish - Open Structure
		1	RAA60-H2(G800)VOS	3600	K084	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
		1	RAA60-I2(H800)VOS	3600	K009	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
		1	RAA60-J2(H+800)VOS	3600	K012	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
	1	RAA60-K2(I800)VOS	3600	K342	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure	
	1	RAA80-I2(H800)VOS	3600	K457	Surface Grinding	Chromium & Nickel Alloys - 12 Rms Finish - Open Structure	
	1	GC60-I5-VL	3600	A107948	Sharpening	Rough Grind - Carbide	
	1	GC60-J5-VL	3600	A107964	Sharpening	Rough Grind - Carbide	
	1	GC80-J5-VL	3600	A107999	Sharpening	Medium Grind - Carbide	
	1	GC120-I5-VL	3600	A108014	Sharpening	Finish Grind - Carbide	
	1	GC120-J5-VL	3600	A108022	Sharpening	Finish Grind - Carbide	
	1	32A46-G8-VEQ	3600	A320724	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-G14-VEQ	3600	K325050	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
7 x 1/2 x 1-1/4	1	32A46-H8-VEQ	3600	A320700	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-H14-VEQ	3600	K320698	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-I8-VEQ	3600	A320699	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-I14-VEQ	3600	K322121	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-J5-VEQ	3600	A329670	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-J8-VEQ	3600	A323753	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-J14-VEQ	3600	K322122	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1	32A46-K8-VEQ	3600	A320701	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	

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## 7" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
7 x 1/2 x 1-1/4		1	32A60-G14-VEQ	3600	K320702	Surface Grinding	High Carbon Steels > 35 Rc - 16 Rms Finish - Open Structure
		1	32A60-H8-VEQ	3600	A320703	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-I8-VEQ	3600	A320704	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-J8-VEQ	3600	A320705	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-K5-VEQ	3600	A329672	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-K8-VEQ	3600	A320706	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A80-I8-VEQ	3600	A320707	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish
		1	32A80-K8-VEQ	3600	A320708	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish
		1	32A100-I8-VEQ	3600	A322138	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - Forms > .008 R
		1	32A100-J8-VEQ	3600	A322139	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - Forms > .008 R
		1	WRA46-H8-V8	3600	A752240	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-I8-V8	3600	A751685	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-J8-V8	3600	A672181	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-K8-V8	3600	A747386	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA60-H8-V8	3600	A618489	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-I5-V8	3600	A618497	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-J8-V8	3600	A672190	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-J11-V8	3600	K683981	Surface Grinding	High Chromium Die Stls - 16 Rms Finish - Open Structure
		1	WRA60-K8-V8	3600	A672203	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA80-J8-V8	3600	A672211	Surface Grinding	High Chromium Die Stls - Med. Feeds - 12 Rms Finish
		1	WRA80-K8-V8	3600	A754552	Surface Grinding	High Chromium Die Stls - Med. Feeds - 12 Rms Finish
		1	RA46-G800-VOS	3600	K276278	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-H8-V8	3600	A100129	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA46-H11-V8	3600	† K198919	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-H800-VOS	3600	K286951	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-I8-V8	3600	A003220	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA46-I800-VOS	3600	K286952	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-J8-V8	3600	A100137	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-F8-V8	3600	A698938	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	RA60-G800-VOS	3600	K293517	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-H8-V8	3600	A100153	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	RA60-H800-VOS	3600	K286955	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-I5-V8	3600	A100161	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
	1	RA60-I800-VOS	3600	K286956	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure	
	1	RA60-J8-V8	3600	A200263	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
7 x 1/2 x 1-1/4	Face B 65 Degrees	1	RA60-J8-V8	3600	A000590	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish
		1	RA60-K8-V8	3600	A028320	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	RA80-I8-V8	3600	A366056	Surface Grinding	High Carbon / Chrome - Heavy Feed - Gen Forms > .010 R
		1	RA80-J8-V8	3600	A100196	Surface Grinding	High Carbon / Chrome - Heavy Feed - Gen Forms > .010 R
		1	RA80-L8-V8	3600	A100200	Surface Grinding	High Carbon / Chrome - Heavy Feed - Gen Forms > .010 R
		1	RA100-J8-V8	3600	A100226	Surface Grinding	High Carbon / Chrome - Forms > .008 R - 10 Rms Finish
		1	RA100-L8-V8	3600	A100234	Surface Grinding	High Carbon / Chrome - Forms > .008 R - 10 Rms Finish
		1	RA120-J8-V8	3600	A100250	Surface Grinding	High Carbon / Chrome - Fine Forms > .005 R - 8 Rms Finish
		1	RA120-L8-V8	3600	A100285	Surface Grinding	High Carbon / Chrome - Fine Forms > .005 R - 8 Rms Finish
		1	8BW46-H8-V8	3600	A327004	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - Steels > 35 Rc - 32 Rms Finish
		1	8BW46-I8-V8	3600	A322667	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - Steels > 35 Rc - 32 Rms Finish
		1	8BW60-I8-V8	3600	A323050	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - Steels > 35 Rc - 16 Rms Finish
		1	8BP46-G800-VOS	3600	K329743	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure
		1	8BP46-H800-VOS	3600	K323163	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure

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DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
7 x 1/2 x 1-1/4		1	8BP46-I8-V8	3600	A322483	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP46-I800-VOS	3600	K324551	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure
		1	8BP46-J8-V8	3600	A323162	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP46-K8-V8	3600	A322645	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP60-G800-VOS	3600	K329745	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure
		1	8BP60-H8-V8	3600	A329746	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
		1	8BP60-H800-VOS	3600	K323158	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure
		1	8BP60-I8-V8	3600	A322516	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
		1	8BP60-J8-V8	3600	A322240	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
		1	8BP60-K8-V8	3600	A321716	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
		1	8BP80-I8-V8	3600	A322959	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
		1	8BP80-J8-V8	3600	A323159	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
		1	8BP80-K8-V8	3600	A321715	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
		1	7BP46-J8-V8	3600	A323160	Surface Grinding	Ceramic Abr. - Heavy Feed, Good Form - 32 Rms Finish
		1	7BP60-I8-V8	3600	A322825	Surface Grinding	Ceramic Abr. - Heavy Feed, Good Form - 16 Rms Finish
		1	7BP60-J8-V8	3600	A323161	Surface Grinding	Ceramic Abr. - Heavy Feed, Good Form - 16 Rms Finish
7 x 3/4 x 1-1/4		1	A36-M5-V1	3600	A290548	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	3600	A090557	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	3600	A090573	Bench & Pedestal	Aluminum Oxide - Fine
		1	WA46-H8-V8	3600	A103918	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	9A46-H2(G800)VOS	3600	K164	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	9A60-J2(H+800)VOS	3600	KQ87	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
		1	RAA46-H2(G800)VOS	3600	K081	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	GC60-J5-VL	3600	A108030	Sharpening	Rough Grind - Carbide
		1	GC120-J5-VL	3600	A108065	Sharpening	Finish Grind - Carbide
		1	32A46-H8-VEQ	3600	A322130	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-I8-VEQ	3600	A320709	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-K5-VEQ	3600	A329673	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-K8-VEQ	3600	A322131	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
	1	32A60-I8-VEQ	3600	A322132	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
7 x 3/4 x 1-1/4		1	32A60-K8-VEQ	3600	A322133	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	RA46-J8-V8	3600	A100455	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-G800-VOS	3600	K299778	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-J8-V8	3600	A100315	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
7 x 3/4 x 1-1/4	1/S 2-3/4 x 1/4	5	WA46-H5-V8	3600	F318891	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed
	1/S 3 x 1/4	5	WA60-I5-V8	3600	F302343	Surface Grinding	Hardened Steel - Better Finish - Light Downfeed
	1/S 3-1/2 x 1/4	5	RAA46-H2(G800)VOS	3600	M937	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
	1/S 3-1/2 x 1/4	5	RAA60-I2(H800)VOS	3600	M938	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
	1/S 2-3/4 x 1/4	5	32A60-I8-VEQ	3600	F320714	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
	1/S 3 x 1/4	5	RA46-H800-VOS	3600	M299780	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
	1/S 3 x 1/4	5	RA60-J8-V8	3600	F186201	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
7 x 3/4 x 1-1/4	B/P D3343	12	RAA60-J2(H+800)VOS	3600	M009	Tool & Cutter	M-2, M-7, M42, & Chromium Alloys - 16 Rms - Open Structure
	B/P 2628	12	RA60-J5-V8	3550	F888222	Tool & Cutter	High Carbon / Chrome - Heavy Feed - 16 Rms - Good Finish
7 x 7/8 x 1/2	B/P 2232	99	WA60-L5-V8-SS	3550	F103942	Drill Grinding	Black Diamond - Hi-Speed Steel
7 x 1 x 5/8		1	C80-H6-V4	3600	A318863	Bench & Pedestal	Medium Grind - Carbide
7 x 1 x 1-1/4		1	A36-M5-V1	3600	A090638	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	3600	A090611	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	3600	A090719	Bench & Pedestal	Aluminum Oxide - Fine
		1	A80-M5-V1	3600	A090670	Bench & Pedestal	Aluminum Oxide - Very Fine



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## 7" to 8" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION	
7 x 1 x 1-1/4		1	WA46-H8-V8	3600	A103950	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
		1	WA60-J8-V8	3600	A917885	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish	
		1	GC60-J5-VL	3600	A108081	Sharpening	Rough Grind - Carbide	
		1	GC80-J5-VL	3600	A108111	Sharpening	Medium Grind - Carbide	
7 x 1 x 1-1/4		1	GC120-J5-VL	3600	A108090	Sharpening	Finish Grind - Carbide	
		1	WRA46-J5-V8	3600	A817546	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed	
		1	WRA60-J5-V8	3600	A868370	Surface Grinding	Hardened Steel - Better Finish - Medium Downfeed	
		1	WRA80-J5-V8	3600	A007722	Surface Grinding	Hardened Steel - Fine Finish - Medium Downfeed	
		1	RA46-J8-V8	3600	A100331	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish	
		1	RA60-J8-V8	3600	A200352	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
7 x 1 x 1-1/4	1/S 2-3/4 x 1/2	5	WA46-H5-V8	3600	F293721	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed	
	1/S 3 x 1/2	5	WA46-I8-V8	3600	F329733	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
	1/S 3 x 1/2	5	WA60-I8-V8	3600	F329734	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish	
	1/S 3-1/2 x 1/2	5	9A46-H2(G800)VOS	3600	M939	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure	
	1/S 3-1/2 x 1/2	5	9A60-H2(G800)VOS	3600	M940	Surface Grinding	Hardened Steel - Better Finish - Light Downfeed	
	1/S 2-3/4 x 1/2	5	RAA46-H2(G800)VOS	3600	M021	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed	
	1/S 3-1/2 x 1/2	5	RAA46-H2(G800)VOS	3600	M920	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed	
	1/S 3-1/2 x 1/2	5	RAA60-I2(H800)VOS	3600	M941	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure	
	1/S 3 x 1/2	5	32A46-H8-VEQ	3600	F320715	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1/S 3 x 1/2	5	32A46-H14-VEQ	3600	M322184	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1/S 3 x 1/2	5	32A46-I8-VEQ	3600	F322185	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
	1/S 3 x 1/2	5	32A60-I8-VEQ	3600	F322186	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
	7 x 1 x 1-1/4	1/S 2-3/4 x 1/2	5	WRA46-H5-V8	3600	F752100	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1/S 2-3/4 x 1/2	5	WRA46-I5-V8	3600	F214876	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
1/S 3 x 1/2		5	RA46-G800-VOS	3600	M299783	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure	
1/S 3 x 1/2		5	RA46-I5-V8	3600	F466557	Surface Grinding	Hardened Steel - Good Finish - Heavy Downfeed	
1/S 3 x 1/2		5	RA46-J8-V8	3600	F005894	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish	
1/S 3 x 1/2		5	RA60-J8-V8	3600	F010278	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
7 x 1-1/2 x 5	B/P 16428	53	GC60-K14-VL	3547	J780944	Plate Mtd Tool Sharpen	Criterion, Prosser - Rough Grind - Carbide	
7 x 2-1/2 x 3.063	5/8R 5/8B	6	RAA46H3(G800C)VOS-SS					
				3550	M077	Surface Grinding	Swisher - Hardened Steel - Good Finish - Medium Downfeed	
7 x 3 x 1-1/4	1/2R 3/4B	6	8A54-H7-B35	3600	U352034	Surface Grinding	Medina End Grinder - Hardened Tool Steel - Good Finish	
	1/2R 3/4B	6	8A362-K7-B35	3600	U352861	Surface Grinding	Medina End Grinder - General Purpose	
8 x 1/32 x 1-1/4		1	A70-O5-B20	6780	S077852	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
8 x .035 x 5/8		1	A60TB(F8)	7640	7315885	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
8 x 1/16 x 1/2		1	A46-P5-B20	6780	S078000	Non-Reinforced Cut-Off	Tool Room - General Purpose	
		1	A70-O5-B20	5729	7318912	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
8 x 1/16 x 5/8		1	A46TB(F8)	7640	† 7315892	Reinforced Cut-Off	Bench Top Chop Saw - Smooth Finish, Good Cutting	
		1	A36TB(F8)	7640	7315889	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life	
		1	A60TB(F8)	7640	7315886	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
8 x 1/16 x 7/8		1	A36TB(F8)	7640	7315890	Reinforced Cut-Off	Bench Top Chop Saw - Fast Cutting, Good Life	
		1	A60TB(F8)	7640	7315887	Reinforced Cut-Off	Bench Top Chop Saw - Fine Finish, Burr Free, Tubing	
8 x 1/16 x 1-1/4		1	A46-P5-B20	7640	S078034	Non-Reinforced Cut-Off	Tool Room - General Purpose	
		1	A465-O5-B20	5729	† S077976	Saw Sharpening	Saw Gumming - Resin Bonded Wheels	
		1	A70-O5-B20	5729	S055000	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
		1	A60-S5-B20F8	7640	T314466	Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
8 x 3/32 x 1-1/4		1	A465-O5-B20	6780	S078158	Non-Reinforced Cut-Off	Saw Gumming - Resin Bonded Wheels	
8 x 1/8 x DIA(5/8)	Metal	1	A24TB(F8)	7600	7315895	Reinforced Cut-Off	Portable Circular Saw - Metal - Fast Aggressive Cutting	
8 x 1/8 x DIA(5/8)	Masonry	1	C24TB(F8)	7600	7315897	Reinforced Cut-Off	Portable Circular Saw - Masonry - Fast Aggressive Cutting	

**GRINDING WHEELS 8" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION	
8 x 1/8 x 1-1/4		1	A30-R5-B20	5729	S335060	Saw Sharpening	Saw Gumming - Resin Bonded Wheels	
		1	A46-P5-B20	6780	S078263	Non-Reinforced Cut-Off	Tool Room - General Purpose	
		1	A465-O5-B60	4540	S213004	Saw Sharpening	Saw Gumming - Resin Bonded Wheels	
		1	A70-O5-B20	6780	† 7078280	Non-Reinforced Cut-Off	Tool Room - Hard Materials - Burr Free	
8 x 3/16 x 1-1/4		1	A46-M5-V1	3600	A918865	Saw Sharpening	General Purpose	
8 x 1/4 x 1-1/4		1	A60-M5-V1	3600	A090760	Saw Sharpening	General Purpose	
		1	WA60-I8-V8	3600	A329735	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish	
		1	WA60-J5-V8	3600	A692131	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - Forms > .016 R	
		1	WA60-L5-V8	3600	A104094	Tool Room Wheel	Hardened Steel - Better Finish - Light Downfeed	
		1	WA80-K8-V8	3600	A329736	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish	
		1	WA100-K8-V8	3600	A317266	Tool Room Wheel	Hardened Steel - General Forms	
		1	WA120-K8-V8	3600	A329737	Tool Room Wheel	Hard & H.S.S. to 62 Rc - Light Feed - 8 Rms Finish	
		1	32A46-H8-VEQ	3600	A322141	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
		1	32A60-H8-VEQ	3600	A329674	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
		1	32A60-I8-VEQ	3600	A322143	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
		1	32A60-J8-VEQ	3600	A322144	Tool Room Wheel	Hardened Steel - Better Finish - Medium Downfeed	
		1	32A60-K8-VEQ	3600	A322145	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
		1	32A80-I8-VEQ	3600	A322146	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish	
	8 x 1/4 x 1-1/4		1	32A80-K8-VEQ	3600	A322147	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish
			1	32A100-I8-VEQ	3600	A322148	Tool Room Wheel	High Carbon Steels > 35 Rc - Med Feeds - Forms > .008 R
			1	WRA46-K5-V8	3600	A876933	Tool Room Wheel	Hardened Steels - 32 Rms Finish - Good Durability
			1	WRA60-K5-V8	3600	A816469	Tool Room Wheel	Hardened Steels - 16 Rms Finish - Good Form Hold
		1	RA46-J5-V8	3600	A000248	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 32 Rms Finish	
		1	RA46-L5-V8	3600	A184152	Tool Room Wheel	Hardened Steel - Good Finish - Heavy Downfeed	
		1	RA60-J5-V8	3600	A030031	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish	
		1	RA100-L5-V8	3600	A920339	Tool Room Wheel	High Carbon / Chrome - Forms > .008 R - 10 Rms Finish	
8 x 3/8 x 1-1/4			1	A46-M5-V1	3600	A097179	Bench & Pedestal	Soft Annealed Steel
		1	A60-M5-V1	3600	A142778	Bench & Pedestal	Hardened Steel - Better Finish - Heavy Downfeed	
		1	RA60-J5-V8	3600	A030341	Tool Room Wheel	High Carbon / Chrome - Heavy Feed - 16 Rms Finish	
		1	A46-M5-V1	3600	A065080	Bench & Pedestal	Rough Grind - Carbide	
8 x 1/2 x 1-1/4		1	A60-M5-V1	3600	A065137	Bench & Pedestal	Hardened Steel - Good Finish - Heavy Downfeed	
		1	97A46-J3(H800C)VOS	3600	K445	Surface Grinding	General Purpose	
		1	WA46-H8-V8	3600	A104035	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
		1	WA46-I5-V8	3600	A863831	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed	
		1	WA46-I8-V8	3600	A264373	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
		1	WA46-J8-V8	3600	A104051	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
		1	WA46-K8-V8	3600	A329738	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
		1	WA60-H8-V8	3600	A307635	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish	
		1	WA60-I8-V8	3600	A329739	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish	
		1	WA60-J8-V8	3600	A104086	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish	
		1	WA60-K8-V8	3600	A009059	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish	
	8 x 1/2 x 1-1/4		1	WA80-J8-V8	3600	A104116	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 12 Rms Finish
			1	WA80-K5-V8	3600	A329740	Surface Grinding	Hardened Steel - Fine Finish - Light Downfeed
		1	9A46-H2(G800)VOS	3600	K092	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure	
		1	9A46-J3(G+800C)VOS	3600	K162	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed	
		1	9A60-H2(G800)VOS	3600	K106	Surface Grinding	Hardened Steel - Better Finish - Light Downfeed	
		1	RAA46-G2(F+800)VOS	3600	K230	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed	
		1	RAA46-H2(G800)VOS	3600	K026	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed	
	1	RAA46-H3(G800C)VOS	3600	K056	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed		

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## 8" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
8 x 1/2 x 1-1/4		1	RAA46-I2(H800)VOS	3600	K014	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA46-J2(H+800)VOS	3600	K356	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA60-I2(H800)VOS	3600	K015	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
		1	RAA60-J1(I+800)VOS	3600	KA69	Surface Grinding	Hardened Steel - Better Finish - Medium Downfeed
		1	GC60-J5-VL	3600	A108120	Sharpening	Hardened Steel - Good Finish - Heavy Downfeed
		1	32A46-G8-VEQ	3600	A329676	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-G14-VEQ	3600	K322151	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-H8-VEQ	3600	A320710	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-H14-VEQ	3600	K322152	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-I8-VEQ	3600	A320711	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-J5-VEQ	3600	A325053	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-J8-VEQ	3600	A322153	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	32A46-K8-VEQ	3600	A322154	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A60-H8-VEQ	3600	A322157	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
8 x 1/2 x 1-1/4		1	32A60-I8-VEQ	3600	A320712	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-J8-VEQ	3600	A322200	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-K8-VEQ	3600	A322159	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A80-I8-VEQ	3600	A322160	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish
		1	32A80-K8-VEQ	3600	A322161	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 12 Rms Finish
		1	WRA46-H8-V8	3600	A859710	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-I5-V8	3600	A796760	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	WRA46-J8-V8	3600	A717479	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-K8-V8	3600	A761613	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA60-H8-V8	3600	A622834	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-J8-V8	3600	A765031	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-K8-V8	3600	A734527	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA80-K8-V8	3600	A810665	Surface Grinding	High Chromium Die Stls - Med. Feeds - 12 Rms Finish
		1	RA46-G800-VOS	3600	K289027	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-H8-V8	3600	A100366	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA46-H800-VOS	3600	K292567	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-I800-VOS	3600	K293516	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-J8-V8	3600	A100374	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-G800-VOS	3600	K293518	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-H8-V8	3600	A200395	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
	1	RA60-H800-VOS	3600	K289028	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure	
	1	RA60-J8-V8	3600	A100412	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
	1	RA60-K8-V8	3600	A030562	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
8 x 1/2 x 1-1/4		1	RA80-I8-V8	3600	A300551	Surface Grinding	High Carbon / Chrome - Heavy Feed - Gen Forms > .010 R
		1	RA80-J8-V8	3600	A100447	Surface Grinding	High Carbon / Chrome - Heavy Feed - Gen Forms > .010 R
		1	RA100-J8-V8	3600	A196584	Surface Grinding	High Carbon / Chrome - Forms > .008 R - 10 Rms Finish
		1	8BW46-H8-V8	3600	A325935	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - Steels > 35 Rc - 32 Rms Finish
		1	8BP46-G800-VOS	3600	K329747	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure
		1	8BP46-H800-VOS	3600	K323164	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure
		1	8BP46-I8-V8	3600	A323167	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP46-J8-V8	3600	A322642	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP46-K8-V8	3600	A323168	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP60-G800-VOS	3600	K329748	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure
		1	8BP60-H800-VOS	3600	K323165	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure
		1	8BP60-I8-V8	3600	A323169	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.

**GRINDING WHEELS 8" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
8 x 1/2 x 1-1/4		1	8BP60-I800-VOS	3600	K323166	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure
		1	8BP60-J8-V8	3600	A323170	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
		1	8BP60-K8-V8	3600	A323171	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
		1	8BP80-J8-V8	3600	A323172	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
		1	8BP80-K8-V8	3600	A323173	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
8 x 3/4 x 1-1/4		1	A46-M5-V1	3600	A090972	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	3600	A066397	Bench & Pedestal	Aluminum Oxide - Fine
		1	WA46-H8-V8	3600	A104248	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA46-J8-V8	3600	A104140	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA60-J8-V8	3600	A142115	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	9A46-J3(H800C)VOS	3600	K017	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
8 x 3/4 x 1-1/4		1	GC60-J5-VL	3600	A017302	Sharpening	Rough Grind - Carbide
		1	GC120-J5-VL	3600	A108162	Sharpening	Finish Grind - Carbide
		1	32A46-G14-VEQ	3600	K322158	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-H8-VEQ	3600	A322163	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-I8-VEQ	3600	A322164	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-J8-VEQ	3600	A322165	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	32A60-J8-VEQ	3600	A322167	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	32A60-K8-VEQ	3600	A322168	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	WRA46-H8-V8	3600	A982032	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-J8-V8	3600	A776564	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
8 x 1 x 1		1	WRA60-J8-V8	3600	A808164	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA80-J8-V8	3600	A817767	Surface Grinding	High Chromium Die Stls - Med. Feeds - 12 Rms Finish
		1	RA46-G800-VOS	3600	K299348	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-J8-V8	3600	A100471	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-G800-VOS	3600	K299787	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-J8-V8	3600	A100480	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	8BP46-I8-V8	3600	A323145	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP46-J8-V8	3600	A322519	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP60-I8-V8	3600	A323147	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
		1	8BP60-J8-V8	3600	A323148	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
		1	8BP60-K8-V8	3600	A323149	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 12 Rms Fin.
		1	GC60-G800-V4	3600	K316379	Bench & Pedestal	Rough Grind - Carbide
	8 x 1 x 1-1/4		1	A36-M5-V1	3600	A085626	Bench & Pedestal
		1	A36-O5-V1	3600	A091138	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	3600	A087416	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	3600	A091243	Bench & Pedestal	Aluminum Oxide - Fine
		1	A80-M5-V1	3600	A091260	Bench & Pedestal	Aluminum Oxide - Very Fine
		1	C60-H8-V4	3600	A318867	Bench & Pedestal	Rough Grind - Carbide
		1	WA46-J8-V8	3600	A204188	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	GC60-J5-VL	3600	A108189	Sharpening	Rough Grind - Carbide
		1	GC80-J5-VL	3600	A108227	Sharpening	Medium Grind - Carbide
		1	GC120-J5-VL	3600	A108243	Sharpening	Finish Grind - Carbide
		1	RA46-J8-V8	3600	A100510	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
	1	RA60-J8-V8	3600	A139467	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
8 x 1 x 1-1/4	1/S 3-1/4 x 1/2	5	32A46-I8-VEQ	3600	G329678	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
8 x 1-1/2 x 1-1/4		1	A46-M5-V1	3600	A091405	Bench & Pedestal	Aluminum Oxide - Medium
8 x T/1-1/2 x 4-1/2	B/P 23818	51	WAA60-L5-V8	3105	G049441	Drill Grinding	Mohawk - Hi-Speed Steel
8/3 x 1-9/16 x 1-1/4	B/P 1466	99	WA46-J5-V8-SS	3600	G105228	Saw Sharpening	Yates American - High Carbon Saw Steel - Light Feeds -

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## 8" to 10" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
8/3 x 1-9/16 x 1-1/4	B/P 1466	99	RA46-J5-V8-SS	3600	G903710	Saw Sharpening	Yates American - Tough Ruby Abrasive
8/3-1/4 x 1-3/4 x 1-1/4	3/4R 3/4B B/P12893	11	RA46-H5-V8	3600	G931250	Saw Sharpening	Tough Ruby Abrasive
8 x 2 x 5-1/2	B/P 16436	53	WAA46-K5-V8	2865	J096555	Drill Grinding	Sellers - Hi-Speed Steel
8 x 3 x 3.300	1/2R 3/4B	6	RAA36-H3(G800)VOS	2865	N577	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		6	RAA36-N3(J800F)VOS	2865	N002	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
8 x 3-1/2 x 1-1/2	1R 1B	6	WA46-I5-V8	2865	G031763	Knife Grinding	Cool Cutting White Abrasive
8 x 3-1/2 x 1-3/4	1R 1B	6	WA46-J5-V8	2865	G888710	Knife Grinding	Cool Cutting White Abrasive
8 x 4 x 1-3/4	1R 1B	6	WA46-I5-V8	2865	G199230	Knife Grinding	Cool Cutting White Abrasive
		6	WA46-J5-V8	2865	G343510	Knife Grinding	Cool Cutting White Abrasive
8 x 4 x 2	1R 1B	6	WA46-I5-V8	2865	G338281	Knife Grinding	Cool Cutting White Abrasive
225 x 5 x 60 MM		1	RAA60-J-V8	2760	A294683	Saw Sharpening	Multi-Purpose
9 x 1/16 x 1-1/4		1	4A601-S8-RB6	6790	S807	Metallurgical Specimens	Medium Hard Steels Rc35-50
9 x 1/8 x 5/8-11		27	A24TB(F)	6500	7316226	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	6600	7425100	Depressed Center	High Performance - Weld Applications
9 x 1/8 x 7/8		27	A24TB(F)	6500	7316224	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	6600	7425099	Depressed Center	High Performance - Weld Applications
9 x 1/4 x 5/8-11		27	A24TB(F)	6030	7316227	Depressed Center	Fast Stock Removal - Weld Applications
		27	C24TB(F)	6030	7316232	Depressed Center	Aggr. Cutting - Concrete, Masonry, Cast Iron, Non-Ferrous Metals
		27	ZA24-TB	6600	7425102	Depressed Center	High Performance - Weld Applications
9 x 1/4 x 7/8		28	A24TB(F8)	6030	7316236	Depressed Center	Fast Stock Removal - Weld Applications
		27	A24TB(F)	6030	7316225	Depressed Center	Fast Stock Removal - Weld Applications
		27	ZA24-TB	6600	7425101	Depressed Center	High Performance - Weld Applications
9 x 2 x 5	B/P 16430	53	WAA46-L5-V1	2550	J292909	Sharpening	Oliver - Plate Mtd Tool - General Purpose
		53	97A54-K2(I800)VOS	2550	J004	Sharpening	Oliver - Plate Mtd Tool - General Purpose
		53	WA46-L5-V8	2550	J096571	Sharpening	Oliver - Plate Mtd Tool - Hi-Speed Steel
9-1/2 x 1-1/2 x 1-1/2	B/P 16430	53	32A46-M5-VEQ	2550	J329679	Sharpening	Oliver - Plate Mtd Tool - General Purpose
		53	32A70-J14-VEQ	2550	J329680	Sharpening	Oliver - Plate Mtd Tool - Hi-Speed Steel
		53	RA46-L5-V8	2550	J074179	Sharpening	Oliver - Plate Mtd Tool - Hi-Speed Steel
9-1/2 x 1-1/2 x 1-1/2	1-1/2R 3/4B	6	A46-L8-V8	2415	G318648	Tool & Cutter	General Purpose
10 x 1/16 x 5/8		1	A46-P5-B20	4584	S078808	Non-Reinforced Cut-Off	General Purpose
		1	A70-O5-B20	4584	S104531	Non-Reinforced Cut-Off	General Purpose
		1	TA36TB(F8)	6100	7316000	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting, General Shop Use
		1	TA30RB(F8)	6100	T315999	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
		1	TA60TB(F8)	6100	7316002	Reinforced Cut-Off	Stationary Cut-Off Saw - Fine Finish, Burr Free, Tubing
10 x 1/16 x 1		1	TA30RB(F8)	6100	7316003	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
		1	TA36TB(F8)	6100	7316004	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting, General Shop Use
10 x 1/16 x 1-1/4		1	AT601-R5-RB6	6115	S809	Metallurgical Specimens	Hard Steel Rc 50-60
10 x 3/32 x 5/8		1	A46-P5-B20	4584	7079022	Non-Reinforced Cut-Off	General Purpose
		1	TA30RB(F8)	6100	T316006	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
		1	TA36TB(F8)	6115	T316007	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting, General Shop Use
		1	TA60TB(F8)	6100	T316008	Reinforced Cut-Off	Stationary Cut-Off Saw - Fine Finish, Burr Free, Tubing
10 x 3/32 x 1		1	TA30RB(F8)	6100	7316009	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
		1	TA36TB(F8)	6100	† T316010	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting, General Shop Use
10 x 3/32 x 1-1/4		1	A46-P5-B20	4584	S104540	Non-Reinforced Cut-Off	General Purpose
10 x 1/8 x 5/8		1	A36-R5-B20	4584	S308494	Non-Reinforced Cut-Off	General Purpose
		1	A24-S5-B20F1	6112	T318901	Reinforced Cut-Off	General Purpose
10 x 1/8 x 1-1/4		1	A46-P5-B20	5425	S079154	Non-Reinforced Cut-Off	General Purpose
		1	A465-O5-B20	6115	S056642	Saw Sharpening	Saw Gumming - Resin Bonded Wheels

**GRINDING WHEELS 10" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
10 x 3/16 x 1-1/4		1	A465-O5-B60	3630	Q930695	Saw Sharpening	Saw Gumming - Resin Bonded Wheels
10 x 1/4 x 1-1/4		1	A465-O5-B60	3630	Q267848	Saw Sharpening	Saw Gumming - Resin Bonded Wheels
		1	A46-M5-V1	2485	A091510	Saw Sharpening	General Purpose
		1	A60-M5-V1	2485	A091570	Saw Sharpening	General Purpose
		1	WAA46-M7-V28	2485	A881147	Saw Sharpening	Multi-Purpose
10 x 1/4 x 1-1/4		1	RA46-L5-V8	2485	A310930	Saw Sharpening	Tough Ruby Abrasive
10 x 3/8 x 1-1/4		1	A46-M5-V1	2485	A091545	Saw Sharpening	General Purpose
		1	WAA46-M7-V28	2485	A091553	Saw Sharpening	Multi-Purpose
		1	RA46-L5-V8	2485	A315524	Saw Sharpening	Tough Ruby Abrasive
10 x 3/8 x 2		1	GC60-J5-VL	2485	A017779	Sharpening	Rough Grind - Carbide
10 x 1/2 x 1-1/4		1	A46-M5-V1	2485	A091596	Saw Sharpening	General Purpose
		1	WAA46-M7-V28	2485	A091600	Saw Sharpening	Multi-Purpose
		1	WA46-K8-V8	2485	A105317	Saw Sharpening	Cool Cutting White Abrasive
10 x 1/2 x 1-1/4		1	RA46-J8-V8	2485	A100706	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-L-V8	2485	A173886	Saw Sharpening	Tough Ruby Abrasive
		1	RA60-J8-V8	2485	A032840	Saw Sharpening	Tough Ruby Abrasive
		1	8BP46-L8-V8	2485	A328608	Saw Sharpening	Ceramic Abrasives - High Performance
		1	8BP60-L8-V8	2485	A340092	Saw Sharpening	Ceramic Abrasives - High Performance
10 x 1/2 x 3		1	WA60-K8-V8	2485	A843180	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	RA60-J8-V8	2485	A100722	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
10 x 5/8 x 1-1/4		1	RA46-L8-V8	2485	A171727	Saw Sharpening	Tough Ruby Abrasive
		1	8BP46-L8-V8	2485	A321832	Saw Sharpening	Ceramic Abrasives - High Performance
		1	8BP60-L8-V8	2485	A327234	Saw Sharpening	Ceramic Abrasives - High Performance
10 x 3/4 x 1-1/4		1	A46-M8-V1	2485	A091731	Saw Sharpening	General Purpose
		1	RA46-J5-V8	2485	A100749	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-L8-V8	2485	A318442	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-M8-V8	2485	A150282	Saw Sharpening	Tough Ruby Abrasive
10 x 3/4 x 3		1	WA46-J8-V8	2485	A105414	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA60-K8-V8	2485	A300900	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	RAA46-H2(G800)VOS	2485	K063	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA46-I2(H800)VOS	2485	K223	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	32A46-I8-VEQ	2485	A322170	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	WRA46-H8-V8	2485	A851582	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA60-J8-V8	2485	A755567	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA80-J8-V8	2485	A779784	Surface Grinding	High Chromium Die Stls - Med. Feeds - 12 Rms Finish
		1	RA46-G800-VOS	2485	K299788	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-J8-V8	2485	A100757	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-J8-V8	2485	A100781	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
10 x 1 x 1-1/4		1	A36-M5-V1	2485	A091936	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A36-O5-V1	2485	A091847	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	2485	A091952	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	2485	A092126	Bench & Pedestal	Aluminum Oxide - Fine
		1	A80-M5-V1	2485	A091995	Bench & Pedestal	Aluminum Oxide - Very Fine
		1	WA60-J5-V8	2485	A529583	Surface Grinding	Hardened Steel - Better Finish - Light Downfeed
		1	GC60-J5-VL	2485	A108359	Sharpening	Rough Grind - Carbide
		1	GC80-J5-VL	2485	A108383	Sharpening	Medium Grind - Carbide
10 x 1 x 1-1/4		1	GC120-J5-VL	2485	A109878	Sharpening	Finish Grind - Carbide
		1	RA46-J8-V8	2485	A100811	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
10 x 1 x 1-1/4		1	RA60-J8-V8	2485	A100927	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish

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## 10" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
10 x 1/11/16 x 1-1/4	B/P 28634	12	32A54-J5-VEQ	2485	G329681	Tool & Cutter	Hardened Steel - Better Finish - Medium Downfeed
10 x 1 x 2		1	RA46-J8-V8	2485	A100854	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
10 x 1 x 3		1	WA46-H8-V8	2485	A295691	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA46-J8-V8	2485	A105546	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA60-I8-V8	2485	A329741	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA60-J8-V8	2485	A142212	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	9A46-H2(G800)VOS	2485	K901	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	9A60-J3(H800)VOS	2485	K335	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 16 Rms - Open Structure
		1	RAA46-H2(G800)VOS	2485	K319	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA46-I2(H800)VOS	2485	K247	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	GC60-J5-VL	2485	A919713	Sharpening	Rough Grind - Carbide
		1	32A46-H8-VEQ	2485	A325054	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-I8-VEQ	2485	A322172	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A60-I8-VEQ	2485	A322173	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	WRA46-H8-V8	2485	A800805	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-I8-V8	2485	A955728	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-J5-V8	2485	A672246	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	WRA46-K8-V8	2485	A801437	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA60-J8-V8	2485	A672238	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-K8-V8	2485	A754544	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA80-J8-V8	2485	A789658	Surface Grinding	High Chromium Die Stls - Med. Feeds - 12 Rms Finish
		1	RA46-G800-VOS	2485	K299791	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-J8-V8	2485	A100870	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-J8-V8	2485	A100935	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	RA60-K8-V8	2485	A300870	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	8BP46-H800-VOS	2485	K324839	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure
		1	8BP46-I8-V8	2485	A323333	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP46-J8-V8	2485	A325428	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
		1	8BP60-J8-V8	2485	A324611	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
10 x 1-1/4 x 1-1/4		1	A36-O5-V1	2485	A092045	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	2485	A092142	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	2485	A092150	Bench & Pedestal	Aluminum Oxide - Fine
		1	GC60-J5-VL	2485	A322067	Sharpening	Rough Grind - Carbide
10 x 1-1/2 x 1-1/4		1	A36-M5-V1	2485	A092223	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A36-O5-V1	2485	A092240	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	2485	A092274	Bench & Pedestal	Aluminum Oxide - Medium
		1	A60-M5-V1	2485	A092320	Bench & Pedestal	Aluminum Oxide - Fine
		1	GC60-J5-VL	2485	A063460	Sharpening	Rough Grind - Carbide
10 x 1-1/2 x 2		1	GC60-J5-VL	2485	A108421	Sharpening	Rough Grind - Carbide
10 x 2 x 1-1/4		1	A36-O5-V1	2485	A092347	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	2485	A092355	Bench & Pedestal	Aluminum Oxide - Medium
10 x 2 x 1-1/4		1	A60-M5-V1	2485	A097420	Bench & Pedestal	Aluminum Oxide - Fine
10 x 2 x 7	B/P 2671	53	GC60-J14-VL	2295	J096580	Sharpening	Plate Mtd Tool - Rough Grind - Carbide
	B/P 2671	53	GC60-K14-VL	2295	J096644	Sharpening	Plate Mtd Tool - Rough Grind - Carbide
10 x 2 x 7	B/P 2671	53	GC120-I14-VL	2295	J096610	Sharpening	Ex-Cello Hammond - Plate Mtd Tool - Finish Grind - Carbide
10 x 2 x 7-1/2	B/P 21878	53	WAA60-L5-V8	2295	J096636	Sharpening	Sellers - Plate Mtd Tool - General Purpose
10 x T/3	1R B/P2195	52	A46-I5-B60	2295	U079472	Knife Grinding	Hardened Steel - Good Finish
	1R B/P2195	52	A60-I5-B60	2295	U132870	Knife Grinding	Hardened Steel - Fine Finish
	1R B/P2195	52	RA46-H5-V8	2295	G196630	Knife Grinding	Tough Ruby Abrasive

**GRINDING WHEELS 10" to 12" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
10 x 4 x 1-1/2	1-1/2R 1B	6	WA46-I5-V8	2295	G170135	Knife Grinding	Cool Cutting White Abrasive
	1-1/2R 1B	6	WA46-J5-V8	2295	G884154	Knife Grinding	Cool Cutting White Abrasive
	1-1/2R 1B	6	RA46-H5-V8	2295	G139092	Knife Grinding	Tough Ruby Abrasive
10 x 4 x 2	1-1/2R 1B	6	WA46-J5-V8	2295	G171620	Knife Grinding	Cool Cutting White Abrasive
	1-1/2R 1B	6	WRA46-J5-V8	2295	G214035	Knife Grinding	Multi-Purpose
10 x T/4	1R B/P 2554	52	A46-I5-B60	2295	U079499	Knife Grinding	Hardened Steel - Good Finish
	1R B/P 2554	52	A60-I5-B60	2295	† U079502	Knife Grinding	Hardened Steel - Fine Finish
		52	WA46-H5-B35	2295	U342479	Knife Grinding	Cool Cutting White Abrasive
	1R B/P 2554	52	RA46-H5-V8	2295	G310689	Knife Grinding	Tough Ruby Abrasive
	1R B/P 2554	52	8BP46-F800-VOS	2295	N331200	Saw Sharpening	Ceramic Abrasives - High Performance - Open Structure
11 x 5	1R	2	WA462-F11-V8	1910	N267375	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed
		2	97A361-G800-V1	2085	N342209	Surface Grinding	General Purpose
12 x 3/32 x 1		1	A36-R5-B20	4520	S311586	Non-Reinforced Cut-Off	General Purpose
		1	TA30RB(F8)	5100	T316012	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
12 x 3/32 x 1-1/4		1	A46-P5-B20	5095	S079596	Non-Reinforced Cut-Off	General Purpose
		1	4A601S8RB6	5090	† S813	Metallurgical Specimens	Medium Hard Steels Rc 35-50
12 x 7/64 x 1		1	A46TB(F1)	5100	† T315898	Reinforced Cut-Off	Low Horsepower Portable Chop Saw - Fast Burr Free Cutting
12 x 1/8 x 20MM		1	A24TB(F8)	6300	T315901	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Metal - Aggressive Cut, Long Life
12 x 1/8 x 7/8		1	A24TB(F8)	6300	T315902	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Metal - Aggressive Cut, Long Life
		1	C24TB(F8)	6300	T316054	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Masonry, Concrete & N.F. Metals
12 x 1/8 x 1	Metal	1	A24TB(F8)	6300	T315900	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Metal - Aggressive Cut, Long Life
		1	TA24RB(F8)	5100	T316014	Reinforced Cut-Off	Stationary Cut-Off Saw - General Purpose & Production Cutting
	Masonry	1	TA30RB(F8)	5100	T316013	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
		1	C24TB(F8)	6300	T315903	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Masonry, Concrete & N.F. Metals
12 x 1/8 x 1-1/4		1	A465-O5-B20	3820	S058238	Saw Sharpening	Saw Gumming - Resin Bonded Wheels
		1	A30-P5-B20F8	5092	T012300	Reinforced Cut-Off	General Purpose
12 x 1/2 x 1-1/4		1	RA46-J8-V8	2070	A101052	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-L5-V8	2070	A480819	Saw Sharpening	Tough Ruby Abrasive
12 x 1/2 x 3		1	RA60-J8-V8	2070	A101109	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
12 x 1/2 x 5		1	32A60-L8-VEQ	2070	A322174	Surface Grinding	Hardened Steel - Better Finish - Medium Downfeed
12 x 5/8 x 1-1/4		1	RA46-L8-V8	2070	A378143	Saw Sharpening	Tough Ruby Abrasive
		1	8BP46-L8-V8	2070	A324754	Saw Sharpening	Ceramic Abrasives - High Performance
		1	8BP60-L8-V8	2070	A341422	Saw Sharpening	Ceramic Abrasives - High Performance
12 x 3/4 x 1-1/4		1	A46-M8-V1	2070	A092657	Saw Sharpening	General Purpose
		1	SA46-M8-V8	2070	A000884	Saw Sharpening	Multi-Purpose
		1	WA46-M8-V8	2070	A883050	Saw Sharpening	Cool Cutting White Abrasive
		1	WRA46-M8-V8	2070	A727571	Saw Sharpening	Multi-Purpose
		1	RA46-J8-V8	2070	A479446	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-L8-V8	2070	A101214	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-M8-V8	2070	A312673	Saw Sharpening	Tough Ruby Abrasive
		1	NZB362-N5-B51	3025	† Q333780	Saw Sharpening	Zirconia, Long Wheel Life
		1	8BP46-L8-V8	2070	A325431	Saw Sharpening	Ceramic Abrasives - High Performance
12 x 3/4 x 3		1	8BP60-L8-V8	2070	A322729	Saw Sharpening	Ceramic Abrasives - High Performance
		1	97A46-I3(G+800C)VOS	2070	K121	Surface Grinding	Soft Annealed Steel
		1	WA46-H8-V8	2070	A105716	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	RAA46-H2(G800)VOS	2070	K045	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA46-I2(H800)VOS	2070	K982	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA46-J2(H+800)VOS	2070	K076	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
1	32A46-I8-VEQ	2070	A322175	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish		



