

# Radiaac<sup>®</sup>

Abrasives

2009 - 2010



**800-793-8765**

**Grinding Wheels and Shop Supplies for Engine Rebuilders**

# AUTOMOTIVE ABRASIVES

PRODUCT LISTING WITH JOBBER PRICES

Effective January 1st, 2009

Supersedes Jobber Prices Effective January 1, 2007



★ Designates New Item

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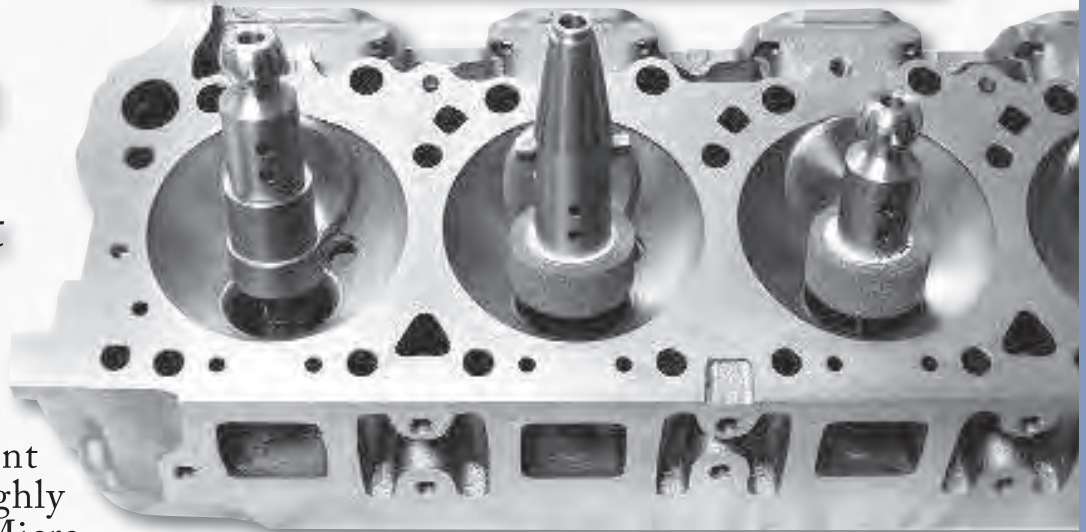
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Prices subject to change  
without notice due to  
Energy and Raw Material  
increases we incur from our suppliers.

# VALVE SEAT LAP MASTER



Innovative new tooling designed to save time and improve seat finish after form cutting.



Product development involves a system of highly specialized Diamond Micro-Finishing Laps and Spindle Drive Bodies adapted to fit drive spindles on Automotive and Diesel Seat and Guide machines. Spindle Drive Bodies will also fit conventional Sioux and Kwikway valve seat grinding wheels. The system is used in the reconditioning of valve seats in a cylinder head to reduce time in setup, reduce labor costs and increase the surface quality of the seat.



## LAP MASTER DRIVE BODIES PATENT PENDING

PETERSON, WINONA, T&S, SUNNEN, KWIKWAY, DCM, ROTTLER, SERDI, NEWEN

Style	I.D.	Thread	Product Number	Price
Ball Top	.375	11/16-16	7419635	\$154.49
Ball Top	.385	11/16-16	7419636	\$154.49
Ball Top	.389	11/16-16	7419637	\$154.49
Ball Top	.375	13/16-13	7419638	\$154.49
Ball Top	.385	13/16-13	7419639	\$154.49
Ball Top	.389	13/16-13	7419640	\$154.49
Tapered Top	.375	11/16-16	7419641	\$247.19
Tapered Top	.375	13/16-13	7419642	\$247.19

Diamond Micro-Laps will be made to order per customers needs. Special angles available. Size range 7/8" through 2-5/8".



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

**Salem: 800-793-8765 or fax 618-548-9234**

1015 S. College Ave • Salem, IL 62881

**Oswego: 800-223-0457 or fax 630-898-1796**

101 Kendall Point Drive, Oswego, IL 60543

# SEAT LAP MASTER DIAMOND MICRO-FINISHING SYSTEM

## BENEFITS OF TOOLING

Tooling system is for all internal combustion engine cylinder heads. This universal micro-finishing tool package can be used with conventional seat and guide machines as well as single and double stanchion machines using either diamond laps or conventional valve seat grinding wheels. This system will improve seat finish quality, reducing time and labor costs involved with finishing valve seats.

Example: The form tools used to create the valve seat form, collects deposits from the base metal of the seat from heat and also wears during use creating imperfections on the seat surface, either chatter or a threading appearance. This creates a surface with less than desirable vacuum sealing for the valve to operate correctly. With this new tooling system adapted to fit many machines, it enables the operator to finish work without removing the cylinder heads from the machine. Improving valve seat surface quality and sealing of the valve to the surface of the valve seat, thus saving set-up time, labor, etc.

Without this type of tooling the operator would have to remove the heads from the machine, set up on a work bench and grind seats with conventional valve seat grinding wheels to remove valve seat imperfections which would require more set up time and labor costs.

Furthermore the tooling will also allow the operator to remove minimal material from the valve seat surface which relates to longer valve seat and head life.



## CUSTOMER TOOLING

Customer valve guide pilot tooling used with this surfacing system must be in excellent condition to use this system. Carbide pilots are the best for rigidity, but tool steel pilots will work fine if not worn on the tops.

Worn guide pilots will cause vibration of the micro-finishing lap, valve seat surface run out, and surface finish problems. Vibration will also damage the cutting surface of the micro-finishing lap. Bounce springs are a must when using the micro-finishing laps. Bounce springs used between the lap and the guide keeps the lap suspended above the valve seat so it doesn't come in contact with the seat until the lap is spinning the recommended 100 rpm spindle speed with a few drops of honing oil applied or Windex spray to the valve seat being lapped. If springs are not used it will damage the lap.