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## 12" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
12 x 3/4 x 3		1	WRA46-J8-V8	2070	A830240	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	RA46-H8-V8	2070	A101141	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA46-J8-V8	2070	A101150	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-J8-V8	2070	A101184	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	8BP46-I8-V8	2070	A324911	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
12 x 3/4 x 5	C Face 30 Deg.	B/P 29479					
		1	A701-L5-B60-T	3025	Q770450	Drill Grinding	Omark Winslow - Hi-Speed Steel
12 x 3/4 x 5	C Face 30 Deg.	70	A701-L5-B60-T	3025	U147249	Drill Grinding	Omark Winslow - Hi-Speed Steel
	1/8 H/S	B/P29669	A120-M5-B60-T				
12 x 7/8 x 1-1/4		1	A46-M1-V1	2070	A045365	Saw Sharpening	General Purpose
		1	SA46-M8-V8	2070	A009750	Saw Sharpening	Multi-Purpose
		1	WA46-M-V8	2070	A901040	Saw Sharpening	Cool Cutting White Abrasive
		1	WRA46-L5-V8	2070	A957682	Saw Sharpening	Multi-Purpose
		1	WRA46-M8-V8	2070	A786209	Saw Sharpening	Multi-Purpose
		1	RA46-L8-V8	2070	A183822	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-M8-V8	2070	A003867	Saw Sharpening	Tough Ruby Abrasive
		1	8BP46-L8-V8	2070	A325432	Saw Sharpening	Ceramic Abrasives - High Performance
		1	8BP60-L8-V8	2070	A322730	Saw Sharpening	Ceramic Abrasives - High Performance
12 x 1 x 1-1/4		1	A46-M5-V1	2070	A092363	Saw Sharpening	General Purpose
		1	A60-M5-V1	2070	A092754	Saw Sharpening	General Purpose
		1	RA46-J8-V8	2070	A182354	Saw Sharpening	Tough Ruby Abrasive
		1	RA46-M8-V8	2070	A035580	Saw Sharpening	Tough Ruby Abrasive
12 x 1 x 3		1	WA46-H5-V8	2070	A004847	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed
		1	WA46-J8-V8	2070	A105767	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish
		1	WA60-J8-V8	2070	A009776	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
12 x 1 x 3		1	9A46-H2(G800)VOS	2070	K495	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	RAA46-H2(G800)VOS	2070	K330	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA46-I2(H800)VOS	2070	K043	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA46-J2(H+800)VOS	2070	K189	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RAA60-I2(H800)VOS	2070	K771	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
		1	32A46-H8-VEQ	2070	A322177	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-H14-VEQ	2070	K322176	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-I8-VEQ	2070	A322178	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-J8-VEQ	2070	A322179	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	32A46-K8-VEQ	2070	A322180	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A60-I8-VEQ	2070	A322181	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish
		1	WRA46-H8-V8	2070	A650617	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
	12 x 1 x 3		1	WRA46-I8-V8	2070	A762318	Surface Grinding
		1	WRA46-J8-V8	2070	A750719	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-K8-V8	2070	A814997	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA60-H8-V8	2070	A978639	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-I8-V8	2070	A634735	Surface Grinding	Hardened Steel - Better Finish - Medium Downfeed
		1	WRA60-K8-V8	2070	A817856	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	RA46-G800-VOS	2070	K277795	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-H8-V8	2070	A101249	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA46-J8-V8	2070	A101290	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA60-J8-V8	2070	A101370	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish
		1	8BP46-H8-V8	2070	A329751	Surface Grinding	Hardened Steel - Good Finish - Ceramic Abrasive
		1	8BP46-H800-VOS	2070	K322836	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure

**GRINDING WHEELS 12" DIAMETER****1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION	
12 x 1 x 3		1	8BP46-I8-V8	2070	A324981	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.	
		1	8BP60-G800-VOS	2070	K329752	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure	
		1	8BP60-I800-VOS	2070	K329753	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure	
12 x 1 x 5		1	97A602-K12-V35	2070	A040	Surface Grinding	Soft Annealed Steel	
		1	WA46-I8-V8	2070	A328439	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
		1	WA46-J8-V8	2070	A198323	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 32 Rms Finish	
		1	WA60-J5-V8	2070	A595993	Surface Grinding	Hardened Steel - Better Finish - Light Downfeed	
12 x 1 x 5		1	WA80-K5-V8	2070	A310541	Surface Grinding	Hardened Steel - Fine Finish - Light Downfeed	
		1	RAA46-I2(H800)VOS	2070	K050	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed	
		1	GC60-J5-VL	2070	A108510	Surface Grinding	Rough Grind - Carbide	
		1	32A46-I8-VEQ	2070	A322182	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
		1	32A60-I8-VEQ	2070	A325056	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
		1	32A60-K8-VEQ	2070	A329682	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 16 Rms Finish	
		1	WRA46-K8-V8	2070	A913634	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish	
		1	WRA60-K5-V8	2070	A753378	Surface Grinding	Hardened Steel - Better Finish - Medium Downfeed	
		1	RA46-H800-VOS	2070	K268837	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure	
		1	RA46-J5-V8	2070	A101303	Surface Grinding	Hardened Steel - Good Finish - Heavy Downfeed	
		1	RA60-J8-V8	2070	A101389	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
12 x 1 x 5		1	RA80-J8-V8	2070	A150916	Surface Grinding	High Carbon / Chrome - Heavy Feed - Gen Forms > .010 R	
		1	8BP46-H8-V8	2070	A329754	Surface Grinding	Hardened Steel - Good Finish - Ceramic Abrasive	
		1	8BP46-H800-VOS	2070	K323150	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure	
		1	8BP46-I8-V8	2070	A329755	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.	
		1	8BP60-G800-VOS	2070	K329756	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure	
		1	8BP60-I8-V8	2070	A321337	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.	
		1	8BP60-I800-VOS	2070	K329758	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure	
		1	8BP60-J8-V8	2070	A323151	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.	
	12 x 1-1/2 x 1-1/4		1	A24-M6-V1	2070	A097535	Bench & Pedestal	Aluminum Oxide - Extra Coarse
			1	A36-O5-V1	2070	A092835	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	2070	A092983	Bench & Pedestal	Aluminum Oxide - Medium	
		1	A60-M5-V1	2070	A092932	Bench & Pedestal	Aluminum Oxide - Fine	
		1	GC60-J5-VL	2070	A108634	Sharpening	Rough Grind - Carbide	
		1	RA46-J8-V8	2070	A150940	Bench & Pedestal	Hardened Steel - Good Finish - Heavy Downfeed	
12 x 1-1/2 x 3		1	RA46-J8-V8	2070	A903744	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish	
12 x 1-1/2 x 3	1/S 5 x 1/2	5	9A46-J3(H800)VOS	2070	N006	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed	
12 x 1-1/2 x 5		1	32A46-I8-VEQ	2070	A329683	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
		1	RA46-J8-V8	2070	A311596	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish	
		1	8BP60-I800-VOS	2070	K329759	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 16 Rms - Open Structure	
		5	WA46-H5-V8	2070	G013757	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed	
		5	32A46-I8-VEQ	2070	G329684	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish	
		5	RA46-J5-V8	2070	G101451	Surface Grinding	Hardened Steel - Good Finish - Heavy Downfeed	
		5	RA60-J8-V8	2070	G101486	Surface Grinding	High Carbon / Chrome - Heavy Feed, Good Form - 16 Rms Finish	
	12 x 2 x 1-1/4		1	A24-M6-V1	2070	A093033	Bench & Pedestal	Aluminum Oxide - Extra Coarse
		1	A30-O5-V1	2070	A093084	Bench & Pedestal	Aluminum Oxide - Coarse	
		1	A36-M5-V1	2070	A093114	Bench & Pedestal	Aluminum Oxide - Coarse	
		1	A36-O5-V1	2070	A093130	Bench & Pedestal	Aluminum Oxide - Coarse	
		1	A46-M5-V1	2070	A093335	Bench & Pedestal	Aluminum Oxide - Medium	
		1	A60-M5-V1	2070	A093378	Bench & Pedestal	Aluminum Oxide - Fine	
		1	A80-M5-V1	2070	A093343	Bench & Pedestal	Aluminum Oxide - Very Fine	
		1	GC60-J5-VL	2070	A108561	Sharpening	Rough Grind - Carbide	

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## 12" to 14" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
12 x 2 x 1-1/2		1	A36-M5-V1	2070	A515132	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A60-M5-V1	2070	A919128	Bench & Pedestal	Aluminum Oxide - Fine
12 x 2 x 1-3/4	X Face Rec. 1/S 4-7/8 x 1	B/P26311		2070	G849359	Saw Sharpening	Multi-Purpose
		5	WRA46-J8-V8				
12 x 2 x 1-3/4	X Face Rec. 1/S 4-7/8 x 1	B/P26311		2070	G332128	Saw Sharpening	Ceramic Abrasives - High Performance
		5	8BP60-J8-V8				
12 x 2 x 3	2/S 6 x 1/2	7	9A46-G800-VOS	2070	N318875	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed
12 x 2 x 5	2/S 7-1/2 x 1/2	7	97A46-I3(G+800C)VOS	2070	N003	Surface Grinding	Soft Annealed Steel
	2/S 7-1/2 x 1/2	7	WA46-I5-V8	2070	G301403	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed
	2/S 7-1/2 x 1/2	7	32A46-H14-VEQ	2070	N329686	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
	2/S 7-1/2 x 1/2	7	32A46-I8-VEQ	2070	G327793	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
	2/S 7-1/2 x 1/2	7	RA46-J8-V8	2070	G172669	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
14 x 3/32 x 1		1	AT462-W8-RB5	4370	S015	Non-Reinforced Cut-Off	High Performance
		1	TA30RB(F8)	4400	T316016	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
14 x 7/64 x 1		1	A46TB(F1)	4400	T315899	Reinforced Cut-Off	Low Horsepower Portable Chop Saw - Fast Burr Free Cutting
14 x 1/8 x 20MM		1	A24TB(F8)	5200	T316059	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Metal - Aggressive Cut, Long Life
		1	C24TB(F8)	5200	† T316061	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Masonry - Aggressive Cut, Long Life
14 x 1/8 x 1	Metal	1	A24TB(F8)	5200	T316058	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Metal - Aggressive Cut, Long Life
		1	TA24RB(F8)	4400	T316015	Reinforced Cut-Off	Stationary Cut-Off Saw - General Purpose & Production Cutting
		1	TA30RB(F8)	4400	T316017	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
		1	CA30PB(F8)	5200	T316062	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Ductile Iron & Non-Ferrous Metals
	Masonry	1	C24TB(F8)	5200	T316060	Reinforced Cut-Off	Hi-Speed Gas & Electric Saws - Masonry, Concrete & N.F. Metals
14 x 3/4 x 5		1	RA60-J8-V8	1800	A465267	Surface & Cylindrical	Hardened Steel - Better Finish - Heavy Downfeed
14 x 1 x 3		1	RAA46-I2(H800)VOS	1800	K046	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	WRA46-H8-V8	1800	A794333	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA60-I5-V8	1800	A307417	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	RA46-J8-V8	1800	A101567	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	8BP46-I8-V8	1800	A326446	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 32 Rms Fin.
14 x 1 x 5		1	A60-K8-V1	1800	A301015	Surface & Cylindrical	Soft Annealed Steel
		1	WA46-J8-V8	1800	A205931	Surface & Cylindrical	Hardened Steel - Good Finish - Light Downfeed
		1	WA60-H8-V8	1800	A314365	Surface Grinding	Hard & H.S.S. to 62 Rc - Light Feed - 16 Rms Finish
		1	WA60-K8-V8	1800	A331295	Surface & Cylindrical	Hardened Steel - Better Finish - Light Downfeed
		1	9A46-H2(G800)VOS	1800	K557	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	RAA46-J1(I+800)VOS	1800	K302	Surface Grinding	Chromium & Nickel Alloys - 16 Rms Finish - Open Structure
		1	GC60-J5-VL	1800	A108600	Surface & Cylindrical	Rough Grind - Carbide
		1	32A46-I8-VEQ	1800	A329687	Surface & Cylindrical	Hardened Steel - Good Finish - Medium Downfeed
		1	32A60-K8-VEQ	1800	A326375	Surface & Cylindrical	Hardened Steel - Better Finish - Medium Downfeed
		1	WRA46-J8-V8	2185	A541087	Surface & Cylindrical	Hardened Steel - Good Finish - Medium Downfeed
		1	WRA60-H8-V8	1800	A795496	Surface Grinding	High Chromium Die Stls - Med. Feeds - 16 Rms Finish
		1	WRA60-J8-V8	1800	A790141	Surface & Cylindrical	Hardened Steel - Better Finish - Medium Downfeed
		1	RA46-G800-VOS	1800	K299795	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
		1	RA46-H8-V8	1800	A101540	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms Finish
		1	RA46-J8-V8	1800	A101575	Surface & Cylindrical	Hardened Steel - Good Finish - Heavy Downfeed
		1	RA60-H800-VOS	1800	K299796	Surface Grinding	High Carbon / Chrome - Heavy Feed - 16 Rms - Open Structure
		1	RA60-J8-V8	1800	A101621	Surface & Cylindrical	Hardened Steel - Better Finish - Heavy Downfeed
1	8BP46-H800-VOS	1800	K323152	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure		
1	8BP46-I8-V8	1800	A323884	Surface & Cylindrical	Hardened Steel - Good Finish - Ceramic Abrasive		
1	8BP60-I8-V8	2185	A326299	Surface & Cylindrical	Hardened Steel - Better Finish - Ceramic Abrasive		
14 x 1-1/2 x 5		1	97A462-I3F(G800C)VOS	1800	KL99	Surface Grinding	Soft Annealed Steel

**GRINDING WHEELS 14" to 18" DIAMETER 1-800-851-1095**

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
14 x 1-1/2 x 5		1	WA46-H5-V8	1800	A718440	Surface Grinding	Hardened Steel - Good Finish - Light Downfeed
		1	WA46-I8-V8	1800	A315232	Surface & Cylindrical	Hardened Steel - Good Finish - Light Downfeed
		1	WA60-J5-V8	1800	A838462	Surface & Cylindrical	Hardened Steel - Better Finish - Light Downfeed
		1	9A46-H2(G800)VOS	1800	K794	Surface Grinding	Tool Steels to 62 Rc - Lt Feeds - 32 Rms - Open Structure
		1	RAA462-I3F(G800F)VOS	1800	KL27	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	32A46-H8-VEQ	1800	A325057	Surface Grinding	High Carbon Steels > 35 Rc - Med Feeds - 32 Rms Finish
		1	32A46-I8-VEQ	1800	A322183	Surface & Cylindrical	Hardened Steel - Good Finish - Medium Downfeed
		1	WRA46-H8-V8	1800	A804924	Surface Grinding	High Chromium Die Stls - Med Feeds - 32 Rms Finish
		1	WRA46-J8-V8	1800	A790184	Surface & Cylindrical	Hardened Steel - Good Finish - Medium Downfeed
		1	WRA60-I8-V8	1800	A329918	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
		1	RA46-G800-VOS	1800	K293416	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure
	1	RA46-H800-VOS	1800	K295600	Surface Grinding	High Carbon / Chrome - Heavy Feed - 32 Rms - Open Structure	
	1	RA46-J8-V8	1800	A101656	Surface & Cylindrical	Hardened Steel - Good Finish - Heavy Downfeed	
14 x 1-1/2 x 5		1	RA60-J8-V8	1800	A101680	Surface & Cylindrical	Hardened Steel - Better Finish - Heavy Downfeed
		1	8BP46-H8-V8	1800	A329760	Surface Grinding	Hardened Steel - Good Finish - Ceramic Abrasive
		1	8BP46-H800-VOS	1800	K323153	Surface Grinding	Ceramic Abr. - Cool Cut, Long Life - 32 Rms - Open Structure
		1	8BP46-I8-V8	1800	A328682	Surface & Cylindrical	Hardened Steel - Good Finish - Ceramic Abrasive
		1	8BP60-H8-V8	1800	A329761	Surface Grinding	Ceramic Abr. - Long Life - High Carbon / Chrome Stls - 16 Rms Fin.
		1	8BP60-J8-V8	1800	A323154	Surface & Cylindrical	Hardened Steel - Better Finish - Ceramic Abrasive
14 x 1-1/2 x 5	1/S 8 x 1/2	5	32A46-I8-VEQ	1800	G329688	Surface & Cylindrical	Hardened Steel - Good Finish - Medium Downfeed
	1/S 7-1/2 x 1/2	5	WRA46-H5-V8	1800	G301887	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
	1/S 8 x 1/2	5	WRA60-I8-V8	1800	G372419	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
	1/S 8 x 1/2	5	RA46-J5-V8	1800	G125520	Surface & Cylindrical	Hardened Steel - Good Finish - Heavy Downfeed
	1/S 8 x 1/2	5	RA60-J8-V8	1800	G201685	Surface & Cylindrical	Hardened Steel - Better Finish - Heavy Downfeed
	1/S Rld 1/2 DP to 8 FS; A=1/4	20	WRA60-K5-V8	2320	G210145	Surface & Cylindrical	Hardened Steel - Better Finish - Medium Downfeed
14 x 2 x 1-1/4		1	A24-M6-V1	1800	A093580	Bench & Pedestal	Aluminum Oxide - Extra Coarse
		1	A36-O5-V1	1800	A037907	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A60-M5-V1	1800	A097608	Bench & Pedestal	Aluminum Oxide - Fine
14 x 2 x 5	1/S 8 x 1	5	WRA60-J5-V8	1800	G804932	Surface & Cylindrical	Hardened Steel - Better Finish - Medium Downfeed
14 x 2-1/2 x 1-1/4		1	A24-M6-V1	1800	A093815	Bench & Pedestal	Aluminum Oxide - Extra Coarse
		1	A36-O5-V1	1800	A093831	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	1800	A093858	Bench & Pedestal	Aluminum Oxide - Medium
14 x 3 x 1-1/4		1	A36-O5-V1	1800	A143030	Bench & Pedestal	Aluminum Oxide - Coarse
		1	A46-M5-V1	1800	A203823	Bench & Pedestal	Aluminum Oxide - Medium
14 x 4 x 11	B/P 16421	53	GC60-J14-VL	1640	J096709	Sharpening	Plate Mtd Tool Rough Grind - Carbide
	B/P 16421	53	GC120-I14-VL	1640	† J096768	Sharpening	Plate Mtd Tool - Finish Grind - Carbide
14 x T/4	1-1/4R B/P 2077	52	A46-I5-B60	1640	U080152	Knife Grinding	Hardened Steel - Good Finish
	1-1/4R B/P 2077	52	A60-I5-B60	1640	† U080179	Knife Grinding	Hardened Steel - Fine Finish
16 x 1/8 x 1		1	AT462-W8-RB5	3820	S139	Non-Reinforced Cut-Off	High Performance
		1	A24-Z-BNF2	3820	† T629685	Reinforced Cut-Off	High Performance
16 x 5/32 x 1		1	TA24TB(F8)	3820	T316018	Reinforced Cut-Off	Stationary Cut-Off Saw - General Purpose & Production Cutting
		1	TA30RB(F8)	3800	T316019	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
16 x 1 x 5		1	A60-K8-V1	2030	A093947	Cylindrical Grinding	Soft Annealed Steel
		1	WRA60-J5-V1	1910	A095893	Cylindrical Grinding	Hardened Steel - Better Finish - Medium Downfeed
16 x 1 x 8		1	WRA60-J5-V1	1910	A000434	Cylindrical Grinding	Hardened Steel - Better Finish - Medium Downfeed
16 x 4 x 10		1	A80-K8-V1	2030	A262287	Centerless Grinding	General Purpose
18 x 5/32 x 1		1	TA24TB(F8)	3400	7316020	Reinforced Cut-Off	Stationary Cut-Off Saw - General Purpose & Production Cutting
		1	TA30RB(F8)	3400	7316021	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting

1-800-851-1095

## 18" to 30" DIAMETER GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
18 x 3/8 x 9	E Face	1	RAA120-J06-V35	2125	† A314650	Thread & Flute Grinding	Thread Grinding
	E Face 60 Deg.	1	XL1002-S12-BFM-SS	3400	Q318889	Thread & Flute Grinding	Thread Grinding
18 x 2 x 8	1/S 11 x 1/2	5	WRA544-I5-V8	1700	G125199	Surface & Cylindrical	Hardened Steel
18 x 3 x 1-1/2		1	A24-M6-V1	1380	A154393	Bench & Pedestal	Aluminum Oxide - Extra Coarse
		1	A36-O5-V1	1380	A039578	Bench & Pedestal	Aluminum Oxide - Coarse
18 x 5	1-1/2R	2	WAA301-G6-V1	1275	G814466	Surface Grinding	General Purpose
20 x 1/8 x 1		1	A24-R5-B20F8	2715	T159000	Reinforced Cut-Off	General Purpose
		1	A30-Z-BNF2	2715	T629715	Reinforced Cut-Off	High Performance
20 x .140 x 1	Tripholes B/P 2699	1	AT462-W8-RB5	2715	S112	Non-Reinforced Cut-Off	High Performance
20 x 5/32 x 1		1	TA24TB(F8)	3050	T316022	Reinforced Cut-Off	Stationary Cut-Off Saw - General Purpose & Production Cutting
		1	TA30RB(F8)	3050	T316023	Reinforced Cut-Off	Stationary Cut-Off Saw - Fast Cool Cutting
20 x 3/16 x 1		1	A24XB(F8)	3050	T316024	Reinforced Cut-Off	Stationary Cut-Off Saw - Heavy Duty, Gates, Risers High H.P.
		1	A30NB(F8)	3050	T316025	Reinforced Cut-Off	Stationary Cut-Off Saw - H.D., High Volume Cutting Bar Stock
		1	A24-Z-BNF6	2715	T629766	Reinforced Cut-Off	High Performance
20 x 3/8 x 10	E Face 45 Deg. B/P 29671	1	WAA80-J6-V1	1910	A310400	Thread & Flute Grinding	Thread Grinding
20 x 1/2 x 12	C Face 30 Deg. B/P 29450 no paper	1	8A808-T8-B11	2295	Q301553	Thread & Flute Grinding	Drill Pointing
20 x 2 x 8		1	WA60-K5-V1	1625	A298418	Cylindrical Grinding	Hardened Steel - Better Finish - Light Downfeed
		7	97A46-G+800C-VOS	1245	N342472	Surface Grinding	General Purpose
		7	RAA461-G800C-VOS	1245	N342471	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
20 x 2 x 12		1	A60-K5-V1	1625	A250481	Cylindrical Grinding	Soft Annealed Steel
		1	97A46-I3(G+800C)VOS	1245	K261278	Surface Grinding	General Purpose
20 x 3 x 8	2/S 11-1/2 x 1/2	7	97A46-I3(G+800C)VOS	1245	N284	Surface Grinding	General Purpose
		7	RAA461-G800C-VOS	1245	N342473	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
20 x 3 x 10	1/S 12-1/4 x 1/2 O/S 12-1/4 x 1	7	97A46-I3(G+800C)VOS	1245	N051	Surface Grinding	General Purpose
		7	RAA461-G800C-VOS	1245	N342474	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
20 x 4 x 10	2/S 12-1/4 x 1	7	RAA461-G800C-VOS	1245	N342475	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
20 x 4 x 12		1	97A46-G+800C-VOS	1150	KR73	Surface Grinding	General Purpose
20 x 6 x 10	1/S 12-1/4 x 1 O/S 12-1/4 x 2	7	97A46-G+800C-VOS	1245	N342478	Surface Grinding	General Purpose
		7	RAA461-G800C-VOS	1245	N342477	Surface Grinding	Hardened Steel - Good Finish - Medium Downfeed
24 x 3/16 x 1-3/4		1	A24-Z-BNF6	2260	T629790	Reinforced Cut-Off	High Performance
24 x 2 x 12		1	A60-L5-V1	1355	A303341	Cylindrical	Soft Annealed Steel
30 x 1/4 x 1-3/4		1	A24-Z-BNF6	1810	T629871	Reinforced Cut-Off	High Performance
30 x 2 x 12		1	WAA60-K8-V1	830	A267363	Cylindrical	General Purpose
		1	GC60-J5-VL	830	A019801	Cylindrical	Rough Grind - Carbide
30 x 3 x 12		1	WAA60-K8-V1	830	A267365	Cylindrical	General Purpose

All 20 &amp; 24" Centerless Wheels on Page 42

# CENTERLESS

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DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
20 x 4 x 12	1	WAA80-L8-VCT	1245	A342712	Centerless Throughfeed	General Purpose - Longer Life - Better Finish
20 x 6 x 12	1	A60-L5-VCP	1245	A342724	Centerless Plunge	Low Carbon - Annealed Steel - Over 3/8 Part Diameter
	1	A60-M5-VCP	1245	A342725	Centerless Plunge	Low Carbon - Annealed Steel - Under 3/8 Part Diameter
	1	A80-L5-VCP	1245	A342726	Centerless Plunge	Low Carbon - Annealed Steel - Fine Forms
	1	WAA60-K8-VCT	1245	A342713	Centerless Throughfeed	General Purpose
	1	WAA60-L8-VCT	1245	A342714	Centerless Throughfeed	General Purpose - Longer Life
	1	WAA80-L8-VCT	1245	A342715	Centerless Throughfeed	Medium Carbon - Hardened Steel - Under 1/4 Part Diameter
20 x 8 x 12	1	CA54-Q8-B7595	1245	Q267352	Centerless Throughfeed	General Purpose - Heavy Feed
	1	CA54-Q6-B	1245	Q342487	Centerless Throughfeed	General Purpose - Heavy Feed
	1	A60-L5-VCP	1245	A342727	Centerless Plunge	Low Carbon - Annealed Steel - Over 3/8 Part Diameter
	1	WAA60-K8-VCT	1245	A342716	Centerless Throughfeed	General Purpose
	1	WAA60-L8-VCT	1245	A342717	Centerless Throughfeed	General Purpose - Longer Life
	1	WAA80-L8-VCT	1245	A342718	Centerless Throughfeed	Medium Carbon - Hardened Steel - Under 1/4 Part Diameter
24 x 4 x 12	1	CA54-Q6-B	1245	Q342488	Centerless Throughfeed	General Purpose - Heavy Feeds
	1	CA80-R7-B	1815	Q381424	Centerless Throughfeed	General Purpose - Good Finish
	1	WAA80-L8-VCT	1355	A342719	Centerless Throughfeed	Medium Carbon - Hardened Steel - Under 1/4 Part Diameter
24 x 6 x 12	1	WAA60-K8-VCT	1035	A342720	Centerless Throughfeed	General Purpose
24 x 8 x 12	1	WAA60-K8-VCT	1035	A342721	Centerless Throughfeed	General Purpose
	1	WAA60-L8-VCT	1035	A342722	Centerless Throughfeed	General Purpose - Longer Life
	1	CA54-Q6-B	1035	Q342490	Centerless Throughfeed	General Purpose - Heavy Feeds
24 x 10 x 12	1	WAA60-K8-VCT	1035	A342491	Centerless Throughfeed	General Purpose
24 x 20 x 12	1	WAA60-K8-VCT	1035	A342723	Centerless Throughfeed	General Purpose

## RUBBER REGULATING WHEELS

### RUBBER REGULATING WHEELS

Rubber bonded regulating wheels offer superior tolerance and speed control without slippage.

#### A80-R-R242

- Precision Grinding
- Maximum Tolerance Control

DIMENSION	OTHER DIMENSION	TYPE	SPECIFICATION	PRODUCT NUMBER	PRODUCT USE	APPLICATION
9 x 4 x 4		1	A80-R-R242	4006	Feed Wheel	General Purpose
12 x 2 x 5		1	A80-R-R242	4021	Feed Wheel	General Purpose
12 x 4 x 5		1	A80-R-R242	4010	Feed Wheel	General Purpose
12 x 6 x 5	Rec 1/s 7-1/2x 1-1/2 O/s 7-1/2 x 1/2	7	A80-R-R242	4069	Feed Wheel	General Purpose
12 x 6 x 5	Rec 2/s 7-1/2 x 1-1/2	7	A80-R-R242	4087	Feed Wheel	General Purpose
12 x 8 x 5	Rec 1/s 7-1/2 x 1-1/2 O/s 7-1/2 x 2-1/2	7	A80-R-R242	4070	Feed Wheel	General Purpose
14 x 8 x 5	Rec 1/s 8 x 1-1/2 O/s 8 x 2	7	A80-R-R242	4090	Feed Wheel	General Purpose

**Make Availability**

#### SPECIFICATIONS

Abrasive: A  
Grit Size 60 - 220  
Grade: P, R, T  
Bond R242

#### DIMENSIONAL

Diameter: 8" - 14"  
Thickness: 1" - 10"  
Wheel Type: 1, 5, 7  
Special Face: Available on Request

## GRINDING COOLANT



### GRINDING COOLANT

DESCRIPTION	PKG QTY	COLOR	PRODUCT NUMBER
1 Gallon	1	Pink	7381957
5 Gallon	1	Pink	7381958



SET	DIMENSIONS	TYPE	SPECIFICATION	BLUE PRINT	PRODUCT NUMBER	PRODUCT USE
RA2	4-3/16 x 2 x 5-1/2	50	RA46-H5-V8	26401	P527971	Sharpening Planer And Chipper Knives
NO	5 x 1-1/2 x 6	50	97A24-F800-VOS	1913	P354572	General Purpose - Easy to Grind Material - Up to 35 Horsepower
			97A30-G800-VOS	1913	P282355	General Purpose - Easy to Grind Material - 40 to 50 Horsepower
			97A30-H800-VOS	1913	P282356	General Purpose - Easy to Grind Material - 75 to 150 Horsepower
			97A30-I800-VOS	1913	P282357	General Purpose - Easy to Grind Material - Above 150 Horsepower
			RAA30-E800-VOS	1913	P415329	Hardened Steel - Up to 35 Hp
			RAA30-F800-VOS	1913	P402451	Hardened Steel - Up to 35 Hp
			RAA30-G800-VOS	1913	P388002	Hardened Steel - 40 to 50 Hp
			8A24-F800-VOS	1913	P354573	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
			8A30-E800-VOS	1913	P355683	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
			8A30-F800-VOS	1913	P354574	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
			8A30-G800-VOS	1913	P354575	Hardened Steel - Difficult to Grind - 40 to 50 Horsepower
			8A30-H800-VOS	1913	P354576	Hardened Steel - Difficult to Grind - Above 75 Horsepower
		50	7BP30-G800-VOS	1913	P336197	Ceramic Abrasives - High Performance - Above 75 Horsepower
CP14	5-5/16 x 1-1/2 x 5	50	WAA46-H5-V8	1943	P461504	Sharpening Planer And Chipper Knives
STG 18A	6-3/4 x 1-1/2 x 6	50	97A24-F800-VOS	2063	P354577	General Purpose - Easy to Grind Material - Up to 35 Horsepower
			97A30-F800-VOS	2063	P354578	General Purpose - Easy to Grind Material - Up to 35 Horsepower
			RAA30-E800-VOS	2063	P415328	Hardened Steel - Up to 35 Hp
			RAA30-F800-VOS	2063	P391606	Hardened Steel - Up to 35 Hp
			RAA30-G800-VOS	2063	P413863	Hardened Steel - 40 to 50 Hp
			8A24-F800-VOS	2063	P354579	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
			8A30-F800-VOS	2063	P354580	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
CD	11-1/4 x 2-1/4 x 6	50	97A24-F800-VOS	2697	P354553	General Purpose Easy to Grind Material - Up to 35 Horsepower
			97A24-G800-VOS	2697	P051	General Purpose Easy to Grind Material - 40 to 50 Horsepower
			97A24-H800-VOS	2697	P040	General Purpose Easy to Grind Material - 75 to 150 Horsepower
			97A30-F800-VOS	2697	P282324	General Purpose Easy to Grind Material - Up to 35 Horsepower
			97A30-G800-VOS	2697	P282325	General Purpose Easy to Grind Material - 40 to 50 Horsepower
			97A30-H800-VOS	2697	P282326	General Purpose Easy to Grind Material - 75 to 150 Horsepower
			RAA30-E800-VOS	2697	P369114	Hardened Steel - Up to 35 Hp
			RAA30-F800-VOS	2697	P380333	Hardened Steel - Up to 35 Hp
			RAA30-G800-VOS	2697	P380334	Hardened Steel - 40 to 50 Hp
			9A30-E800-VOS	2697	P415048	Heat Sensitive Materials - Cool, Free Cutting
			9A30-F800-VOS	2697	P415049	Heat Sensitive Materials - Cool, Free Cutting
			9A30-G800-VOS	2697	P410386	Heat Sensitive Materials - Cool, Free Cutting
			8A24-F800-VOS	2697	P354555	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
			8A24-G800-VOS	2697	P354556	Hardened Steel - Difficult to Grind - 40 to 50 Horsepower
			8A30-E800-VOS	2697	P355682	Hardened Steel - Difficult to Grind - Up to 35 Horsepower

## SEGMENTS

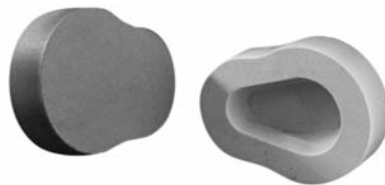
1-800-851-1095

SET	DIMENSIONS	TYPE	SPECIFICATION	BLUE PRINT	PRODUCT NUMBER	PRODUCT USE
CD	11-1/4 x 2-1/4 x 6	50	8A30-F800-VOS	2697	P351299	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
		50	8A30-G800-VOS	2697	P350892	Hardened Steel - Difficult to Grind - 40 to 50 Horsepower
		50	8A30-H800-VOS	2697	P354557	Hardened Steel - Difficult to Grind - Above 75 Horsepower
		50	7BP30-F800-VOS	2697	P336422	Ceramic Abrasives - High Performance - 25 to 50 Horsepower
		50	7BP30-G800-VOS	2697	P339914	Ceramic Abrasives - High Performance - Above 75 Horsepower
CDXL	11-1/4 X 2-1/4 X 8	50	97A24-G800-VOS	26448	P360631	General Purpose - 40 to 50 Hp
		50	97A30-F800-VOS	26448	P322080	General Purpose - Up to 35 Hp
		50	9A30-E800-VOS	26448	P414884	Heat Sensitive Materials - Cool, Free Cutting
		50	9A30-G800-VOS	26448	P413105	Heat Sensitive Materials - Cool, Free Cutting
		50	8A24-G800-VOS	26448	P355552	Hardened Steel - 40 to 50 Hp
		50	8A30-F800-VOS	26448	P360384	Hardened Steel - Up to 35 Hp
CDXTL	11-1/4 x 3 x 8	50	97A24-F800-VOS	26306	P354563	General Purpose - Easy to Grind Material - Up to 35 Horsepower
		50	97A30-F800-VOS	26306	P282344	General Purpose - Easy to Grind Material - Up to 35 Horsepower
		50	97A30-G800-VOS	26306	P282345	General Purpose - Easy to Grind Material - 40 to 50 Horsepower
		50	RAA30-E800-VOS	26306	P414761	Hardened Steel - Up to 35 Hp
		50	RAA30-F800-VOS	26306	P404103	Hardened Steel - Up to 35 Hp
		50	RAA30-G800-VOS	26306	P414762	Hardened Steel - 40 to 50 Hp
		50	9A30-E800-VOS	26306	P379505	Heat Sensitive Materials - Cool, Free Cutting
		50	9A30-F800-VOS	26306	P383691	Heat Sensitive Materials - Cool, Free Cutting
		50	9A30-G800-VOS	26306	P413561	Heat Sensitive Materials - Cool, Free Cutting
		50	9A30-H800-VOS	26306	P413562	Heat Sensitive Materials - Cool, Free Cutting
		50	8A24-F800-VOS	26306	P354565	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
		CDXTL	11-1/4 X 3 X 8	50	8A30-F800-VOS	26306
50	8A30-G800-VOS			26306	P354567	Hardened Steel - Difficult to Grind - 40 to 50 Horsepower
50	7BP30-F800-VOS			26306	P352050	Ceramic Abrasives - High Performance - 25 to 50 Horsepower
50	7BP30-G800-VOS			26306	P342470	Ceramic Abrasives - High Performance - Above 75 Horsepower
AA1	11-5/16 x 2-1/8 x 6			50	97A30-F800-VOS	2578
		50	97A30-G800-VOS	2578	P282315	General Purpose - Easy to Grind Material - 40 to 50 Horsepower
		50	8A24-F800-VOS	2578	P354569	Hardened Steel - Difficult to Grind - Up to 35 Horsepower
		50	8A30-G800-VOS	2578	P354571	Hardened Steel - Difficult to Grind - 40 to 50 Horsepower

## Burr Busters

## Burr Busters

For a wide range of touchup and close tolerance jobs, table flatness is absolutely crucial. Radic's specially designed Burr Busters ensure this flatness. They have an easy to use shape which prevents loading up and is self sharpening. Eliminate slow downs and make shift deburring with our fast, accurate, and easy action product.



DESCRIPTION	COLOR	SPECIFICATION	PKG QTY	PRODUCT NUMBER
1-3/8 x 4-1/2 x 6	Green	Carbide	6	F374431
	Gold	Aluminum Oxide	6	F374430

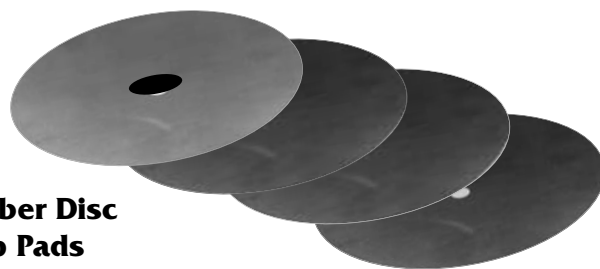


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**FIBER DISCS**

DIMENSION	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
4 x 5/8	61	A24	13300	† C316074	Sanding Discs	Resin Fiber - Grinding
	61	A36	13300	† C316075	Sanding Discs	Resin Fiber - Finishing
	61	A60	13300	† C316076	Sanding Discs	Resin Fiber - Polishing
4-1/2 x 7/8	61	A24	13300	C316077	Sanding Discs	Resin Fiber - Grinding
	61	A36	13300	C316078	Sanding Discs	Resin Fiber - Finishing
	61	A60	13300	C316079	Sanding Discs	Resin Fiber - Polishing
5 x 7/8	61	A24	11000	C316080	Sanding Discs	Resin Fiber - Grinding
	61	A36	11000	† C316081	Sanding Discs	Resin Fiber - Finishing
	61	A60	11000	† C316082	Sanding Discs	Resin Fiber - Polishing
7 x 7/8	61	A24	7600	C316083	Sanding Discs	Resin Fiber - Grinding
	61	A36	7600	† C316084	Sanding Discs	Resin Fiber - Finishing
	61	A60	7600	C316085	Sanding Discs	Resin Fiber - Polishing
9 x 7/8	61	A24	6000	† C316150	Sanding Discs	Resin Fiber - Grinding
	61	A36	6000	† C316151	Sanding Discs	Resin Fiber - Finishing
	61	A60	6000	† C316152	Sanding Discs	Resin Fiber - Polishing
4-1/2 x 7/8	61	YNB24	13300	C333959	Sanding Discs	High Performance Zirconia Fiber - Grinding
	61	YNB36	13300	† C333960	Sanding Discs	High Performance Zirconia Fiber - Finishing
	61	YNB60	13300	C333961	Sanding Discs	High Performance Zirconia Fiber - Polishing
5 x 7/8	61	YNB24	11000	† C333962	Sanding Discs	High Performance Zirconia Fiber - Grinding
	61	YNB36	11000	C333963	Sanding Discs	High Performance Zirconia Fiber - Finishing
	61	YNB60	11000	C333964	Sanding Discs	High Performance Zirconia Fiber - Polishing
7 x 7/8	61	YNB24	7600	† C333965	Sanding Discs	High Performance Zirconia Fiber - Grinding
	61	YNB36	7600	C333966	Sanding Discs	High Performance Zirconia Fiber - Finishing
	61	YNB60	7600	† C333967	Sanding Discs	High Performance Zirconia Fiber - Polishing
9 x 7/8	61	YNB24	6000	† C333968	Sanding Discs	High Performance Zirconia Fiber - Grinding
	61	YNB36	6000	C333969	Sanding Discs	High Performance Zirconia Fiber - Finishing
	61	YNB60	6000	C333970	Sanding Discs	High Performance Zirconia Fiber - Polishing

DIMENSIONS	PRODUCT NUMBER	PKG QTY	GENERAL APPLICATION
4	† C354730	1	Medium Flex
4-1/2	C354731	1	Medium Flex
5	† C354732	1	Medium Flex
7	C354733	1	Medium Flex
9	† C354734	1	Medium Flex

**Resin Fiber Disc  
Back-up Pads**

# FLAP DISCS

1-800-851-1095



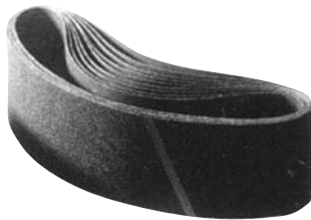
Type 27



Type 29

DIMENSIONS	TYPE	GRIT	MAX RPM	PKG QTY	PRODUCT NUMBER	PRODUCT USE
4-1/2 x 7/8	27	A40	13300	10	C351037	General Purpose
4-1/2 x 7/8	27	A60	13300	10	C351038	General Purpose
4-1/2 x 7/8	27	A80	13300	10	C351039	General Purpose
4-1/2 x 7/8	27	Z40	13300	10	† C351040	High Performance
4-1/2 x 7/8	27	Z60	13300	10	C351041	High Performance
4-1/2 x 7/8	27	Z80	13300	10	† C351042	High Performance
4-1/2 x 7/8	29	A40	13300	10	C351025	General Purpose
4-1/2 x 7/8	29	A60	13300	10	C351026	General Purpose
4-1/2 x 7/8	29	A80	13300	10	C351027	General Purpose
4-1/2 x 7/8	29	Z60	13300	10	C351050	High Performance
4-1/2 x 7/8	29	Z80	13300	10	C351051	High Performance

# RESIN BONDED BELTS



**General Purpose  
A/O "X" WT. Resin  
Bonded Belts**

DIMENSIONS	GRIT	PKG QTY	PRODUCT NUMBER
6" X 48"	40	10	C354888
	60	10	C354889
	80	10	C354890
	120	10	C354891

**Alumina Zirconia  
A/Z 100% "Y" WT.  
Resin Bonded Belts**

DIMENSIONS	GRIT	PKG QTY	PRODUCT NUMBER
6" X 48"	40	10	C354868
	60	10	C354869

# 1-800-851-1095 EPOXY BONDED WHEELS

## AVAILABILITY

ABRASIVES	GRIT SIZE	HARDNESS	STRUCTURE	BOND
<u>Aluminum Oxides</u>	<u>Coarse</u>	E - Soft	Blank - Standard	P4-Aggressive
WA - Friable	36,46,60	F	900 series - OPen structure	High Stock Removal
8A - semifriable		G		
WAA - Semifriable		H		
<u>Silicon Carbides</u>	<u>Medium</u>	I		
GC - Friable	80,90,100, 120	J		
C - Durable		K		
<u>Combinations</u>	<u>Fine</u>	L		
CWA - Silicon Carbide &	150, 180, 220	M		
Aluminum Oxide	280, 320	N		
9BL - Ceramic Mixture		O		
8BP - Ceramic Mixture		P		

## APPLICATION/RECOMMENDATION FOR CUTLERY AND CLEARING

APPLICATION	PART	MATERIAL	GRIND LENGTH	SPECIFICATION
Hollow Grind Type 6, 6A, 6B	Knife Blades	Carbon Steel	3" or less	8A120-H-P4
			Over 3"	8A80-H-P4
	Stainless Steel	3" and less	8A120-J-P4	
		ATS-34	All	8A120-H-P4
Hollow Grind Type 1	Knife Blades	Carbon Steel	3" or less	8A120-M-P4
			Over 3"	8A80-M-P4
Flat Grind Type 2, 2A, 2B, 52	Knife Blades	Carbon Steel	All	8A80-H-P4
		ATS-34	All	8A120-H-P4
	Putty Knives	Carbon Steel	All	8A120-H-P4
		Stainless Steel	All	8A80-H-P4
	Scraper Blades	Carbon Steel	All	8A120-J-P4
	Chisels	Carbon Steel	All	8A80-H-P4
Flat Grind Type 1	Rotary Blades	Carbon Steel	All	8A150-H-P4
		Stainless Steel	All	8A150-J-P4
	Surgical Blades	Stainless steel	All	WAA320-H-P4
Clearance Grind	Drill Bits	All Steels	Up to 5"	9PL80-K922-P4
Over 5"			9BL80-M922-P4	



# PRECISION (SOFT) RUBBER

1-800-851-1095

MATERIAL	TYPE OF GRINDING	GRINDING	STARTING SPECIFICATIONS	POLISHING
<b>Aerospace Turbine Blades</b>				
Titanium/Nimonic	Bench	A60-M-R95		C80-R-R75
Inconel	Portable	A80-M-R95		C80-R-R75
	Bench	A60-M-R95		A80-R-R75
Steel	Portable	A80-M-R95		A100-N-R75
	Bench	A60-M-R95		C100-R-R75
Stainless	Portable	A80-M-R95		A100-N-R75
	Bench	A60-M-R95		C100-R-R75
Nickel Alloy	Portable	A80-M-R95		A100-N-R75
	Bench	A60-M-R95		A80-L-R75
<b>Tool Room Mfg. &amp; Main.</b>				
Rotary Cutting Tools	Flute			WAA100-W-R100
	Clearing	WAA100-W-R100		
Specialty Drills (Dental, Prosthesis)	Flute	WAA100-P-R105		
Bearing Races	Race	WAA100-P-R105		
Twist Drill	Bench	A46-M-R75		
HSS Drill Bit/End Mill Sharpening	Bench	A240-M-R85		
Carbide Drill Bit Sharpening	Bench	A240-M-R85		
<b>Weld Blending and Deburring</b>				
Braze between carbide tips & holder	Bench	A46-P-R75		
Stainless Steel	Portable	A46-K-R90		A60-Q-R75
	Bench	A46-M-R95		A60-Q-R75
<b>Cutlery and Hand Tools</b>				
Knives (hollow grinder)	Surface			A100-M-R70
Scissors	Surface	RAA120-M-R85		
Knives	Surface	RAA120-M-R85		
Knife Bolsters	Surface	A120-P-R95		
High Carbon Steel (scale removal)	Bench	A46-K-R95		A60-L-R80
<b>Miscellaneous</b>				
Jewelry	Bench	A240-L-R85		
Saw Blanks	Surface			A60-K-R90
Glass Edging	Surface	A180-N-R70		

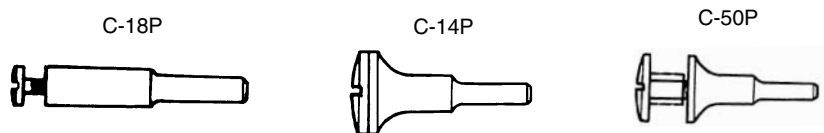
	DIMENSION	THICKNESS	ALUMINUM	SILICON	REINFORCEMENT
<b>THIN REINFORCED RESIN BONDED CUT-OFF WHEELS</b>	1"	.0312 - .040 (1/32)	A 13-80	C 13-80	HSS only
	2"	.0312 - .040 (1/32)	A 13-80	C 13-80	HSS or HSC
	2-1/2"	.050 - .0625 (1/16)	A 13-60	C 13-60	HSS or HSC
	3"	.050 - .0625 (1/16)	A 13-60	C 13-60	HSS or HSC
	3-1/2"	.937 - .125 (1/8)	A 13-24	C 13-24	HSS or HSC
	4"	.937 - .125 (1/8)	A 13-24	C 13-24	HSS or HSC

For deburring, hand cutting and small weld clean up. Aluminum Oxide wheels suitable for steel. Silicon Carbide for glass, ceramic and new alloys.