## MACHINES

Rottler Sunnen K.I. Kwikway D.C.M.  
T & S Winona Serdi Newen

## OPERATING INSTRUCTIONS FOR RADIAC VALVE SEAT LAP MASTER

For Diamond Laps use 100 rpm spindle speed with (Bounce Spring).

For Abrasive Seat Stones use higher rpm's with (Bounce Spring)

1. It is important that all tooling be in good condition especially the top sizes on the guide pilots to keep the set up ridged. Also the dresser pilot and stone holder spinners for truing seat stones.
2. Clean guide pilot tops and I.D. of the driver body with nylon brush before use.
3. A light oil can be used on the pilot top before use.
4. Clean all threads on seat stones, diamond laps and driver bodies before use. This is a MUST DO.

### CLEANING OF THE DIAMOND LAP SEAT WHEELS

1. You can use compressed air and a wire brush with light pressure to remove any grinding accumulation on the lap.

### SEAT STONE DRESSING

1. A variation of fine to medium dressing speeds across the face of the abrasive valve seat wheel may be required on different valve seat materials. Dresser pilot and stone holder spinners must be in good condition for truing stones correctly.

### SEAT FINISHING OPERATION (Must Be Used with Bounce Springs)

1. This is all about feel and a light touch of the diamond lap or abrasive seat stone against the valve seat surface.
2. Do not crowd or use force when the diamond lap or abrasive seat stone is in contact with the valve seat. It will only take a light touch to achieve good results.
3. Do not start the machine with the diamond lap or seat stone in contact with the valve seat. Have machine up to operating rpm before applying lap or seat stone to the valve seat surface.



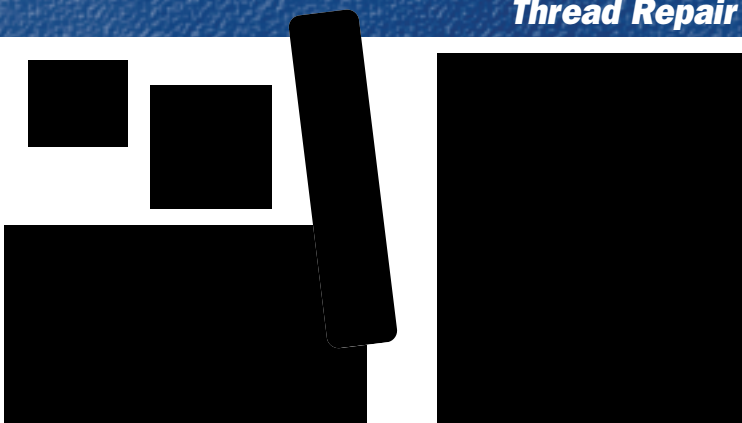
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**Oswego: 800-223-0457 or fax 630-898-1796**

101 Kendall Point Drive, Oswego, IL 60543



## Bulk Pack Thread Repair Inserts

DIMENSIONS	PRODUCT NUMBER	INSERTS	PRICE
1/4 - 20	7414837	25	7.61
5/16 - 18	7414838	25	9.67
3/8 - 16	7414839	25	12.56
7/16 - 14	7414840	25	14.92
1/2 - 13	7414841	25	19.87
6 x 1.00mm	7414842	25	7.61
7 x 1.00mm	7414843	25	9.67
8 x 1.25mm	7414844	25	9.67
10 x 1.5mm	7414845	25	12.56

## Spark Plug Repair Kits

Contains Tap and Installation Tool

DIMENSIONS	PRODUCT NUMBER	INSERTS	PRICE
10 x 1.00mm	7414833	1	53.76
12 x 1.25mm	7414834	1	56.12
14 x 1.25mm	7414835	1	59.42
18 x 1.50mm	7414836	1	81.26

## Bulk Pack Spark Plug Inserts

DIMENSIONS	PRODUCT NUMBER	INSERTS	PRICE
14 x 1.25mm x 1/2"	7414846	25	18.53
14 x 1.25mm x 3/4"	7414847	25	26.77

## Six Pack Spark Plug Inserts

DIMENSIONS	PRODUCT NUMBER	INSERTS	PRICE
10 x 1.00mm x 1/2	7414848	6	4.11
12 x 1.25mm x 1/2	7414849	6	4.62
12 x 1.25mm x 3/4	7414850	6	5.14
14 x 1.25mm x 3/8	7414851	6	4.11
14 x 1.25mm x 1/2	7414852	6	5.45
14 x 1.25mm x 3/4	7414853	6	6.48
18 x 1.50mm x 1/2	7414854	6	7.51

## Coarse Thread Repair Kits

Contains Inserts, Installation Tool and Tap

DIMENSIONS	PRODUCT NUMBER	INSERTS	PRICE
1/4 - 20 x .375 Kit	7414824	12	21.62
5/16 - 18 x .469 Kit	7414825	12	21.62
3/8 - 16 x .562 Kit	7414826	12	21.62
7/16 - 14 x .656 Kit	7414827	6	23.68
1/2 - 13 x .750 Kit	7414828	6	27.80

## Master Coarse Thread Repair Kits

DESCRIPTION	PRODUCT NUMBER	PKG QTY	PRICE
SAE Coarse	7414822		108.65
1/4 - 20	Inserts	6 ea.	
5/16 - 18	Inserts	6 ea.	
3/8 - 16	Inserts	6 ea.	
7/16 - 14	Inserts	6 ea.	
1/2 - 13	Inserts	6 ea.	
1/4 - 20	Installation Tool	1 ea.	
5/16 - 18	Installation Tool	1 ea.	
3/8 - 16	Installation Tool	1 ea.	
7/16 - 14	Installation Tool	1 ea.	
1/2 - 13	Installation Tool	1 ea.	
1/4 - 20	STI Tap	1 ea.	
5/16 - 18	STI Tap	1 ea.	
3/8 - 16	STI Tap	1 ea.	
7/16 - 14	STI Tap	1 ea.	
1/2 - 13	STI Tap	1 ea.	