HSS - Side Reinforced  
HSC - Center Reinforced

SIZE	FOR WHEELS .035" TO 1/4" THICK	PRODUCT NUMBER	FOR WHEELS 3/8" TO 1/2" THICK
<b>MANDRELS FOR DIE GRINDING</b>			
1/8 x 1/4 Shank	C-18P	7318446	-
1/4 x 1/4 Shank	C-14P	7318447	-
3/8 x 1/4 Shank	C-38P	7318448	-
3/8 x 1/4 Shank	-	7318451	C-38L

Radiac mandrels are made with the operator's safety in mind. High strength alloy steel. Precision machined and heat treated. Recessed flanges to hold the wheel straight and true for maximum operator control and wheel life. Designed to meet ANSI & OSHA requirements. See pages 16-20 for Die Grinding Wheels.



# 1-800-851-1095 RUBBER CUT-OFF

	BOND	ABRASIVE	GRIT	GRADE
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Free Cut  
↓  
Long Life

R30	A	120	F, M, R
R35	A,C	80, 90, 100, 120	F, M, R
R40	A	60, 80, 90, 100, 120	F, M, R
R45	A	90, 100, 120, 150, 180, 240	F, M, R
R50	A	80, 90, 100, 120, 150	F, M, R
R55	A	150, 180, 240, 320, 400	F, M, R
R60	A, C	120, 160, 180, 240, 320, 400	F, M, R, U

## SPECIALTY/RUBBER CUT-OFF

For industries that manufacture control cables, magnets, thin wall stainless steel tubing and other exotic materials. Where tight tolerances and burr-free cuts are a must.

## CUT-OFF WHEELS FOR METALLURGICAL SPECIMENS

For fast, accurate, burr-free finishes with no structural changes of material. High precision cuts.

### DIMENSIONAL AVAILABILITY

Diameter	Thickness	Thickness Tolerance
2"-3"	.004-.030"	± .001"
4"	.005-.030"	± .001"
5"	.008-.030"	± .001"
6"	.010-.030"	± .001"
7"	.014-.030"	± .001"
8"-12"	.020-.032"	± .003"
>12"-20"	.032-.185"	± .005"

\* ALL RUBBER CUTOFFS ARE MANUFACTURED ITEMS.

APPLICATION	MATERIAL	STARTING SPECIFICATION
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### Automotive Industry

Tungsten Contacts	Tungsten	A120-M-R60
Sprag Clutches	Mild Steel	A120-M-R60
Control Cables	Hardened Steel	A150-M-R45
Pump Valves	Hardend Steel	A120-M-R60
Diesel Glow Plugs	Alnico	A90-F-R35
Forgings and Castings	Various	A90-F-R35
Piston Ring Slotting	Hardened Steel	A120-M-R50

### Aerospace Industry

Metallurgical Sampling	High Nickel Alloy, Titanium	A90-F-R35
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### Medical Industry

Hypodermic Needles	Stainless Steel	A400-F-R55
Dental Slotting	False Teeth	A150-M-R55

### Electrical Industry

Transformer Cores	Epoxy Laminated Steel	A120-M-R50
Contacts	Tungsten, Silver, Molybdenum	A120-M-R60
Wires/Slugs	Tungsten, Silver, Molybdenum	A120-F-R35
Magnets	Alnico	C120-F-R35
Light Components	Tungsten, Molybdenum, Nickel	A90-M-R45
Thermocouples	Ceramic	C320-M-R60

### General Industries

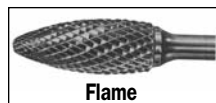
Pen Nibs	Stainless Steel	A400-U-R60
Computer Printing Heads	Tungsten, Steel	A120-F-R35
Collet Slotting	Mild Steel	A60-M-R40
Drills, Taps, End Mills	HSS	A120-M-R30 A120-M-R60
Carding Wire, Side Grinding	Stainless Steel	A120-M-R60
Tube Cutting	Brass, Copper Aluminum Stainless Steel	C320-M-R60 A240-M-R55 A400-F-R55
Fork Pronging	Mild Steel	A120-M-R45
Saw Blade Sharpening	Hardened Steel	A100-R-R45
Shower Hose	—	A120-M-R45
Ejector Pins	Hardened Steel	A120-F-R35

# CARBIDE BURRS

1-800-851-1095

## DoubleCut 1/4" Shank for Steel/Cast Iron

HEAD DIAMETER/ HEAD LENGTH	LENGTH	SHAPE	PRODUCT NUMBER	HEAD DIAMETER/ HEAD LENGTH	LENGTH	SHAPE	PRODUCT NUMBER
5/16 x 3/4	2-1/2	Cylinder	7348426	3/8 x 3/4	2-1/2	Tree	7348443
3/8 x 3/4	2-1/2	Cylinder	7348427	1/2 x 3/4	2-1/2	Tree	7348444
1/2 x 3/4	2-1/2	Cylinder	7348428	1/2 x 1	2-3/4	Tree	7348445
1/4 x 3/4	2	Cone	7348429	5/16 x 5/16	2	Ball	7348446
3/8 x 5/8	2-1/2	Cone	7348430	3/8 x 3/8	2-1/8	Ball	7348447
1/2 x 3/4	2-1/2	Cone	7348431	1/2 x 1/2	3-1/4	Ball	7348448
1/2 x 7/16	2-1/2	Counter Sink	7348432	1/4 x 1/2	2	Flame	7348449
3/8 x 3/16	2-1/4	Counter Sink	7348433	5/16 x 3/4	2-1/2	Flame	7348450
5/8 x 5/16	2-1/2	Counter Sink	7348434	1/4 x 5/8	2	Ball Nosed Tree	7348451
5/16 x 3/4	2-1/2	Ball Nosed Cylinder	7348435	3/8 x 3/4	2-1/2	Ball Nosed Tree	7348452
3/8 x 3/4	2-1/2	Ball Nosed Cylinder	7348436	1/2 x 1	2-3/4	Ball Nosed Tree	7348453
1/2 x 3/4	2-1/2	Ball Nosed Cylinder	7348437	3/8 x 3/4	6-3/4	Cylinder	7348454
3/8 x 3/4	2-1/2	Ball Nosed Cone	7348438	3/8 x 3/4	6-3/4	Ball Nosed Cylinder	7348455
3/8 x 1	3	Ball Nosed Cone	7348439	3/8 x 1	7	Ball Nosed Cone	7348456
1/2 x 1-3/16	3	Ball Nosed Cone	7348440	3/8 x 3/4	6-3/4	Tree	7348457
5/16 x 1/2	2-1/4	Oval	7348441	3/8 x 3/8	6-1/2	Ball	7348458
3/8 x 5/8	2-3/8	Oval	7348442	3/8 x 3/4	6-3/4	Ball Nosed Tree	7348459

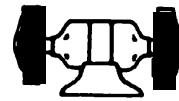


## Non Ferrous Cut 1/4 Inch Shank (For Aluminum)

HEAD DIAMETER/ HEAD LENGTH	LENGTH	SHAPE	PRODUCT NUMBER
3/8 x 3/4	2-1/2	Ball Nosed Cylinder	7348460
1/2 x 1	2-3/4	Ball Nosed Cylinder	7348461
3/8 x 1	2-3/4	Ball Nosed Cone	7348462
1/2 x 1-1/4	3	Ball Nosed Cone	7348463
3/8 x 3/4	2-1/2	Ball Nosed Tree	7348464
1/2 x 1	2-3/4	Ball Nosed Tree	7348465
3/8 x 3/4	2-1/2	Cylinder	7348466
1/2 x 1	2-3/4	Cylinder	7348467
3/8 x 5/16	2-1/8	3/8 x 5/16 Ball	7348468
1/2 x 7/16	3-1/4	1/2 x 7/16 Ball	7348469
3/8 x 3/4	6-3/4	Cylinder	7348470
3/8 x 3/4	6-3/4	Ball Nosed Cylinder	7348471
3/8 x 1	7	Ball Nosed Cone	7348472
3/8 x 5/16	6-5/16	3/8 x 5/16 Ball	7348473
1/2 x 7/16	6-7/16	1/2 x 7/16 Ball	7348474
3/8 x 3/4	6-3/4	Ball Nosed Tree	7348475

# 1-800-851-1095 WIRE BRUSH WHEELS

WHEEL DIAMETER	WIRE SIZE	TYPE	WHEEL FACE	MOUNTING TYPE	MAX R.P.M.	PRODUCT NUMBER
6"	.014"	Coarse	Narrow	5/8 - 1/2 AH	6000	7337267
6"	.006"	Fine	Narrow	5/8 - 1/2 AH	6000	7337268
6"	.014"	Coarse	Wide	5/8 - 1/2 AH	6000	7337269
8"	.014"	Coarse	Narrow	5/8 - 1/2 AH	6000	7337270
8"	.014"	Coarse	Wide	5/8 - 1/2 AH	6000	7337271



## Wire Brush Wheels

Heavy Duty with Superior Durability and Performance

- Fatigue resistant steel
- Long life
- Cleaning Blending
- Surface Conditioning



Superior quality Wire Brush Wheels made in the U.S.



	WHEEL DIAMETER	WIRE SIZE	MANDREL O.D.	WIRE TYPE	MOUNTING TYPE	PRODUCT NUMBER
SOLID END CRIMPED	3/4"	0.02	1/4"	Crimped wire	Mandrel	7341450
	1"	0.02	1/4"	Crimped wire	Mandrel	7341451
	3/4"	0.014	1/4"	Crimped wire	Mandrel	7341452
	1"	0.014	1/4"	Crimped wire	Mandrel	7341453
HOLLOW END KNOT TWIST	3/4"	0.02	1/4"	Twisted wire	Mandrel	7341454
	1-1/8"	0.02	1/4"	Twisted wire	Mandrel	7341455
	3/4"	0.014	1/4"	Twisted wire	Mandrel	7341456
	1-1/8"	0.014	1/4"	Twisted wire	Mandrel	7341457
CIRCULAR FLARED CRIMPED	1"	0.02	1/4"	Crimped wire	Mandrel	7352623
	1-1/4"	0.02	1/4"	Crimped wire	Mandrel	7352624
	1-1/2"	0.02	1/4"	Crimped wire	Mandrel	7352625



All brushes made of high quality carbon steel



### Solid End Crimped Brushes

- Light carbon removal
- Light rust removal
- Fatigue resistant steel
- Use in diegrinders or drills
- Excellent light material removal



### Hollow End Knot Twist

- Heavy carbon removal
- Fatigue resistant steel
- Very aggressive
- Long life
- Use in diegrinders or drills



### Circular Flared Wire Brush

- Very aggressive carbon removal
- For use in cylinder head ports
- Use in diegrinders or drills
- Super Product

WHEEL DIAMETER	WIRE SIZE	TYPE	MAX R.P.M.	MOUNTING TYPE	PRODUCT NUMBER
2-3/4"	.020	Extra Coarse	14000	5/8-11 UNCL	7337272
3"	.014	Coarse	13000	5/8-11 UNCL	7337273
4"	.014	Coarse	20000	5/8-11 UNCL	7337275
4"	.020	Coarse	9000	5/8-11 UNCL	7337276
4"	.023	Extra Coarse	9000	5/8-11 UNCL	7337277

## Knot Cup Brushes

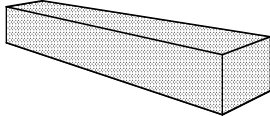
- Heavy Duty Cleaning
- Deburring
- Weld Scale, corrosion removal
- Cleaning prior to welding



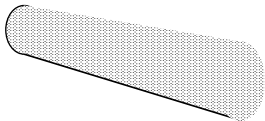
## BRICKS, STICKS &amp; STONES

1-800-851-1095

**Dressing Sticks** are used to condition the grinding wheel face to ensure a free cutting action. Dressing sticks are also used to generate contours on grinding wheels.



**Square file** applications range from dimensioning keyways to maintain fit, stoning radial faces on router bits, touching-up edges of reamer teeth, and lapping/honing to close tolerances while producing the finest edge on precision instruments, die work and delicate tools.



**Round files** are ideal for deburring, chamfering, radiusing, lapping, honing, for cleaning radius tools to a burr free edge, and for dimensioning compound curves on templates.

DIMENSIONS	TYPE	SPECIFICATION	PKG QTY	PRODUCT NUMBER	PRODUCT USE
1/4 x 3/4 x 4	60	WA90-L6-V2	20	F087726	Jointer Stone
3/8 x 3/4 x 4	60	A100-Q5-V1	20	F087173	Jointer Stone
3/8 x 3/4 x 4	60	C150-G8-VL	10	F088021	Dresser Stick
3/8 x 3/4 x 4	60	WA60-L5-V8	20	† F087556	Jointer Stone
	60	WA80-L5-V8	20	F087530	Jointer Stone
	60	WA90-L5-V2	20	F087750	Jointer Stone
	60	WA240-H-V8	20	† F879258	Jointer Stone
	60	WA100-Coarse	20	F230006	Conditioning Stick
	60	WA150-Medium	20	F230005	Conditioning Stick
	60	WA220-Fine	20	F230007	Conditioning Stick
1/2 x 1/2 x 4	60	C24-Q5-VL	10	F087319	Dresser Stick
1/2 x 1/2 x 6	60	C24-Q5-VL	10	F104841	Dresser Stick
1/2 x 3/4 x 3	60	WA80-L5-V8	20	F087769	Jointer Stone
1/2 x 3/4 x 4	60	A100-Q5-V1	20	F087203	Jointer Stone
1/2 x 3/4 x 4	60	WA60-L5-V8	20	† F087521	Jointer Stone
1/2 x 3/4 x 4	60	WA60-M5-V8	20	F087777	Combination Oil Stone
	60	WA80-L5-V8	20	F087785	Jointer Stone
	60	WA90-L5-V2	20	F087700	Jointer Stone
1/2 x 3/4 x 4	60	GC180-L6-VL	20	F086975	Carbide Tool Stone
1/2 x 6	60	C36-S4-VL	10	† 7087424	Dresser Stick
3/4 x 3/4 x 4	60	A100-Q5-V1	20	F087270	Jointer Stone
	60	C180-L6-VL	20	F087815	Jointer Stone
	60	WA60-L5-V8	20	F087696	Jointer Stone
	60	WA60-M5-V8	20	F087670	Jointer Stone
	60	WA80-L5-V1	20	F087491	Jointer Stone
	60	WA90-L5-V2	20	F087548	Jointer Stone
	60	WA100-Coarse	20	F222222	Conditioning Stick
	60	WA150-Medium	20	F211111	Conditioning Stick
	60	WA220-Fine	20	F233333	Conditioning Stick
1 x 1 x 6	60	C24-Q5-VL	10	F087343	Dresser Stick
1 x 1 x 8	60	C24-Q5-VL	10	F287415	Dresser Stick
1 x 2 x 6	60	A320-M-V1	10	7086789	Combination Oil Stone
	60	C20-Q5-VL	5	7138886	Combination Oil Stone
1 x 2 x 8	60	A320-M-V1	10	7086762	Combination Oil Stone
	60	C280-M5-VL	10	7086770	Combination Oil Stone
	60	C20-Q5-VL	5	† F138916	Combination Oil Stone
1 x 4 Round	60	C280-L6-VL	10	7087009	Combination Oil Stone
1-1/4 x4	60	C100-L5-VL	10	7138878	Machine Knife Stone
2 x 2 x 6	60	C20-Q5-V64	5	7086878	Plain Brick
2 x 2 x 8	60	C20-Q5-VL	5	† 7086894	Fluted Brick



# 1-800-851-1095 DIAMOND TOOLS

In addition to the products below, Radiac offers a full line of Diamond Dressers including Cluster Blade Tools, Chisel Points, Pantocrush Dressers, Diaform Dressers, and PCD/PCBN Tools. Please contact us at 800-223-0457 for full product line availability and engineering assistance.

### DISPOSABLE QUALITY

3/8" x 2 or 7/16 x 2		5/8" Head x 3/8, 7/16 or 1/2 Shank	
Product No.	Carat	Product No.	Carat
RAD-0	1/8	RAD-0-H	1/8
RAD-1	1/4	RAD-1-H	1/4
RAD-2	1/3	RAD-2-H	1/3
RAD-3	1/2	RAD-3-H	1/2
RAD-4	5/8	RAD-4-H	5/8
RAD-5	3/4	RAD-5-H	3/4
RAD-6	1	RAD-6-H	1
RAD-7	1-1/4	RAD-7-H	1-1/4
RAD-8	1-1/2	RAD-8-H	1-1/2
RAD-10	2	RAD-10-H	2

### RESETTABLE QUALITY

3/8" x 2 or 7/16 x 2		5/8" Head x 3/8, 7/16 or 1/2 Shank	
Product No.	Carat	Product No.	Carat
RAD-0R	1/8	RAD-0-HR	1/8
RAD-1R	1/4	RAD-1-HR	1/4
RAD-2R	1/3	RAD-2-HR	1/3
RAD-3R	1/2	RAD-3-HR	1/2
RAD-4R	5/8	RAD-4-HR	5/8
RAD-5R	3/4	RAD-5-HR	3/4
RAD-8R	1	RAD-6-HR	1
RAD-7R	1-1/4	RAD-7-HR	1-1/4
RAD-8R	1-1/2	RAD-8-HR	1-1/2
RAD-10R	2	RAD-10-HR	2

### SINGLE POINT DIAMOND DRESSERS



2" Long Straight      2" Long with 5/8 head

Single Points are used for straight dressing on OD, cylindrical, and surface applications. Available in disposable and resettable grades.

### IMPREGNATED DIAMOND DRESSERS

Product No.	Grade
RAD-G10-C	Coarse
RAD-G11-C	Coarse
RAD-G80-C	Coarse
RAD-G10-M	Medium
RAD-G11-M	Medium
RAD-G80-M	Medium
RAD-G10-F	Fine
RAD-G11-F	Fine
RAD-G80-F	Fine



Also known as grit or particle tools, Impregnated Diamond Dressers are recommended for straight dressing and step dressing on surface, cylindrical, and truing operations.

### DIAMOND CLUSTER DRESSERS

3/8" x 2 or 7/16 x 2	
Product No.	Layers
RAD-CL5-M	1
RAD-CL7-M	1
RAD-CL15-M	3
RAD-CL21-M	3
RAD-CL5-H	1
RAD-CL7-H	1
RAD-CL15-H	3
RAD-CL21-H	3



Cluster Tools are designed for long life straight dressing on large surface areas or on very hard and coarse grinding wheels. Available in light and heavy duty.

### DIAMOND SELECTION TABLE

Wheel Dia.	Max. Width	Carat
3	3/8	1/4
4	1/2	1/3
6	1/2	1/2
6	3/4	5/8
7	1	3/4
10	1-1/2	1
14	1-1/2	1-1/4
16	2	1-1/2
18	2	1-3/4
20	2	2
24	2	2
24	3	2-1/4
24	4	2-1/2
36	6	3

### 3/8" x 2 or 7/16 x 2 Shank

Product No.	Carat
RAD-CP1-90	1/4
RAD-CP2-90	1/3
RAD-CP3-90	1/2
RAD-CP5-90	3/4
RAD-CP6-90	1.0
RAD-CP1-75	1/4
RAD-CP2-75	1/3
RAD-CP3-75	1/2
RAD-CP5-75	3/4
RAD-CP6-75	1.0
RAD-CP1-60	1/4
RAD-CP2-60	1/3
RAD-CP3-60	1/2
RAD-CP5-60	3/4
RAD-CP6-60	1.0

### DIAMOND CONE POINT DRESSERS



Cone Points are used where very precise form and radii are required. They are easily rotated to maintain a sharp point.

## Common Dimensional Standards

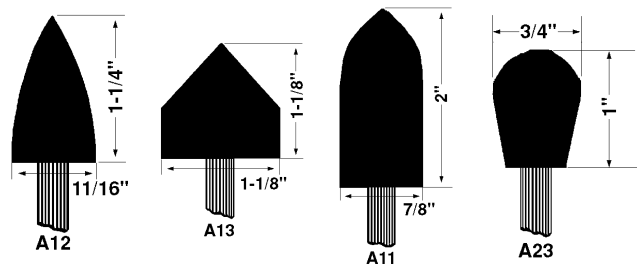
### Type "A" Shapes

Shape			Shape		
No.	Diam.	Thick.	No.	Diam.	Thick.
A1	3/4"	2-1/2"	A24	1/4"	3/4"
A2	1"	1-1/4"	A25	1"	1"
A3	1"	2-3/4"	A26	5/8"	5/8"
A4	1-1/4"	1-1/4"	A31	1-3/8"	1"
A5	3/4"	1-1/8"	A32	1"	5/8"
A6	3/4"	1-1/8"	A33	1"	1/2"
A11	7/8"	2"	A34	1-1/2"	3/8"
A12	1-1/16"	1-1/4"	A35	1"	3/8"
A13	1-1/8"	1-1/8"	A36	1-5/8"	3/8"
A14	1-1/16"	7/8"	A37	1-1/4"	1/4"
A15	1/4"	1-1/16"	A38	1"	1"
A21	1"	1"	A39	3/4"	3/4"
A22	3/4"	5/8"	A40	3/4"	3/4"
A23	3/4"	1"			

### Type "B" Shapes

Shape			Shape		
No.	Diam.	Thick.	No.	Diam.	Thick.
B41	5/8"	5/8"	B92	1/4"	1/4"
B42	1/2"	3/4"	B93	3/16"	3/16"
B43	1/4"	5/16"	B94	11/64"	3/32"
B44	7/32"	3/8"	B95	1/8"	3/16"
B45	3/16"	5/16"	B96	1/8"	1/4"
B46	1/8"	5/16"	B97	1/8"	3/8"
B47	1/8"	5/32"	B98	3/32"	1/4"
B51	7/16"	3/4"	B101	5/8"	1-1/16"
B52	3/8"	3/4"	B102	5/8"	1/2"
B53	5/16"	5/8"	B103	5/8"	3/16"
B54	1/4"	1/2"	B104	5/16"	3/8"
B55	1/8"	1/4"	B105	1/4"	1/4"
B61	1/8"	5/16"	B106	1/8"	7/64"
B62	1/2"	3/8"	B111	7/16"	11/16"
B63	1/4"	3/16"	B112	3/8"	1/2"
B64	1/4"	1/16"	B113	1/4"	1/4"
B65	1/8"	1/8"	B114	7/32"	3/8"
B70	3/4"	1/8"	B115	3/32"	1/8"
B71	5/8"	3/32"	B121	1/2"	1/2"
B72	1/2"	1/8"	B122	3/8"	3/8"
B73	1/2"	3/32"	B123	3/16"	3/16"
B74	7/32"	3/32"	B124	1/8"	1/8"
B81	3/4"	3/16"	B131	1/2"	1/2"
B82	1/2"	1/4"	B132	3/8"	1/2"
B83	3/8"	3/16"	B133	3/8"	3/8"
B84	5/16"	3/16"	B134	5/16"	3/8"
B90	1/2"	1/2"	B135	1/4"	1/2"
B91	1/2"	5/8"	B136	1/4"	5/16"

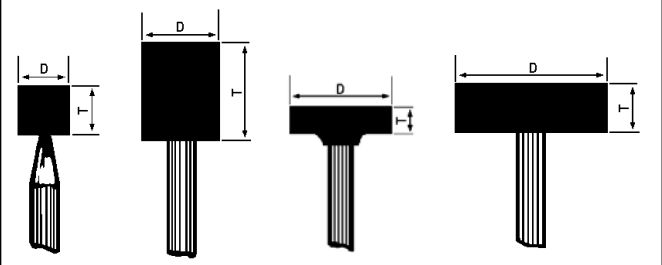
SHAPE	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER
A02-D2	55	WA60-R5-V2	38200	7916749
A03-D2	55	WA60-R5-V2	16100	7122246
A05-D2	55	WA60-R5-V2	45000	7122300
A11-D2	55	A36-Q-V1	19860	7122319
		WA60-R5-V2	19860	7122343
A12-D2	55	WA60-R5-V2	48000	7122351
A14-D2	55	WA60-R5-V2	55560	7122394
A23-D2	55	WA60-R5-V2	39370	7122483
A25-D2	55	WA60-R5-V2	35620	7122521
A31-D2	55	WA60-R5-V2	27780	7122548
A36 D2	55	WA60-R5-V2	23520	7122637
A38-D2	55	WA60-R5-V2	34500	7122696
A39-D2	55	WA60-R5-V2	47250	7122718
B53-D1	55	WA60-R5-V2	60000	7309614
B81-D1	55	WA60-R5-V2	50930	7318865
B097-D1	55	WA90-R5-V2	105000	7123170
B123-D1	55	WA90-R5-V2	104250	7123340
B132-D1	55	WA60-R5-V2	45370	7123420



# 1-800-851-1095 MOUNTED WHEELS

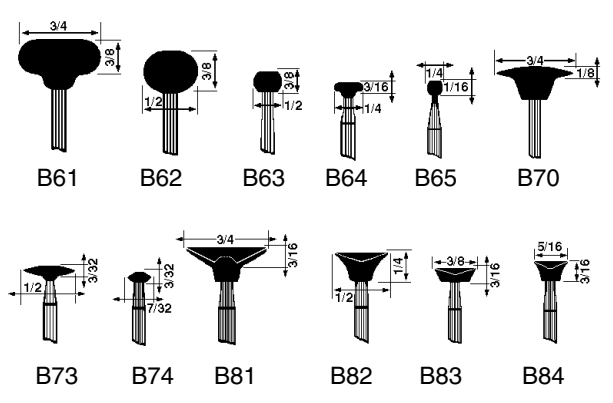
SHAPE	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER
W145-D1	55	WA90-R5-V2	105000	7123528
W154-D1	55	WA90-R5-V2	70500	7123587
W163-D1	55	WA60-R5-V2	60000	7123714
W164-D1	55	WA60-R5-V2	45900	7161020
W176-D1	55	WA60-R5-V2	45370	7123803
W179-D2	55	WA60-R5-V2	45750	7916536
W185-D2	55	WA60-R5-V2	61500	7123919
W188-D2	55	WA60-R5-V2	30370	7123978
W202-D2	55	WA60-R5-V2	50930	7161128
W204-D2	55	WA60-R5-V2	42750	7124095
W217-D2	55	WA60-R5-V2	38200	7124281
W220-D2	55	WA60-R5-V2	25500	7124362
W236-D2	55	WA60-R5-V2	25470	7124524
W242-D2	55	WA60-R5-V2	19100	7161195

## Common Dimensional Standards Type "W" Shapes & Sizes



Shape No.	Diam.	Thick.	Shape No.	Diam.	Thick.
W141	3/32"	5/32"	W193	5/8"	3/8"
W142	3/32"	1/4"	W194	5/8"	1/2"
W143	1/8"	1/8"	W195	5/8"	3/4"
W144	1/8"	1/4"	W196	5/8"	1"
W145	1/8"	3/8"	W197	5/8"	2"
W146	1/8"	1/2"	W198	5/8"	2-1/2"
W149	5/32"	1/4"	W199	3/4"	1/16"
W151	3/16"	1/8"	W200	3/4"	1/8"
W152	3/16"	1/4"	W201	3/4"	1/4"
W153	3/16"	3/8"	W202	3/4"	3/8"
W154	3/16"	1/2"	W203	3/4"	1/2"
W155	13/16"	1/4"	W204	3/4"	3/4"
W157	1/4"	1/16"	W205	3/4"	1"
W158	1/4"	1/8"	W206	3/4"	1-1/4"
W159	1/4"	3/16"	W207	3/4"	1-1/2"
W160	1/4"	1/4"	W208	3/4"	2"
W161	1/4"	5/16"	W209	3/4"	2-1/2"
W162	1/4"	3/8"	W210	7/8"	1/16"
W163	1/4"	1/2"	W211	7/8"	1/8"
W164	1/4"	3/4"	W212	7/8"	1/4"
W165	5/16"	1/16"	W213	7/8"	3/8"
W166	5/16"	1/8"	W215	1"	1/8"
W167	5/16"	1/4"	W216	1"	1/4"
W168	5/16"	5/16"	W217	1"	3/8"
W169	5/16"	3/8"	W218	1"	1/2"
W170	5/16"	1/2"	W219	1"	3/4"
W171	5/16"	3/4"	W220	1"	1"
W172	3/8"	1/16"	W221	1"	1-1/2"
W173	3/8"	1/8"	W222	1"	2"
W174	3/8"	1/4"	W223	1"	2-1/2"
W175	3/8"	3/8"	W224	1"	3"
W176	3/8"	1/2"	W225	1 1/4"	1/4"
W177	3/8"	3/4"	W226	1 1/4"	3/8"
W178	3/8"	1"	W227	1 1/4"	1/2"
W179	3/8"	1-1/4"	W228	1 1/4"	3/4"
W181	1/2"	1/16"	W229	1 1/4"	1"
W182	1/2"	1/8"	W230	1 1/4"	1-1/4"
W183	1/2"	1/4"	W231	1 1/4"	1-1/2"
W184	1/2"	3/8"	W232	1 1/4"	2"
W185	1/2"	1/2"	W235	1 1/2"	1/4"
W186	1/2"	3/4"	W236	1 1/2"	1/2"
W187	1/2"	1"	W237	1 1/2"	1"
W188	1/2"	1-1/2"	W238	1 1/2"	1-1/2"
W189	1/2"	2"	W239	1 1/2"	2"
W191	5/8"	1/8"	W242	2"	1"

**Mandrel Code:** D1=1/8" dia. x 1-1/2" long  
 D2=1/4" dia x 1-1/2" long



Precision Engineered Abrasive Products manufactured at our

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## GRINDING WHEELS 4/3" to 7"

1-800-538-0712

DIMENSIONS	OTHER DIMENSIONS	B/P	TYPE	SPECIFICATION	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
4/3 X 1-1/2 X 1-1/4	1/4 R 1/2 B	11001	11	RAA60-J2-VOS	M363428	TOOL & CUTTER	HARDENED STEELS-16 RMS FINISH-LIGHT FEEDS
	1/4 R 1/2 B	S11001	11	RAA602-J14-V35	F363374	TOOL & CUTTER	HARDENED STEELS-16 RMS FINISH-MEDIUM DOWNFEED
	1/4 R 1/2 B	S11001	11	RAA802-K14-V35	F363373	TOOL & CUTTER	HARDENED STEELS-12 RMS FINISH-GOOD FORM HOLDING
	1/4 R 1/2 B	S11001	11	9A60-J12-V20	F363378	TOOL & CUTTER	HARD & H.S.S. TO 62 Rc.-16 RMS FINISH-LIGHT FEED
4 X 2 X 20 MM	3/8 R 3/8 B	S6001	6	79A802-J12-V35	F363340	DRILL GRINDING	SMALL DRILLS & ENGRAVING POINTS
5/3-3/4 x 1-3/4 x 1-1/4	3/8 R 1/2 B	S11006	11	RAA543-K14-V35	F363382	TOOL & CUTTER	HIGH SPEED, DIE STEELS
	1/4 R 1/2 B	2014	11	9A54-J12-V20	F361215	TOOL & CUTTER	HARD & H.S.S. TO 62 Rc.-16 RMS FINISH-LIGHT FEED
6 X 1/32 X 1/2			1	A60-Q6-B	S363337	NON-REINFORCED CUT OFF	TOOL ROOM-GENERAL PURPOSE
6 X 1/32 X 1-1/4			1	A60-Q6-B	S363336	NON-REINFORCED CUT OFF	CUTTING OFF, SLOTTING, GROOVING
6 X 1/16 X 1-1/4			1	A60-Q6-B	S363430	NON-REINFORCED CUT OFF	CUTTING OFF, SLOTTING, GROOVING
6 X 1/4 X 1-1/4			1	GC120-K10-VD6	A363319	SHARPENING	CARBIDE- CHIP BREAKER
6 X 1/2 X 1-1/4			1	A46-N-V20	A363392	BENCH & PEDESTAL	OFFHAND GRINDING -ROUGHING
			1	A60-M-V20	A363425	BENCH & PEDESTAL	OFFHAND GRINDING - FINISHING
			1	GC602-J02-VD2	K363426	SHARPENING	CARBIDE TOOLS-ROUGHING
			1	GC120-I08-VD2	K361596	SHARPENING	CARBIDE TOOLS-FINISHING
6 X 3/4 X 1-1/4			1	A36-O-V20	A363322	BENCH & PEDESTAL	OFFHAND GRINDING-ROUGHING
			1	A46-N-V20	A363323	BENCH & PEDESTAL	OFFHAND GRINDING-ROUGHING
			1	A60-M-V1	A363324	BENCH & PEDESTAL	OFFHAND GRINDING-FINISHING
			1	GC602-J02-VD2	K363326	SHARPENING	CARBIDE TOOLS-ROUGHING
6 x 3/4/13/32 x 1-1/4		12001	12	RAA60-I2-VOS	M363338	TOOL & CUTTER	M-2,M-7,M-42, & CHROMIUM ALLOYS-32 RMS FINISH
		12001	12	9A60-J2-VOS	M363339	TOOL & CUTTER	HARDENED STEELS-16 RMS FINISH-LIGHT FEEDS
6 X 3/4 X 1-1/4			1	97A46-N-V20	A363320	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-ROUGHING
			1	97A60-M-V20	A361182	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-FINISH
			1	97A80-L-V20	A363321	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-HIGH FINISH
6 X 1 X 1-1/4			1	A24-P-V20	A361587	BENCH & PEDESTAL	SNAGGING-LOW SPEED
			1	GC602-J02-VD2	K363391	SHARPENING	CARBIDE TOOLS-ROUGHING
			1	GC120-I08-VD2	K363390	SHARPENING	CARBIDE TOOLS-FINISHING
			1	97A60-M-V20	A363386	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-FINISH
7 X 1/32 X 1-1/4			1	97A80-L-V20	A363387	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-HIGH FINISH
			1	A60-Q6-B	S363285	NON-REINFORCED CUT OFF	CUTTING OFF, SLOTTING, GROOVING
7 X 1/16 X 1-1/4			1	A60-Q6-B	S363203	NON-REINFORCED CUT OFF	CUTTING OFF, SLOTTING, GROOVING
7 X 1/8 X 1-1/4			1	RAA1002-J0-VOS	K363347	TOOL ROOM	TOOL GRINDING, UNDER .005 RADIUS
7 X 1/4 X 1-1/4			1	GC120-K10-VD6	A363309	SHARPENING	CARBIDE TOOLS-FINISHING
			1	RAA60-I2-VOS	K5472	TOOL ROOM	TOOL GRINDING-H.S.S. & STAINLESS
			1	RAA80-I2-VOS	K363345	TOOL ROOM	TOOL GRINDING-H.S.S. & STAINLESS
			1	RAA100-I2-VOS	K5409	TOOL ROOM	TOOL GRINDING UNDER .005 RADIUS
7 X 1/4 X 1-1/4	THK. TOL. + .031 - .000		1	RAA1002-J0-VOS	K363342	TOOL ROOM	TOOL GRINDING UNDER .005 RADIUS
			1	9A807-K14-V35	A363298	TOOL ROOM	TOOL GRINDING, UNDER .010 RADIUS
7 X 1/2 X 1-1/4			1	GC120-I08-VD2	K359364	TOOL ROOM	CARBIDE TOOLS-FINISHING
			1	GC602-J02-VD2	K363249	TOOL ROOM	CARBIDE TOOLS-ROUGHING
			1	RAA46-I2-VOS	K363279	TOOL ROOM	TOOL GRINDING, FLATWORK-ROUGHING
			1	RAA46-J2-VOS	K363280	TOOL ROOM	TOOL GRINDING, FLATWORK-ROUGHING
		1	RAA60-I2-VOS	K5372	TOOL ROOM	TOOL GRINDING, STAINLESS, FINISHING	

1-800-538-0712

## 7" to 10" GRINDING WHEELS

DIMENSIONS	OTHER DIMENSIONS	B/P	TYPE	SPECIFICATION	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
7 X 1/2 X 1-1/4			1	RAA60-J2-VOS	K5388	TOOL ROOM	TOOL GRINDING, STAINLESS, FINISHING
			1	RAA80-I2-VOS	K363284	TOOL ROOM	TOOL GRINDING, SURFACING, CYLINDRICAL,
			1	RAA100-I2-VOS	K363283	TOOL ROOM	TOOL GRINDING, UNDER .005 RADIUS
			1	RAA1002-J0-VOS	K363276	TOOL ROOM	TOOL GRINDING, UNDER .005 RADIUS
			1	9A46-H2-VOS	K363208	TOOL ROOM	TOOL GRINDING, SURFACING, FLATWORK, THIN SECTIONS
			1	9A46-J3-VOS	K5390	TOOL ROOM	TOOL GRINDING, H.S. STEEL, ROUGHING
			1	9A46-J12-V20	A363240	TOOL ROOM	TOOL GRINDING, SURFACING, FLAT WORK, 32 RMS FINISH
			1	9A60-J3-VOS	K363210	TOOL ROOM	TOOL GRINDING, CUTTER SHARPENING
			1	9A60-K12-V20	A363244	TOOL ROOM	TOOL GRINDING, SURFACING
			1	9A80-I2-VOS	K363211	TOOL ROOM	TOOL GRINDING, SURFACING, FORM WORK
			1	9A807-K14-V35	A363247	TOOL ROOM	TOOL GRINDING, CYLINDRICAL, H.S. STEEL
			1	9A100-L5-V35	A363237	TOOL ROOM	HARD & H.S.S. TO 62Rc-LIGHT FEED-FORMS>.008 R
			1	9A120-L5-V35	A363238	TOOL ROOM	TOOL GRINDING, FORM GRINDING>.005 R
			1	9A150-N-V66	A363239	TOOL ROOM	HARD & H.S.S. TO 62Rc-LIGHT FEED-FORMS>.004 R
			1	97A46-I3-VOS	K363206	TOOL ROOM	GENERAL PURPOSE, FLATWORK TOOL GRINDING
7 x 3/4 x 1-1/4			1	GC120-I08-VD2	K363313	SHARPENING	CARBIDE TOOLS-FINISHING
	REC 1/S 3 X 1/4		5	RAA60-I2-VOS	M363065	TOOL ROOM	TOOL GRINDING, FLATWORK, STAINLESS, FINISHING
	REC 1/S 3-1/2 X 1/4		5	9A60-J3-VOS	M363350	TOOL ROOM	TOOL GRINDING, SURFACING
7 X 1 X 1-1/4			1	A24-P-V20	A363330	BENCH & PEDESTAL	SNAGGING-LOW SPEED
			1	A36-O-V20	A363331	BENCH & PEDESTAL	OFFHAND GRINDING-ROUGHING
			1	GC602-J02-VD2	K359365	SHARPENING	CARBIDE TOOLS-FINISHING
			1	GC120-I08-VD2	K363333	SHARPENING	CARBIDE TOOLS-ROUGHING
		REC 1/S 3 X 1/2	5	RAA60-I3-VOS	M362698	TOOL ROOM	TOOL GRINDING, FLATWORK, STAINLESS, FINISHING
			1	97A46-N-V20	A363327	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-ROUGHING
			1	97A60-M-V20	A363328	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-FINISH
		1	97A80-L-V20	A363329	BENCH & PEDESTAL	TOOL GRINDING H.S. STEEL-HIGH FINISH	
8 X 1/32 X 1-1/4			1	A60-Q6-B	Q362782	NON-REINFORCED CUT OFF	CUTTING OFF, SLOTTING, GROOVING
8 x 1/4 x 1-1/4	THK. TOL. + .031 - .000		1	RAA1002-J0-VOS	K362762	TOOL ROOM	TOOL GRINDING UNDER .005 RADIUS
			1	9A220-N-V66	A362761	TOOL ROOM	HARD & H.S.S. TO 62Rc-LIGHT FEED-FORMS>.003 R
			1	9A807-K14-V35	A362760	TOOL ROOM	TOOL GRINDING, UNDER .010 RADIUS
8 x 1/2 x 1-1/4			1	GC120-I08-VD2	K363361	SHARPENING	CARBIDE TOOLS-FINISHING
			1	RAA46-I2-VOS	K5442	TOOL ROOM	TOOL GRINDING, FLATWORK-ROUGHING
			1	RAA60-I2-VOS	K5441	TOOL ROOM	TOOL GRINDING, H.S.S. & STAINLESS, FLATWORK
			1	RAA80-I2-VOS	K363372	TOOL ROOM	TOOL GRINDING, SURFACING, H.S.S.,
		THK. TOL. + .031 - .000	1	RAA1002-J0-VOS	K363362	TOOL ROOM	TOOL GRINDING, UNDER .005 RADIUS
			1	79A54-J3-VOS	K363367	TOOL ROOM	H.S.S., TOOL GRINDING, ROUGHING
			1	9A46-H2-VOS	K363369	TOOL ROOM	TOOL GRINDING, SURFACING, FLAWORK, THIN SECTIONS
			1	9A46-J3-VOS	K363370	TOOL ROOM	TOOL GRINDING, H.S. STEEL, ROUGHING
			1	9A60-J3-VOS	K5424	TOOL ROOM	TOOL GRINDING, CUTTER SHARPENING
			1	9A60-J12-V20	A360726	TOOL ROOM	TOOL GRINDING, SURFACING, FLATWORK
		1	9A807-K14-V35	A363360	TOOL ROOM	TOOL GRINDING, CYLINDRICAL, H.S. STEEL	
8 X 3/4 X 1-1/4			1	RAA46-I2-VOS	K362777	TOOL ROOM	TOOL GRINDING, FLATWORK-ROUGHING
			1	RAA60-I2-VOS	K362776	TOOL ROOM	TOOL GRINDING, STAINLESS, FINISHING
			1	RAA80-I2-VOS	K362775	TOOL ROOM	TOOL GRINDING, SURFACING, CYLINDRICAL
			1	9A46-J3-VOS	K362780	TOOL ROOM	TOOL GRINDING, H.S. STEEL, ROUGHING
			1	A60-M-V20	A361180	BENCH & PEDESTAL	OFFHAND GRINDING-FINISHING
8 X 1 X 1-1/4			1	GC602-J02-VD2	K363357	SHARPENING	CARBIDE TOOLS-ROUGHING
			1	GC120-I08-VD2	K363356	SHARPENING	CARBIDE TOOLS-FINISHING
10 X 3/32 X 5/8			1	97A60-M-V20	A363353	BENCH & PEDESTAL	TOOL GRINDING, H.S. STEEL- FINISH
			1	RBC-3A	S363418	NON-REINFORCED CUT OFF	GENERAL PURPOSE, STNLSS STEEL, MILD STEEL, DRY
			1	RBC-4A	S363420	NON-REINFORCED CUT OFF	TUBE, THIN SECTIONS, EXTRA LIFE

# GRINDING WHEELS 10" to 20"

1-800-538-0712

DIMENSIONS	OTHER DIMENSIONS	B/P	TYPE	SPECIFICATION	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
10 x 1 x 3			1	RAA80-K14-V35	A363401	TOOL ROOM	STAINLESS, CHROME, TOOL STEELS
			1	9A46-H2-VOS	K363414	TOOL ROOM	TOOL GRINDING, SURFACING, FLATWORK, THIN SECTIONS
12 X .076 X 1			1	A60-Q6-B	S363424	NON-REINFORCED CUT OFF	CUTTING OFF, TOOL STEEL
			1	RBC-4	S363197	NON-REINFORCED CUT OFF	TUBE, THIN SECTIONS, BURR FREE, DRY
12 x 3/4 x 3			1	RAA60-J2-VOS	K362697	TOOL ROOM	TOOL GRINDING, SURFACING, H.S.S., CHROME, STNLSS.
			1	9A46-I3-VOS	K5712	TOOL ROOM	TOOL GRINDING, SURFACING, THIN SECTIONS
12 x 1 x 3			1	RAA60-J2-VOS	K363193	TOOL ROOM	TOOL GRINDING, CHROME, STAINLESS, SURFACING
			1	9A46-J12-V20	A363227	TOOL ROOM	TOOL GRINDING, SURFACING, FLATWORK
12 X 1 X 5			1	RAA602-K13-V35	A363230	CYLINDRICAL GRINDING	STAINLESS, CHROME, TOOL STEELS
			1	RAA80-K14-V35	A360728	CYLINDRICAL GRINDING	STAINLESS, CHROME, TOOL STEELS
14 X 1/8 X 1			1	RBC-3A	S363252	NON-REINFORCED CUT OFF	GENERAL PURPOSE, STNLSS STEEL, MILD STEEL, DRY
14 X 1 X 5			1	RAA602-K13-V35	A363262	TOOL ROOM	STAINLESS, CHROME, TOOL STEELS
14 x 2 x 5	RLD 2/S 1/4 DP TO 8 FS		21	RAA607-K14-V35	G363264	TOOL ROOM	STAINLESS, CHROME, TOOL STEELS
	REC 1/S 7-1/2 X 1/2		5	9A46-H3-VOS	N363254	TOOL ROOM	TOOL GRINDING, SURFACING, THIN SECTIONS
16 X 1 X 5			1	RAA602-K13-V35	A363265	CYLINDRICAL GRINDING	STAINLESS, CHROME, TOOL STEELS
16 X 1 X 8			1	RAA602-K13-V35	A361309	CYLINDRICAL GRINDING	STAINLESS, CHROME, TOOL STEELS
20 X 6 X 12			1	GC802-L10-VD6	A359366	CENTERLESS GRINDING	CERAMINC, GLASS, STAINLESS, INCONEL TUBE
			1	7A60-K9-VA6	A359221	CENTERLESS GRINDING	TOOL STEELS, PINS, PUNCHES, ETC.