## Master Metric Thread Repair Kit

DESCRIPTION	PRODUCT NUMBER	PKG QTY	PRICE
Metric	7414823		131.55
5 x 0.80mm	Inserts	6 ea.	
6 x 1.00mm	Inserts	6 ea.	
8 x 1.25mm	Inserts	6 ea.	
10 x 1.25mm	Inserts	6 ea.	
10 x 150mm	Inserts	6 ea.	
5 x 0.80mm	Installation Tool/Prewinder	1 ea.	
6 x 1.00mm	Installation Tool/Prewinder	1 ea.	
8 x 1.25mm	Installation Tool/Prewinder	1 ea.	
10 x 1.25mm	Installation Tool/Prewinder	1 ea.	
10 x 150mm	Installation Tool/Prewinder	1 ea.	
5 x 0.80mm	STI Tap	1 ea.	
6 x 1.00mm	STI Tap	1 ea.	
8 x 1.25mm	STI Tap	1 ea.	
10 x 1.25mm	STI Tap	1 ea.	
10 x 150mm	STI Tap	1 ea.	

## Metric Thread Repair Kits

Contains Inserts, Installation Tool and Tap

DIMENSIONS	PRODUCT NUMBER	INSERTS	PRICE
6 x 1.00mm x .90 Kit	7414829	12	27.80
7 x 1.00mm x 10.5 Kit	7414830	12	27.80
8 x 1.25mm x 12.0 Kit	7414831	12	27.80
10 x 1.5mm x 13.5 Kit	7414832	12	27.80

Crankshaft Grinding is cylindrical grinding which requires absolute precision. As a manufacturer, Radiac Abrasives stocks a full line of the most commonly used crankshaft wheels. Furthermore we have 18" to 36" O.D. Blank Wheel Stock to rework to your specific needs. **Finish and Rough Grind with Radiac's WAA High Performance vitri-**

**fied crankshaft wheels.** With excellent dimensional accuracy, corner radii and surface finish, one grade covers multiple applications including weld grinding. **Any width, any size, made to order. Most complete crankshaft program in the country.**



### WAA54-M5-V1096 PREMIUM MULTI ABRASIVE

- From Cast to Steel
- Finishing & Roughing Wheel
- Multi-Purpose Abrasive
- Excellent for Soft & Hard Material
- Premium Aluminum Oxide and a Multi-Purpose Aluminum Oxide
- Light to Medium Stock Removal
- Blue/White in Color
- Wheel Speeds to 8500 SFPM



### 43A602-K8-V1 PREMIUM ABRASIVE

- Made to Order
- Excellent Cooler Cutting
- Excellent Finish
- Excellent for Flame Hardened Material
- Finishing Wheel

**NOTE:** *Recesses, Special Faces or Special Shapes can be added to fit every crankshaft wheel need. Contact Customer Service for finishing requirements and quotation.*

## CRANKSHAFT MOUNTING PROCEDURES ON PAGE 56

*Excellent user satisfaction*

DIMENSIONS	MACHINE/MODEL	OTHER DIMENSION	PRODUCT #	TYPE	1-2 PCS	3+ PCS
18 x 3/4 x 3	Storm-Vulcan 14, 15	Straight	E335187	1	127.42	114.66
18 x 7/8 x 3		Straight	E335188	1	127.42	114.66
18 x 15/16 x 3		Straight	E335189	1	127.42	114.66
18 x 1 x 3		Straight	E337308	1	127.42	114.66
18 x 1-1/16 x 3		Rec. 1S 6-1/2 x 1/16	E335190	5	147.87	133.13
18 x 1-1/8 x 3		Rec. 1S 6-1/2 x 1/8	E335191	5	147.87	133.13
18 x 1-3/16 x 3		Rec. 1S 6-1/2 x 3/16	E335192	5	164.78	148.22
18 x 1-1/4 x 3		Rec. 1S 6-1/2 x 1/4	E335193	5	171.83	154.72
18 x 1-3/8 x 3		Rec. 1S 6-1/2 x 3/8	E335194	5	179.16	161.21
18 x 1-1/2 x 3		Rec. 1S 6-1/2 x 1/2	E335196	5	179.16	161.21
18 x 1-5/8 x 3		Rec. 1S 6-1/2 x 5/8	E335197	5	168.73	151.82
18 x 1-11/16 x 3		Rec. 1S 6-1/2 x 11/16	E335198	5	168.73	151.82
18 x 1-3/4 x 3		Rec. 1S 6-1/2 x 3/4	E335199	5	168.73	151.82
18 x 1-7/8 x 3		Rec. 1S 6-1/2 x 7/8	E335200	5	216.20	194.47
18 x 1-15/16 x 3		Rec. 1S 6-1/2 x 15/16	E346092	5	216.20	194.47
18 x 2 x 3		Rec. 1S 6-1/2 x 1	E335201	5	216.20	194.47
20 x 3/4 x 3-3/4	Kwik-Way	Straight	E335202	1	156.46	140.79
20 x 7/8 x 3-3/4	Lempco	Straight	E335203	1	156.46	140.79
20 x 15/16 x 3-3/4		Straight	E335204	1	156.46	140.79
20 x 1 x 3-3/4		Straight		1		
20 x 1-1/8 x 3-3/4		Straight		1		
20 x 1-1/4 x 3-3/4		Rec. 1S 7-1/2 x 1/4		5		
20 x 1-1/2 x 3-3/4		Rec. 1S 7-1/2 x 1/2		5		
20 x 1-3/4 x 3-3/4		Rec. 1S 7-1/2 x 3/4		5		
20 x 3/4 x 3	Storm-Vulcan	Straight	E335210	1	156.46	140.79
20 x 7/8 x 3	15 Special 1550, 1648	Straight	E335211	1	156.46	140.79
20 x 15/16 x 3		Straight	E335212	1	156.46	140.79
20 x 1 x 3		Straight	E335213	1	156.46	140.79
20 x 1-1/16 x 3		Rec. 1S 7-1/4 x 1/16	E335214	5	181.34	163.17
20 x 1-1/8 x 3		Rec. 1S 7-1/4 x 1/8	E335215	5	181.34	163.17
20 x 1-3/16 x 3		Rec. 1S 7-1/4 x 3/16	E335216	5	181.34	163.17
20 x 1-1/4 x 3		Rec. 1S 7-1/4 x 1/4	E335217	5	181.34	163.17
20 x 1-3/8 x 3		Rec. 1S 7-1/4 x 3/8	E335218	5	209.11	188.28

**ONLY RADIAC ABRASIVES MANUFACTURES AND SIZES SPECIAL WHEELS TO ORDER**

DIMENSIONS	MACHINE/MODEL	OTHER DIMENSION	PRODUCT #	TYPE	1-2 PCS	3+ PCS
20 x 1-7/16 x 3	Storm-Vulcan	Rec. 1S 7-1/4 x 7/16		5		
20 x 1-1/2 x 3		Rec. 1S 7-1/4 x 1/2	E335220	5	209.11	188.28
20 x 1-5/8 x 3		Rec. 1S 7-1/4 x 5/8	E335221	5	237.23	213.45
20 x 1-11/16 x 3		Rec. 1S 7-1/4 x 11/16	E335222	5	237.23	213.45
20 x 1-3/4 x 3		Rec. 1S 7-1/4 x 3/4	E335223	5	237.23	213.45
20 x 1-7/8 x 3		Rec. 1S 7-1/4 x 7/8	E335224	5	265.02	238.39
20 x 1-15/16 x 3		Rec. 1S 7-1/4 x 15/16	E335225	5	265.02	238.39
20 x 2 x 3		Rec. 1S 7-1/4 x 1	E335226	5	265.02	238.39
22 x 3/4 x 3-3/4††	Kwik-Way	Straight	E335227	1	213.00	191.74
22 x 7/8 x 3-3/4††	Lempco 519	Straight		1		
22 x 15/16 x 3-3/4††		Straight		1		
22 x 1 x 3-3/4††		Straight		1		
22 x 1-1/8 x 3-3/4		Rec. 1S 7-1/2 x 1/8		5		
22 x 1-3/8 x 3-3/4		Rec. 1S 8 x 3/8		5		
22 x 1-1/2 x 3-3/4		Rec. 1S 8 x 1/2		5		
22 x 1-3/4 x 3-3/4		Rec. 2S 7-1/2 x 3/8		7		
22 x 1-7/8 x 3-3/4		Rec. 2S 7-1/2 x 7/16		7		
22 x 3/4 x 5	Storm-Vulcan 15A	Straight	E335237	1	208.26	187.61
22 x 7/8 x 5	To Serial #593	Straight	E335238	1	208.26	187.61
22 x 15/16 x 5	AMC Machine	Straight	E337309	1	208.26	187.61
22 x 1 x 5		Straight	E337310	1	208.26	187.61
22 x 1-1/16 x 5		Rec. 1S 7-1/2 x 1/16	E335239	5	227.98	205.32
22 x 1-1/8 x 5		Rec. 1S 7-1/2 x 1/8	E335240	5	227.98	205.32
22 x 1-3/16 x 5		Rec. 1S 7-1/2 x 3/16	E335241	5	227.98	205.32
22 x 1-1/4 x 5		Rec. 1S 7-1/2 x 1/4	E335242	5	227.98	205.32
22 x 1-3/8 x 5		Rec. 1S 7-1/2 x 3/8	E335243	5	247.80	223.05
22 x 1-7/16 x 5		Rec. 1S 7-1/2 x 7/16		5		
22 x 1-1/2 x 5		Rec. 1S 7-1/2 x 1/2	E335245	5	279.57	251.43
22 x 1-5/8 x 5		Rec. 1S 7-1/2 x 5/8	E335246	5	279.57	251.43
22 x 1-11/16 x 5		Rec. 1S 7-1/2 x 11/16	E335247	5	279.57	251.43
22 x 1-3/4 x 5		Rec. 1S 7-1/2 x 3/4	E335248	5	279.57	251.43
22 x 1-7/8 x 5		Rec. 1S 7-1/2 x 7/8	E335249	5	315.94	284.45
22 x 1-15/16 x 5		Rec. 1S 7-1/2 x 15/16	E335250	5	315.94	284.45
22 x 2 x 5		Rec. 1S 7-1/2 x 1	E335251	5	315.94	284.45
22 x 3/4 x 8	Peterson-Berco 180	Straight	E335439	1	257.41	231.66
22 x 7/8 x 8		Straight		1		
22 x 15/16 x 8		Straight		1		
22 x 1 x 8		Straight	E335442	1	257.41	231.66
22 x 1-1/8 x 8		Straight		1		
22 x 1-1/4 x 8		Straight	E335444	1	257.41	231.66
22 x 1-1/2 x 8		Rec. 2S 16 x 1/4	E335445	7	274.64	247.22
22 x 1-3/4 x 8		Rec. 2S 16 x 3/8		7		
22 x 2 x 8		Rec. 2S 16 x 3/8	E335447	7	309.37	278.41
24 x 3/4 x 5	Storm-Vulcan 15A	Straight	E335448	1	204.78	184.28
24 x 7/8 x 5	15A Special	Straight	E335449	1	222.44	200.17
24 x 15/16 x 5	15A Special	Straight	E335450	1	240.00	215.96
24 x 1 x 5	15C and 1860	Straight	E337311	1	240.00	215.96
24 x 1-1/16 x 5	RMC/Robbi Rex 1200	Straight	E335452	1	270.98	243.85
24 x 1-1/8 x 5	Scledum 200	Rec. 1S 8-1/2 x 1/8	E335453	5	288.39	259.56
24 x 1-3/16 x 5		Rec. 1S 8-1/2 x 1/8	E335454	5	291.07	261.99

††All wheels 1" and less must be made T/58. 1" thick at the hole.