# SEGMENTS

SHAPE	DIMENSIONS	B/P	TYPE	SPECIFICATION	PRODUCT NUMBER	PRODUCT USE	GENERAL APPLICATION
NOS-1	5 X 1-1/2 X 6	51054	50	RAA54-F1-VOS	P362763	SEGMENTS	STAINLESS, ALUMINUM, BRASS
NO-18	5 X 1-1/2 X 6		50	RAA46-F2-VOS	P5525	SEGMENTS	INCONEL, STAINLESS, ALUMINUM,
NO-18	5 X 1-1/2 X 6	1913	50	9A36-1-F1-VOS	P5534	SEGMENTS	HIGH CARBON STEEL, ALLOY STEEL, HARD TOOL STEEL
CD-20A	10-1/8 X 2 X 6	51044	50	RAA46-D2-VOS	P362770	SEGMENTS	INCONEL, STAINLESS, ALUMINUM,
CDS-11	11-1/4 X 2-1/4 X 6	51046	50	RAA46-E2-VOS	P4872	SEGMENTS	WHERE D2 SPECIFICATION IS TOO SOFT
CDS-11	11-1/4 X 2-1/4 X 6	51046	50	RAA80-D3-VOS	P367221	SEGMENTS	GOOD FINISH, STAINLESS, THIN SECTIONS,
CDS-11	11-1/4 X 2-1/4 X 6	51046	50	9A30-I3-VOS	P362769	SEGMENTS	HIGH CARBON STEEL, TOOL STEEL, HIGH HORSE POWER,
CDS-11	11-1/4 X 2-1/4 X 6	51046	50	79A243-J2-VOS	P362635	SEGMENTS	GENERAL PURPOSE STEEL, LARGE STOCK REMOVAL,
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	RAA46-D2-VOS	P5463	SEGMENTS	STAINLESS, ALUMINUM, HIGH SPEED STEEL, INCONEL
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	RAA46-G2-VOS	P5464	SEGMENTS	STAINLESS, ALUMINUM, HIGH SPEED STEEL,
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	RAA54-F1-VOS	P5465	SEGMENTS	STAINLESS, ALUMINUM, BRASS
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	7RAA30.1-F1-VOS	P5460	SEGMENTS	G.P. STEEL, LOW HORSE POWER, LARGE UNBROKEN
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	7RAA30.1-H1-VOS	P5461	SEGMENTS	GENERAL PURPOSE STEEL, MEDIUM HORSE POWER
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	7RAA30.1-J3-VOS	P5462	SEGMENTS	GENERAL PURPOSE STEEL, EDGEWORK,
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	9A36-F2-VOS	P5471	SEGMENTS	CAST IRON, ALUMINUM, WHERE G2
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	9A36-G2-VOS	P5387	SEGMENTS	GENERAL PURPOSE STEEL, CAST IRON,
CDS-11	11-1/4 X 2-1/4 X 6	2697	50	9A36-H2-VOS	P5386	SEGMENTS	HIGH CARBON STEEL, TOOL STEEL
CDB-8	11-1/4 X 3 X 8	51050	50	79A241-H2-VOS	P362587	SEGMENTS	G.P. STEEL, LARGE SURFACE AREA,
CDXTL	11-1/4 X 3 X 8	26306	50	79A24.1-J2-VOS	P4871	SEGMENTS	G.P. STEEL, LARGE STOCK REMOVAL, SMALLER
CDXTL	11-1/4 X 3 X 8	26306	50	9A36-F2-VOS	P5533	SEGMENTS	HEAT SENSITIVE PARTS, 15-5 STAINLESS, ALUMINUM,
AA-1	11-5/16 X 2-1/8 X 6	51029	50	9A36-G2-VOS	P5530	SEGMENTS	GENERAL PURPOSE STEEL, CAST IRON, ALUMINUM

## Radiac Burr Busters

DIMENSIONS	COLOR	PKG QTY	PRODUC NUMBER	GENERAL APPLICATION
1-3/8 X 4-1/2 X 6	GREEN	6	F374431	CARBIDE
	GOLD	6	F374430	ALUMINUM OXIDE

1-800-851-1095

## GRINDING RECOMMENDATIONS

Material & Job	Recommended Specification	Material & Job	Recommended Specification	Material & Job	Recommended Specification
<b>A286 Surface</b>		<b>Bronze, Hard</b>		<b>Connecting Rods</b>	
Form Grinding .....	WAA60-I8-V8	Cylindrical.....	WAA46-M5-V1	Internal.....	RAA60-K8-V8
<b>Acrylics</b>		Centerless.....	WAA60-L5-V1	Surface, Segments.....	97A30-H800-VOS
Centerless.....	C60-J5-V4	Snagging		<b>Crankshaft, Automotive</b>	
Cut-Off .....	C60-O5-B20	9500 SFPM.....	CA16-Q5-B10	Pin Bearing.....	WAA54-M5-V1
<b>Alnico</b>		Cups, Cones .....	CA16-O5-B10	Main Bearing.....	WAA54-M5-V1
Centerless.....	CA54-Q6-RB9	Cut-Off Castings.....	A24-R5-B20F8	Regrinding.....	WAA54-M5-V1
Cylindrical.....	WAA60-L8-V1	<b>Bushings</b>		<b>Crankshaft, Diesel</b>	
Surface.....	WRA46-G8-V8	Cylindrical.....	WAA60-K8-V1	Pin Bearing.....	WAA54-M5-V1
Surface (Segments).....	WRA30-G800-VOS	Centerless.....	WAA60-L8-V1	Main Bearing.....	WAA54-M5-V1
Surface (Cylinder).....	WRA30-H800-VOS	Internal.....	RAA60-K8-V8	<b>Cutlery, Knives</b>	
Internal.....	RAA60-K8-V8	<b>Cams, Automotive</b>		Hemming Carbon.....	WAA80-I5-B60
Cut-Off .....	A60-O5-B20F8	Roughing.....	WAA60-M8-V1	Stainless.....	RAA70-I5-B60
<b>Aluminum</b>		Finishing.....	WAA80-M8-V1	Offhand Surfacing.....	WAA120-J8-V1
Centerless-Bars.....	C46-K8-V4	<b>Cams, Diesel</b>		<b>Cutters, Molding</b>	
Cylindrical.....	C54-J8-V4	Roughing.....	43A60-L8-V1	Offhand.....	WRA60-L5-V8
Surface.....	C36-I8-V4	Finishing.....	43A80-L8-V1	<b>Dies, Forging</b>	
Surface (Segments).....	9A54-F800-VOS	<b>Carbides</b> .....	Same As Cemented Carbides	Cleaning.....	A46-M-V1
Surface (Cylinder).....	9A54-F800-VOS	<b>Carboly</b> .....	Same As Cemented Carbides	<b>Dies, Drawing</b>	
Internal.....	C36-J5-V4	<b>Cast Iron</b>		Cleaning.....	WRA60-J8-V8
Snagging		Cylindrical.....	C46-K8-V4	Surface, Segments.....	8A30-G800-VOS
6500 SFPM.....	C24-N5-B10	Centerless.....	C46-L8-V4	Surface, Cylinder.....	RAA46-H800-VOS
9500 SFPM.....	C16-N5-B10	Internal.....	C46-K8-V4	Surface, T-1.....	RAA46-G800-VOS
Cut-Off (Reinf.).....	A24-Z-BLF2	Surface.....	C36-I8-V4	<b>Drills</b>	
<b>Bearings</b> .....	Consult Product Engineering	Cyl. & Seg. ....	9A30-G800-VOS	Cut-Off.....	A46-P5-B20
<b>Billets and Slabs</b>		Snagging		Cylindrical.....	WAA60-L8-V1
Alloy Tool, High Carbon, High Speed,		9500 SFPM.....	YB143-P5-B51F	Centerless.....	WAA60-L8-V1
Titanium Alloy and Stainless		12500 SFPM.....	YB124-R5-B51F	Precision Sharpening.....	WRA80-L8-V1
9500 SFPM		Portable.....	CA16-P5-B10	Point Thinning.....	A70-M5-B10
Swing Frame.....	YB124-R5-B51F	<b>Cemented Carbides</b>		<b>Drills</b>	
12500 SFPM		Roughing		Small, Regrinding.....	WRA80-L8-V8
Swing Frame.....	YB123-S5-B51F	Straight Wheel.....	GC60-J5-VL	Large, Regrinding.....	WRA46-L8-V8
9500 SFPM Str. & Cups.....	A16-Q5-B10	Dish Wheel.....	GC60-J5-VL	<b>Exotic (Refractory) Metals</b>	
<b>Bolts</b>		Plate Mounted.....	GC60-J14-VL	Centerless.....	WRA60-K8-V1
Cylindrical.....	WAA60-M8-V1	Finishing		Surface, T-1.....	RAA46-G800-VOS
Centerless.....	WAA60-N8-V1	Straight Wheel.....	GC120-J5-VL	Surface, Segments.....	8A30-G800-VOS
<b>Brass</b>		Plate Mounted.....	GC120-J14-VL	<b>Ferro-tic</b>	
Cylindrical.....	C36-L8-V4	Centerless.....	GC80-M7-V4	Roughing.....	RAA46-G800-VOS
Centerless.....	C36-M8-V4	Cylindrical		Finishing.....	9A100-G800-VOS
Internal.....	C46-K8-V4	Roughing.....	GC60-K5-V4	<b>Forgings</b>	
Snagging		Finishing.....	GC120-O5-V4	Snagging	
9500 SFPM.....	C24-M5-B10	Internal.....	GC80-L5-V4	12500 SFPM.....	YB124-R5-B51F
Portable.....	C20-M5-B10	<b>Chaser</b>		9500 SFPM.....	A14-P5-B10
Cones.....	C24-O5-B10	Thread		Portable.....	A16-P5-B10
Discs.....	C16--K5-B36	Surfacing.....	WRA60-J5-V8	Surface, Segments.....	97A30-G800-VOS
<b>Brick, Vitrified</b>		<b>Chisels</b>		Surface, Cylinder.....	WAA301-G8-V8
Cut-Off.....	C24-S5-B20F8	Air-driven.....	A46-M5-V1	<b>Gages--Plug</b>	
<b>Broaches</b>		Woodworking		Cylindrical.....	WAA80-K8-V8
Sharpening.....	WRA60-J5-V8	Surfacing.....	WAA46-I5-V8	<b>Gages, U.S. Thread</b>	
<b>Bronze, Soft</b> .....	Same As Brass	Edging.....	WAA60-K5-V8	Coarse Pitch.....	XL1002-T12-BFM2
		Sharpening.....	WAA80-J5-V8	Medium Pitch.....	XL1502-T12-BFM2
		<b>Chromium Plating</b>		Fine Pitch.....	XL1802-T12-BFM2
		Commercial Finish.....	RA80-K8-V8		
		Fine Finish.....	RA120-J8-V8		

# GRINDING RECOMMENDATIONS

1-800-538-0712

Material & Job	Recommended Specification	Material & Job	Recommended Specification	Material & Job	Recommended Specification
<b>Gages, Hardened Steel</b>		<b>Monel Metal</b>		<b>Rolls, Paper Mills, Chilled Iron, Rubber Covered Stonite, Granite, Brass, Copper</b>	
18-20 DP .....	RAA120-J8-V8	Cut-Off.....	A24-ZX-BNF2	Roughing.....	C36-N-ES
5-18 DP.....	RAA60-I8-V8	Snagging.....	A24-P5-B10	Rough & Finish.....	C60-L-ES
2-5 DP.....	RAA60-I8-V8	Cylindrical.....	C60-J8-V4	Finish.....	C100-L-ES
<b>Gears, Hardened Steel</b>		<b>Ni Hard</b>		<b>Aluminum Mill Rolls.....</b>	Same As Cold Mill Rolls
Internal.....	RAA60-K8-V8	Surfacing (Segments).....	97A30-G800-VOS	<b>Cold Mill Back Up Rolls....</b>	WAA36-J5-B35
Surface, Segments.....	8A30-H800-VOS	<b>Nitralloy</b>		<b>Cold Mill Work Rolls (Tandem)</b>	
Surface, Cylinder.....	RAA46-H800-VOS	Before Nitriding.....	WAA60-K8-V1	First Stand.....	WAA36-J5-B35
Surface, T-1.....	RAA46-G800-VOS	After Nitriding.....	WAA80-J8-V1	Other Stands.....	SA60-J1200-BCFSI
<b>Glass, Tubing</b>		<b>Pipe, Cast Iron</b>		<b>Cold Mill Work Rolls (Temper)</b>	
Cylindrical.....	C60-J5-V4	Internal.....	C16-S5-V4	Final Stand.....	C150-N-ES
Internal.....	C80-H5-V4	<b>Pipe, Soft Steel</b>		Other Stands.....	SA60-J1200-BCFSI
<b>Gray Iron ...See Malleable Iron - Unannealed</b>		Cut-Off.....	A30-R5-B20	<b>Hot Mill Back Up Rolls</b>	
<b>Hammers, Claw</b>	A46-R5-B10 or A30-R5-B10	<b>Pistons, (Aluminum and Cast Iron)</b>		Forged Steel	
<b>Hobs</b>		Cylindrical.....	C46-L8-V4	on Iron Core.....	8BAC362-L7-B34 or 8BAC362-M900-B34
T-1 Wheels.....	WRA60-J8-V8	Centerless.....	C46-M8-V4	<b>Hot Mill Work Rolls</b>	
Dish Wheels.....	WRA60-K8-V8	Regrinding.....	WAA46-J8-V1	(Chilled Iron or Nickel Alloy)	
<b>Knives.....See Cutlery</b>		<b>Piston Pins, Centerless</b>		Regrinding.....	C362-J5-B35
<b>Knives, Machine</b>		Roughing.....	WAA60-L8-V1	Roughing New Roll.....	C24-L5-B10
Barker, Hog Planer, Low Alloys and Carbon Steels		<b>Plastics.....See Acrylics</b>		Finishing New Roll.....	C362-J5-B35
T-1 Sharpening.....	RAA60-J800-VOS	<b>Plexiglass.....See Acrylics</b>		<b>Saws, Band</b>	
Cyl. Sharpening.....	WA462-F11-V8	<b>Polystyrene.....See Acrylics</b>		(16 Gauge & Heavier).....	WRA46-L8-V8 or A465-O5-B60
Seg. Sharpening.....	8A30-G800-VOS	<b>Porcelain</b>		<b>Saws, Band</b>	
NI Cyl. Sharpening.....	A46-I5-B60	Cylindrical.....	C46-L8-V4	(17 Gauge & Lighter).....	WRA60-M8-V8 or A465-O5-B60
Chipper, Paper, Veneer, Thin High Speed		Centerless.....	C36-L8-V4	<b>Saws, Circular</b>	
T-1 Sharpening.....	RAA60-I800-VOS	<b>Ramet.....Same As Cemented Carbides</b>		(Coarse Teeth).....	WRA46-M8-V8 or A465-O5-B60
Cyl. Sharpening.....	WA462-F11-V8	<b>Reamers</b>		<b>Saws, Circular (Fine Teeth)...</b>	WRA60-M8-V8 or A465-O5-B60
Seg. Sharpening.....	8A30-H800-VOS	Backing off.....	WRA46-J8-V8	<b>Saws, Metal Cutting.....</b>	WRA46-M8-V8 or A465-O5-B60
NI Cyl. Sharpening.....	A46-I5-B60	Cylindrical.....	WAA80-L8-V1	<b>Scissors and Shears (Steel)</b>	
Molding, Offhand.....	WAA46-L8-V8	<b>Rexalloy.....See Stellite</b>		Resharpening	
Section Beveling.....	WAA36-K8-V8	<b>Rock Bits</b>		Small Wheels.....	WRA120-L8-V1
Surfacing Backs.....	WAA46-J8-V8	Carbide.....	C60-J5-V4	Large Wheels.....	WRA90-L8-V1
<b>Lawn Mower Blades.....</b>	WAA46-L8-V8	<b>Roller Bearing Cups</b>		<b>Shear Blades</b>	
<b>Leather.....See Acrylics</b>		Centerless.....	A60-L5-V1	Cylinder.....	97A30-G800-VOS
<b>Machine Shop Grinding</b>		Cylindrical.....	WAA60-L8-V8	Segments.....	97A30-H800-VOS
General Offhand.....	A46-M5-V1	Internal.....	RAA54-K8-V8	<b>Side Gears, Auto.....</b>	WRA60-K8-V1
Gen. Seg. Grind.....	97A30-G800-VOS	<b>Rollers for Bearings</b>		<b>Slate.....</b>	
<b>Malleable Iron - Annealed</b>		Centerless.....	CA90-Q6-RB9	Cut-Off.....	C24-S5-B20F8
Snagging		<b>Rolls, Cast Iron.....</b>	C36-I5-B35	Molding.....	C46-L8-V4
12500 SFPM Snagging.YB124-R5-B51F		<b>Rolls, Chrome Pltd. ....</b>	RAA60-J8-V1		
9500 SFPM.....	YB124-Q5-B51F				
Portable.....	A16-P5-B10				
<b>Malleable Iron - Unannealed</b>					
Snagging					
12500 SFPM Snagging.YB123-R5-B51F					
9500 SFPM.....	YB123-Q5-B51F				
Portable.....	CA16-P5-B10				
<b>Meehanite.....Same As Cast Iron</b>					



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**GRINDING RECOMMENDATIONS**

<b>Material &amp; Job</b>	<b>Recommended Specification</b>	<b>Material &amp; Job</b>	<b>Recommended Specification</b>	<b>Material &amp; Job</b>	<b>Recommended Specification</b>
<b>Spline Shafts</b>		<b>Steel, Stainless</b>		<b>Titanium Alloy</b>	
Centerless .....	A60-L5-V1	Centerless		Centerless .....	CA54-Q6-RB9
Cylindrical .....	WAA60-L8-V1	300 Series .....	WAA60-K8-V1	Cylindrical .....	C60-J8-V4
Surfacing Splines .....	WAA60-L8-V1	400 Series .....	WAA60-K8-V1	Snagging	
<b>Steel Castings</b>		Cylindrical .....	WAA60-K8-V1	9500 SFPM .....	YB123-R5-B51F
Snagging		Internal .....	RAA60-K8-V8	Portable .....	C24-P5-B10
12500 SFPM .....	YB143-R5-B51F	Surface, Segments .....	8A30-H800-VOS	Surface .....	C60-K800-V4
9500 SFPM .....	A16-R5-B10	Surface, Cylinder .....	WRA30-G800-VOS	<b>Tubes, Steel</b>	
Portable .....	A16-R5-B10	Surface, T-1 .....	RAA60-H800-VOS	Centerless .....	A60-L5-V1
<b>Steel, Hardened</b>		Cut-Off .....	A46-P5-B20F8	Cut-Off .....	A46-P5-B20F8
Centerless .....	WAA60-L8-V1	<b>Stellite</b>		<b>Valves, Automotive</b>	
Cylindrical .....	WAA60-K8-V1	Cylindrical .....	WAA60-L8-V8	Cylinder, Faces .....	WAA80-O5-V1
Surface, Segments .....	8A30-H800-VOS	Offhand .....	WAA46-L8-V8	Cut-Off, Stems .....	A46-P5-B20F8
Surface, Cylinder .....	RAA30-G800-VOS	Surface, Segments .....	8A30-G800-VOS	Cylinder, Stems	
Surface, T-1 .....	RAA46-G800-VOS	Surface, Cylinder .....	RAA30-G800-VOS	Roughing .....	A46-M5-V1
Internal .....	RAA60-K8-V8	Surface, T-1 .....	RAA60-H800-VOS	Semi-Finish .....	A60-M5-V1
Cut-Off .....	A46-P5-B20F8	Cut-Off .....	A46-P5-B20F8	Finishing .....	WAA80-O5-V1
<b>Steel, Soft</b>		Tool & Cutter .....	WRA60-I8-V8 or RA60-H800-VOS	<b>Welds</b>	
Centerless .....	A60-L8-V1	<b>Tantalum</b> .....		Depressed Center (Reinforced)	
			Same As Steel, Tool and High Speed	Fast Cut .....	A24-T-B
Cylindrical .....	A60-K8-V1	<b>Tangtung</b> .....		Long Life .....	YNB24-R-B
Surface, Segments .....	97A30-H800-VOS		Same As Steel, Tool and High Speed	Portable Straight and Cup Wheels	
Surface, T-1 .....	97A46-H800-VOS	<b>Taps</b>		9500 SFPM .....	A16-P5-B10
Internal .....	RAA60-K8-V8	Grinding Relief .....	WRA80-K8-V8	<b>Wrenches</b>	
Cut-Off .....	A46-P5-B20F8	Fluting		Snagging - Roughing	
<b>Steel, Tool &amp; High Speed</b>		Small Taps .....	XL902-S12-BFM2	6500 SFPM .....	A24-M5-V1
Centerless .....	WAA60-L8-V1	Large Taps .....	XL802-S12-BFM2		
Cylindrical .....	WAA60-J8-V1	Threading .....	XL1801-S12-BFM2		
Surface, Segments .....	8A30-G800-VOS	Shanks			
Surface, Cylinder .....	WA301-G8-V8	Cylindrical .....	WAA60-K8-V1		
Surface, T-1 .....	WRA60-J8-V8	<b>Terra Cotta</b>			
		Cut-Off .....	C24-S5-B20F8		
		<b>Tile</b>			
		Cut-Off .....	C24-S5-B20F8		



# **Radiac** **Abrasives**

*Precision Engineered Grinding Wheels*

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*Engineered Grinding Solutions*



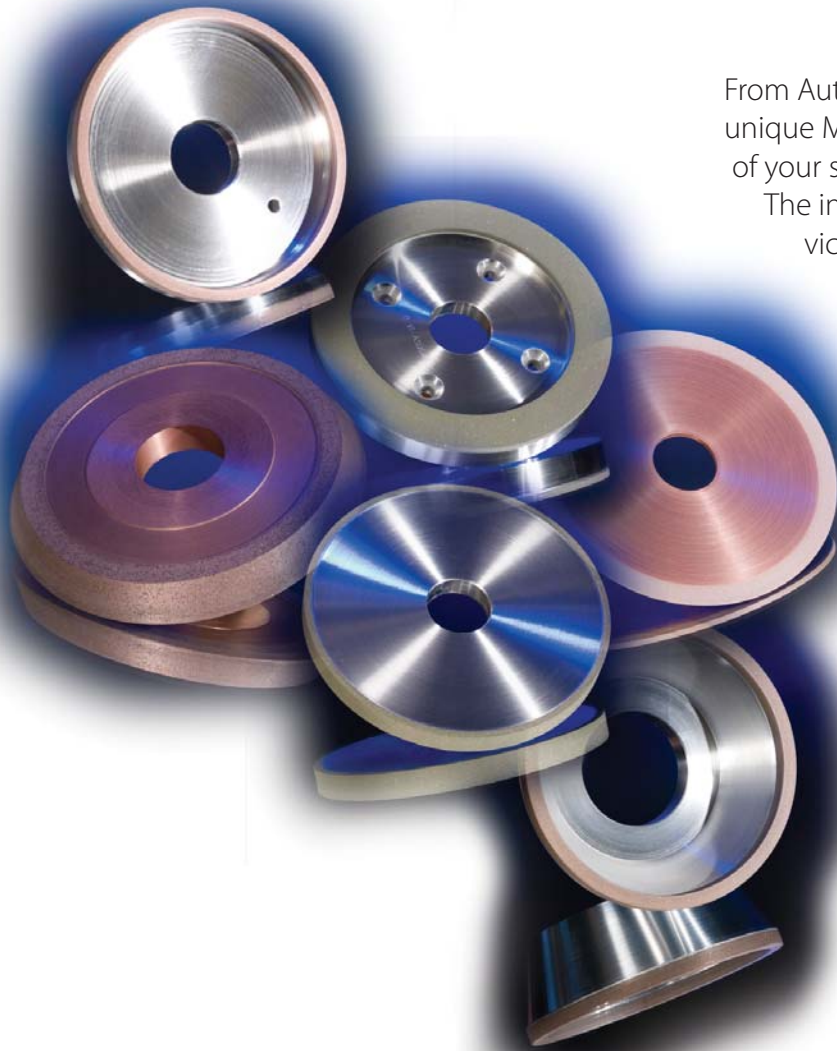
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**SUPERABRASIVES  
CATALOG**





Radiac Abrasives is a leading full line manufacturer of Conventional Bonded and Superabrasives in North America. For more than 100 years, Radiac has delivered technology and quality in both product and service to the industry. More than a quarter of a million square feet are dedicated to production, inventory, and customer service. As a leading full line producer Radiac Abrasives offers more than 50,000 precision built products of high quality, performance, and repeatability for virtually every conceivable manufacturing application.



From Automotive to Aerospace and beyond, Radiac's unique Marketing Team approach caters to the needs of your specific industry, application by application.

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This Catalog is dedicated to Radiac's full line offering of Superabrasive products including wheels, mandrels, and electroplated product available in both Diamond and CBN. Diamond dressing tools from single points to cluster tools are also available.

### **Contact Us**

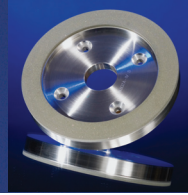
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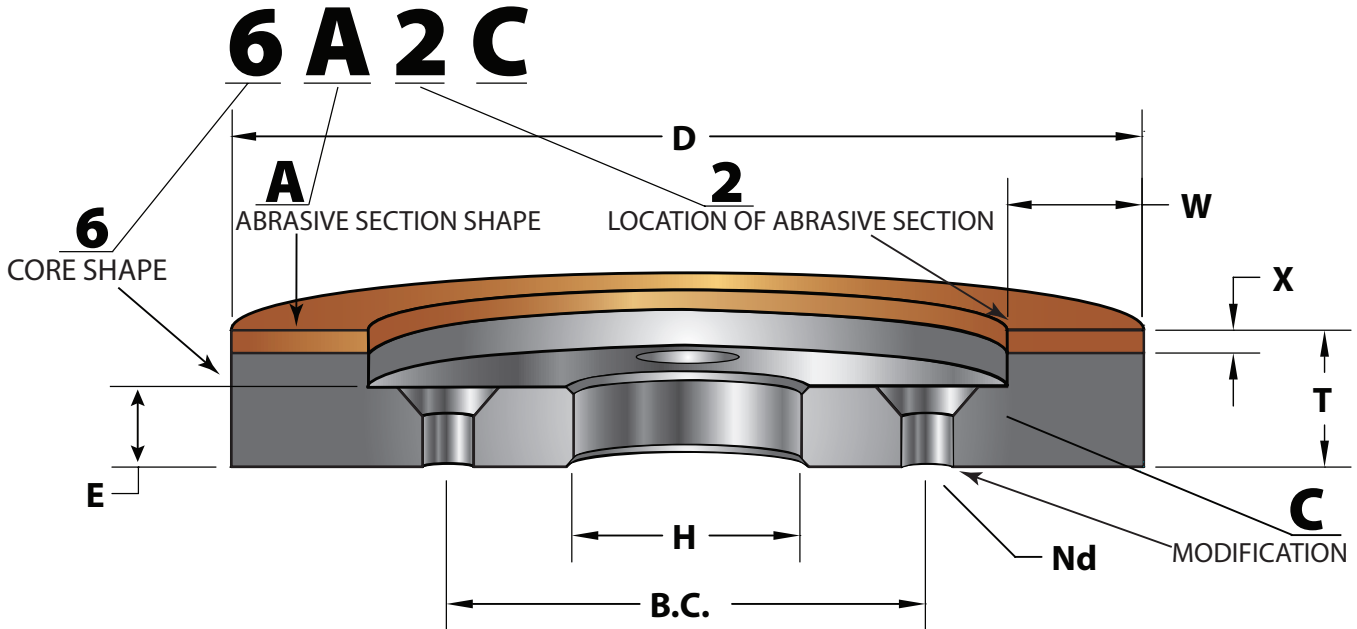


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WHEEL SHAPES



1	A	H	1 - Periphery	B - Drill & Counterbore
2	AH	J	2 - Side	C - Drill & Countersink
3	B	K	3 - Both Sides	H - Plain Hole
6	C	L	4 - Inside Bevel	M - Plain & Threaded Holes
9	CH	LL	5 - Outside Bevel	P - Relieved One Side
11	D	M	6 - Part of Periphery	R - Relieved Two Sides
12	DD	Q	7 - Part of Side	T - Threaded Hole
14	E	QQ	8 - Throughout	Q - Abrasive Inserted
15	EE	S	9 - Corner	V - Abrasive Inverted
	F	U		Y - Abrasive Inverted & Inserted
	FF	V		
	G	Y		

## WHEEL MARKINGS

**D 120 R 75 B35 1/4 M**

ABRASIVE
GRIT
GRADE
CONCENTRATION
BOND
ABRASIVE DEPTH
CORE MATE

D=Diamond  CBN=Cubic Boron Nitride	60 80 100 120	Coarse	L Softer N P R S T Harder	25 Lower 37 50 75 100 125 Higher	B = Resin  M=Metal  V=Vitrified	1/32 1/16 1/8 1/4 3/8 1/2	A Aluminum Resinol C Copper Resinoid D Abrasive Core G Phenolic (Bakelite) M Alloy Aluminum S Steel W Graphite
<b>Diamond:</b> used to grind carbide, glass, ferrite, graphite, spray-on-wear coatings and other hard non-ferrous materials.	150 180 220 240	Medium					
<b>CBN:</b> a synthetic abrasive second only to Diamond in hardness. CBN is used on high speed steel, alloy steel of >50 HRC, and some grades of stainless and cast iron.	280 320 400 500  600 800 1000 1500	Fine  Ultra Fine					

**ABRASIVES:**

**Diamond** is used for grinding carbide, glass, ceramics, quartz, ferrite, graphite, sprayed-on wear coatings and other hard non-ferrous materials.

**CBN** is used on high-speed steel, tool steel, alloy steel hardened to 50+ Rc, and some grades of stainless.

**GRIT:**

Resin bonded Diamond and CBN wheels come in a range of grit sizes. Coarse grits are used for rapid stock removal, medium and fine grits are used to produce a desired surface finish or to help the wheel hold its shape, ultra fine grits are for polishing operations. It is best to choose the coarsest grit that the application will allow. This will help insure the best cutting action and the best overall life.

**GRADE (Hardness):**

Just like conventional abrasive wheels made of aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) or silicon carbide (SiC), diamond and CBN wheels are assigned a letter to indicate the grade (hardness) of the grinding wheel, with letters nearest to the beginning of the alphabet being softer and those nearest the end being harder. Unlike conventional grinding wheels, where the cutting action of the wheel is controlled mostly by the grade (hardness) of the wheel, the cutting action of diamond and CBN wheels is mainly determined by the grit size and the concentration of the abrasive section. The terms "hard" and "soft" are a bit misleading when applied to resin bonded superabrasives. It is more accurate to speak in terms of cutting action versus durability than in terms of hard versus soft.

**CONCENTRATION:**

The concentration of a diamond or CBN wheel refers to the amount of abrasive in the matrix. Low concentration wheels have less diamond or CBN in the abrasive layer than higher concentration wheels. A low concentration wheel will cut more freely and remove material more rapidly. A high concentration wheel will hold its shape better, will have longer overall life and will tend to produce a better surface finish. The concentration should be chosen to suit the application, and a higher concentration wheel is not in all cases a better value.

**BOND:**

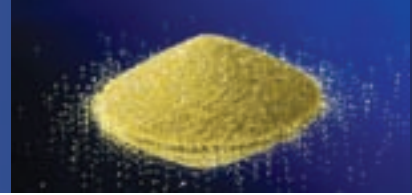
We offer a range of resin bonds to suit many applications. Resin bonded superabrasives are very versatile and can be customized to suit your grinding and finishing needs.

**ABRASIVE DEPTH:**

Refers to the size of the abrasive section. In most cases, a wheel with a larger abrasive depth will be a much better value.

**CORE:**

We offer a range of core materials to suit specific requirements. Not all cores are suited for all applications, and some cores have a limited availability.



## GENERAL GUIDELINES

### ABRASIVES

**Diamond:**

- Avoid dry grinding, use a cutting fluid whenever possible.
- Always true and dress the wheel before using it.
- Avoid excessive downfeeds - there is less "give" in a diamond wheel than in conventional abrasives.
- Avoid grinding steel where possible.
- Use rigid work support.
- Run wheels at the proper speed - never exceed the maximum RPM.
- Lower speeds (2700-3500 SFPM) are better for dry grinding.
- Higher speeds (5000-7500 SFPM) are better for wet

**CBN:**

- Avoid dry grinding, use a cutting fluid whenever possible. A rich emulsion or neat oil is best for CBN.
- Always true and dress the wheel before using it.
- Avoid excessive downfeeds - there is less "give" in a CBN wheel than in conventional abrasives.
- Use rigid work support.
- Run wheels at the proper speed - never exceed the maximum rpm.
- Lower speeds (about 5500 SFPM) are better for dry grinding.
- Higher speeds (at least 5500 SFPM) are better for wet grinding.

### GRIT SIZE

GRIT	FINISH (RMS)	MAXIMUM DEPTH OF CUT PER PASS
80	32 - 46	0.001" - 0.002"
100	24 - 32	0.001" - 0.002"
120	18 - 24	0.001" - 0.002"
150	16 - 18	0.001" - 0.002"
180	14 - 16	0.0007" - 0.001"
220	12 - 14	0.0007" - 0.001"
240	10 - 12	0.0005" - 0.0007"
280	8 - 10	0.0004" - 0.0006"
320	8	0.0004" - 0.0006"
400	6 - 8	0.0003" - 0.0005"
500	6	0.0002" - 0.0004"
600	5 - 6	0.0002" - 0.0003"
800	3 - 5	0.0001"
1000	2 - 4	N/A
1500	2	N/A

**CHOOSE THE BEST GRIT SIZE:**

A CBN wheel will give a more rough finish than a diamond wheel of the same grit size.

A plunge grind will yield a rougher finish than a traverse grind will.

Dirty coolant will have a negative effect on surface finish.

Machine condition, material being ground and depth of cut all have an effect on surface finish.

Always use the coarsest grit size allowable!

### CONCENTRATION

**Use Low Concentrations (25, 37):**

- With ultra-fine grit sizes
- For very wide areas of contact
- For very heat sensitive materials

**Use Medium Concentrations (50, 75):**

- With fine grit sizes
- For improved cutting action
- For wide areas of contact

**Use High Concentrations (100, 125):**

- With coarser grit sizes
- For improved form holding
- For creep-feed grinding

### CORE MATERIALS

CODE	MATERIAL	STRENGTH	DAMPENING EFFECT	HEAT DISSIPATION	NOTES
A	Aluminum / Resinoid	Fair	Fair	Fair	Standard for 11V9 & 12V9
C	Copper / Resinoid	Fair	Fair	Good	Limited Availability
D	Abrasive Core	Good, but Brittle	Good	Good	
G	Phenolic (Bakelite)	Good	Good	Poor	
M	Alloy (Solid) Aluminum	Very Good	Poor	Very Good	
S	Steel	Very Good	Poor	Very Good	
W	Graphite / Resinoid	Poor	Fair	N/A	11V9 only



## MOUNTING, TRUING AND DRESSING

### MOUNTING

- Examine wheel flanges and spindle with care.
- Make sure all flange surfaces are clean and are free of damage.
- Ensure that the flanges are flat and are of equal diameter.
- Inspect the machine spindle for excessive runout. TIR should be no more than 0.0002"
- Mount the wheel between hand-tightened flanges.
- Using a dial indicator, lightly "tap" the wheel with a rubber or wooden block to minimize runout. Ideally, the wheel will "tap" 0.0010" or less runout.
- Tighten the flange securely and recheck the runout.
- Allow the newly mounted wheel to run at full speed for one minute before grinding.

#### NOTE:

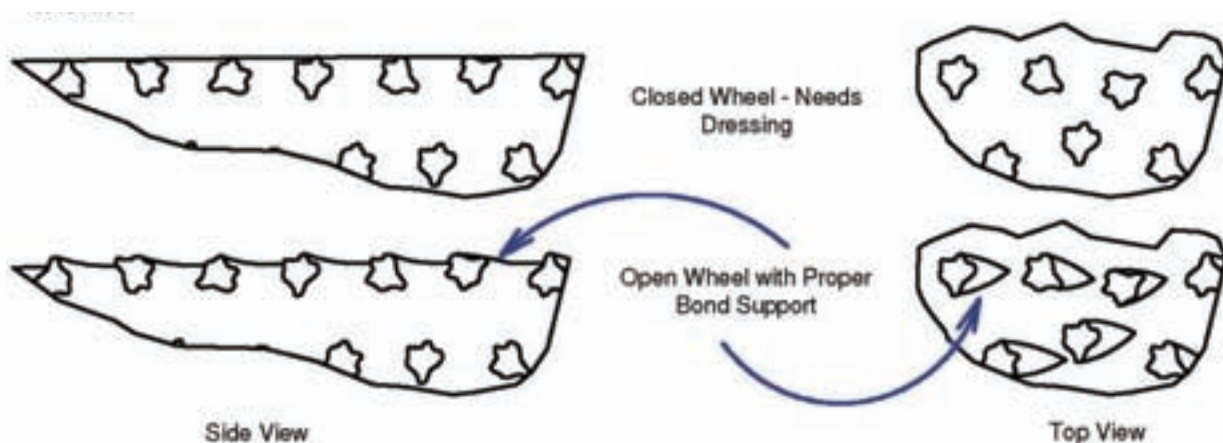
- If the grinding machine has a tapered spindle, mount each wheel on a separate adapter.
- When changing wheels, the entire unit is removed. This will keep the wheel in running truth.
- When needed again, the entire unit can be placed directly on the spindle. This way, re-truing is minimized.

### TRUING

- Prior to truing the wheel, run a wax crayon or marking pencil over the wheel face. Any crayon left on the wheel face after truing will reveal untrue areas.
- Use a brake controlled truing device
- Use the brake controlled truing device dry
- Bring the diamond wheel and the truing wheel together until they almost touch. You may place a piece of paper between the diamond wheel and the truing wheel as a stop to ensure that they are close to, but not contacting one another.
- Start the diamond wheel at normal speed and start the truing wheel in the same direction.
- Bring the two wheels together until they touch.
- Make sure the truing wheel is spinning at the time of contact.
- Traverse the diamond wheel back and forth at 30-60 inches per minute.
- Downfeed the diamond wheel 0.0005"-0.001" at the end of each traverse.
- At the end of the truing cycle, the wheel will be true, The wheel will also be smooth and "closed up"; it will need to be dressed open with white aluminum oxide dressing sticks.

### DRESSING

- To use the white dressing sticks, start the wheel to normal speeds.
- Dip the stick in coolant (or water) to moisten.
- Hand feed the stick into the wheel until the stick is easily ground by the diamond wheel. The amount of stick needed and the time to open the wheel will vary depending on the grit and grade of the diamond wheel. Hard or coarse wheels require more effort to dress open.
- Stop the wheel completely and inspect for proper openness. Repeat dressing operation as needed if the wheel becomes clogged or loaded.