**ONLY RADIAC ABRASIVES MANUFACTURES AND SIZES SPECIAL WHEELS TO ORDER**

*Product Listed in Shaded Areas Available for Immediate Shipment. For Wheel Shapes See Pages 7 and Inside Back Cover*

## Crankshaft Grinding Wheels 24" to 25"

Crankshaft Grinding is cylindrical grinding which requires absolute precision. As a manufacturer, Radiac Abrasives stocks a full line of the most commonly used crankshaft wheels. Furthermore we have 18" to 36" O.D. Blank Wheel Stock to rework to your specific needs. **Finish and Rough Grind with Radiac's WAA High Performance vitri-**

**fied crankshaft wheels.** With excellent dimensional accuracy, corner radii and surface finish, one grade covers multiple applications including weld grinding. **Any width, any size, made to order. Most complete crankshaft program in the country.**



### WAA54-M5-V1096 PREMIUM MULTI ABRASIVE

- From Cast to Steel
- Finishing & Roughing Wheel
- Multi-Purpose Abrasive
- Excellent for Soft & Hard Material
- Premium Aluminum Oxide and a Multi-Purpose Aluminum Oxide
- Light to Medium Stock Removal
- Blue/White in Color
- Wheel Speeds to 8500 SFPM



### 43A602-K8-V1 PREMIUM ABRASIVE

- Made to Order
- Excellent Cooler Cutting
- Excellent Finish
- Excellent for Flame Hardened Material
- Finishing Wheel

*NOTE: Recesses, Special Faces or Special Shapes can be added to fit every crankshaft wheel need. Contact Customer Service for finishing requirements and quotation.*

### CRANKSHAFT MOUNTING PROCEDURES ON PAGE 56

### Excellent User Satisfaction

DIMENSIONS	MACHINE/MODEL	OTHER DIMENSION	PRODUCT #	TYPE	1-2 PCS	3+ PCS
24 x 1-1/4 x 5	Storm-Vulcan 15A	Rec. 1S 8-1/2 x 1/4	E335455	5	295.66	266.20
24 x 1-3/8 x 5	15A Special	Rec. 1S 8-1/2 x 3/8	E335456	5	302.85	272.61
24 x 1-7/16 x 5	15A Special	Rec. 1S 8-1/2 x 1/4		5		
24 x 1-1/2 x 5	15C and 1860	Rec. 1S 8-1/2 x 1/2	E335458	5	339.99	306.22
24 x 1-5/8 x 5	RMC/Robbi Rex 1200	Rec. 1S 8-1/2 x 5/8	E335539	5	359.83	323.80
24 x 1-11/16 x 5	Sclodum 200	Rec. 1S 8-1/2 x 11/16		5		
24 x 1-3/4 x 5		Rec. 1S 8-1/2 x 3/4	E335460	5	359.83	323.80
24 x 1-7/8 x 5		Rec. 1S 8-1/2 x 7/8	E335461	5	382.17	344.01
24 x 1-7/8 x 5		Rec. 1S 10-1/2 x 7/8	E335462	5	384.96	346.52
24 x 1-15/16 x 5		Rec. 1S 8-1/2 x 15/16	E335463	5	382.17	344.01
24 x 2 x 5		Rec. 1S 8-1/2 x 1	E335464	5	382.17	344.01
24 x 3/4 x 8	Winona-Van Norman	Straight	E335467	1	209.98	188.89
24 x 15/16 x 8	438, 448, 460 & 465	Straight	E335466	1	234.47	210.99
24 x 7/8 x 8		Straight	E337312	1	234.47	210.99
24 x 1 x 8		Straight	E335468	1	234.47	210.99
24 x 1-1/8 x 8	Winona-Van Norman	Straight		1	209.98	188.89
24 x 1-1/4 x 8	438, 448, 460 & 465	Straight	E335470	1	264.37	237.90
24 x 2 x 8	RMC/Robbi Rex 1200	Rec. 2S 10-3/4, 1S 1/8, OS 3/4		7		
	Sclodum 200					
24 x 3/4 x 5-1/2	Lempco	Straight		1		
24 x 7/8 x 5-1/2	KGA and NKG	Straight		1		
24 x 1 x 5-1/2	Kwik-Way	Straight		1		
24 x 1-1/8 x 5-1/2		Straight		1		
24 x 1-1/2 x 5-1/2		Rec. 1S 8-1/2 x 1/4		5		
24 x 1-1/2 x 5-1/2		Rec. 2S 8-1/2 x 1/4		7		
24 x 1-3/4 x 5-1/2		Rec. 2S 8-1/2 x 1/4		7		
25 x 3/4 x 5	Storm-Vulcan 15C	Straight	E335482	1	331.66	298.45
25 x 7/8 x 5	From Serial #173 & Up	Straight	E335483	1	331.66	298.45
25 x 15/16 x 5		Straight	E335484	1	331.66	298.45
25 x 1 x 5		Straight	E335485	1	331.66	298.45
25 x 1-1/8 x 5		Straight	E335486	1	331.66	298.45
25 x 1-1/4 x 5		Straight	E335487	1	331.66	298.45

ONLY RADIAC ABRASIVES MANUFACTURES AND SIZES SPECIAL WHEELS TO ORDER



DIMENSIONS	MACHINE/MODEL	OTHER DIMENSION	PRODUCT #	TYPE	1-2 PCS	3+ PCS
26 x 3/4 x 8	AMC K-1100 K-1400	Rec. 2S 19 x 1/16	E335488	7	359.95	323.97
26 x 3/4 x 8	K-1500, K-1800	Straight	E337313	1	325.65	293.10
26 x 7/8 x 8	Peterson-Berco	Rec. 2S 19 x 1/16	E335489	7	383.33	345.20
26 x 7/8 x 8	180B, 225A & 225B	Straight	E341931	1	325.65	293.10
26 x 15/16 x 8	225C, RT225	Straight	E339175	1	325.65	293.10
26 x 15/16 x 8	Winona-Van Norman	Rec. 2S 19 x 1/16	E335490	7	390.46	351.33
26 x 1 x 8	438, 448, 460, 465,	Rec. 2S 19 x 1/16	E335491	7	397.75	357.96
26 x 1 x 8	475, 476, CG210	Straight	E340720	1	325.65	293.10
26 x 1-1/16 x 8	Zanrosso 210 & 230	Straight	E347998	1	325.65	293.10
26 x 1-1/8 x 8	RG 230	Rec. 2S 19 x 1/16	E335493	7	406.54	365.92
26 x 1-3/16 x 8	New Sclodum	Rec. 2S 19 x 1/16	E345476	7	426.44	383.66
26 x 1-1/4 x 8	Storm-Vulcan 230 Std	Rec. 2S 19 x 1/8	E335495	7	426.44	383.66
26 x 1-1/4 x 8	Storm-Vulcan 230 Prod	Straight	E335496	1	325.65	293.10
26 x 1-1/4 x 8	Sclodum 200, 230	Rec. 2S 19 x 1/16	E335379	7	426.44	383.66
26 x 1-3/8 x 8		Rec. 2S 19 x 1/8	E335378	7	432.63	389.11
26 x 1-7/16 x 8		Rec. 2S 19 x 3/16		7		
26 x 1-1/2 x 8		Rec. 2S 19 x 3/16	E335381	7	432.63	389.11
26 x 1-5/8 x 8		Rec. 2S 19 x 1/4	E335383	7	432.63	389.11
26 x 1-11/16 x 8		Rec. 2S 19 x 1/4	E335384	7	432.63	389.11
26 x 1-3/4 x 8		Rec. 2S 19 x 1/4	E335386	7	483.46	435.14
26 x 1-7/8 x 8		Rec. 2S 19 x 3/8	E335387	7	477.40	429.38
26 x 1-15/16 x 8		Rec. 2S 19 x 3/8	E335388	7	477.40	429.38
26 x 2 x 8		Rec. 2S 19 x 3/8	E335389	7	477.40	429.38
<b>27-1/2 (225mm) x 8-55/64 x any thickness for Schou Crank Grinder Available on Request</b>						
28 x 3/4 x 6	Kwik-Way KGB-C-E	Straight		1		
28 x 7/8 x 6	Lempco	Straight		1		
28 x 15/16 x 6	KG1049, KG1050	Straight		1		
28 x 1 x 6	KG1051, KG1122	Straight	E335392	1	395.45	355.92
28 x 1-1/2 x 6	KG1123, KG1170	Rec. 1S 10 x 1/4		5		
28 x 1-3/4 x 6	KG B-C-E	Rec. 2S 10 x 1/4		7		
28 x 3/4 x 8	Peterson-Berco	Straight	E337315	1	372.65	335.17
28 x 7/8 x 8	260, 260A, 260B	Straight	E337316	1	372.65	335.17
28 x 7/8 x 8	270A, 270B, 270C	Rec. 2S 19 x 1/16	E335396	7	372.81	335.75
28 x 15/16 x 8	Winona-Van Norman	Rec. 2S 19 x 1/16	E335397	7	372.81	335.75
28 x 15/16 x 8	400, 438, 439	Straight	E341932	1	372.65	335.17
28 x 1 x 8	475, 476, 477,	Rec. 2S 19 x 1/16	E335398	7	409.88	368.65
28 x 1 x 8	666, CG-250	Straight	E337317	1	372.65	335.17
28 x 1-1/16 x 8	Sclodum RG 270	Straight	E342342	1	372.65	335.17
28 x 1-1/8 x 8	RG270Y, RG280	Rec. 2S 19 x 1/16	E335400	7	410.00	368.94
28 x 1-3/16 x 8	Zanrosso Series	Rec. 2S 19 x 1/16	E345477	7	469.73	422.96
28 x 1-1/4 x 8	Robbi Rex 1500	Rec. 2S 19 x 1/8	E335402	7	469.73	422.96
28 x 1-3/8 x 8		Rec. 2S 19 x 1/8	E335403	7	469.73	422.96
28 x 1-1/2 x 8		Rec. 2S 19 x 1/8	E335404	7	469.73	422.96
28 x 1-5/8 x 8		Rec. 2S 19 x 1/8	E335405	7	513.28	461.65
28 x 1-5/8 x 8		Rec. 2S 19 x 3/16	E335406	7	513.28	461.65
28 x 1-11/16 x 8		Rec. 2S 19 x 3/16	E345478	7	513.28	461.65
28 x 1-11/16 x 8		Rec. 2S 19 1S 3/8, OS 1/8		7		
28 x 1-3/4 x 8		Rec. 2S 19 x 1/4	E341933	7	513.28	461.65
28 x 1-7/8 x 8		Rec. 2S 19 1S 3/8, OS 1/8	E337318	7	564.98	508.15
28 x 1-7/8 x 8		Rec. 2S 19 x 5/16	E341281	7	564.98	508.15