PERIPHERAL SPEEDS

SFPM	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000
m/s	12.7	15.2	17.8	20.3	22.9	25.4	27.9	30.5
RPM								
Ø1	9,549	11,459	13,369	15,279	17,189	19,099	21,008	22,918
Ø2	4,755	5,730	6,685	7,639	8,594	9,594	10,504	11,459
Ø3	3,183	3,820	4,456	5,093	5,730	6,366	7,003	7,639
Ø4	2,387	2,865	3,342	3,820	4,297	4,775	5,252	5,730
Ø5	1,910	2,292	2,674	3,056	3,438	3,820	4,202	4,584
Ø6	1,592	1,910	2,228	2,546	2,865	3,183	3,501	3,820
Ø7	1,364	1,637	1,910	2,183	2,456	2,728	3,001	3,274
Ø8	1,194	1,432	1,671	1,910	2,149	2,387	2,626	2,865
Ø10	955	1,146	1,337	1,528	1,719	1,910	2,101	2,292
Ø12	796	955	1,114	1,273	1,432	1,592	1,751	1,910
Ø14	682	819	955	1,091	1,228	1,364	1,501	1,637
Ø16	597	716	836	955	1,074	1,194	1,313	1,432
Ø18	531	637	743	849	955	1,061	1,167	1,273
Ø20	477	573	668	764	859	955	1,050	1,146
Ø22	434	521	608	694	781	868	955	1,042
Ø24	398	477	557	637	716	796	875	955
Ø30	318	382	446	509	573	637	700	764

SFPM	6.500	7.000	7.500	8.000	8.500	9.000	9.500
m/s	33.0	35.6	38.1	40.6	43.2	45.7	48.3
RPM							
Ø1	24,828	26,738	28,648	30,558	32,468	34,377	36,287
Ø2	12,414	13,369	14,324	15,279	16,234	17,189	18,144
Ø3	8,276	8,913	9,549	10,186	10,823	11,459	12,096
Ø4	6,207	6,685	7,162	7,639	8,117	8,594	9,072
Ø5	4,966	5,348	5,730	6,112	6,494	6,875	7,257
Ø6	4,138	4,456	4,775	5,093	5,411	5,730	6,048
Ø7	3,547	3,820	4,093	4,365	4,638	4,911	5,184
Ø8	3,104	3,342	3,581	3,820	4,058	4,297	4,536
Ø10	2,483	2,674	2,865	3,056	3,247	3,438	3,629
Ø12	2,069	2,228	2,387	2,546	2,706	2,865	3,024
Ø14	1,773	1,910	2,046	2,183	2,319	2,456	2,592
Ø16	1,552	1,671	1,790	1,910	2,029	2,149	2,268
Ø18	1,379	1,485	1,592	1,698	1,804	1,910	2,016
Ø20	1,241	1,337	1,432	1,528	1,623	1,719	1,814
Ø22	1,129	1,215	1,302	1,389	1,476	1,563	1,649
Ø24	1,035	1,114	1,194	1,273	1,353	1,432	1,512
Ø30	828	891	955	1,019	1,082	1,146	1,210

↑  
WHEEL DIAMETER

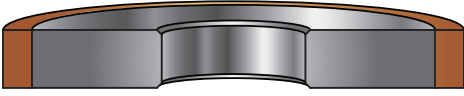



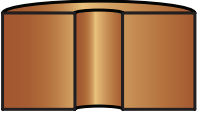


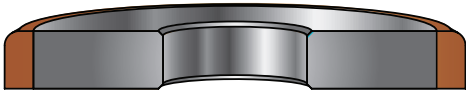

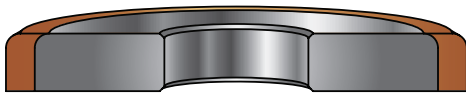
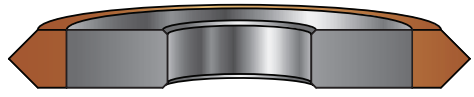
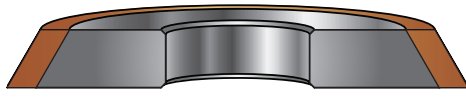
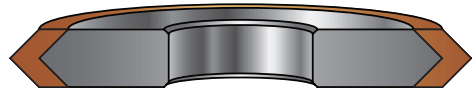


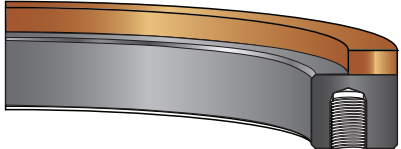
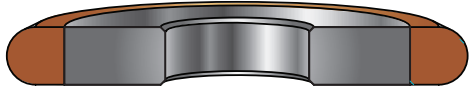
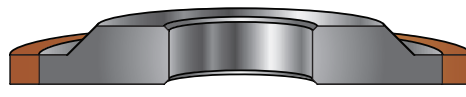

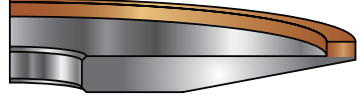
SFPM  
(SURFACE FEET PER MINUTE)

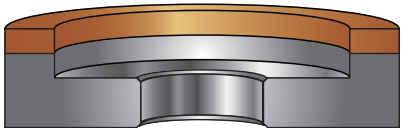
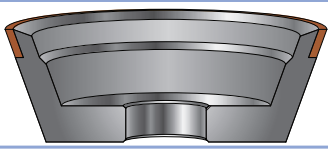
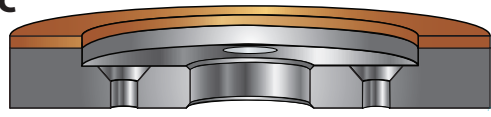
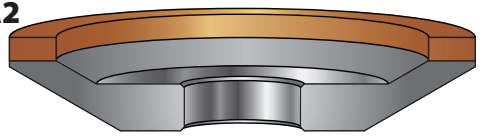
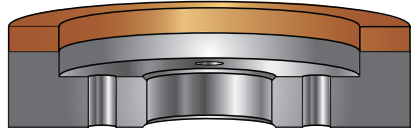
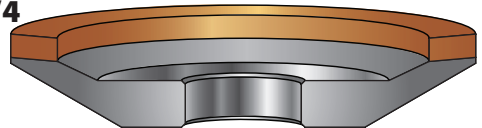
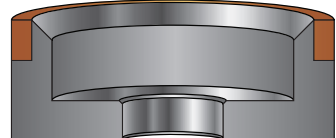
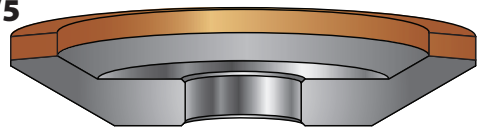
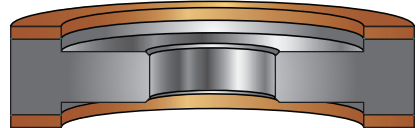
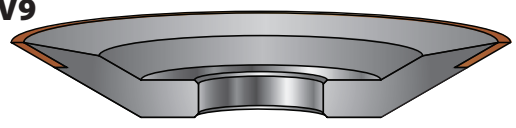
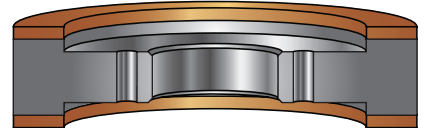
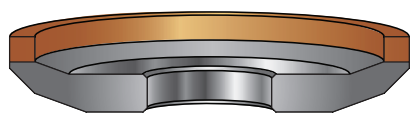
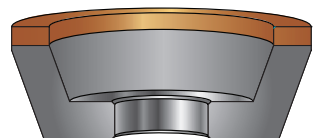

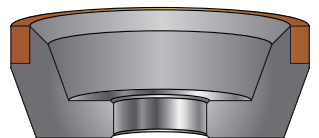
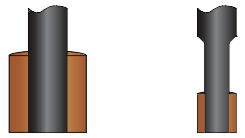
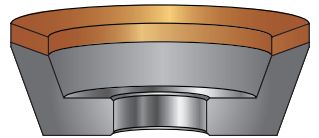
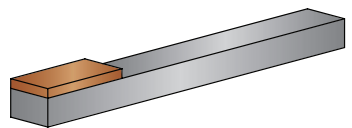
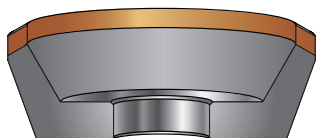
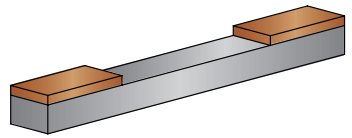
O.D. X 3.1416 X RPM  
12

m/s  
(METERS PER SECOND)

SFPM  
196.86

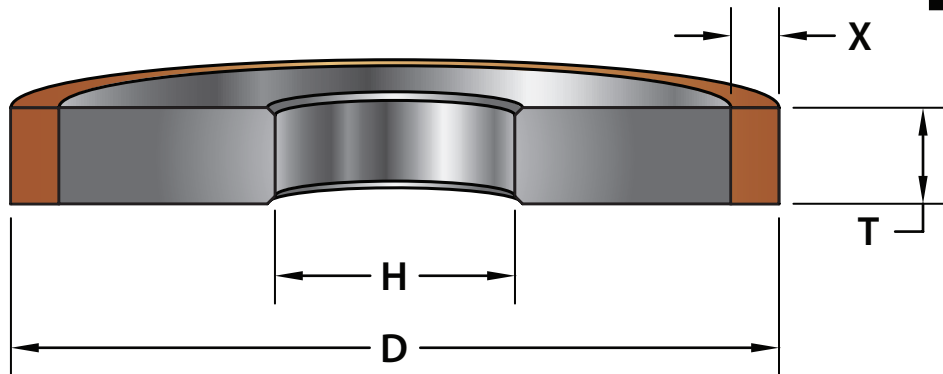


Shape	Page	Shape	Page
1A1 	9-11	1G1 	17
1A1R 	12	1L1 	17
1A8 	36	1M1 	18
1D1 	17	1Q1 	18
1DD1 	17	1QQ1 	18
1E1 	13	1V1 	16
1EE1 	13	1Y1 	18
1E9 	14	2A2T 	19
1F1 	15	3A1 	20
1FF1 	15	4A2 	21

Shape	Page	Shape	Page
6A2 	22	11V9 	31
6A2C 	23	12A2 	32
6A2H 	24	12V4 	33
6A9 	25	12V5 	33
9A3 	26	12V9 	34
9A3H 	26	15A2 	35
11A2 	27-28	15V9 	35
11A9 	29	W8 	36
11V4 	29	HH1 	37
11V5 	30	HH2 	37



# 1A1



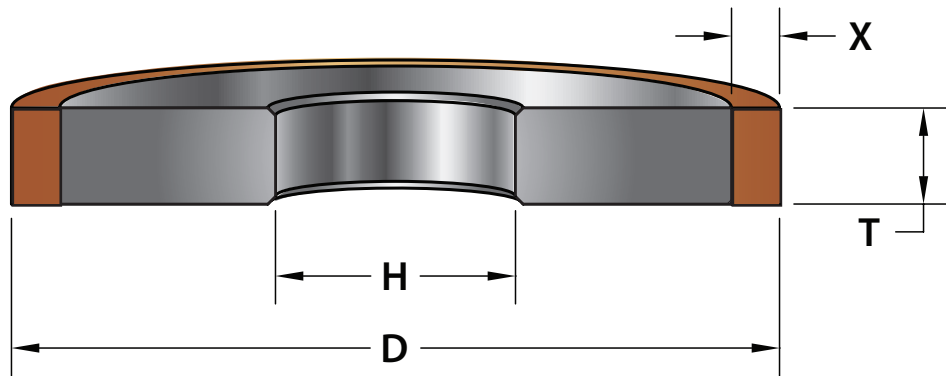
D	T	H	X
3/4	1/4	-	1/8
3/4	1/2	-	1/8
3/4	3/4	-	1/8
1	1/8	-	1/8
1	1/4	-	1/8
1	1/2	-	1/8
1-1/2	1/4	-	1/8
1-1/2	3/8	-	1/8
1-1/2	1/2	-	1/8
2	1/8	-	1/8, 1/4
2	1/4	-	1/8, 1/4
2	3/8	-	1/8, 1/4
2	1/2	-	1/8, 1/4
3	1/8	-	1/8, 1/4
3	1/4	-	1/8, 1/4
3	3/8	-	1/8, 1/4
3	1/2	-	1/8, 1/4
4	1/8	-	1/8, 1/4, 3/8
4	3/16	-	1/8, 1/4, 3/8
4	1/4	-	1/8, 1/4, 3/8
4	3/8	-	1/8, 1/4, 3/8
4	1/2	-	1/8, 1/4, 3/8
4	3/4	-	1/8, 1/4, 3/8
5	1/8	-	1/8, 1/4, 3/8
5	3/16	-	1/8, 1/4, 3/8
5	1/4	-	1/8, 1/4, 3/8
5	3/8	-	1/8, 1/4, 3/8
5	1/2	-	1/8, 1/4, 3/8
5	3/4	-	1/8, 1/4, 3/8

D	T	H	X
6	1/8	-	1/8, 1/4, 3/8, 1/2
6	3/16	-	1/8, 1/4, 3/8, 1/2
6	1/4	-	1/8, 1/4, 3/8, 1/2
6	3/8	-	1/8, 1/4, 3/8, 1/2
6	1/2	-	1/8, 1/4, 3/8, 1/2
6	3/4	-	1/8, 1/4, 3/8, 1/2
6	1	-	1/8, 1/4, 3/8, 1/2
7	1/8	-	1/8, 1/4, 3/8, 1/2
7	3/16	-	1/8, 1/4, 3/8, 1/2
7	1/4	-	1/8, 1/4, 3/8, 1/2
7	3/8	-	1/8, 1/4, 3/8, 1/2
7	1/2	-	1/8, 1/4, 3/8, 1/2
7	3/4	-	1/8, 1/4, 3/8, 1/2
7	1	-	1/8, 1/4, 3/8, 1/2
8	1/8	-	1/8, 1/4, 3/8, 1/2
8	3/16	-	1/8, 1/4, 3/8, 1/2
8	1/4	-	1/8, 1/4, 3/8, 1/2
8	3/8	-	1/8, 1/4, 3/8, 1/2
8	1/2	-	1/8, 1/4, 3/8, 1/2
8	3/4	-	1/8, 1/4, 3/8, 1/2
8	1	-	1/8, 1/4, 3/8, 1/2
10	1/4	-	1/8, 1/4, 3/8, 1/2
10	3/8	-	1/8, 1/4, 3/8, 1/2
10	1/2	-	1/8, 1/4, 3/8, 1/2
10	3/4	-	1/8, 1/4, 3/8, 1/2
10	1	-	1/8, 1/4, 3/8, 1/2
12	1/4	-	1/8, 1/4, 1/2, 3/4
12	3/8	-	1/8, 1/4, 1/2, 3/4
12	1/2	-	1/8, 1/4, 1/2, 3/4
12	3/4	-	1/8, 1/4, 1/2, 3/4
12	1	-	1/8, 1/4, 1/2, 3/4

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, and "X"

Example: D1A1 6 x 3/8 x 1-1/4 D120 R100 B1/8  
 B1A1 4 x 1/8 x 3/4 CBN220 N75 B1/4

# 1A1



D	T	H	X
14	3/8	-	1/8, 1/4, 1/2
14	1/2	-	1/8, 1/4, 1/2
14	3/4	-	1/8, 1/4, 1/2
14	1	-	1/8, 1/4, 1/2
16	3/8	-	1/8, 1/4, 1/2, 3/4
16	1/2	-	1/8, 1/4, 1/2, 3/4
16	3/4	-	1/8, 1/4, 1/2, 3/4
16	1	-	1/8, 1/4, 1/2, 3/4
18	1/2	-	1/8, 1/4, 1
18	3/4	-	1/8, 1/4, 1
18	1	-	1/8, 1/4, 1
20	1/2	-	1/8, 1/4, 1/2, 1
20	3/4	-	1/8, 1/4, 1/2, 1
20	1	-	1/8, 1/4, 1/2, 1
24	3/4	-	1/8, 1/4, 1/2, 1, 1-1/2
24	1	-	1/8, 1/4, 1/2, 1, 1-1/2
30	3/4	-	1/4, 1/2
30	1	-	1/4, 1/2
36	3/4	-	3/8, 1/2
36	1	-	3/8, 1/2

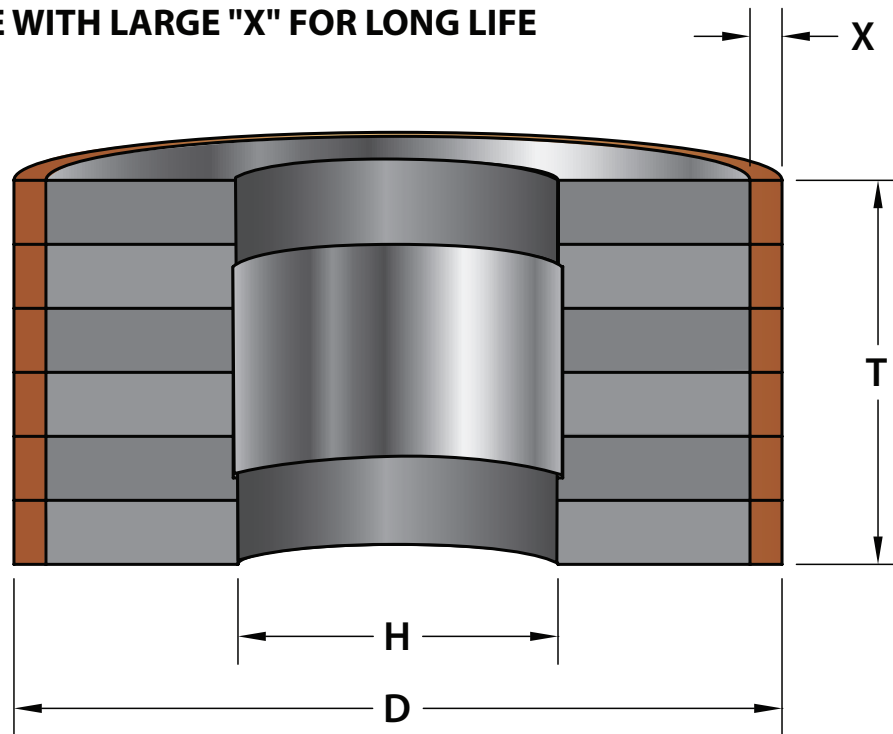
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, and "X"

Example: D1A1 6 x 3/8 x 1-1/4 D120 R100 B1/8  
 B1A1 4 x 1/8 x 3/4 CBN220 N75 B1/4

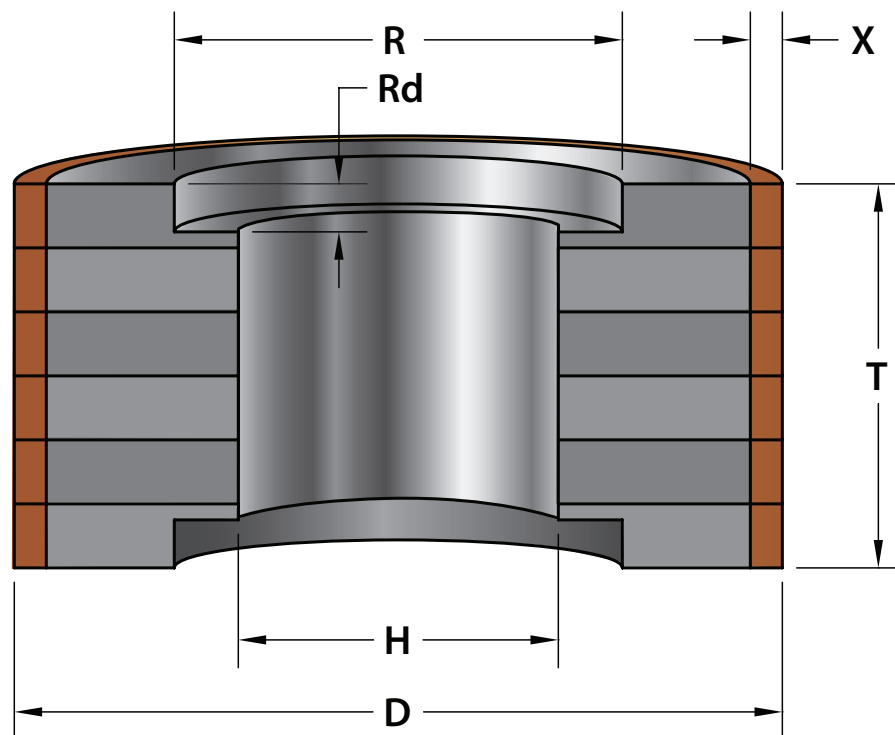


**MULTIPLE SECTION WHEELS  
FOR CENTERLESS GRINDING  
AVAILABLE WITH LARGE "X" FOR LONG LIFE**

**1A1**



**9A1**



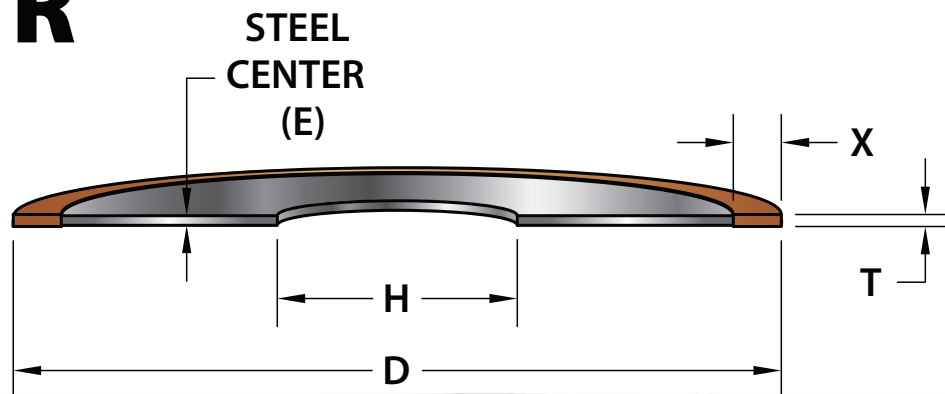
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and Recess Dimensions

Example: D1A1 20 x 6 x 12 D 120 R 75 B 1/2

D9A1 12 x 6 x 5 D 180 R 75 B 1/2, 3/4 x 7-1/2 Recess (2) Sides



# 1A1R



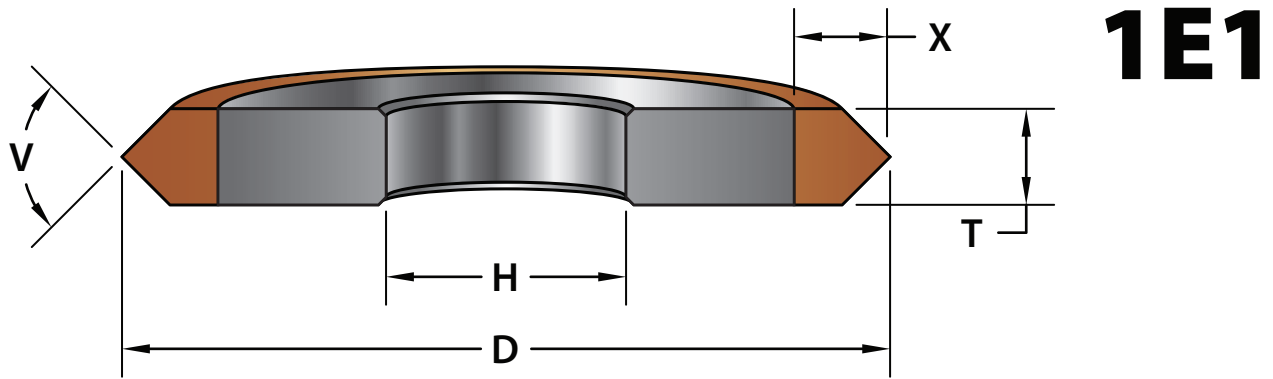
D	T	H	(E)	X
3	1/32	-	.025	1/4
3	.045	-	.025	1/4
4	1/32	-	.025	1/4
4	.035	-	.025	1/4
4	.045	-	.035	1/4
4	1/16	-	.050	1/4
5	1/32	-	.025	1/4
5	.035	-	.025	1/4
5	.045	-	.035	1/4
5	1/16	-	.050	1/4
6	1/32	-	.025	1/8, 1/4, 5/16
6	.035	-	.025	1/8, 1/4, 5/16
6	.045	-	.035	1/8, 1/4, 5/16
6	1/16	-	.050	1/8, 1/4, 5/16
7	.035	-	.030	1/4, 5/16
7	.045	-	.030	1/4, 5/16
7	1/16	-	.050	1/4, 5/16
8	.040	-	.030	1/4
8	.045	-	.030	1/4
8	.050	-	.035	1/4
8	1/16	-	.050	1/4

D	T	H	(E)	X
10	.045	-	.031	1/4, 3/8
10	.050	-	.035	1/4, 3/8
10	1/16	-	.050	1/4, 3/8
10	.070	-	.050	1/4, 3/8
12	.045	-	.031	1/4, 3/8
12	.050	-	.035	1/4, 3/8
12	1/16	-	.050	1/4, 3/8
12	.070	-	.050	1/4, 3/8
14	1/16	-	.050	3/8
14	.070	-	.060	3/8

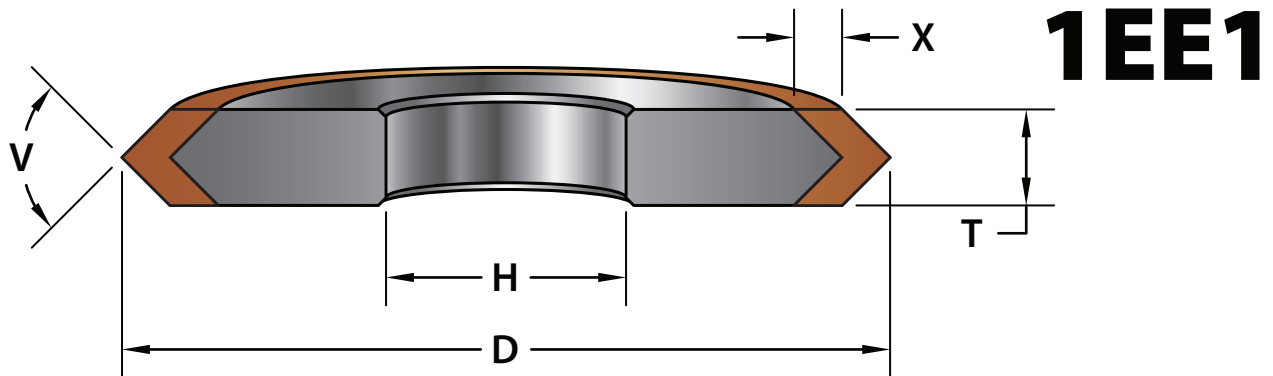
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, and "X"

Example: B1A1R 6 x .045 x 1-1/4 CBN100 R50 B5/16  
 D1A1R 10 x 1/16 x 3 D120 R100 B1/4





**1E1**



**1EE1**

**1E1**

D	T	H	V	X
3	1/8	-	45°, 60°, 90°	1/4
3	1/4	-	60°, 90°	1/4
4	1/8	-	45°, 60°, 90°	1/4, 3/8
4	1/4	-	60°, 90°	1/4, 3/8
4	3/8	-	90°, 120°	3/8
4	1/2	-	90°, 120°	3/8
5	1/8	-	45°, 60°, 90°	1/4, 3/8
5	1/4	-	60°, 90°	1/4, 3/8
5	3/8	-	90°, 120°	3/8
5	1/2	-	90°, 120°	3/8
6	1/8	-	45°, 60°, 90°	1/4, 3/8
6	1/4	-	60°, 90°	1/4, 3/8
6	3/8	-	90°, 120°	3/8
6	1/2	-	90°, 120°	3/8
7	1/8	-	45°, 60°, 90°	1/4, 3/8
7	1/4	-	60°, 90°	1/4, 3/8
7	3/8	-	90°, 120°	3/8
7	1/2	-	90°, 120°	3/8

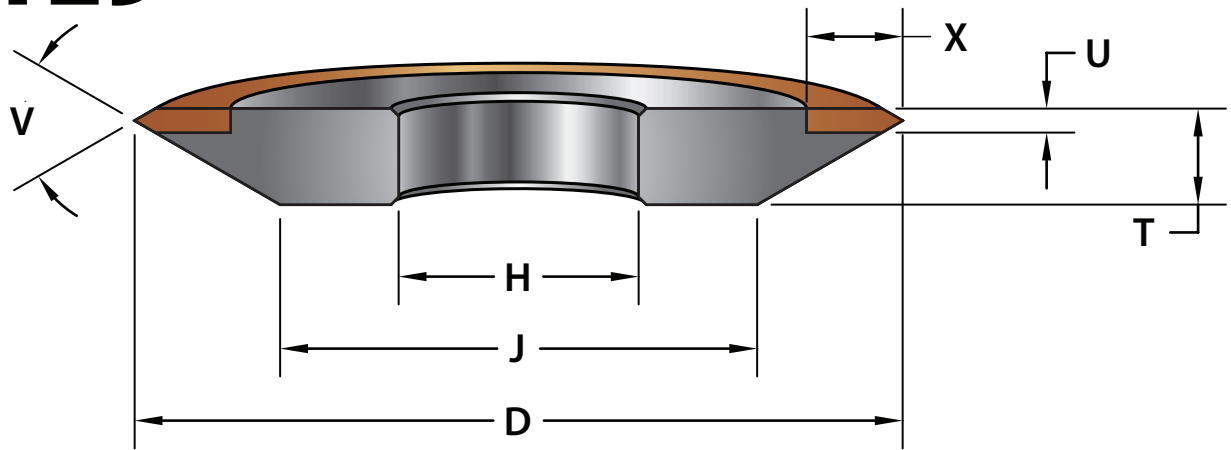
**1EE1**

D	T	H	V	X
3	1/8	-	60°, 90°	1/8
3	1/4	-	60°, 90°	1/8
4	1/8	-	60°, 90°	1/8, 1/4
4	1/4	-	60°, 90°	1/8, 1/4
4	3/8	-	90°, 120°	1/8, 1/4
4	1/2	-	90°	1/8, 1/4
5	1/8	-	60°, 90°	1/8, 1/4
5	1/4	-	60°, 90°	1/8, 1/4
5	3/8	-	90°, 120°	1/8, 1/4
5	1/2	-	90°	1/8, 1/4
6	1/8	-	45°, 60°, 90°	1/8, 1/4
6	1/4	-	60°, 90°	1/8, 1/4
6	3/8	-	90°, 120°	1/8, 1/4
6	1/2	-	90°	1/8, 1/4
7	1/8	-	60°, 90°	1/8, 1/4
7	1/4	-	60°, 90°	1/8, 1/4
7	3/8	-	90°, 120°	1/8, 1/4
7	1/2	-	90°	1/8, 1/4

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "V"

Example: D1EE1 5 x 1/8 x 1-1/4 D240 N100 B1/4 60°  
 B1E1 7 x 3/8 x 1-1/4 CBN220 R75 B1/4 90°

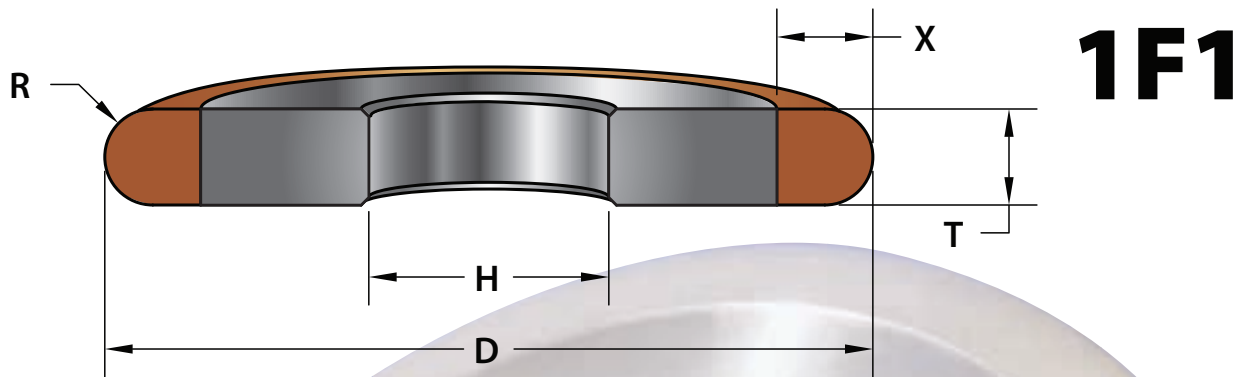
# 1E9



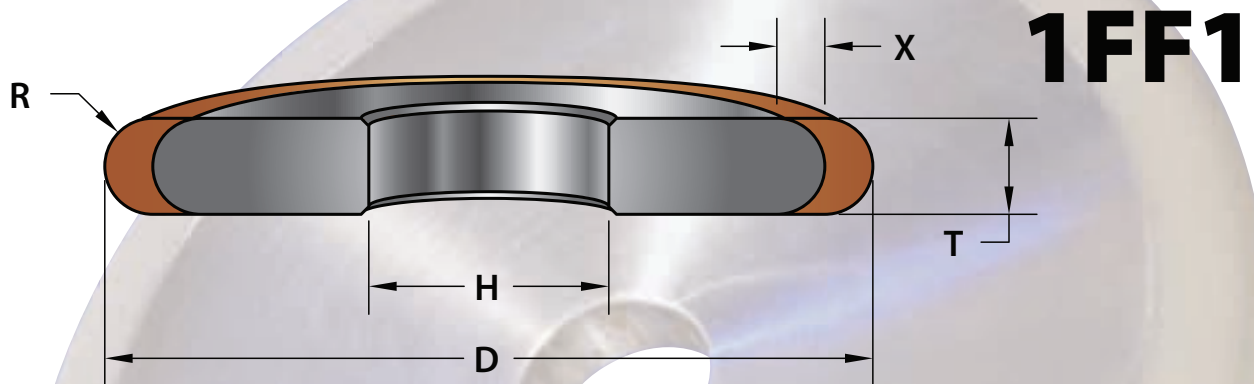
D	T	H	J	U	X	V
3	1/4	-	2-9/16	1/16	1/4	90°
3	1/4	-	2-1/4	1/16	1/4	60°
4	1/4	-	3-9/16	1/16	1/4, 3/8	90°
4	1/4	-	3-1/4	1/16	1/4, 3/8	60°
5	3/8	-	4-5/16	1/16	1/4, 3/8	90°
5	3/8	-	3-13/16	1/16	1/4, 3/8	60°
6	3/8	-	5-5/16	1/16	1/4, 3/8, 1/2	90°
6	3/8	-	4-13/16	1/16	1/4, 3/8, 1/2	60°

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X", "U" and "V"

Example: D1E9 6 x 3/8 x 1-1/4 D240 N125 B1/16 U=1/16 60°  
 B1E9 4 x 1/4 x 20mm CBN180 R100 B1/16 U=1/4 90°



**1F1**



**1FF1**

**1F1**

**1FF1**

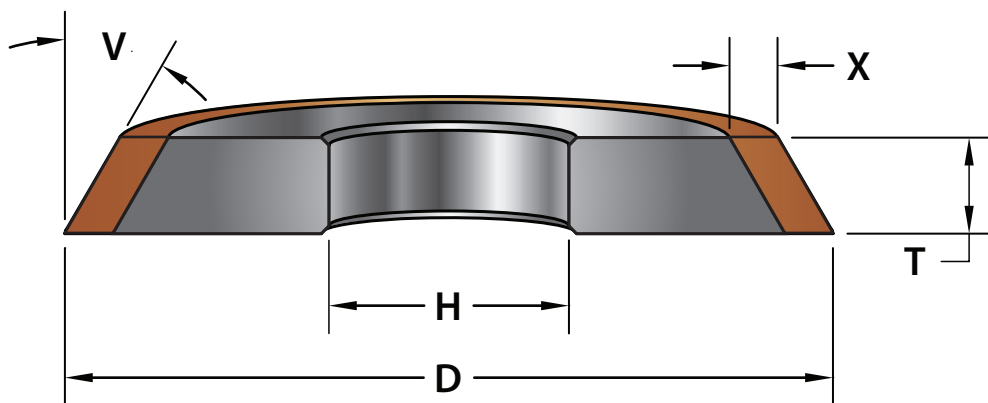
D	T	H	R	X
3	1/8	-	1/16	1/8, 1/4
3	1/4	-	1/8	1/4
4	1/8	-	1/16	1/8, 1/4
4	1/4	-	1/8	1/4, 3/8
4	3/8	-	3/16	1/4, 3/8
4	1/2	-	1/4	3/8
5	1/8	-	1/16	1/8, 1/4
5	1/4	-	1/8	1/4, 3/8
5	3/8	-	3/16	1/4, 3/8
5	1/2	-	1/4	3/8
6	1/8	-	1/16	1/8, 1/4
6	1/4	-	1/8	1/4, 3/8, 1/2
6	3/8	-	3/16	1/4, 3/8, 1/2
6	1/2	-	1/4	3/8, 1/2
7	1/8	-	1/16	1/8, 1/4
7	1/4	-	1/8	1/4, 3/8, 1/2
7	3/8	-	3/16	1/4, 3/8, 1/2
7	1/2	-	1/4	3/8, 1/2

D	T	H	R	X
3	1/8	-	1/16	1/8
3	1/4	-	1/8	1/8, 1/4
4	1/8	-	1/16	1/8
4	1/4	-	1/8	1/8, 1/4
4	3/8	-	3/16	3/16
4	1/2	-	1/4	1/8, 1/4
5	1/8	-	1/16	1/8
5	1/4	-	1/8	1/8, 1/4
5	3/8	-	3/16	3/16
5	1/2	-	1/4	1/8, 1/4
6	1/8	-	1/16	1/8, 1/4
6	1/4	-	1/8	1/8, 1/4, 3/8
6	3/8	-	3/16	1/8, 1/4, 3/8
6	1/2	-	1/4	1/8, 1/4
7	1/8	-	1/16	1/8
7	1/4	-	1/8	1/8, 1/4
7	3/8	-	3/16	3/16
7	1/2	-	1/4	1/8, 1/4

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond and "X"

Example: D1FF1 6 x 1/4 x 1-1/4 D180 R100 B1/4  
 B1F1 7 x 1/8 x 1-1/4 CBN120 R75 B1/4

# 1V1



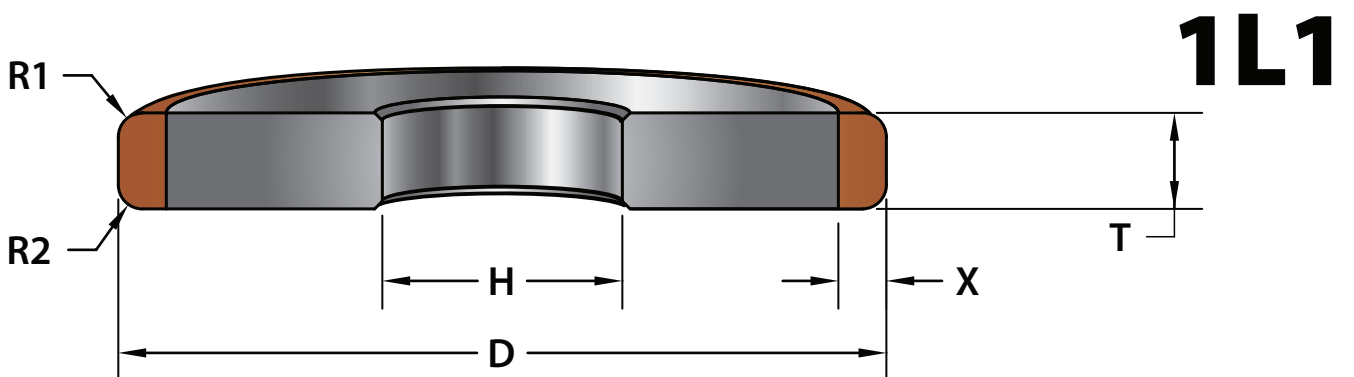
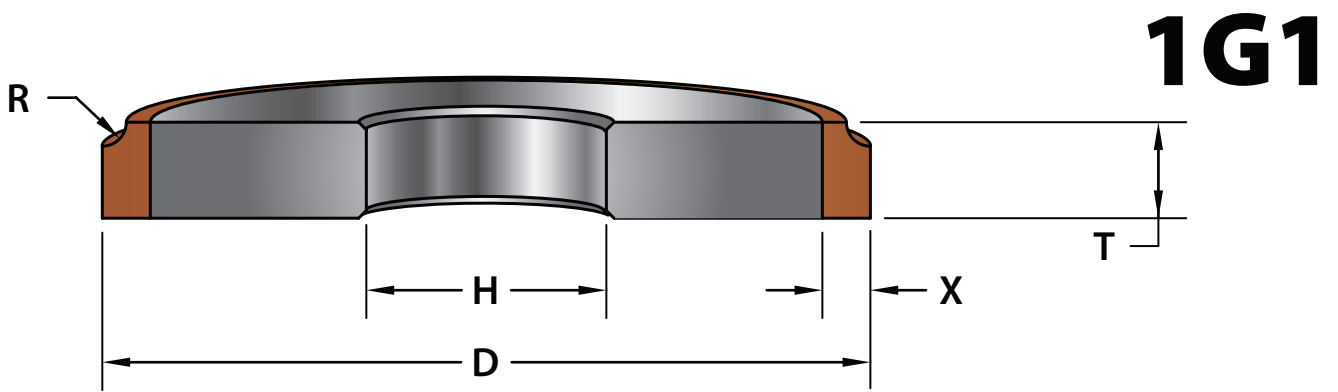
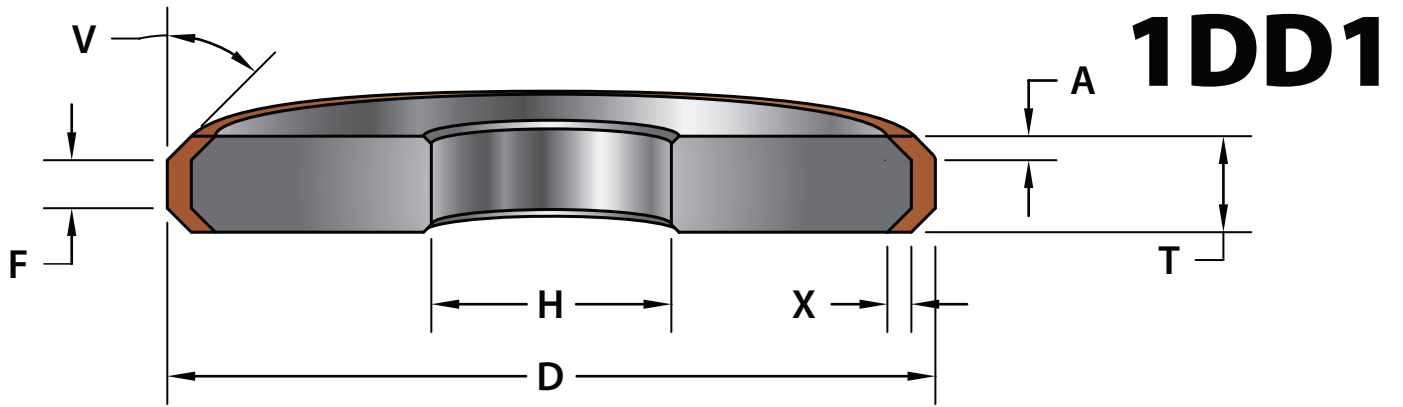
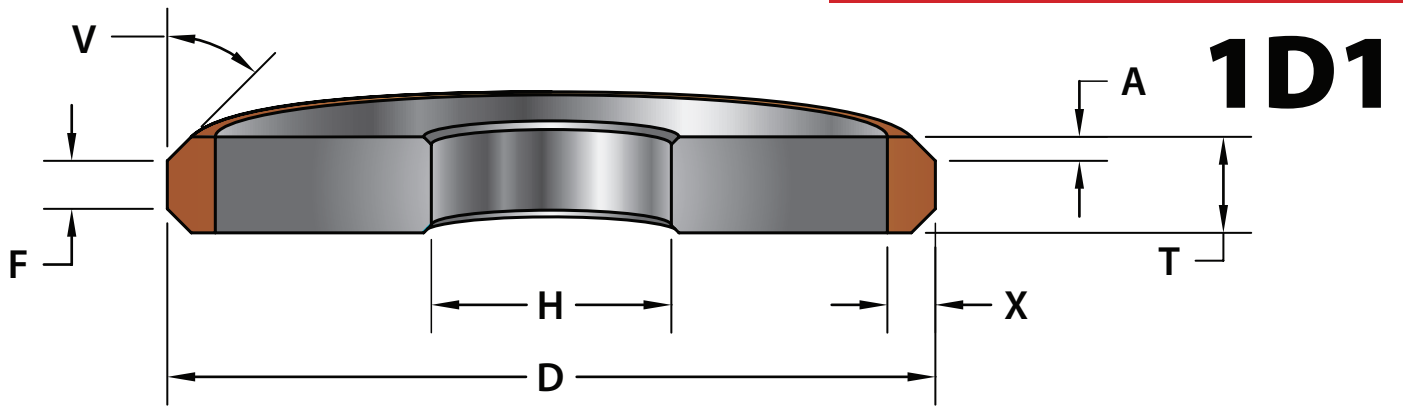
D	T	H	V	X
4	1/8	-	10°, 15°, 20°	1/8, 1/4
4	1/8	-	25°, 30°, 45°	1/8, 1/4
4	1/4	-	10°, 15°, 20°	1/8, 1/4
4	1/4	-	25°, 30°, 45°	1/8, 1/4
4	3/8	-	10°, 15°, 20°	1/8, 1/4
4	3/8	-	25°, 30°, 45°	1/8, 1/4
4	3/8	-	60°	1/4
4	1/2	-	10°, 15°, 20°	1/8, 1/4
4	1/2	-	25°, 30°, 45°	1/8, 1/4
5	1/8	-	10°, 15°, 20°	1/8, 1/4
5	1/8	-	25°, 30°, 45°	1/8, 1/4
5	1/4	-	10°, 15°, 20°	1/8, 1/4
5	1/4	-	25°, 30°, 45°	1/8, 1/4
5	3/8	-	10°, 15°, 20°	1/8, 1/4
5	3/8	-	25°, 30°, 45°	1/8, 1/4
5	1/2	-	10°, 15°, 20°	1/8, 1/4
5	1/2	-	25°, 30°, 45°	1/8, 1/4
5	3/4	-	60°	1/4
6	3/32	-	15°, 20°	1/4, 3/8
6	1/8	-	10°, 15°, 20°	1/8, 1/4
6	1/8	-	25°, 30°, 45°	1/8, 1/4
6	1/4	-	10°, 15°, 20°	1/8, 1/4
6	1/4	-	25°, 30°, 45°	1/8, 1/4
6	3/8	-	10°, 15°, 20°	1/8, 1/4
6	3/8	-	25°, 30°, 45°	1/8, 1/4
6	1/2	-	10°, 15°, 20°	1/8, 1/4
6	1/2	-	25°, 30°, 45°	1/8, 1/4

D	T	H	V	X
7	1/8	-	10°, 15°, 20°	1/8, 1/4
7	1/8	-	25°, 30°, 45°	1/8, 1/4
7	1/4	-	10°, 15°, 20°	1/8, 1/4
7	1/4	-	25°, 30°, 45°	1/8, 1/4
7	3/8	-	10°, 15°, 20°	1/8, 1/4
7	3/8	-	25°, 30°, 45°	1/8, 1/4
7	1/2	-	10°, 15°, 20°	1/8, 1/4
7	1/2	-	25°, 30°, 45°	1/8, 1/4
8	1/4	-	10°, 15°, 20°	1/8, 1/4
8	1/4	-	25°, 30°, 45°	1/8, 1/4
8	3/8	-	10°, 15°, 20°	1/8, 1/4
8	3/8	-	25°, 30°, 45°	1/8, 1/4
8	1/2	-	10°, 15°, 20°	1/8, 1/4
8	1/2	-	25°, 30°, 45°	1/8, 1/4