**ONLY RADIAC ABRASIVES MANUFACTURES AND SIZES SPECIAL WHEELS TO ORDER**

## Crankshaft Grinding Wheels 28" to 32"



Crankshaft Grinding is cylindrical grinding which requires absolute precision. As a manufacturer, Radiac Abrasives stocks a full line of the most commonly used crankshaft wheels. Furthermore we have 18" to 36" O.D. Blank Wheel Stock to rework to your specific needs. **Finish and Rough Grind with Radiac's WAA High Performance vitri-**

**fied crankshaft wheels.** With excellent dimensional accuracy, corner radii and surface finish, one grade covers multiple applications including weld grinding. **Any width, any size, made to order. Most complete crankshaft program in the country.**



### WAA54-M5-V1096 PREMIUM MULTI ABRASIVE

- From Cast to Steel
- Finishing & Roughing Wheel
- Multi-Purpose Abrasive
- Excellent for Soft & Hard Material
- Premium Aluminum Oxide and a Multi-Purpose Aluminum Oxide
- Light to Medium Stock Removal
- Blue/White in Color
- Wheel Speeds to 8500 SFPM



### 43A602-K8-V1 PREMIUM ABRASIVE

- Made to Order
- Excellent Cooler Cutting
- Excellent Finish
- Excellent for Flame Hardened Material
- Finishing Wheel

*NOTE: Recesses, Special Faces or Special Shapes can be added to fit every crankshaft wheel need. Contact Customer Service for finishing requirements and quotation.*

## CRANKSHAFT MOUNTING PROCEDURES ON PAGE 56

*Excellent User Satisfaction*

DIMENSIONS	MACHINE/MODEL	OTHER DIMENSION	PRODUCT #	TYPE	1-2 PCS	3+ PCS
28 x 1-15/16 x 8	Refer to last group	Rec. 2S 19 x 3/8	E344443	7	564.98	508.15
28 x 2 x 8	on page 5	Rec. 2S 19 1S 5/8, OS 1/8	E335410	7	564.98	508.15
<b>Seest 30" o.d., 6 i.d. Available Upon Request</b>						
30 x 3/4 x 8	Winona-Van Norman	Straight	E322599	1	457.86	412.10
30 x 7/8 x 8	Zanrosso 280, AMC 2000	Straight	E335412	1	457.86	412.10
30 x 15/16 x 8	SV/Scledum 270, 280	Straight	E345864	1	457.86	412.10
30 x 1 x 8	RMC/Robbi Rex 1800	Straight	E337319	1	457.86	412.10
30 x 1-1/4 x 8	2200L, 2700RM,	Straight	E340501	1	457.86	412.10
30 x 1-1/4 x 8	3100RM	*Special Dimensions	E335413	21	561.15	504.87
30 x 1-1/2 x 8		*Special Dimensions	E335414	21	554.33	498.57
30 x 1-3/4 x 8		*Special Dimensions		21		
30 x 2 x 8		*Special Dimensions	E335416	21	673.34	605.62
32 x 3/4 x 8	Winona-Van Norma...	*Straight	E344089	1	513.48	461.84
32 x 3/4 x 8	467, 471, 477,	*Special Dimensions	E335417	21	579.04	520.80
32 x 7/8 x 8	472, CG300	Straight	E335418	1	513.48	461.84
32 x 1 x 8	Zanrosso 280	Straight	E335419	1	513.48	461.84
32 x 1-1/8 x 8	AMC Machine	Straight	E335420	1	513.48	461.84
32 x 1-1/4 x 8	1400, K1500, K1800	Straight	E335422	1	513.48	461.84
32 x 1-3/8 x 8		Straight		1		
32 x 1-1/2 x 8		*Special Dimensions		21		
32 x 1-7/8 x 8		Straight	E335427	1	735.99	662.84
<b>32 x 8-55/64 x any thickness for Schou Crank Grinder Available on Request</b>						
32 x 3/4 x 12	Peterson-Berco	Rec. 2S 26 x 1/32		7		
32 x 7/8 x 12	TM 280, 300 & 300A	Rec. 2S 26 x 1/32		7		
32 x 15/16 x 8	Scledum 280	Straight	E346449	1	513.48	461.84
32 x 15/16 x 12		Rec. 2S 26 x 1/32	E335431	7	545.77	491.27
32 x 1 x 12		Rec. 2S 26 x 1/32	E335432	7	545.77	491.27
32 x 1-1/8 x 12		Rec. 2S 26 x 1/16		7		
32 x 1-1/4 x 12		Rec. 2S 26 x 1/8	E335434	7	632.01	568.78
32 x 1-1/2 x 12		Rec. 2S 26 x 1/8		7		
32 x 1-3/4 x 12	Peterson-Berco	Rec. 2S 26 x 1/4	E335436	7	685.17	616.82
32 x 1-15/16 x 12	TM 280, 300 & 300A	Rec. 2S 26 x 1/4		7		
32 x 2 x 12	Scledum 280	Rec. 2S 26 x 3/8		7		

\* Special Dimension: Relieved 2 sides .090" DP to 11-1/4" Hub Diameter

*Receive quality and value in Premium Radiac Crankshaft Wheels. Only Radiac Abrasives manufactures and sizes special wheels to order. Your direct abrasive source from an abrasive manufacturer.*