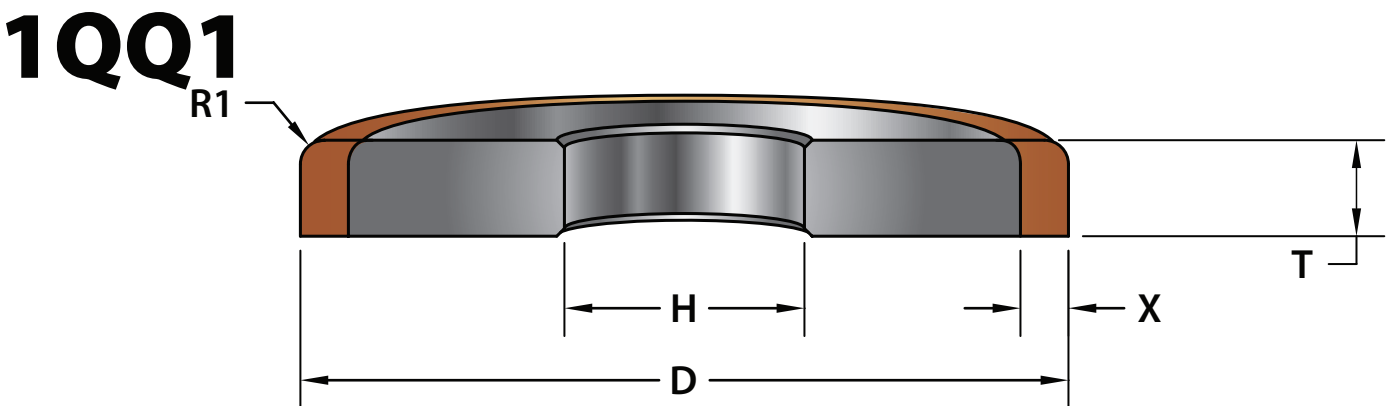
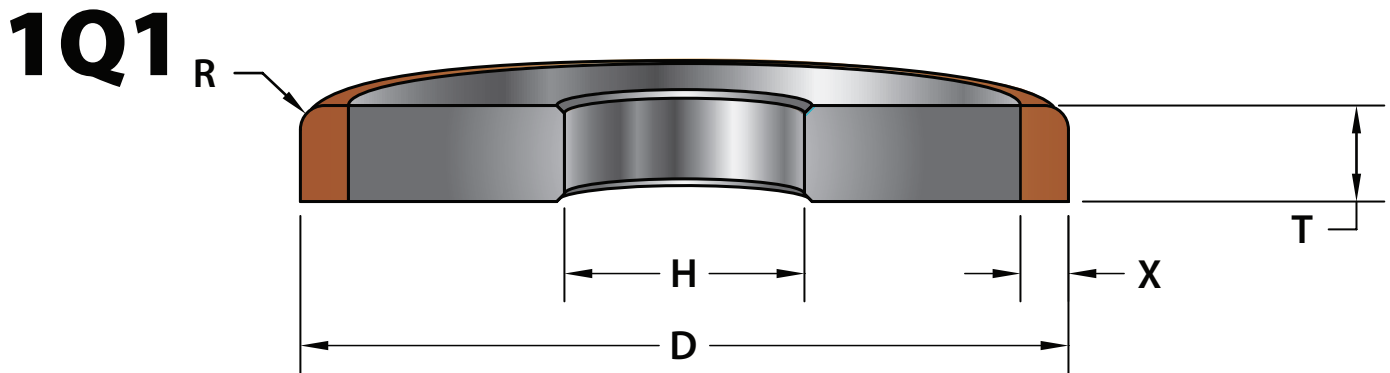
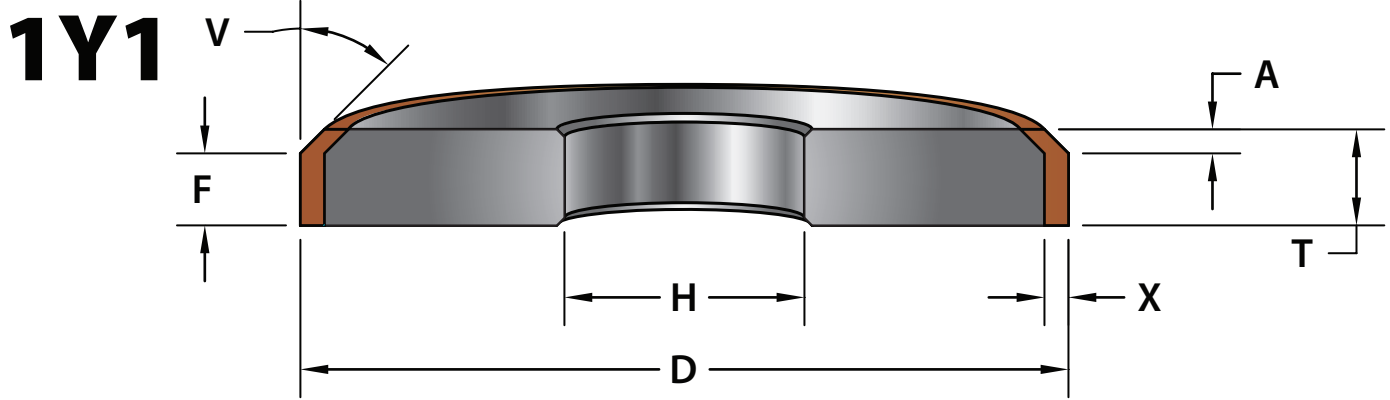
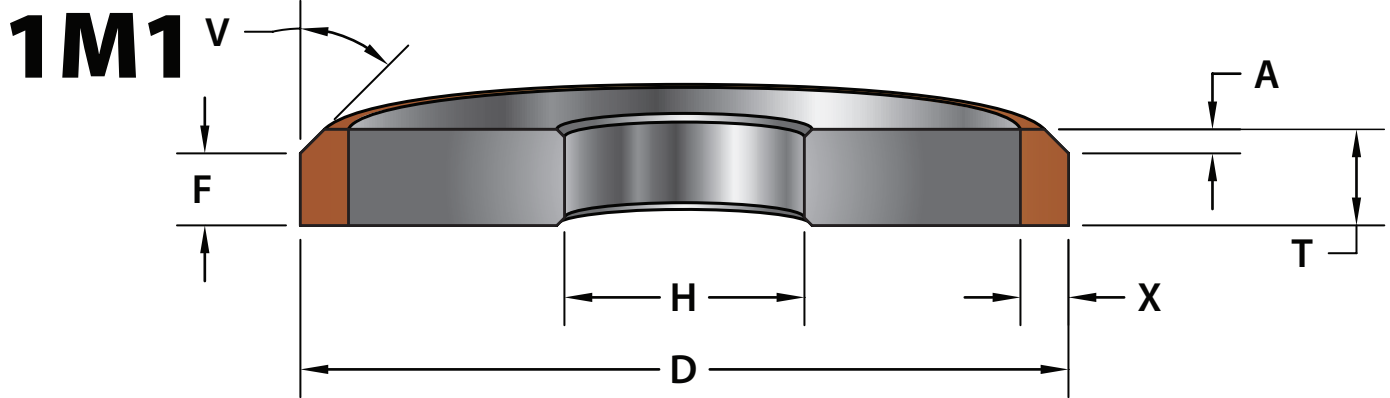
**OTHER SIZES ARE  
AVAILABLE ON REQUEST**

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "V"

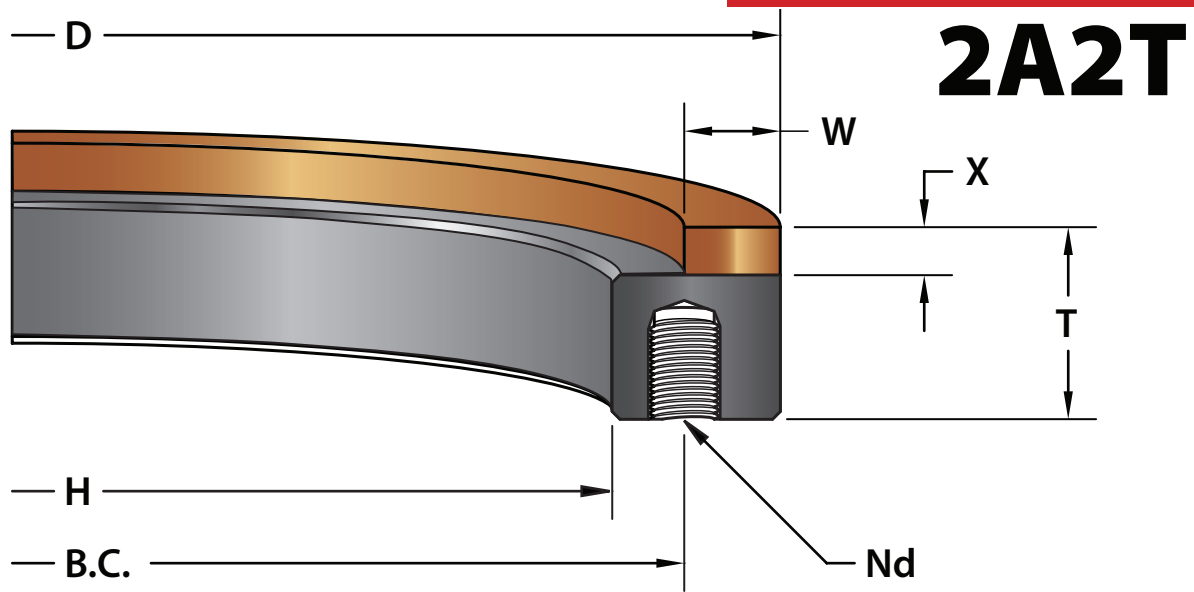
Example: D1V1 6 x 3/32 x 1-1/4 D320 R125 B3/8 15°  
B1V1 4 x 3/8 x 38mm CBN180 R100 B1/4 45°



OTHER WHEEL SHAPES ABRASIVE IN PERIPHERY AVAILABLE ON REQUEST



OTHER WHEEL SHAPES ABRASIVE IN PERIPHERY AVAILABLE ON REQUEST

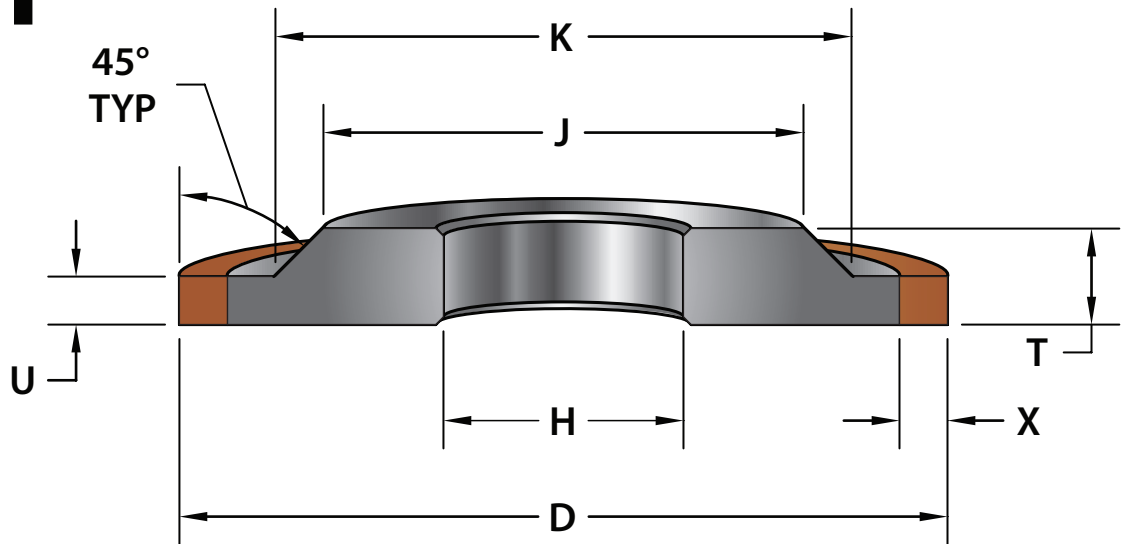


D	T	H	W	X	B.C.	Nd
6	7/8	4.532	1/4, 3/8, 1/2	1/4	5-1/4	(6) HOLES 1/4-20
6	7/8	4.532	5/8, 3/4, 1	1/4	5-1/4	(6) HOLES 1/4-20
8	1	6-1/2	1/4, 3/8, 1/2	1/4	7-1/4	(6) HOLES 3/8-16
8	1	6-1/2	3/4, 1	1/4	7-1/4	(6) HOLES 3/8-16
10	1	8	1/4, 3/8, 1/2	1/4	9	(6) HOLES 3/8-16
10	1	8	3/4, 1	1/4	9	(6) HOLES 3/8-16
11	1-1/4	9	1/4, 3/8, 1/2	1/4	10	(6) HOLES 3/8-16
11	1-1/4	9	5/8, 3/4, 1	1/4	10	(6) HOLES 3/8-16
11	1-3/8	9	3/8, 1/2	3/8	10	(6) HOLES 3/8-16
11	1-3/8	9	5/8, 3/4, 1	3/8	10	(6) HOLES 3/8-16
12	1	8	1/4, 1/2, 1	1/4	10	(6) HOLES 3/8-16
14	1	-	1/4, 1/2, 1	1/4	-	-
14	1	-	1-1/2, 3	1/4	-	-
16	1	-	3/4, 1	1/4	-	-
18	1	16	1/4, 3/4	1/4	17	(12) HOLES 3/8-16
18	1 (1-1/8)	16	1, 2	1/4, 3/8	17	(12) HOLES 3/8-16
20	1-1/2	-	1/2, 1, 2, 3	1/4, 3/8	-	-
22	1-1/2	-	1	1/4, 3/8, 1/2	-	-

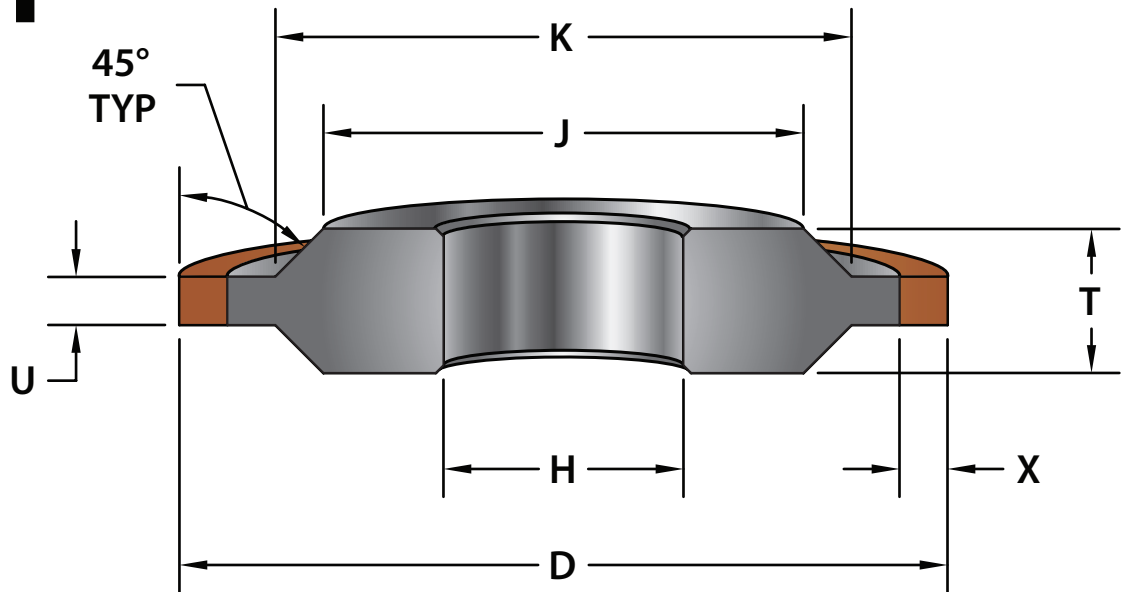
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X", "W" and B.C. Dimensions

Example: D2A2T 6 x 7/8 x 4.532 D240 N75 B1/4 W=1/2 (6) HOLES 1/4-20 TAP ON A 5-1/4 B.C.  
 B2A2T 8 x 1 x 6-1/2 CBN120 R50 B1/4 W=1/2 (6) HOLES 3/8-16 TAP ON A 7-1/4 B.C.

# 3A1



# 14A1

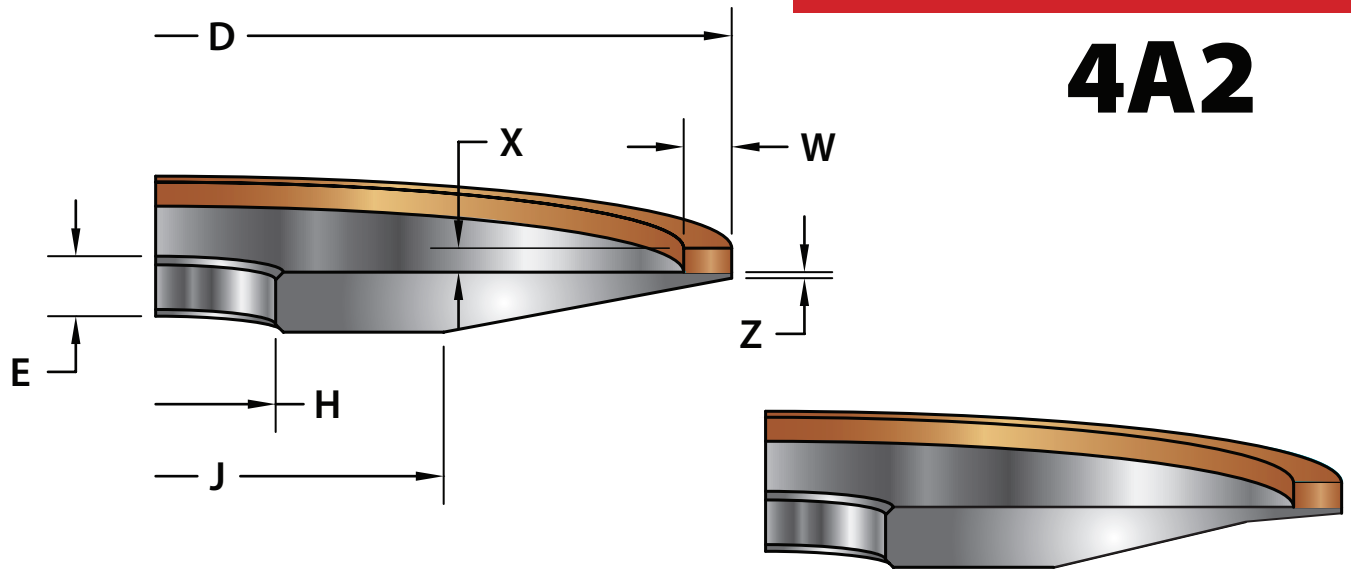


HUB WHEELS AVAILABLE ON REQUEST SPECIFY ALL DIMENSIONS





# 4A2



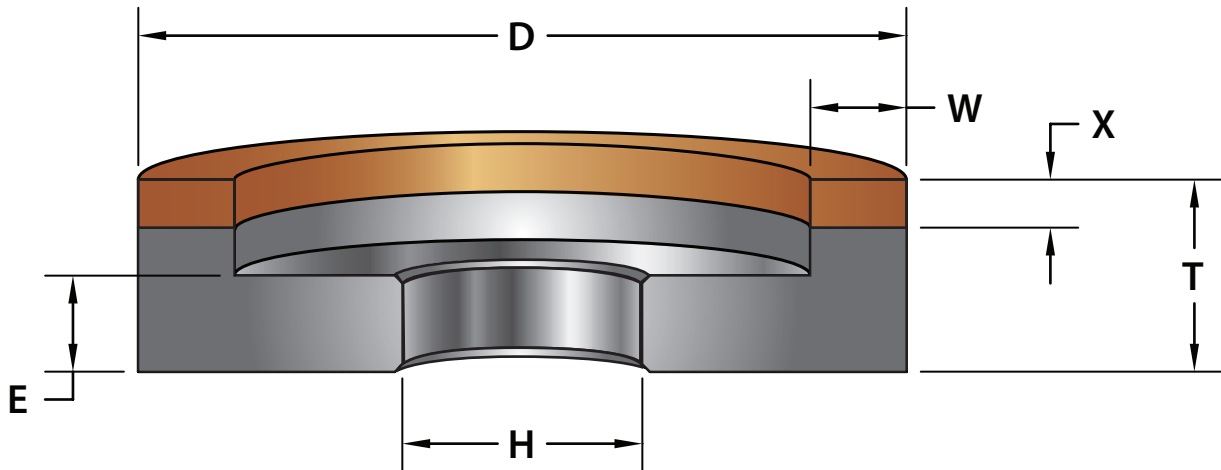
**THIN RIM STYLE FOR NARROW GULLETS**

D	E	H	W	X	J	Z
3	5/16	-	1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	1-1/2	3/64
100mm	5/16	-	1/8, 3/16	1/16, 1/8, 3/16, 1/4	2-1/4	3/64
4	5/16	-	1/8, 3/16, 1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	2-1/4	3/64
4-1/2	5/16	-	1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	2.638	3/64
115mm	5/16	-	1/8, 3/16	1/16, 1/8, 3/16, 1/4	2.638	3/64
125mm	5/16	-	.090, 1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	2.638	3/64
5	5/16	-	1/8, 3/16, 1/4, 3/8	1/16, 1/8, 3/16, 1/4	2-1/4	3/64
150mm	5/16	-	.050, 1/16, .090, 1/8	1/16, 3/32, 1/8	3	3/64
6	5/16	-	1/8, 3/16, 1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	3	3/64
160mm	10mm	-	1/8, 3/16, 1/4	1/16, 1/8, 1/4	78mm	3/64
175mm	11mm	-	1/4	1/16, 1/8, 1/4	125mm	3/64
7	5/16	-	1/8, 3/16, 1/4, 3/8	1/16, 1/8, 3/16, 1/4	4	3/64
8	5/16	-	1/8, 3/16, 1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	4-1/4	3/64
10	5/16	-	1/8, 3/16, 1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	6-5/8	3/64
12	3/8	-	1/4	1/16, 1/8, 3/16, 1/4	9	3/64

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "W"

Example: D4A2 6 x 3/8 x 1-1/4 D180 R75 B1/16 W=3/16  
 B4A2 4 x 3/8 x 1/2 CBN100 R50 B1/16 W=3/16

# 6A2



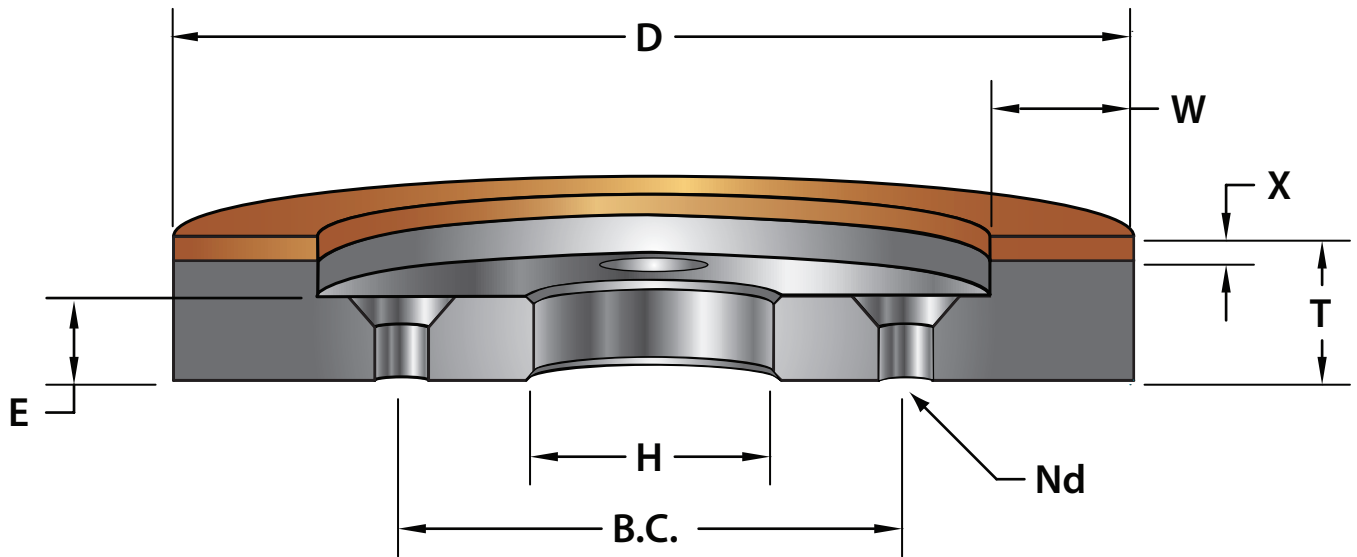
D	T	H	W	X	E
2	3/4	-	1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	3/8
3	3/4	-	1/4, 3/8, 1/2, 3/4	1/16, 1/8, 3/16, 1/4	3/8
4	3/4	-	1/8, 1/4, 3/8, 1/2, 3/4	1/16, 1/8, 3/16, 1/4	3/8
5	1	-	1/8, 3/16, 1/4, 3/8	1/16, 1/8, 3/16, 1/4	7/16
5	1	-	1/2, 3/4, 1, 1-1/16	1/16, 1/8, 3/16, 1/4	7/16
6	3/4	-	1/8, 3/16, 1/4, 3/8	1/16, 1/8, 3/16, 1/4	7/16
6	3/4	-	1/2, 5/8, 3/4	1/16, 1/8, 3/16, 1/4	7/16
6	3/4	-	1, 1-1/2, 2	1/16, 1/8, 3/16, 1/4	7/16
7	1	-	1/8, 3/16, 1/4, 3/8	1/16, 1/8, 3/16, 1/4	1/2
7	1	-	1/2, 3/4, 1, 1-1/4, 2	1/16, 1/8, 3/16, 1/4	1/2
8	1-1/2	-	1/8, 1/4, 3/8	1/16, 1/8, 3/16, 1/4	1/2
8	1-1/2	-	1/2, 3/4, 1	1/16, 1/8, 3/16, 1/4	1/2
10	1-1/2	-	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	3/4
10	1-1/2	-	3/4, 1, 1-1/2	1/16, 1/8, 3/16, 1/4	3/4
12	1-1/2	-	1/4, 1/2, 1	1/8, 3/16, 1/4	3/4
14	1-1/2	-	1/4, 1/2, 1, 1-1/2	1/8, 3/16, 1/4	3/4

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "W"

Example: D6A2 6 x 3/4 x 1-1/4 D180 R100 B1/8 W=3/8  
 B6A2 8 x 1-1/2 x 1-3/4 CBN150 N75 B1/8 W=1/2



# 6A2C



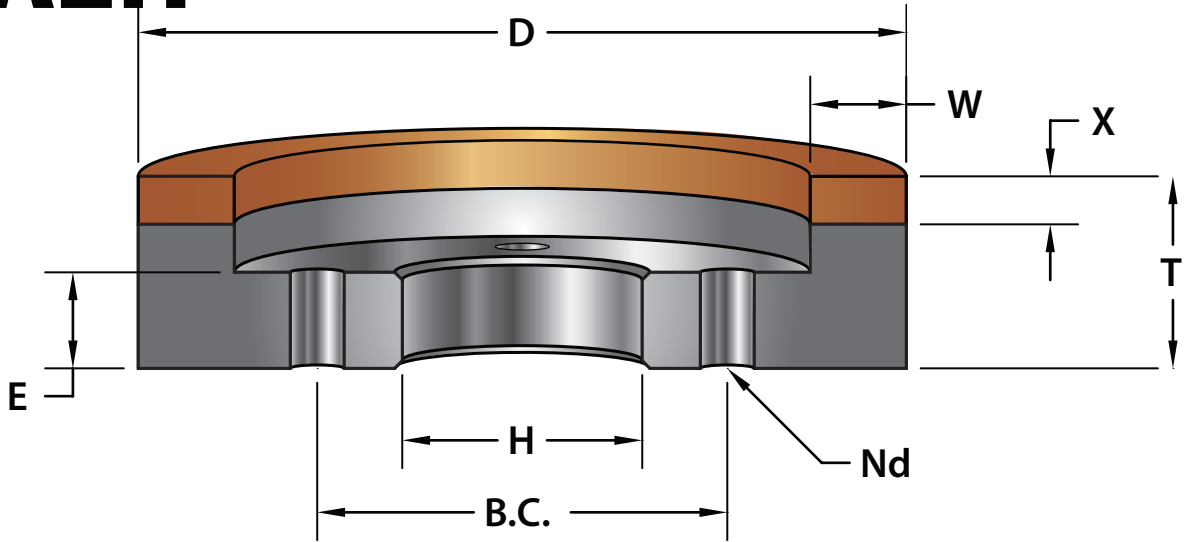
D	T	H	W	X	E	B.C.	Nd
6	3/4	1-1/4	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
6	3/4	1-1/4	3/4, 1	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
6	1-1/4	1-1/4	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
6	1-1/4	1-1/4	3/4, 1	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
7	3/4	1-1/4	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
7	3/4	1-1/4	3/4, 1	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
7	1	1-1/4	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	1-7/8	(4) x 9/32
7	1	1-1/4	3/4, 1	1/16, 1/8, 3/16, 1/4	1/2	1-7/8	(4) x 9/32
8	3/4	1-1/4	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
8	3/4	1-1/4	3/4, 1, 1-1/4, 1-1/2	1/16, 1/8, 3/16, 1/4	7/16	3-1/4	(4) x 9/32
10	1	2	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	3/4	3-1/2	(6) x 11/32
10	1	2	3/4, 1, 1-1/2	1/16, 1/8, 3/16, 1/4	3/4	3-1/2	(6) x 11/32

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X", "W" and B.C. Dimensions

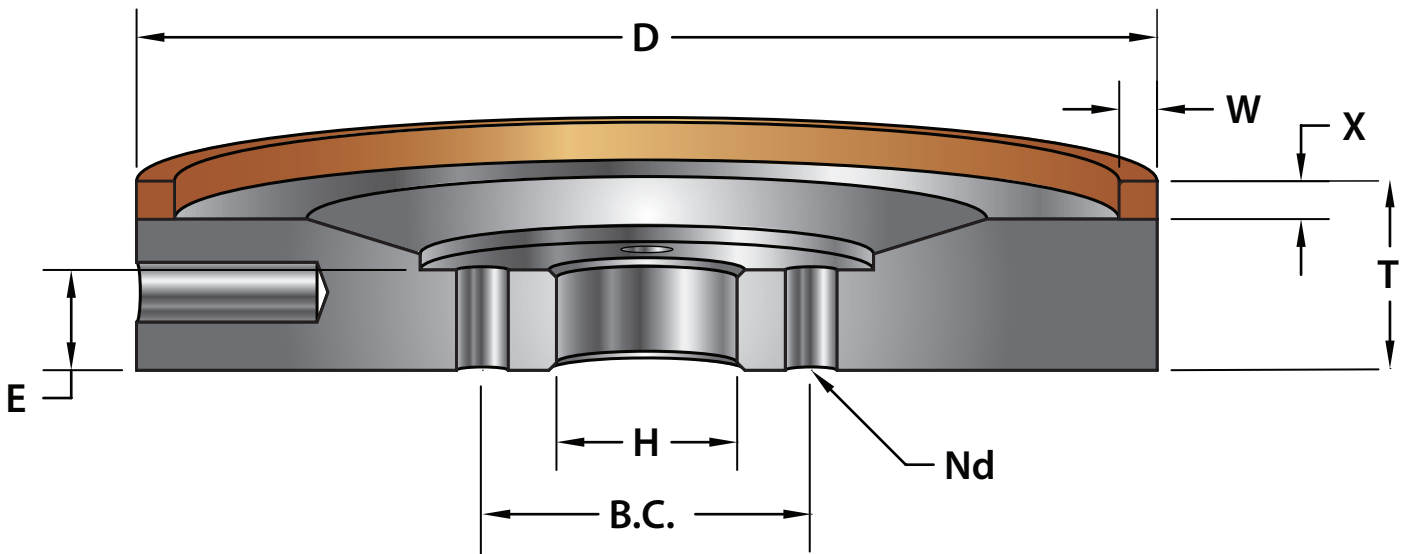
Example: D6A2C 10 x 1 x 2 D12 R100 1/4 W=1 (6) HOLES 11/32 ON A 3-1/2 B.C.

B6A2C 6 X 3/4 X 1-1/4 CBN100 R50 B1/8 W=3/8 (3) HOLES 9/32 ON A 3-1/4 B.C.

# 6A2H



D	T	H	W	X	E	B.C.	Nd
5	1	1-1/4	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	2	(4) x 9/32
5	1	1-1/4	3/4, 1, 1-1/16	1/16, 1/8, 3/16, 1/4	1/2	2	(4) x 9/32



D	T	H	W	X	E	B.C.	Nd
135mm	25mm	30mm	4mm, 5mm	1/16, 1/8, 3/16, 1/4	13mm	43.5mm	(4) x .270

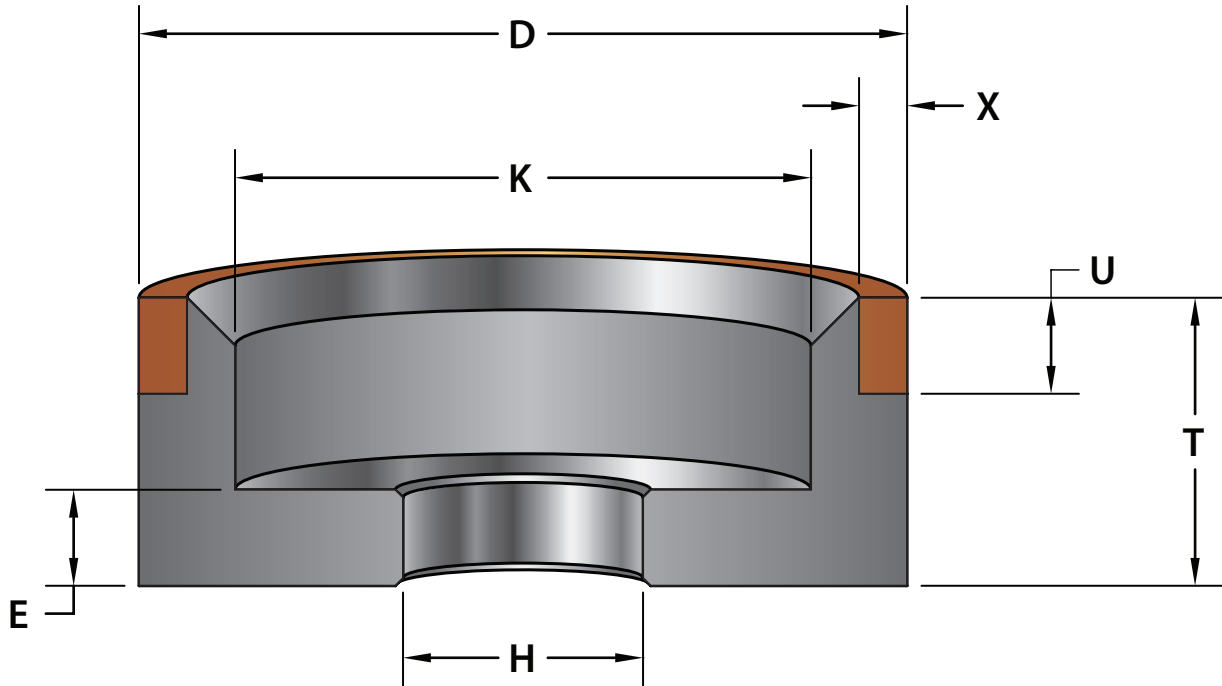
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X", "W" and B.C. Dimensions

Example: D6A2H 5 x 1 x 1-1/4 D320 R50 1/16 W=1-1/16 (4) HOLES 9/32 ON A 2 B.C.

B6A2H 135mm x 25mm x 30mm CBN100 R75 B5mm W=5mm (4) HOLES .270 ON A 43.5mm B.C.



# 6A9

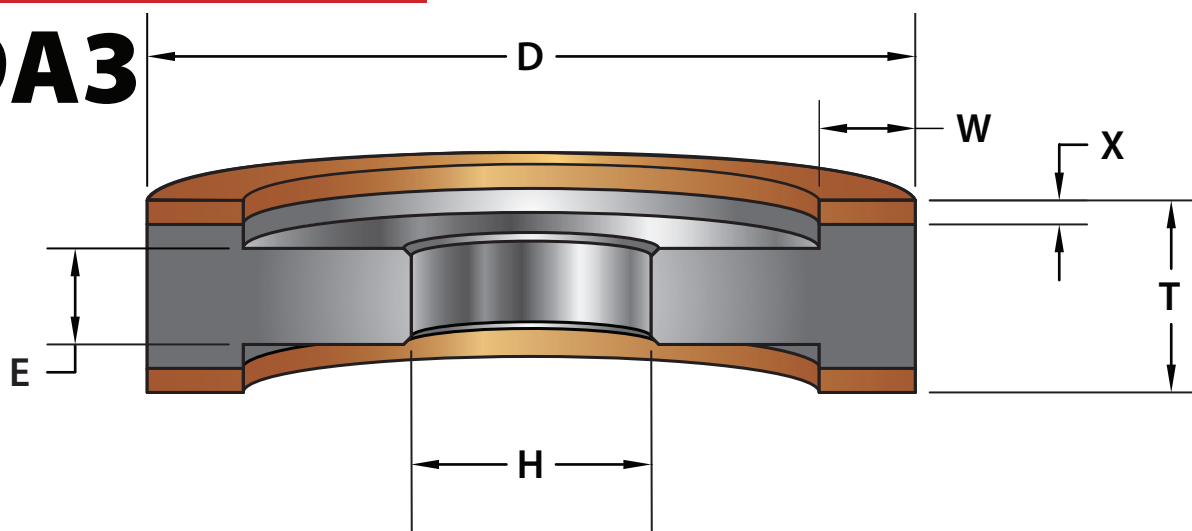


D	T	H	U	X	E	K
3	1-1/2	-	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	2
4	1-1/2	-	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	3
5	1-1/2	-	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	4
6	1-1/2	-	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	5
7	1-1/2	-	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	6
8	1-1/2	-	1/4, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	7

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "U"

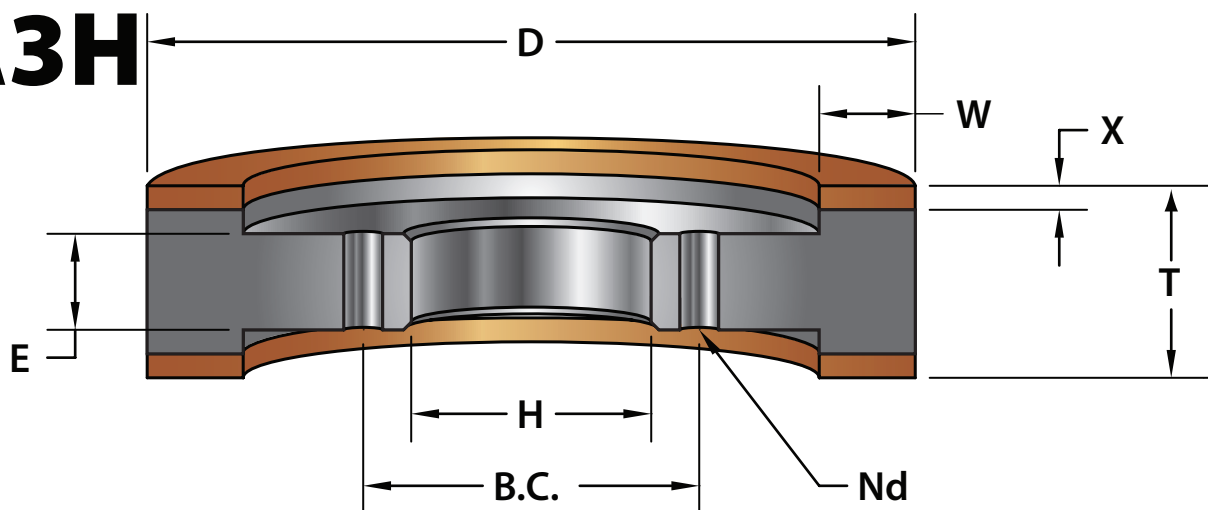
Example: D6A9 6 x 1-1/2 x 1-1/4 D220 R100 B1/8 U=3/8  
 B6A9 5 x 1-1/2 x 3/4 CBN150 R100 B1/4 U=1/2

# 9A3



D	T	H	W	X	E
6	1	-	1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	1/2
6	1	-	5/16, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2
7	1	-	1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	1/2
7	1	-	3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2

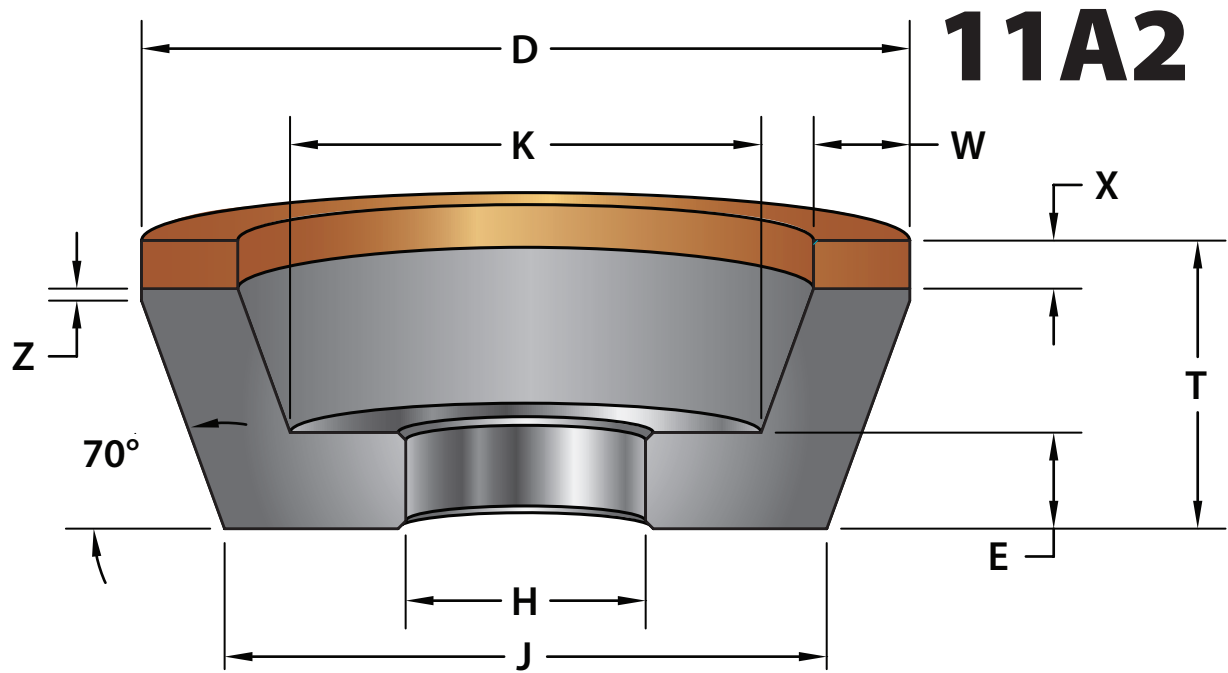
# 9A3H



D	T	H	W	X	E	B.C.	Nd
6	1	-	1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	1/2	1-3/4	(3) x 13/64
6	1	-	5/16, 3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	1-3/4	(3) x 13/64
7	1	-	1/8, 3/16, 1/4	1/16, 1/8, 3/16, 1/4	1/2	1-3/4	(3) x 13/64
7	1	-	3/8, 1/2	1/16, 1/8, 3/16, 1/4	1/2	1-3/4	(3) x 13/64

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "W"

Example: D9A3H 6 x 1 x 1-1/8 D320 R100 B1/16 W=5/16  
 B9A3 7 x 1 x 16mm CBN180 R75 B1/8 W=3/8



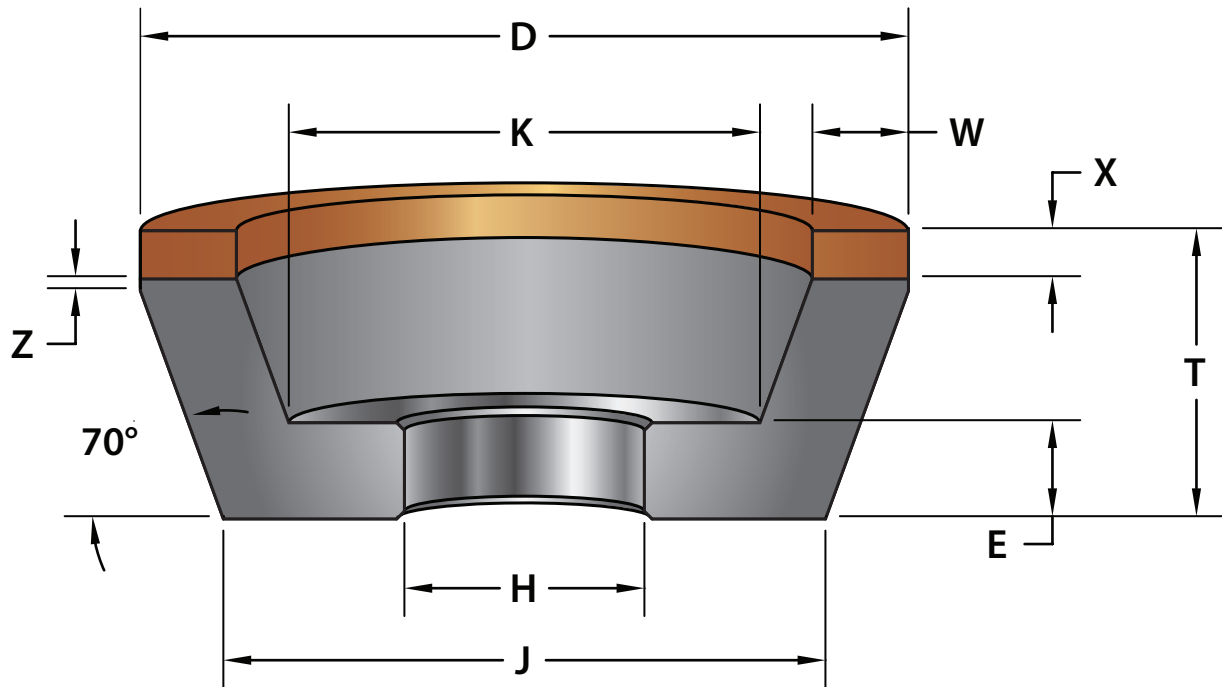
D	T	H	W	X	E	J	K	Z
3	7/8	-	1/8	1/16	3/8	2.45	2-1/8	1/16
3	7/8	-	1/8	1/8	3/8	2-1/2	2-7/32	1/16
3	7/8	-	1/4	1/16	3/8	2.45	2-3/16	1/16
3	7/8	-	1/4	1/8	3/8	2-1/2	2-7/32	1/16
3	7/8	-	3/8	1/16	3/8	2.45	1-15/16	1/16
3	7/8	-	3/8	1/8	3/8	2-1/2	1.98	1/16
3	1-5/16	-	1/8	1/16	3/8	2-1/8	2	3/64
3	1-5/16	-	1/8	1/8	3/8	2.17	2-5/32	3/64
3	1-5/16	-	1/4	1/16	3/8	2-1/8	1-7/8	3/64
3	1-5/16	-	1/4	1/8	3/8	2.17	1.90	3/64
3	1-5/16	-	3/8	1/16	3/8	2-1/8	1.60	3/64
3	1-5/16	-	3/8	1/8	3/8	2.17	1-5/8	3/64
3-1/2	1-5/16	-	1/8	1/16	3/8	2-5/8	2-3/8	3/64
3-1/2	1-5/16	-	1/8	1/8	3/8	2.67	2-7/16	3/64
3-1/2	1-5/16	-	1/4	1/16	3/8	2-5/8	2-1/4	3/64
3-1/2	1-5/16	-	1/4	1/8	3/8	2.67	2-3/8	3/64
3-1/2	1-5/16	-	3/8	1/16	3/8	2-5/8	2-3/32	3/64
3-1/2	1-5/16	-	3/8	1/8	3/8	2.67	2-5/32	3/64
3-1/2	1-5/16	-	1/2	1/16	3/8	2-5/8	1.86	3/64
3-1/2	1-5/16	-	1/2	1/8	3/8	2.67	1.90	3/64
4	1-1/4	-	1/8	1/16	1/2	3-5/32	2-3/4	1/32
4	1-1/4	-	1/8	1/8	1/2	3-7/32	2-7/8	1/32
4	1-1/4	-	1/4	1/16	1/2	3-5/32	2-3/4	1/32
4	1-1/4	-	1/4	1/8	1/2	3-7/32	2-7/8	1/32
4	1-1/4	-	3/8	1/16	1/2	3-5/32	2-3/4	1/32
4	1-1/4	-	3/8	1/8	1/2	3-7/32	2-3/4	1/32
4	1-1/4	-	1/2	1/16	1/2	3-5/32	2-1/2	1/32
4	1-1/4	-	1/2	1/8	1/2	3-7/32	2-1/2	1/32

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "W"

Example: D11A2 3-1/2 x 1-5/16 x 7/8 D 220 R 75 B 1/16 W=1/2

B11A2 4 x 1-1/4 x 1-1/4 CBN 100 R 100 B 1/4 W=1/4

# 11A2



D	T	H	W	X	E	J	K	Z
5	1-3/4	-	1/8	1/16	1/2	3-13/16	3-3/8	1/16
5	1-3/4	-	1/8	1/8	1/2	3-7/8	3-7/16	1/16
5	1-3/4	-	1/4	1/16	1/2	3-13/16	3-3/8	1/16
5	1-3/4	-	1/4	1/8	1/2	3-7/8	3-7/16	1/16
5	1-3/4	-	3/8	1/16	1/2	3-13/16	3-3/8	1/16
5	1-3/4	-	3/8	1/8	1/2	3-7/8	3-3/8	1/16
5	1-3/4	-	1/2	1/16	1/2	3-13/16	3-1/8	1/16
5	1-3/4	-	1/2	1/8	1/2	3-7/8	3-3/16	1/16
6	1-3/4	-	1/8	1/16	1/2	4-13/16	4-3/8	1/16
6	1-3/4	-	1/8	1/8	1/2	4-7/8	4-7/16	1/16
6	1-3/4	-	1/4	1/16	1/2	4-13/16	4-3/8	1/16
6	1-3/4	-	1/4	1/8	1/2	4-7/8	4-7/16	1/16
6	1-3/4	-	3/8	1/16	1/2	4-13/16	4-3/8	1/16
6	1-3/4	-	3/8	1/8	1/2	4-7/8	4-3/8	1/16
6	1-3/4	-	1/2	1/16	1/2	4-13/16	4-1/8	1/16
6	1-3/4	-	1/2	1/8	1/2	4-7/8	4-3/16	1/16

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "W"

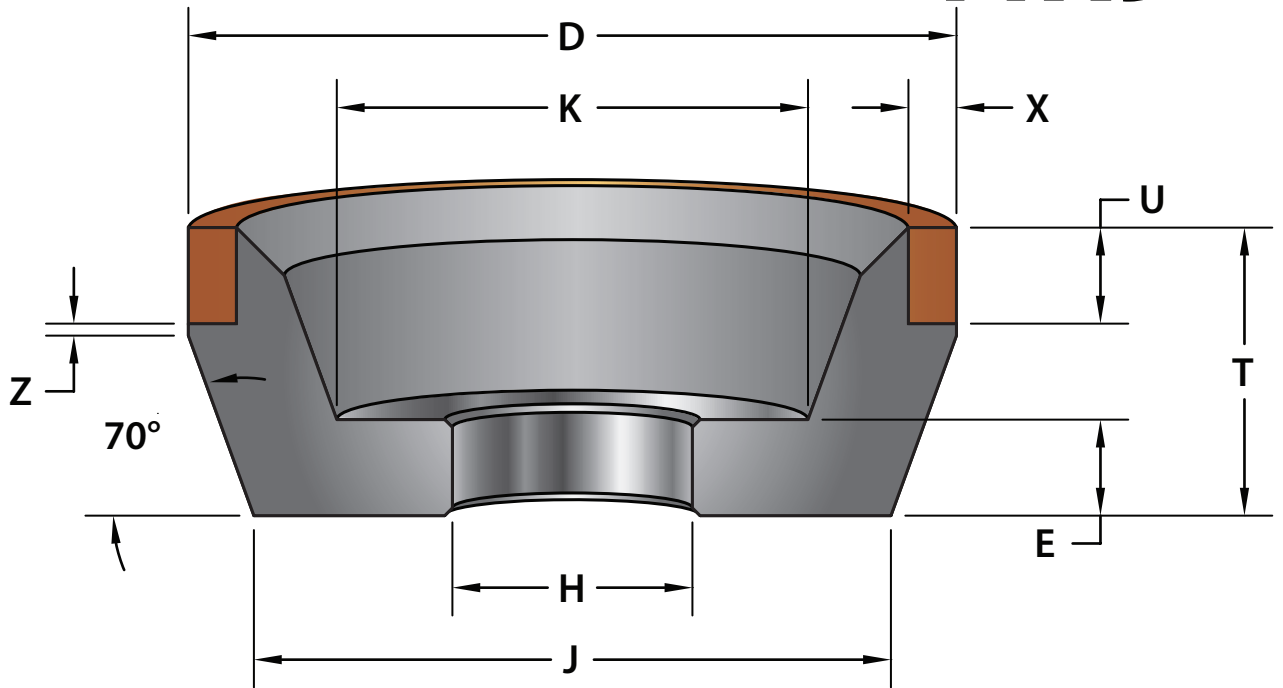
Example: D11A2 3-1/2 x 1-5/16 x 7/8 D220 R75 B1/16 W=1/2

B11A2 4 x 1-1/4 x 1-1/4 CBN100 R100 B1/4 W=1/4

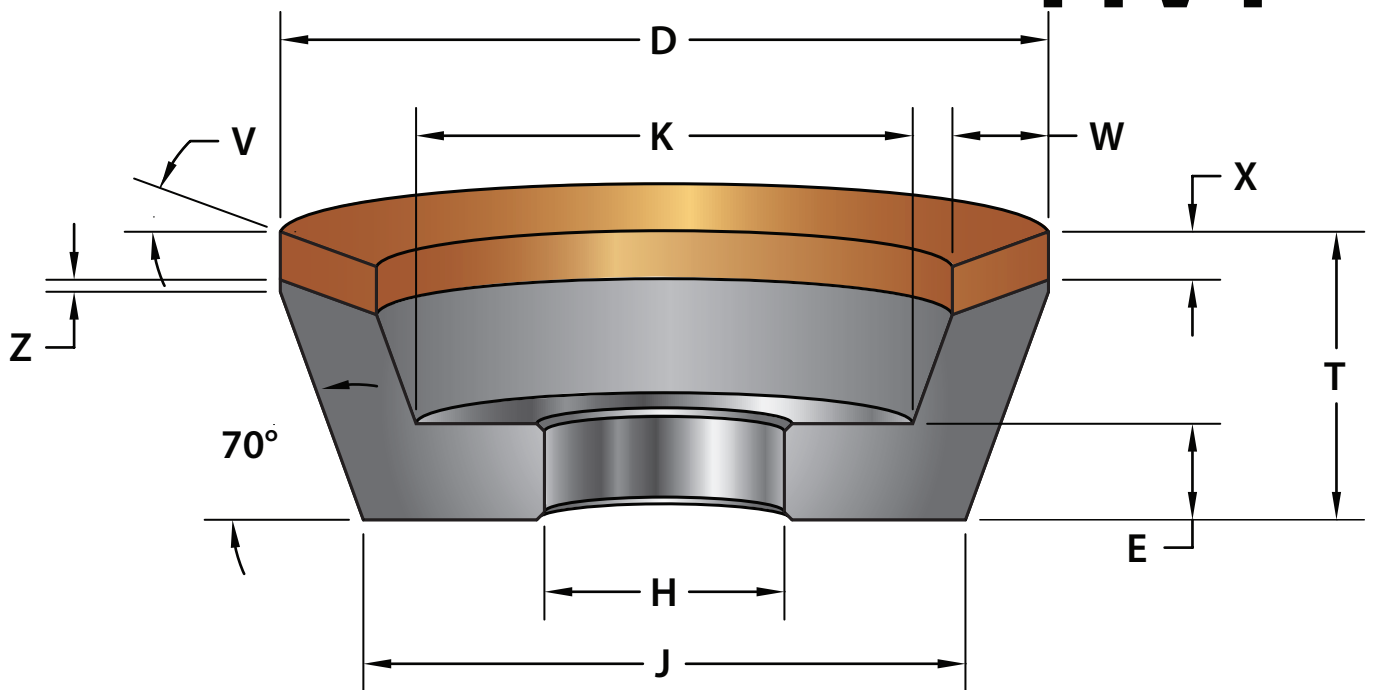




# 11A9

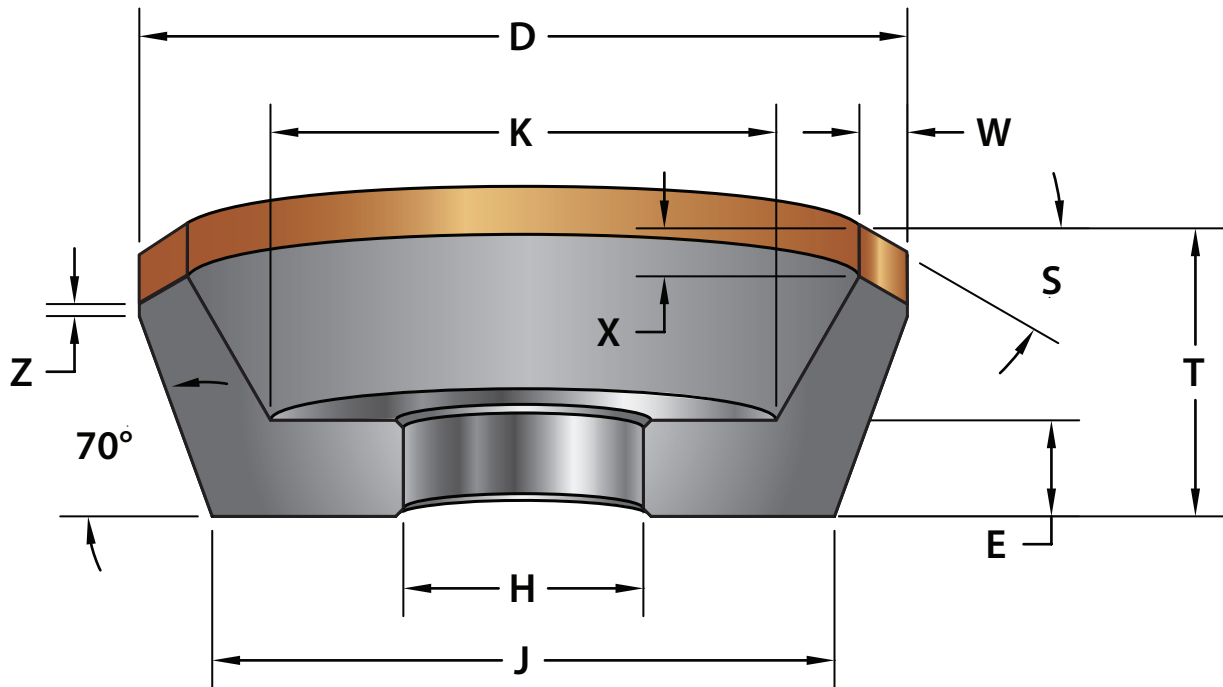


# 11V4



OTHER WHEEL SHAPES AVAILABLE ON REQUEST

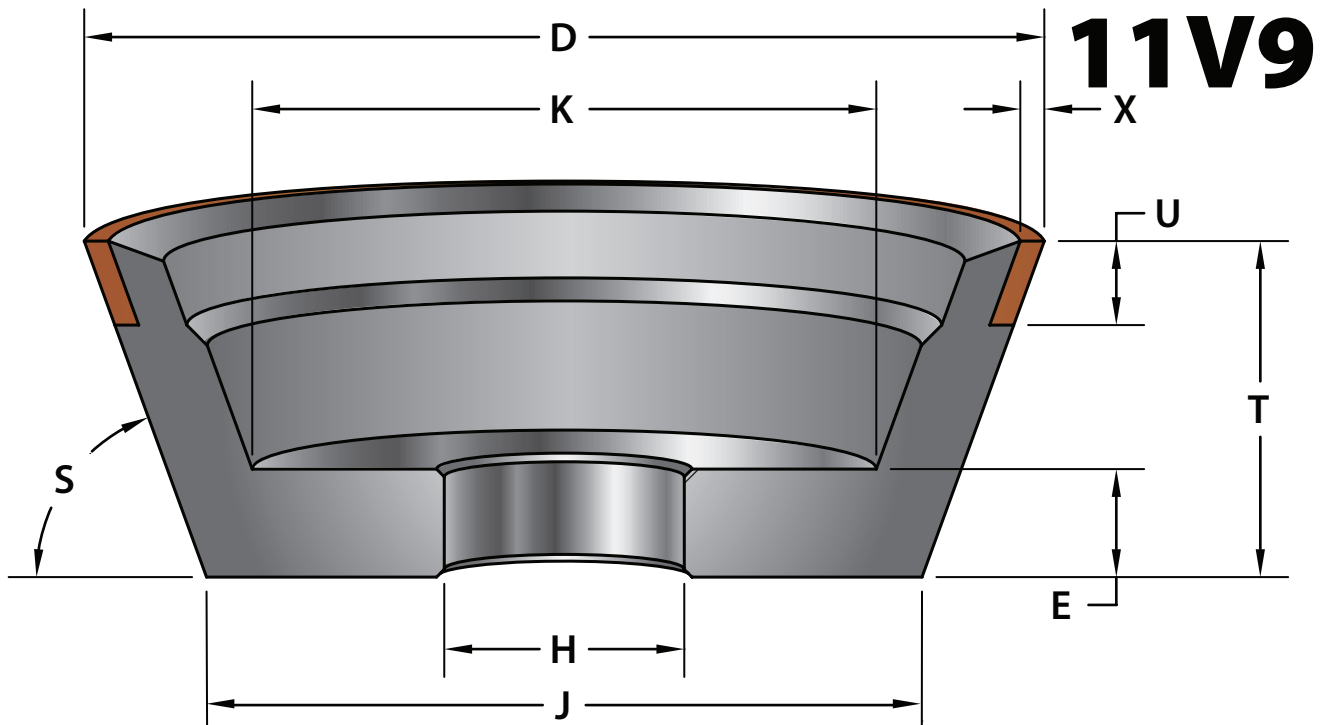
# 11V5



D	T	H	W	X	S
100mm	1-1/2	-	5/32	1/8	10°, 30°
100mm	1-1/2	-	5/32	1/4	10°, 30°
4	1-1/2	-	1/8	1/8	10°, 30°
4	1-1/2	-	1/8	1/4	10°, 30°
4	1-1/2	-	3/16	1/8	10°, 30°
4	1-1/2	-	3/16	1/4	10°, 30°
4	1-1/2	-	1/4	1/8	10°, 30°
4	1-1/2	-	1/4	1/4	10°, 30°
4	1-1/2	-	3/8	1/8	10°, 30°
4	1-1/2	-	3/8	1/4	10°, 30°
5	1-1/2	-	1/8	1/8	10°, 30°
5	1-1/2	-	1/8	1/4	10°, 30°
5	1-1/2	-	3/16	1/8	10°, 30°
5	1-1/2	-	3/16	1/4	10°, 30°
5	1-1/2	-	1/4	1/8	10°, 30°
5	1-1/2	-	1/4	1/4	10°, 30°
5	1-1/2	-	3/8	1/8	10°, 30°
5	1-1/2	-	3/8	1/4	10°, 30°

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X", "W" and "S"

Example: D11V5 100mm x 1-1/2 x 38mm D280 R125 B1/4 W=5/32 30°  
 B11V5 4 x 1-1/2 x 1-1/4 CBN240 R100 B1/4 W=3/8 10°



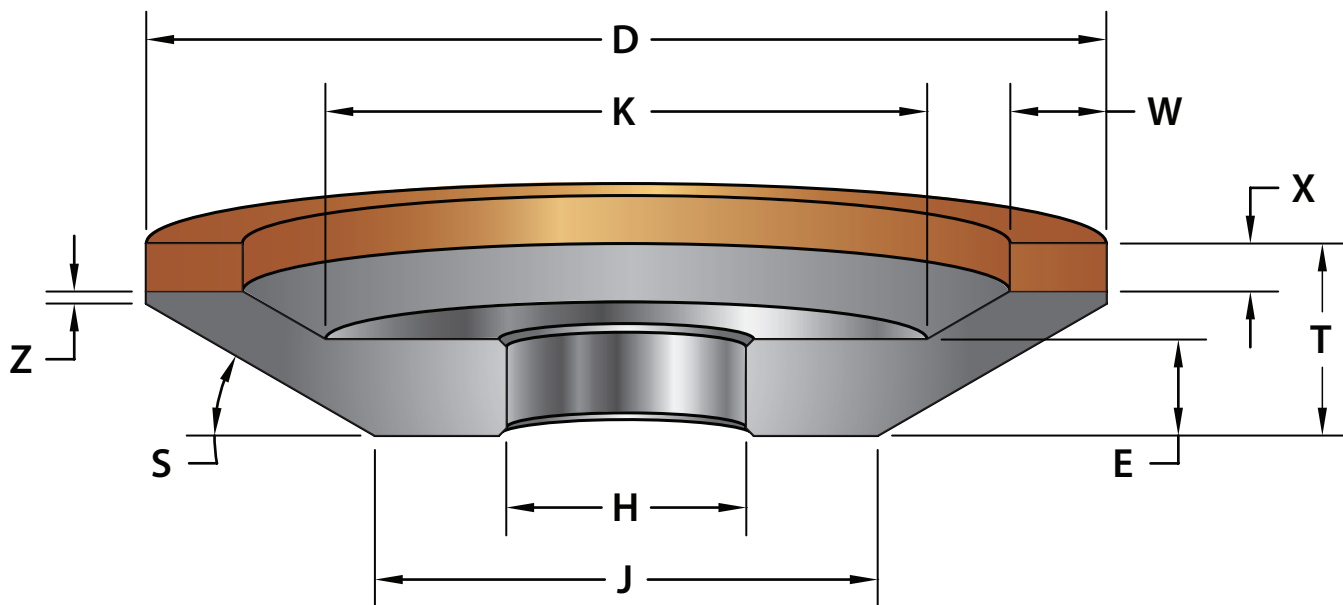
**11V9**

D	T	H	U	X	E	K
1-1/2	7/8	1/2 MAX.	1/4	1/16	3/8	3/4
1-1/2	7/8	1/2 MAX.	1/4	1/8	3/8	3/4
2	7/8	7/8 MAX.	5/16	1/16	3/8	1-1/16
2	7/8	7/8 MAX.	5/16	1/8	3/8	1-1/16
2-1/2	1-1/8	1 MAX.	5/16	1/16	1/2	1-5/16
2-1/2	1-1/8	1 MAX.	5/16	1/8	1/2	1-5/16
3	1-1/4	-	3/8	1/16	3/8	1-3/4
3	1-1/4	-	3/8	1/8	3/8	1-3/4
3	1-1/4	-	3/8	1/16	1/2	2-1/32
3	1-1/4	-	3/8	1/8	1/2	2-1/32
3-3/4	1-1/2	-	3/8	1/16	3/8	2-3/8
3-3/4	1-1/2	-	3/8	1/8	3/8	2-3/8
4	1-1/2	-	7/16	1/16	3/8	2-9/16
4	1-1/2	-	7/16	1/8	3/8	2-9/16
4 (S=60°)	1-1/2	-	7/16	1/16	3/8	2-1/32
4 (S=60°)	1-1/2	-	7/16	1/8	3/8	2-1/32
5	1-3/4	-	7/16	1/16	9/16	3-3/8
5	1-3/4	-	7/16	1/8	9/16	3-3/8
6	1-7/8	-	7/16	1/8	9/16	4
7	1-3/4	-	1/2	1/8	1/2	4-1/2

Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, and "X"

Example: D11V9 3-3/4 x 1-1/2 x 1-1/4 D150 R100 B1/16  
 B11V9 5 x 1-3/4 x 1-1/4 CBN120 R75 B1/8

# 12A2



D	T-X	H	W	X	E	J	K	Z	S
3	7/16	-	1/8, 3/16	1/16, 1/8	5/16	1-5/8	1-1/2	3/64	30°
3	7/16	-	1/4, 3/8, 1/2	1/16, 1/8	5/16	1-5/8	1-1/2	3/64	30°
3	13/16	-	1/8, 3/16	1/16, 1/8	3/8	1-7/16	1-3/8	1/32	45°
3	13/16	-	1/4, 3/8	1/16, 1/8	3/8	1-7/16	1-3/8	1/32	45°
4	7/16	-	1/8, 3/16	1/16, 1/8	5/16	2-5/16	2-5/16	3/64	25°
4	7/16	-	1/4, 3/8, 1/2	1/16, 1/8	5/16	2-5/16	2-5/16	3/64	25°
5	11/16	-	1/8, 3/16	1/16, 1/8	3/8	3-3/4	3-3/8	1/16	45°
5	11/16	-	1/4, 3/8, 1/2	1/16, 1/8	3/8	3-3/4	3-3/8	1/16	45°
6	7/8	-	1/8, 3/16	1/16, 1/8	3/8	3-1/4	3	.08	30°
6	7/8	-	1/4, 3/8, 1/2	1/16, 1/8	3/8	3-1/4	3	.08	30°
7	7/8	-	1/8, 3/16	1/16, 1/8	3/8	4-3/16	3-3/4	1/16	30°
7	7/8	-	1/4, 3/8, 1/2	1/16, 1/8	3/8	4-3/16	3-3/4	1/16	30°
8	7/8	-	1/8, 3/16	1/16, 1/8	3/8	5-3/16	4-3/4	1/16	30°
8	7/8	-	1/4, 3/8, 1/2	1/16, 1/8	3/8	5-3/16	4-3/4	1/16	30°

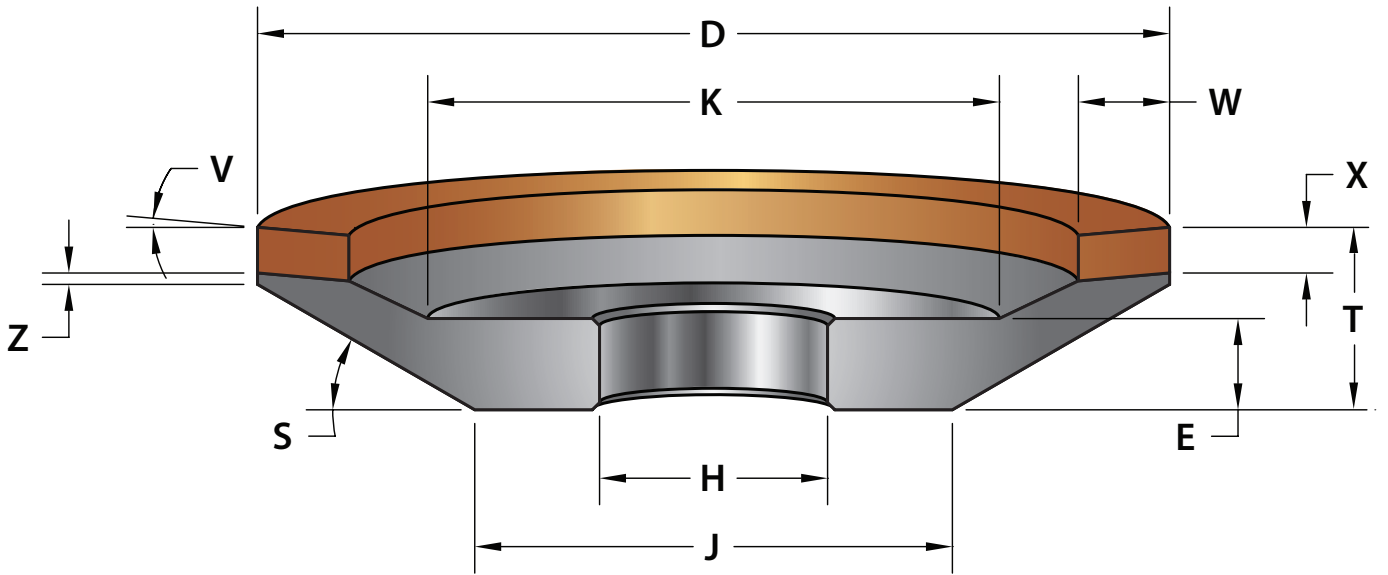
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "W"

Example: D12A2 6 x 1 x 1-1/4 D150 R100 B1/8 W=1/4

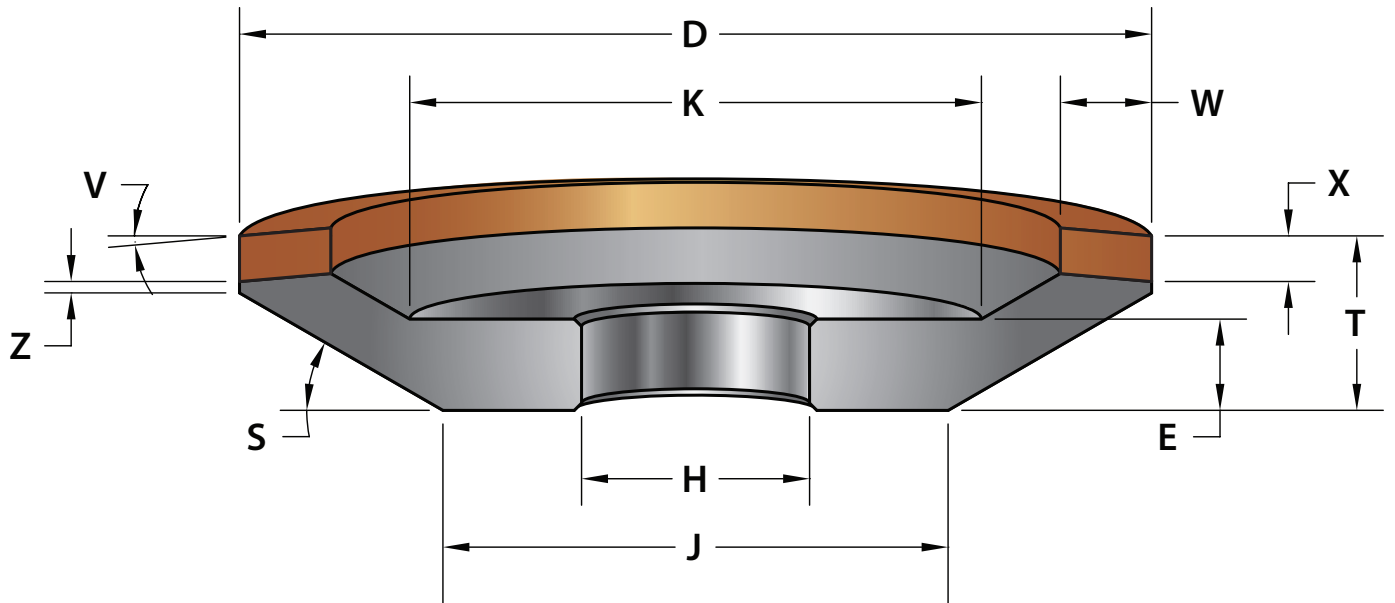
B12A2 4 x 1/2 x 1-1/4 CBN120 R100 B1/16 W=1/4



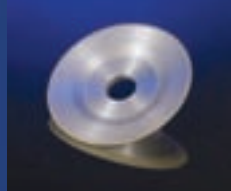
# 12V4



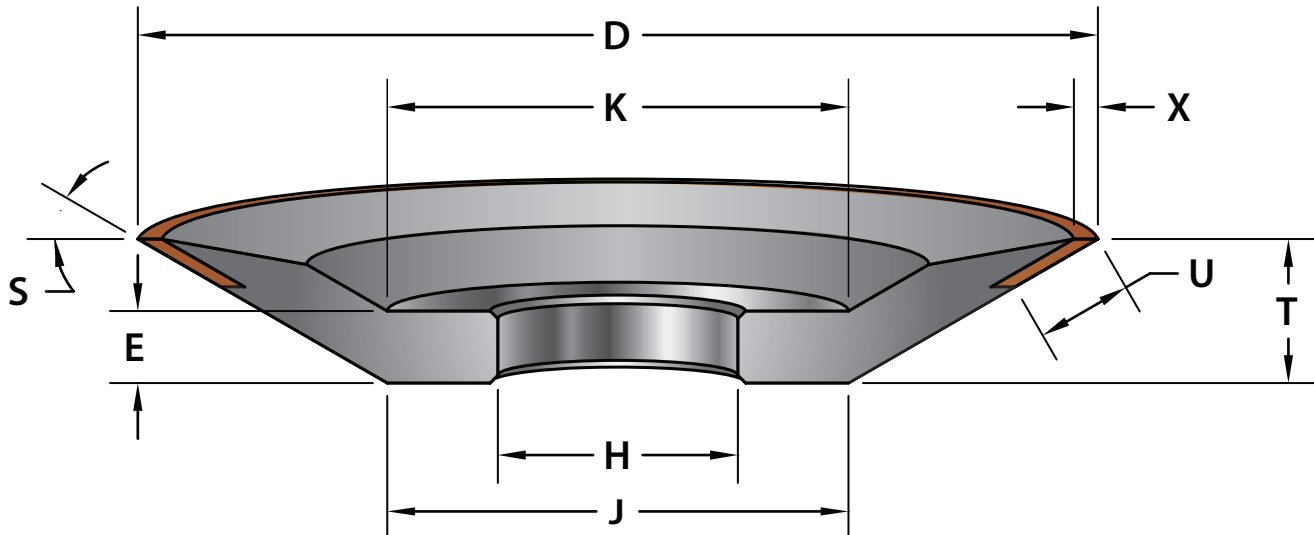
# 12V5



OTHER WHEEL SHAPES AVAILABLE ON REQUEST



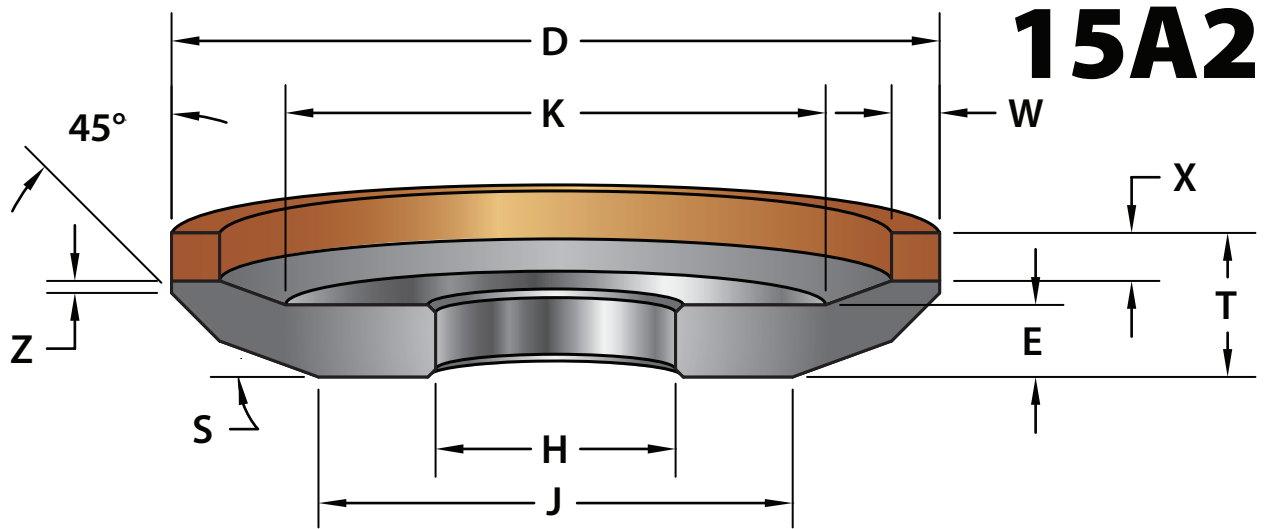
# 12V9



D	T	H	U	X	E	K	S
2	3/8	-	1/4	1/16, 1/8	1/4	3/4	30°
2	1/2	-	1/4	1/16, 1/8	1/4	1	45°
3	7/16	-	1/4	1/16, 1/8	1/4	1-1/2	30°
3	1/2	-	1/4	1/16, 1/8	1/4	1-1/4	30°
3	13/16	-	3/8	1/16, 1/8	3/8	1-1/2	45°
3	7/8	-	3/8	1/16, 1/8	3/8	1-1/4	45°
4	1/2	-	1/4	1/16, 1/8	1/4	2-7/16	30°
4	1/2	-	1/2	1/16, 1/8	1/4	2-7/16	30°
4	7/8	-	5/16	1/16, 1/8	3/8	2-3/16	45°
4	7/8	-	1/2	1/16, 1/8	3/8	2-3/16	45°
5	1/2	-	1/2	1/16, 1/8	5/16	2-1/2	30°
5	3/4	-	1/2	1/16, 1/8	1/2	2-1/2	30°
5	3/4	-	7/16	1/16, 1/8	1/2	3	45°
5	1-3/8	-	7/16	1/16, 1/8	1/2	2-1/4	45°
5-7/8	3/4	-	1/2	1/16, 1/8	1/2	3-1/2	30°
6	1/2	-	3/8	1/16, 1/8	5/16	3-1/8	30°
6	3/4	-	3/8	1/16, 1/8	3/8	3-1/8	30°
6	1	-	3/8	1/16, 1/8	1/2	2-7/8	30°
6	3/4	-	5/8	1/4	.600	3-7/8	35°
7	1/2	-	1/4	1/16, 1/8	5/16	5	30°
7	3/4	-	1/4	1/16, 1/8	3/8	3-1/4	30°
8	3/4	-	5/8	1/4	1/2	5-1/2	35°

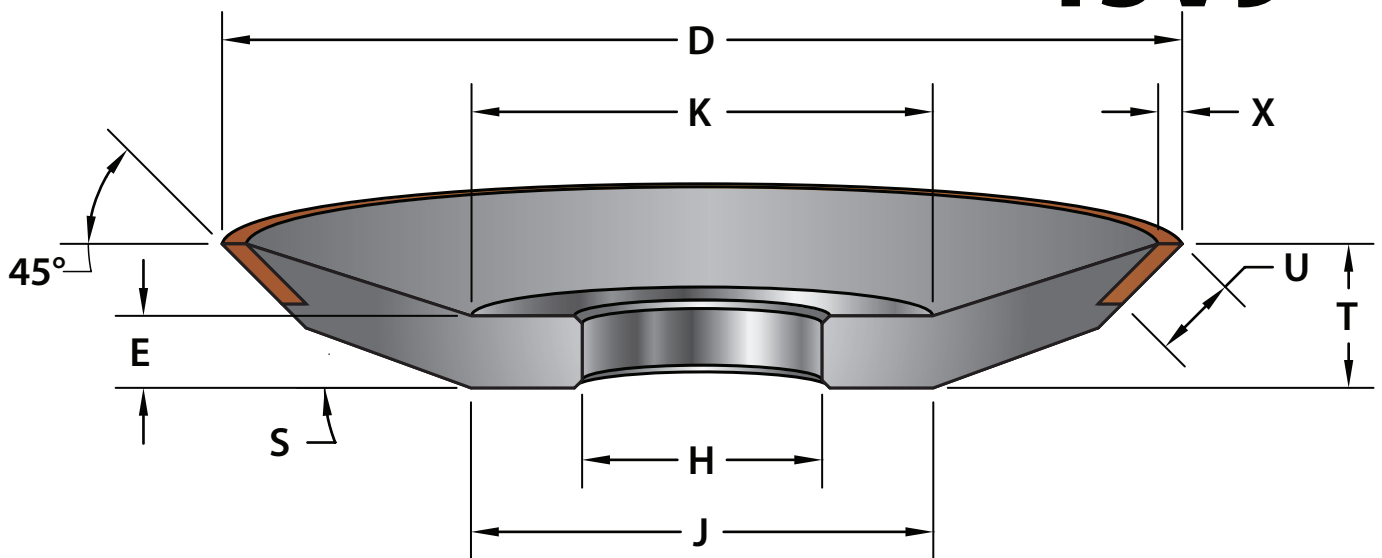
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X", "S" and "U"

Example: D12V9 4 x 1/2 x 1-1/4 D220 R100 B1/16 30° U=1/4  
 B12V9 5 x 3/4 x 1-1/4 CBN150 R75 B1/8 45° U=1/2



# 15A2

D	T	H	W	X	E	J	K	Z
6	3/4	-	1/8	1/16, 1/8	7/16	3-1/8	3-1/8	1/16
6	3/4	-	3/16	1/16, 1/8	7/16	3-1/8	3-1/8	1/16
6	3/4	-	1/4	1/16, 1/8	7/16	3-1/8	3-1/8	1/16
6	3/4	-	3/8	1/16, 1/8	7/16	3-1/8	3-1/8	1/16

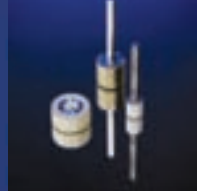


# 15V9

D	T	H	U	X	E	J	K
3	1/2	-	3/8	1/16, 1/8	1/4	1-3/4	1-1/2
6	3/4	-	1/4	1/16, 1/8	3/8	3	3-1/8
7	3/4	-	5/16	1/16, 1/8	7/16	3-3/4	4

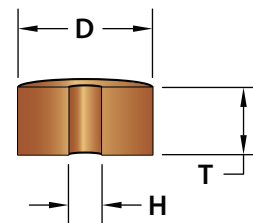
Order by: Shape, "D" x "T" x "H" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "W" (or "U")

Example: D15A2 6 x 3/4 x 1-1/4 D180 R100 B1/8 W=3/8  
 B15V9 6 x 3/4 x 1-1/4 CBN100 R50 B1/8 U=1/4



# 1A8

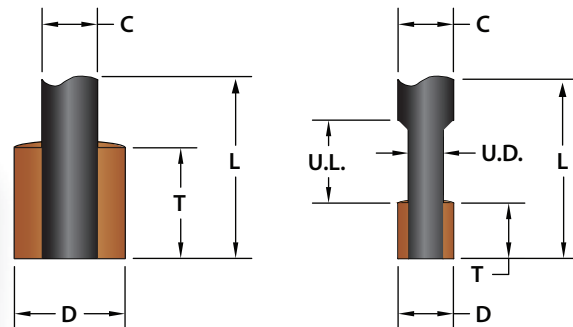
## TYPE 1 A 8 Straight – Diamond Throughout



Wheel Number	Wheel Diameter D	Wheel Thickness T	Hole Diameter H	DIAMOND CONCENTRATIONS		Wheel Number	Wheel Diameter D	Wheel Thickness T	Hole Diameter H	DIAMOND CONCENTRATIONS	
				75	100					75	100
11001	1/4	1/4	1/8			11010	5/8	3/8	1/4		
11002	5/16	1/4	1/8			11011	5/8	1/2	1/4		
11004	3/8	1/4	1/8			11012	3/4	1/4	1/4		
11005	3/8	3/8	1/8		PRICES	11013	3/4	1/2	1/4		PRICES
11018	7/16	7/16	1/8		UPON	11014	3/4	3/4	1/4		UPON
11006	1/2	1/4	1/8		REQUEST	11015	1	1/4	1/4		REQUEST
11007	1/2	3/8	1/4			11016	1	1/2	1/4		
11008	1/2	1/2	1/4			11017	1	3/4	1/4		
11009	5/8	1/4	1/4								

# W8

## TYPE DW Straight – Mounted on Mandrel Diamond Throughout



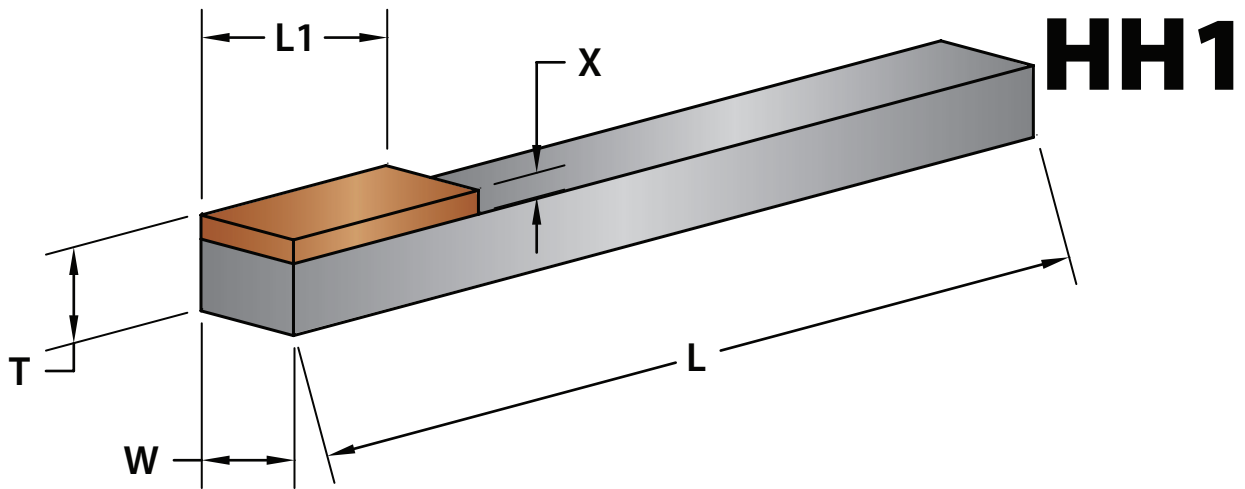
Wheel Number	Wheel Diameter D	Wheel Thickness T	Mandrel Diameter	DIAMOND CONCENTRATIONS		Wheel Number	Wheel Diameter D	Wheel Thickness T	Mandrel Diameter	DIAMOND CONCENTRATIONS	
				75	100					75	100
DW 143	1/8	1/4	1/8			DW 182	1/2	1/8	1/8		
DW 144	1/8	1/4	1/8			DW 183	1/2	1/4	1/8		
DW 247	3/16	1/4	1/8			DW 184	1/2	3/8	1/8		
DW 152	3/16	3/8	1/8			DW 185	1/2	1/2	1/8		
DW 158	1/4	7/16	1/8			DW 248	1/2	1/2	1/4		
DW 160	1/2	1/4	1/8		PRICES	DW 192	5/8	1/4	1/8		PRICES
DW 162	1/2	3/8	1/4		UPON	DW 193	5/6	3/8	1/8		UPON
DW 163	1/2	1/2	1/4		REQUEST	DW 194	5/8	1/2	1/8		REQUEST
DW 167	5/8	1/4	1/4			DW 249	5/8	1/2	1/4		
DW 168	5/16	5/16	1/8			DW 203	3/4	1/2	1/8		
DW 174	3/8	1/4	1/8			DW 250	3/4	1/2	1/4		
DW 175	3/8	3/8	3/8			DW 216	1	1/4	1/4		
DW 176	3/8	1/2	1/8			DW 218	1	1/2	1/4		

Mandrel Lengths: Mandrels having a projection of 1-1/2" from the abrasive will be furnished unless otherwise specified.

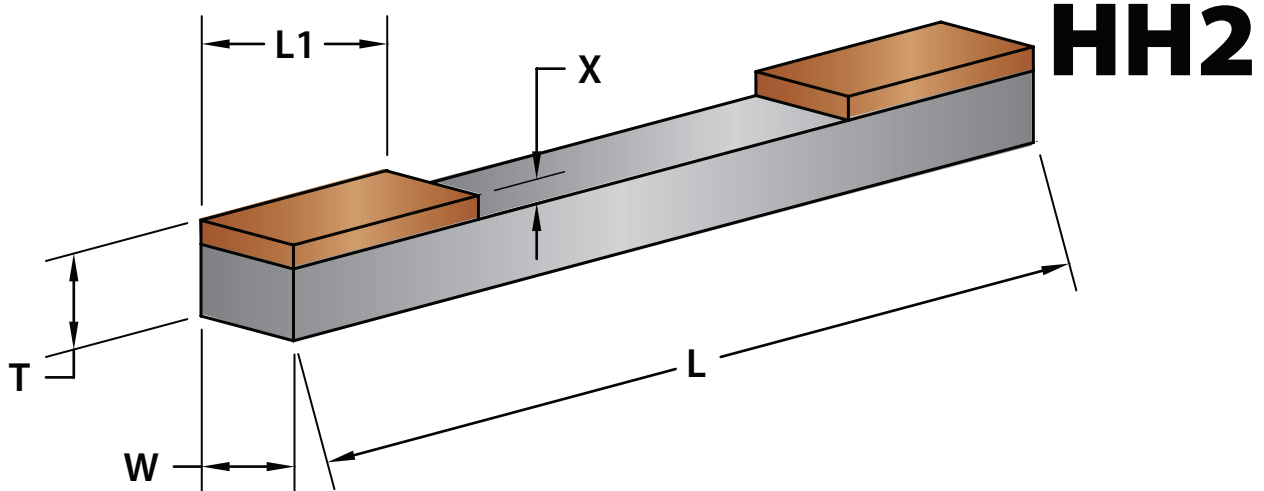
TO ORDER WHEELS . . . Specify the wheel type and number, hole diameter, grit size.

### OTHER WHEEL SHAPES AVAILABLE ON REQUEST





**HH1**



**HH2**

**HH1**

**HH2**

L	W	T	L1	X
4	1/4	1/4	1	1/16, 1/8
4	1/4	3/8	1	1/16, 1/8
4	3/8	3/8	1	1/16, 1/8
4	3/8	3/8	1-1/2	1/16, 1/8
6	1/4	1/4	1	1/16, 1/8
6	1/4	3/8	1	1/16, 1/8
6	3/8	3/8	1	1/16, 1/8
6	3/8	3/8	1-1/2	1/16, 1/8

L	W	T	L1	X
4	1/4	1/4	1	1/16, 1/8
4	1/4	3/8	1	1/16, 1/8
4	3/8	3/8	1	1/16, 1/8
4	3/8	3/8	1-1/2	1/16, 1/8
6	1/4	1/4	1	1/16, 1/8
6	1/4	3/8	1	1/16, 1/8
6	3/8	3/8	1	1/16, 1/8
6	3/8	3/8	1-1/2	1/16, 1/8

Order by: Shape, "L" x "W" x "T" Abrasive Type, Grit, Grade, Concentration, Bond, "X" and "L1"

Example: DHH1 4 x 1/4 x 3/8 D 20 R100 B1/16 1

BHH2 6 x 3/8 x 3/8 CBN120/220 N50 B1/8 1-1/2

## DIAMOND LAPPING COMPOUND

Diamond lapping compound is a paste consisting of finely graded and sized diamond particles that are held in permanent suspension in a stable vehicle. Diamond lapping compound is graded according to particle size and diamond concentration (the amount of diamond in the vehicle). For easy identification, our compound is color coded according to particle size.

The standard container is either a 5 gram or an 18 gram syringe, but we do offer 5 gram and 18 gram jars as well. We will make larger batch sizes on request.

Our standard vehicle is oil based, but we do offer a water based vehicle on request. Our standard concentration is medium (M). Light (L) and Heavy (H) concentrations are also available.

**15 - 5 M Blue**

MICRON RANGE	MICRON SIZE	USDW GRADE#	CONCENTRATION	COLOR	STANDARD	APPLICATION
0 - 1/2	1/4	10	L, M, H	WHITE	1/4 - 10M WHITE	PRECISION FINISHING
0 - 1	1/2	9	L, M, H	WHITE	1/2 - 9M WHITE	
0 - 2	1	8	L, M, H	IVORY	1 - 8M IVORY	
2 - 4	2	7	L, M, H	YELLOW	3 - 7M YELLOW	FINISHING
4 - 8	6	48	L, M, H	ORANGE	6 - 48M ORANGE	
8 - 12	9	6	L, M, H	GREEN	9 - 6M GREEN	
10 - 20	15	5	L, M, H	BLUE	15 - 5M BLUE	PREPARATORY FINISHING
20 - 40	30	4	L, M, H	RED	30 - 4M RED	
40 - 50	45	3	L, M, H	BROWN	45 - 3M BROWN	
50 - 63	60	2	L, M, H	PURPLE	60 - 2M PURPLE	STOCK REMOVAL
63 - 90	90	1	L, M, H	GREY	90 - 1M GREY	
100	120	-	-	BLACK	120 - M BLACK	

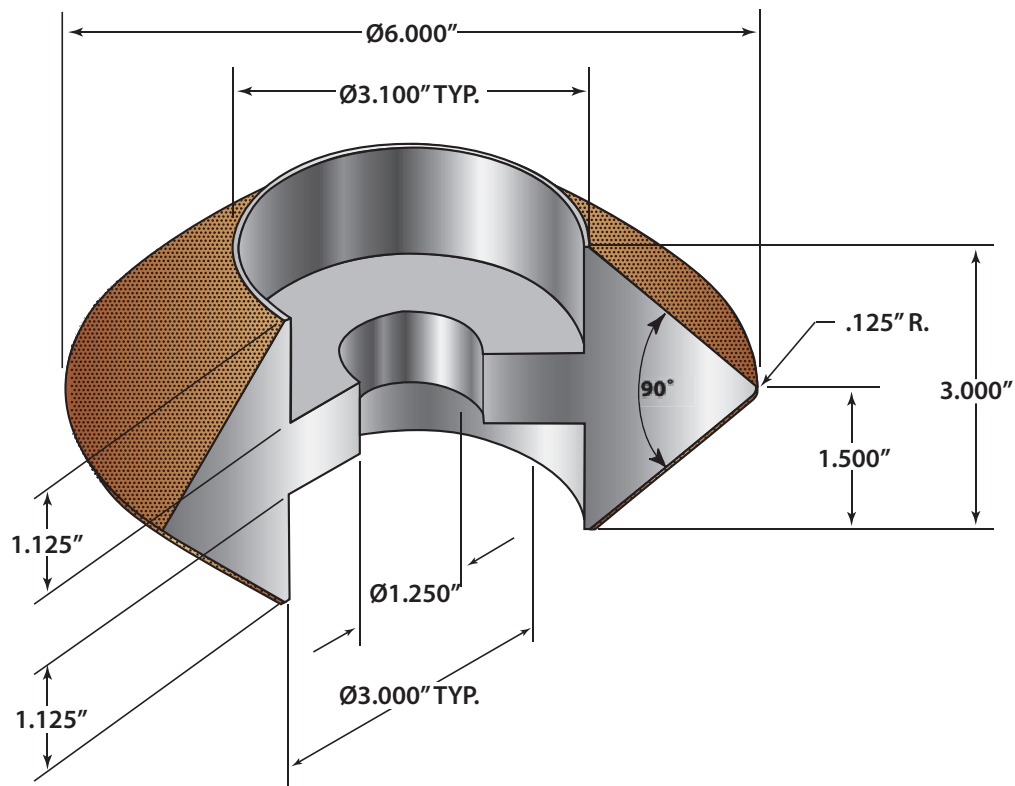
Order by: Container Type and Size, Grade and Color

Example: 18 gram syringe 45 - 3M Brown  
25 gram jar 30 - 4L Red

## PLATED SUPERABRASIVE PRODUCTS DIAMOND AND CRN WHEELS

- Hole Saws
- Routers
- Countersinks
- Mandrels
- Unmounted Saws
- Files
- Rotary Tools
- Drills
- Form Tools
- Profiles
- Dressings Rolls

\*UNIQUE FORMS HELD TO PRECISE TOLERANCES\*

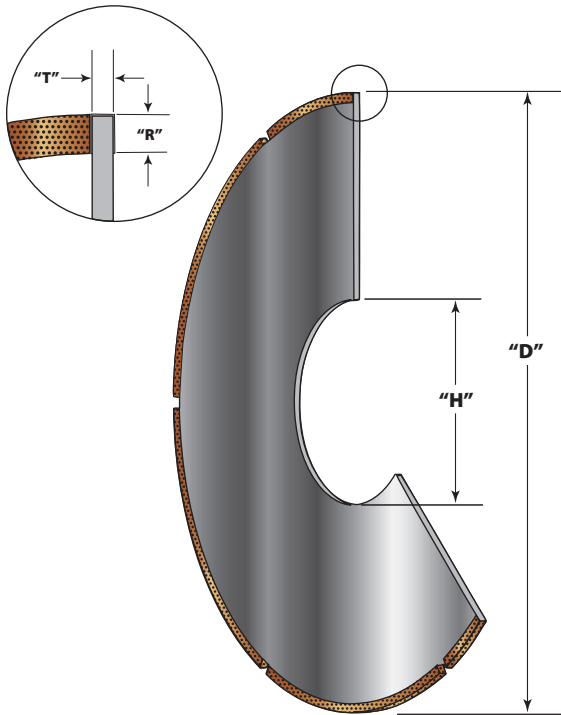


In addition to our special and standard electroplated tool design and manufacturing, we offer our customers strip and replate service. Your worn diamond or CBN electroplated tool can be brought back to new condition by stripping the old abrasive and reapplying new abrasive to the tool. When the tool form or surface that is plated is damaged, it can be repaired by remachining and then replating. This is called strip, rework and replate.

In many cases, electroplated tools can be stripped and replated several times before the form needs to be remachined.

This is one of the advantages you will benefit from the use of electroplated wheels.

**O.D. DIAMOND SLICING BLADE**

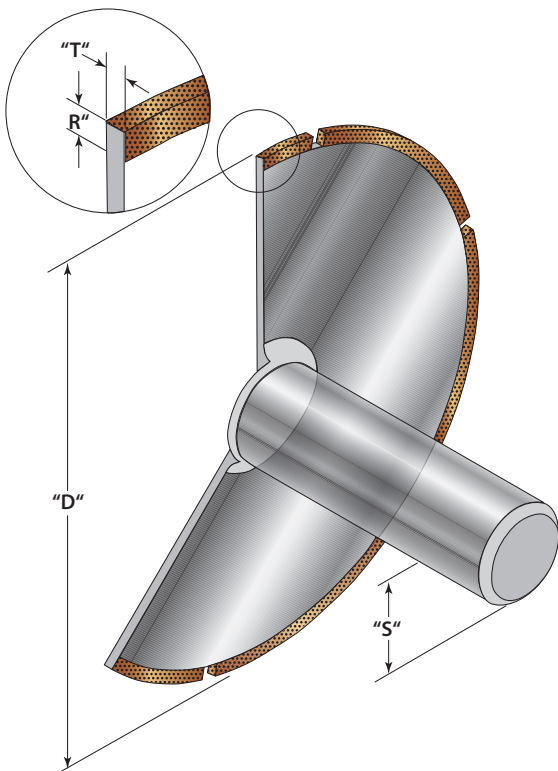


CATALOG NUMBER	DIAMETER "D"	THICK "T"	BORE SIZE
SB-1	2"	.015"	As Specified
SB-2	2"	.020"	
SB-3	3"	.015"	
SB-4	3"	.020"	
SB-5	4"	.015"	
SB-6	4"	.020"	
SB-7	6"	.020"	
SB-8	6"	.030"	

\*Other thicknesses available upon request.

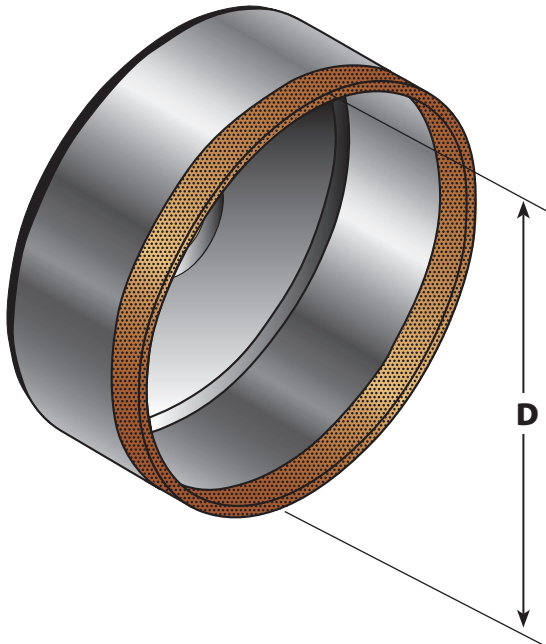
**UNMOUNTED DIAMOND SAWS**

CATALOG NUMBER	DIAMETER "D"	THICK "T"	DIAMOND RETURN "R"	BORE SIZE	STANDARD GRIT SIZE
DS-1	3"	1/16	1/16		40
DS-2	3"	1/8	1/16		40
DS-3	4"	1/16	1/16		40
DS-4	4"	1/8	1/16		40
DS-5	6"	3/32	1/16		40
DS-6	6"	1/8	1/16		40
DS-7	8"	3/32	1/16		40
DS-8	8"	1/8	1/16	As	40
DS-9	10"	3/32	1/16	Specified	40
DS-10	10"	1/8	1/16		40
DS-11	12"	1/8	1/16		40
DS-12	12"	5/32	1/16		40
DS-13	14"	5/32	1/16		40
DS-14	14"	3/16	1/16		40
DS-15	16"	3/16	1/16		40
DS-16	18"	3/16	1/16		40



**MOUNTED DIAMOND SAWS 2 1/2 OAL**

CATALOG NUMBER	DIAMETER "D"	THICK "T"	DIAMOND RETURN "R"	BORE SIZE	STANDARD GRIT SIZE
MDS-1	1"	1/16	1/16	1/4	40
MDS-2	2"	1/16	1/16	3/8	40
MDS-3	3"	3/32	1/16	1/2	40
MDS-4	4"	3/32	1/16	3/4	40



### DIAMOND HOLE SAWS 1 1/8" CUTTING DEPTH

CATALOG NUMBER	DIAMETER "D"	STANDARD GRIT SIZE
HS09	9/16	40°
HS10	5/8	40°
HS11	11/16	40°
HS12	3/4	40°
HS13	13/16	40°
HS14	7/8	40°
HS15	15/16	40°
HS16	1	40°
HS19	1 13/16	40°

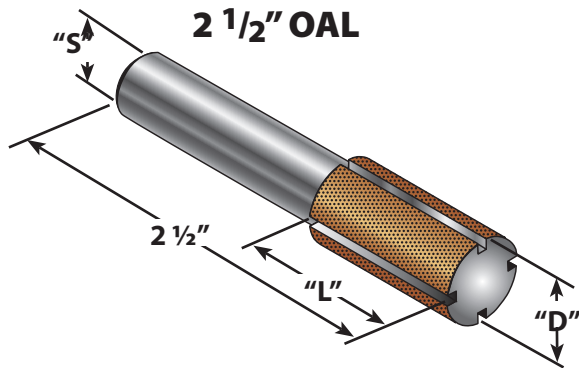
CATALOG NUMBER	DIAMETER "D"	STANDARD GRIT SIZE
HS32	2	40°
HS42	2 5/8	40°
HS48	3	40°
HS52	3 1/4	40°
HS58	3 5/8	40°
HS60	3 3/4	40°
HS64	4	40°
HS66	4 1/8	40°
HS96	6	40°

\*Other grit sizes available upon request.

### DIAMOND PLATED TWIST DRILLS Available in sizes from .030 to 1.000 inch.



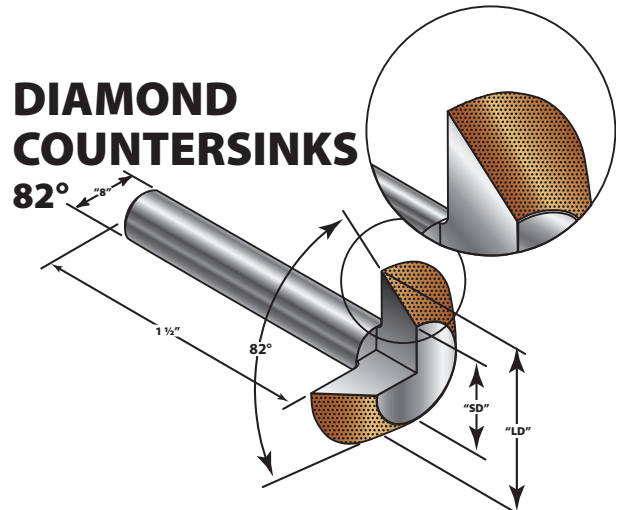
### DIAMOND ROUTERS 2 1/2" OAL



### DIAMOND ROUTERS - 2 1/2" OAL

CATALOG NUMBER	"D"	"L"	SHANK SIZE "S"	STANDARD GRIT SIZE
DR-1	1/8	1/64	1/4	40
DR-2	1/8	1/64	1/4	40
DR-3	1/4	1/64	1/4	40
DR-4	1/4	1/64	1/4	40
DR-5	3/8	3/16	1/2	40
DR-6	3/8	1/4	1/2	40
DR-7	1/2	1/2	1/2	40
DR-8	1/2	1/2	1/2	40
DR-9	5/8	1/2	1/2	40
DR-10	5/8	1	1/2	40
DR-11	3/4	1/2	1/2	40
DR-12	3/4	1	1/2	40
DR-13	1	1/2	1/2	40
DR-14	1	1	1/2	40

### DIAMOND COUNTERSINKS 82°

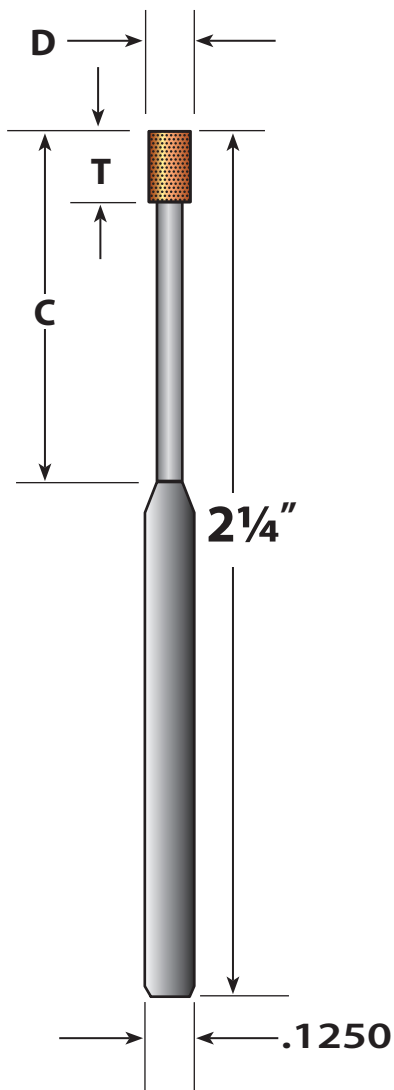


### DIAMOND COUNTERSINKS 82°

CATALOG NUMBER	"LD"	"SD"	SHANK SIZE "S"	STANDARD GRIT SIZE
CS-1	1/8	1/64	1/8	100°
CS-2	3/16	1/64	1/4	100°
CS-3	1/4	1/64	1/4	100°
CS-4	3/8	1/64	1/4	100°
CS-5	1/2	3/16	1/4	100°
CS-6	3/4	1/4	1/4	100°
CS-7	7/8	1/2	1/4	100°
CS-8	1	1/2	1/4	100°

## DIAMOND AND CBN ELECTROPLATED MANDRELS

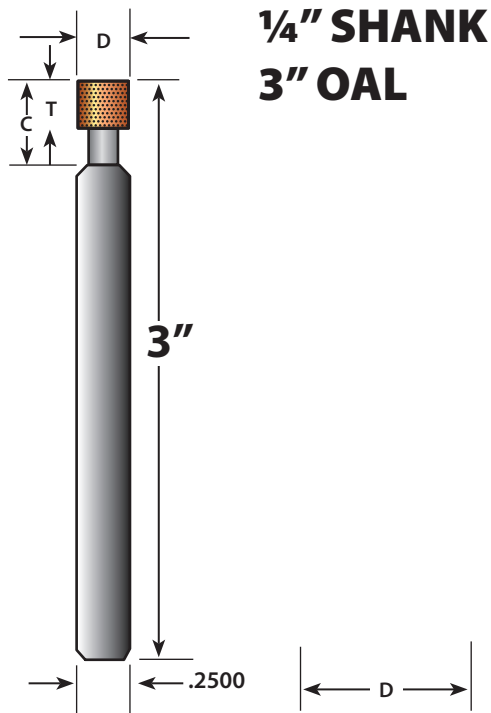
-used in jig and internal grinding machines. We offer a variety of standard sizes with 1/8", 1/4", 3/8" and 1/2" shanks for quick delivery. Our sales representatives can work with you on our standard head diameters and lengths. We can also custom make many different sizes to accommodate your needs.



CATALOG NUMBER	DIAMETER		T	C	STANDARD GRIT SIZE
	D-INCH	D-mm.			
D224-015	.015	.38	.046	.093	220°
D224-018	.018	.45	.062	.125	220°
D224-010	.20	.50	.062	.125	150°
D224-024	.024	.60	.093	.125	150°
D224-029	.029	.70	.125	.260	150°
D224-035	.035	.90	.125	.250	150°
D224-039	.039	1.00	.125	.250	100°
D224-049	.049	1.25	.187	.500	100°
D224-049-L	.049	1.25	.187	1.000	100°
D224-059	.059	1.50	.187	.500	100°
D224-059-L	.059	1.50	.187	1.000	100°
D224-069	.059	1.75	.187	.500	100°
D224-069-L	.069	1.75	.187	1.000	100°
D224-079	.079	2.00	.187	.500	100°
D224-079-L	.079	2.00	.187	1.000	100°
D224-089	.089	2.25	.187	.500	100°
D224-089-L	.089	2.25	.187	1.000	100°
D224-099	.089	2.50	.187	.500	100°
D224-099-L	.099	2.50	.187	1.000	100°
D224-109	.109	2.75	.187	.500	100°
D224-109-L	.109	2.75	.187	1.000	100°
D224-118	.118	3.00	.187	.525	100°
D224-118-L	.118	3.00	.187	1.000	100°
D224-125	.125	3.27	.187	.625	100°
D224-130	.130	3.30	.187		100°
D224-135	.135	3.56	.236		100°
D224-140	.140	3.75	.236		100°
D224-156	.158	4.00	.236		100°
D224-177	.177	4.50	.236		100°
D224-187	.187	4.75	.236		100°
D224-197	.197	5.00	.236		100°
D224-236	.236	5.75	.275		100°
D224-256	.256	6.50	.275		100°
D224-275	.275	7.00	.275		100°

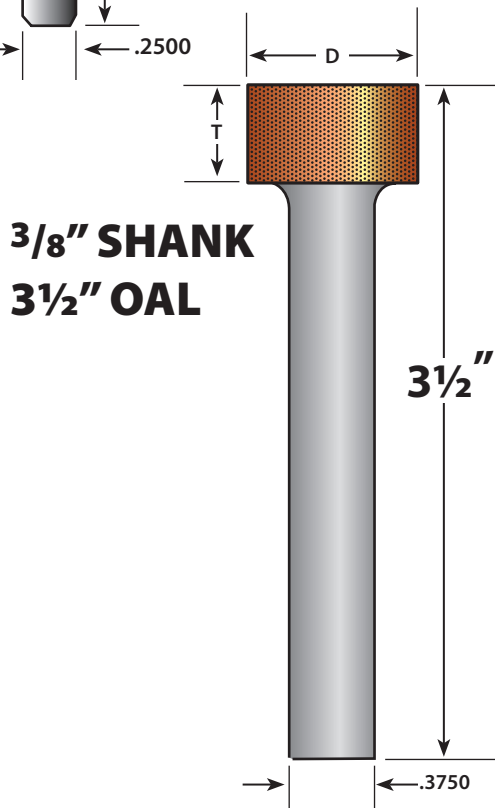
\*Other grit sizes available upon request.

**NOTE** When ordering CBN Mandrels, substitute "B" in place of "D".  
Example: B224-015



CATALOG NUMBER	DIAMETER		T	C	STANDARD GRIT SIZE
	D-INCH	D-mm.			
D43-187	.187	4.75	.236	.625	100°
D43-203	.203	5.20	.236	.625	100°
D43-218	.218	5.50	.236	.625	100°
D43-236	.236	6.00	.275	1.000	100°
D43-250	.250	6.25	.275		100°
D43-256	.256	6.50	.275		100°
D43-275	.275	7.00	.275		100°
D43-315	.315	8.00	.315		100°
D43-335	.335	8.50	.315		100°
D43-375	.376	9.52	.315		100°
D43-394	.394	10.00	.315		100°
D43-433	.433	11.00	.394		100°
D43-473	.473	12.10	.394		100°
D43-500	.500	14.20	.394		100°
D43-591	.591	15.10	.394		100°
D43-730	.730	18.54	.394		100°
D43-864	.864	22.00	.394		100°
D43-1000	1.000	25.40	.394		100°

\*Other grit sizes available upon request.



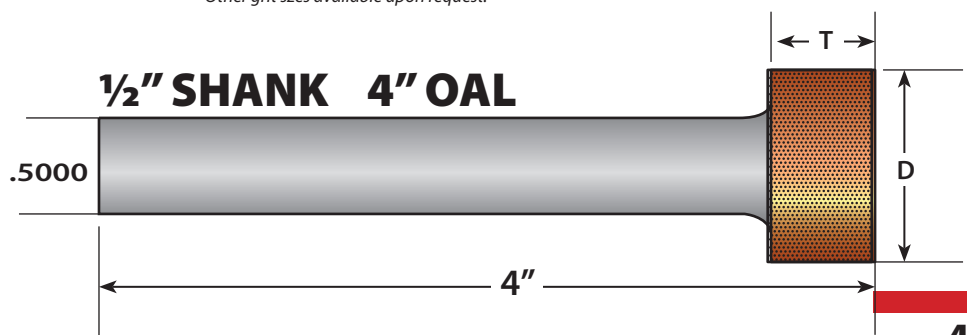
CATALOG NUMBER	DIAMETER		T	STANDARD GRIT SIZE
	D-INCH	D-mm.		
D638-394	.394	10.00	.394	100°
D638-433	.433	11.00	.394	100°
D638-473	.473	12.10	.394	100°
D638-500	.500	14.20	.500	100°
D638-591	.591	15.01	.500	100°
D638-625	.625	16.88	.500	100°
D638-730	.730	18.54	.500	100°
D638-750	.750	19.05	.500	100°
D638-864	.864	22.00	.500	100°
D638-1000	1.000	25.40	.500	100°
D638-1250	1.250	31.75	.500	100°
D638-1500	1.500	38.10	.500	100°

\*Other grit sizes available upon request.

CATALOG NUMBER	DIAMETER		T	STANDARD GRIT SIZE
	D-INCH	D-mm.		
D84-750	.750	19.05	.375	100°
D84-1000	1.000	25.40	.375	100°
D84-1250	1.250	31.75	.500	100°
D84-1500	1.500	38.10	.500	100°
D84-2000	2.000	50.80	.500	100°

\*Other grit sizes available upon request.

**NOTE**  
When ordering CBN Mandrels, substitute "B" in place of "D".  
Example: B224-015





## DIAMOND FILES AND HONES

**DIAMOND AND CBN ELECTROPLATED TOOLS AND FILES** -used for deburring, honing, and shaping your material to finished requirements. Mounted rounds, cones, and countersinks are used for deburring and shaping your material. They can be custom made to your specifications.

**DIAMOND HOLE SAWS, DRILLS, AND ROUTERS** -used for aggressive hole cutting on non-ferrous materials. Hole saws can be supplied with standard threaded hole and pilot or as a one piece unit with designated shank size. Drills and routers can be supplied in size requested.

**DIAMOND NEEDLE, RIFFLERS AND HAND FILES**  
Round handle needle files and double end rifflers are used for removing burrs remaining from previous grinding or finishing operations. They can clean out square corners, round out slots, enlarge small holes, shape and finish grooves, notches and keyways.

Diamond hand files are used for honing carbide or ceramic tool bits. They can also be used to file, notch or smooth sharp edges on glass, quartz, ferrite or ceramic composite materials.

### DIAMOND MACHINE FILES

These files can be used with hand-held reciprocating filing machines. The files are used to re-work hardened steel dies, carbide dies, ceramic parts, glass, minerals and abrasive composites.

### CONICAL DIAMOND HONES

Conical diamond hones are suitable for blending radii and angles in carbide, ceramic or harden steel dies.

### ROTARY DIAMOND CONTOUR FILES

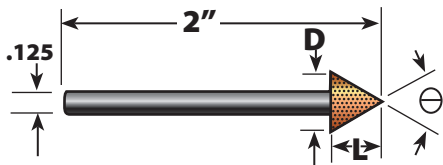
Rotary Files are used to deburr exotic superalloys, grind and shape ceramics, carbide, ferrites and glass.





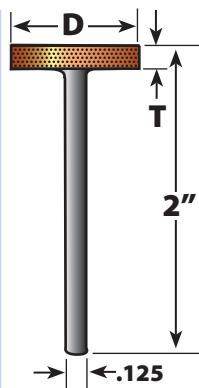
**ROTARY CONTOUR TOOLS**  
1/8" SHANK 2" OAL

ROUNDS		
CATALOG NUMBER	D	STANDARD GRIT SIZE
MR-1	3/64	150°
MR-2	1/16	150°
MR-3	5/64	150°
MR-4	3/32	150°
MR-5	1/8	150°
MR-6	3/16	150°
MR-7	1/4	150°
MR-8	3/8	150°

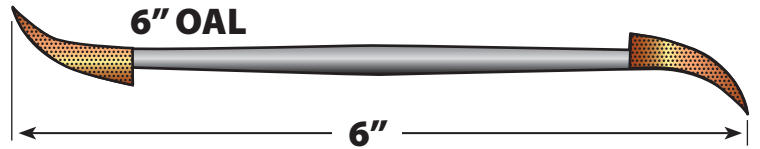


CONES				
CATALOG NUMBER	ANGLE 8	D	L	STANDARD GRIT SIZE
MC-14	14°	1/8	1/2	150°
MC-26	26°	3/16	13/32	150°
MC-35	35°	5/32	1/4	150°
MC-60	60°	11/64	5/32	150°

WHEELS			
CATALOG NUMBER	D	T	STANDARD GRIT SIZE
MW-1	1/4	1/32	150°
MW-2	1/4	1/16	150°
MW-3	1/4	1/8	150°
MW-4	3/8	1/32	150°
MW-5	3/8	1/16	150°
MW-6	3/8	1/8	150°

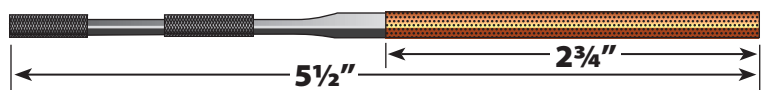


**DIAMOND RIFFLER FILES**



DIAMOND RIFFLER FILES			
DIAMOND COVERAGE	SHAPE	CATALOG NUMBER	STANDARD GRIT SIZE
	KNIFE	DRF-1	150°
	TRI	DRF-2	150°
	FLAT	DRF-3	150°
	SQUARE	DRF-4	150°
	HALF ROUND	DRF-5	150°
	ROUND	DRF-6	150°
	OVAL	DRF-7	150°

**DIAMOND NEEDLE FILES**  
5 1/2" OAL



DIAMOND RIFFLER FILES			
DIAMOND COVERAGE	SHAPE	CATALOG NUMBER	STANDARD GRIT SIZE
	KNIFE	DNF-1	100°
	BARRETTE	DNF-2	100°
	SLITTING	DNF-3	100°
	3 SQUARE	DNF-4	100°
	EQUALLING	DNF-5	100°
	SQUARE	DNF-6	100°
	WARDING	DNF-7	100°
	CROCHET	DNF-8	100°
	CROSSING	DNF-9	100
	HALF ROUND	DNF-10	100°
	ROUND	DNF-11	100°

## DIAMOND TOOLS

### PDG(X) - 10

### C

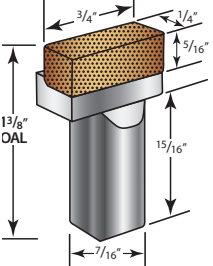
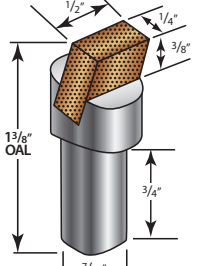
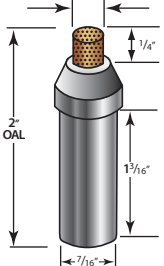
MAXIMUM STRENGTH

DENOTES SHAPES WITH DIMENSIONS IN ACCORDANCE WITH DRAWINGS BELOW.

DENOTES DIAMOND GRIT:

- C - Coarse grit;
- M - Medium grit;
- F - Fine grit.

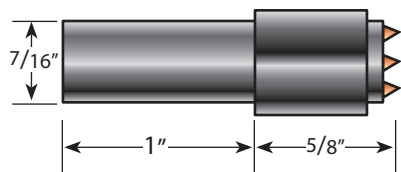
For example, **PDG-10C** means PDG-10 style shown below with coarse grit.

 <p><b>PDG-10</b> Used for straight dressing on cylindrical, centerless and surface grinders.</p> <p>Dimensions: 3/4" top width, 1/4" top thickness, 5/16" top height, 13/8" OAL, 15/16" side height, 7/16" bottom width.</p>	 <p><b>PDG-31</b> Used the same as PDG-30, except the PDG-31 is used when dresser is offset 15° from wheel.</p> <p>Dimensions: 1/2" top width, 1/4" top thickness, 3/8" top height, 13/8" OAL, 3/4" side height, 7/16" bottom width.</p>	 <p><b>PDG-70</b> Used on small surface grinders and for general tool room applications where dresser is perpendicular to wheel face.</p> <p>Dimensions: 1/4" top width, 1/4" top thickness, 2" OAL, 13/16" side height, 7/16" bottom width.</p>
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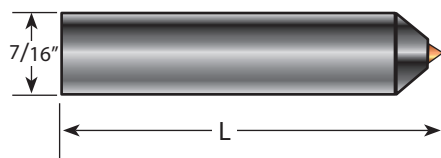
## CLUSTER AND IMPREGNATED DRESSERS

Light, medium, heavy duty available.  
Multi layer clusters available.

### SINGLE LAYER CLUSTERS



Each whole, natural stone makes contact in the dressing of hard, wide-face, wheels. An economical substitute for large carat-weight, single stone tools.

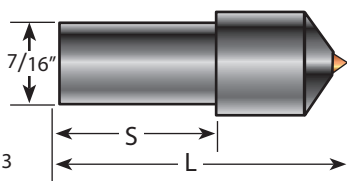


HOLDER NUMBER	71	714	718	72	74	76
Length	1"	1 1/4"	1 1/2"	2"	4"	6"

Use with Diamond No. 3, 4, 5 or 6 (See Guide Table)

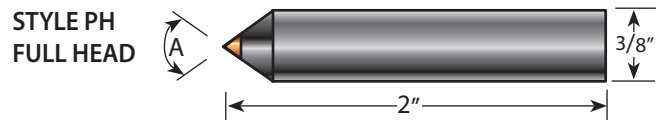
HOLDER NUMBER	7099	7199	7098
L. Dim.	1 3/8"	1 5/8"	1 1/4"
S. Dim.	3/4"	1"	3/4"

Use with Diamond No. 7 through 13



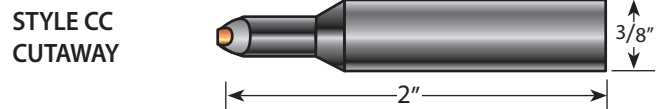
## CONE POINT TOOLS

RADIUS AVAILABLE



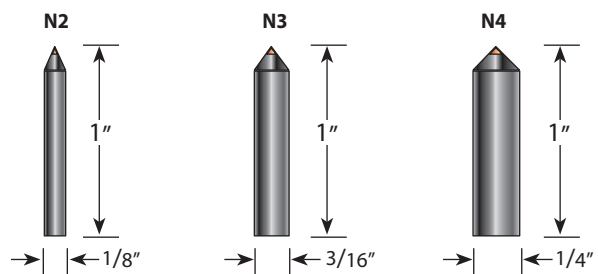
## CHISEL EDGE TOOLS

RADIUS AVAILABLE



## PHONOPPOINTS

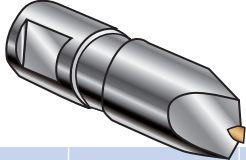
60 - 75 - 90 DEGREE AVAILABLE



## SHAPED DIAMOND DRESSERS

Illustrated below are four of the most popular radius and form dressing diamond tools used in precision grinding industries today. Following the manufacturer's blueprints, these tools are accurately made and rigorously inspected so that they will produce in grinding wheels intricate forms for which they are designed.

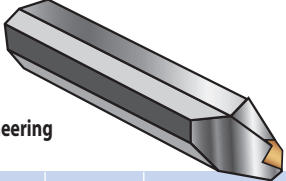
**For Diaform Attachment**



TOOL NUMBER	LENGTH	INCLUDED ANGLE	RADIUS
<b>ROUGHING TOOLS</b>			
PD-550	1.370	60°	.020
PD-511	1.750	60°	.020
<b>FINISHING TOOLS</b>			
PD-441	1.370	60°	.010
PD-442	1.370	40°	.005
PD-506	1.750	60°	.010
PD-508	1,750	40°	.005

Only tool numbers need to be used when ordering. The above tools are most popular but other specifications available upon request.

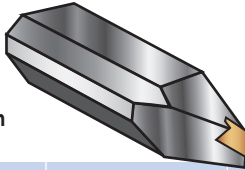
**For Høglund Engineering Dressing Device**



TOOL NUMBER	LENGTH	INCLUDED ANGLE	RADIUS
PD-257262	1.625	72°	.025
PD-106075	1.750	60°	.010
PD-254875	1.750	48°	.025
PD-154262	1.625	42°	.015
PD-254075	1.750	40°	.025
PD-153575	1.750	35°	.015

Only tool numbers need to be used when ordering. The above tools are most popular but other specifications available upon request.

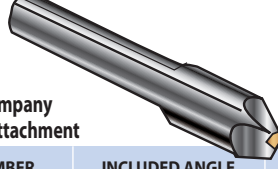
**For Jones & Lamson Truing Device**



TOOL NUMBER	INCLUDED ANGLE	RADIUS	STANDARD RADII
PD-967-1	50°	1.250	.004, .007, .011, .017, .020
PD-967-2	40°	1.250	.004, .007, .011, .017
PD-967-3	30°	1.250	.004, .007, .011, .017
PD-510-90	90°	1.250	.004, .007, .011, .017
PD-510-50	60°	1.250	.004, .007, .011, .017
PD-510-1	50°	1.250	.004, .007, .011, .017

Specify tool number and radius desired when ordering. The above tools are most popular but other specifications available upon request.

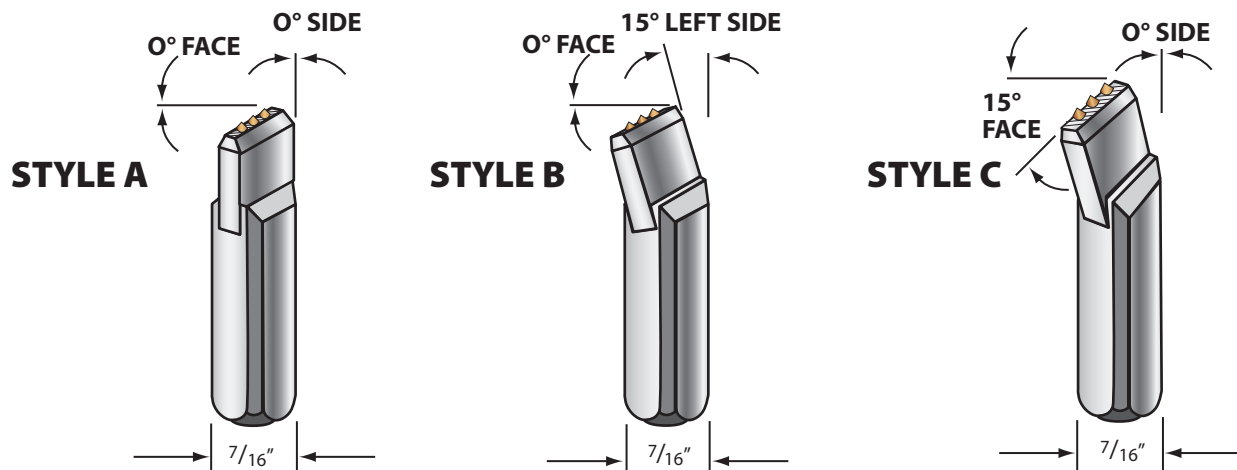
**For Moore Company Pantocrush Attachment**



TOOL NUMBER	INCLUDED ANGLE	RADIUS
PD90M-005	90°	.005
PD90M-010	90°	.010
PD90M-015	90°	.015
PD60M-005	60°	.005
PD60M-010	60°	.010
PD60M-015	60°	.015
PD40M-005	40°	.005
PD40M-010	40°	.010

Only tool numbers need to be used when ordering. The above tools are most popular but other specifications available upon request.

## DIAMOND BLADE TOOLS FOR STEP, PROFILE AND RADIUS DRESSING

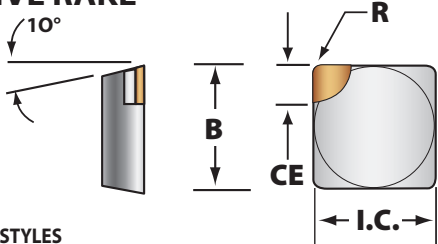


**NOTE:** Multiple layer and diamond Counts available

## DIAMOND AND CBN INSERTS

( Tipped One corner ) .125" MINIMUM CUTTING EDGE

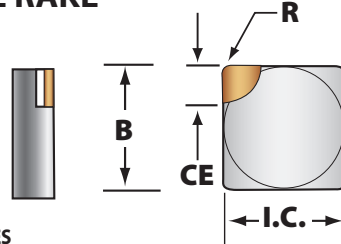
### POSITIVE RAKE



SPG  
STANDARD STYLES

INSERT NUMBER	IC		T	B	R
	DIM.	TOL.			
SPG-321	3/8	± .001	1/8	.375	1/64
SPG-322				.375	1/32
SPG-323				.375	3/64
SPG-324				.375	1/16
SPG-421	1/2	± .001	1/8	.500	1/64
SPG-422				.500	1/32
SPG-423				.500	3/64
SPG-424				.500	1/16
SPG-432	1/2	± .001	3/16	.500	1/32
SPG-433				.500	3/64
SPG-532	5/8	± .001	3/16	.625	1/32
SPG-533				.625	3/64
SPG-534				.625	1/16
SPG-631	3/4	± .001	3/16	.750	1/64
SPG-632				.750	1/32
SPG-633				.750	3/64
SPG-634				.750	1/16

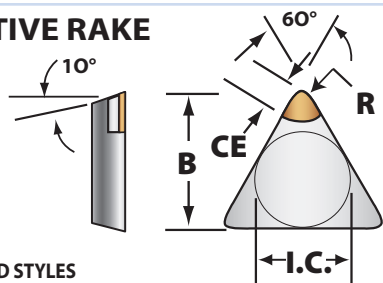
### NEGATIVE RAKE



SNG  
STANDARD STYLES

INSERT NUMBER	IC		T	B	R
	DIM.	TOL.			
SNG-321	3/8	± .001	1/8	.375	1/64
SNG-322				.375	1/32
SNG-323				.375	3/64
SNG-421	1/2	± .001	1/8	.500	1/64
SNG-422				.500	1/32
SNG-423				.500	3/64
SNG-424				.500	1/16
SNG-431	1/2	± .001	3/16	.500	1/64
SNG-432				.500	1/32
SNG-433				.500	3/64
SNG-434	3/4	± .001	3/16	.500	1/16
SNG-632				.750	1/32
SNG-633				.750	3/64
SNG-634	.750	1/16			

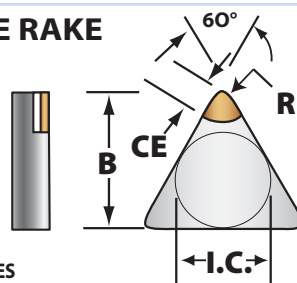
### POSITIVE RAKE



TPG  
STANDARD STYLES

INSERT NUMBER	IC		T	B	R
	DIM.	TOL.			
TPG-221	1/4	± .001	1/8	.359	1/64
TPG-222				.344	1/32
TPG-321	3/8	± .001	1/8	.547	1/64
TPG-322				.531	1/32
TPG-323				.516	3/64
TPG-324				.500	1/16
TPG-331	3/8	± .001	3/16	.547	1/64
TPG-332				.531	1/32
TPG-333				.516	3/64
TPG-334				.500	1/16
TPG-431	1/2	± .001	3/16	.734	1/64
TPG-432				.719	1/32
TPG-433				.703	3/64
TPG-434				.688	1/16

### NEGATIVE RAKE



TNG  
STANDARD STYLES

INSERT NUMBER	IC		T	B	R
	DIM.	TOL.			
TNG-221	1/4	± .001	1/8	.359	1/64
TNG-222				.344	1/32
TNG-321	3/8	± .001	1/8	.547	1/64
TNG-322				.531	1/32
TNG-323				.516	3/64
TNG-331				.547	1/64
TNG-332	3/8	± .001	3/16	.531	1/32
TNG-333				.516	3/64
TNG-334				.500	1/16
TNG-431	1/2	± .001	3/16	.734	1/64
TNG-432				.719	1/32
TNG-433				.703	3/64
TNG-434				.688	1/16

**APPLICATION SHEET**

WHEEL SHAPE \_\_\_\_\_ OD. \_\_\_\_\_ T \_\_\_\_\_ H \_\_\_\_\_ W \_\_\_\_\_ U \_\_\_\_\_ X \_\_\_\_\_ ANGLE \_\_\_\_\_

WHEEL SPEC \_\_\_\_\_

OPERATION WHEEL IS TO PERFORM

\_\_\_\_\_

MATERIAL TO BE GROUND \_\_\_\_\_

WORKPIECE DESCRIPTION (TYPE OF TOOL) \_\_\_\_\_

\_\_\_\_\_

MACHINE MODEL & H.P. OF GRINDING MOTOR \_\_\_\_\_

VARIABLE SPEED SPINDLE? \_\_\_\_\_ TYPE OF COOLANT \_\_\_\_\_ TYPE OF FILTRATION \_\_\_\_\_

DEPTH OF CUT \_\_\_\_\_ FEED RATE \_\_\_\_\_ FINISH REQUIREMENTS \_\_\_\_\_

TRUING METHOD \_\_\_\_\_

\_\_\_\_\_

NOTES \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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