DIMENSIONS	MACHINE/MODEL	OTHER DIMENSION	PRODUCT #	TYPE	1-2 PCS	3+ PCS
36 x 3/4 x 12	Peterson-Berco	Straight	E335127	1	695.26	625.77
36 x 7/8 x 12	300, 350, 350A	Straight	E335128	1	695.26	625.77
36 x 15/16 x 12	350B, 350C & 350D	Straight	E335129	1	695.26	625.77
36 x 1 x 12	Scledum	Rec. 2S 29 x 1/16	E335130	7	721.42	648.86
36 x 1-1/8 x 12	Winona-Van Norman	Rec. 2S 29 x 1/16	E335131	7	721.42	648.86
36 x 1-1/4 x 12	111	Rec. 2S 29 x 1/16	E335132	7	721.42	648.86
36 x 1-3/8 x 12		Rec. 2S 29 x 1/16	E335133	7	803.83	722.98
36 x 1-1/2 x 12		Rec. 2S 29 x 1/8	E335134	7	803.83	722.98
36 x 1-3/4 x 12		Rec. 2S 29 x 1/4	E335135	7	850.50	764.85
36 x 1-7/8 x 12		Rec. 2S 29 x 1/4	E335136	7	967.72	870.39
36 x 2 x 12		Rec. 2S 29 x 3/8	E335437	7	967.72	870.39
36 x 2-1/4 x 12		Rec. 2S 29 x 3/8		7		

**NOTE: Multi/Single Wheel Crankshaft Grinders.** Large Diameter wheels engineered and manufactured to order with custom specifications and requirements. Contact Application Engineering for complete recommendations or contact Customer Service for finishing requirements and quotations.

**NOTE: Recesses, Special Faces or Special Shapes** can be added to fit every crankshaft wheel need. Contact Customer Service for finishing requirements and quotation.

36-1/2 x 1-1/4 x 12	42 x 2 x 12
36-1/2 x 1-1/2 x 12	42 x 2 x 20
40 x 1-1/4 x 12	42 x 2-1/2 x 12
40 x 1-1/2 x 12	42 x 2-3/4 x 12
40 x 1-3/4 x 12	42 x 3 x 12
40 x 2 x 12	42 x 3 x 20
40 x 2-1/2 x 12	42 x 3-1/2 x 12
40 x 2-3/4 x 12	48 x 2-1/4 x 20
42 x 1-1/4 x 12	48 x 2 x 2-1/2 x 12
42 x 1-1/2 x 12	48 x 3 x 12
42 x 1-3/4 x 12	48 x 4 x 12

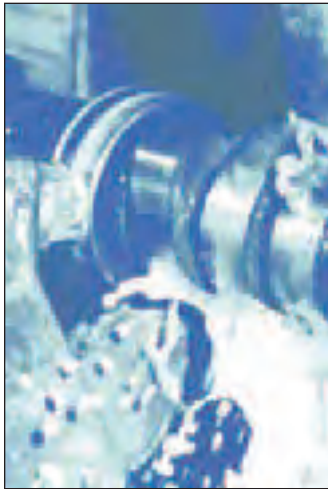
### STANDARD WHEEL SHAPES

**Note:** When ordering, please advise machine, make model number, recess or relieve, 1 or 2 sides. diameter of recess, and/or amount of relief in inches on both sides, as applicable.

	Straight T/1
	Recessed - 1 side T/5
	Recessed - 2 sides T/7
	Hub - 1 side T/57
	Hub - 2 sides T/58
	Relieved - 1 side T/20
	Relieved - 2 sides T/21
	Relieved & Recessed - 1 side T/23
	Relieved & Recessed - 2 sides T/26
	Relieved & Hub 2 sides T/26R

SEE BACK COVER FOR ADDITIONAL SHAPES

**Contact your authorized Radiac Representative for additional information**



**CAM GRINDING** is a form of cylindrical grinding. Most cam grinding machines are custom fitted to the part being ground. In generating camshapes, some

variation in grain and grade can improve the results. Cam grinding wheels are available for both steel and cast.

**WAA**

**WAA54-L5-V1  
MULTI-ABRASIVE**

- Roughing, Finishing Wheel
- Dual Cycle Machines
- Multi-Purpose Vitrified Wheel
- Free Cutting
- Great Durability
- Stock Item

**43A**

**43A602-K8-V1  
PREMIUM ABRASIVE**

- Roughing, Finishing Wheel
- Free Cutting
- Great Durability
- Multi-purpose
- Stock Item

**43A801-K800-VOS  
PREMIUM ABRASIVE**

- Finishing Wheel
- Made to Order

**CAMSHAFT MOUNTING PROCEDURES ON PAGE 56**

DIMENSIONS	MACHINE/MODEL	SPECIFICATION	STYLE	PRODUCT #	TYPE	1-2 PCS	3+ PCS
18 x 3/4 x 6	Van Norman	43A602-K8-V1	Straight	E342030	1	135.31	121.72
18 x 7/8 x 6	253, 254, 255	43A602-K8-V1	Straight	E339945	1	135.31	121.72
18 x 1 x 6	Berco Rac1500	43A602-K8-V1	Straight	E342031	1	135.31	121.72
18 x 1-1/4 x 6	Rac 2130	43A602-K8-V1	Straight	E348558	1	160.81	144.65
18 x 1 x 3	75, 75D, 1165, 1165A	WAA54-L5-V1	Straight	E335336	1	131.01	117.84
18 x 1-1/8 x 3		WAA54-L5-V1	Straight	E335337	1	155.63	139.98
18 x 3/4 x 6		WAA54-L5-V1	Straight	E341420	1	128.89	115.93
18 x 7/8 x 6	Van Norman	WAA54-L5-V1	Straight	E335351	1	128.89	115.93
18 x 1 x 6	253, 254, 255	WAA54-L5-V1	Straight	E335352	1	128.89	115.93
18 x 1-1/8 x 6	Berco Rac1500	WAA54-L5-V1	Straight	E335353	1	153.18	137.78
18 x 1-1/4 x 6	Rac 2130	WAA54-L5-V1	Straight	E335354	1	153.18	137.78

**ADVANCED CAM GRINDING WHEELS**

DIMENSIONS	MATERIAL	SPECIFICATION	APPLICATION	PRODUCT #	TYPE	PRICE
18 x 3/4 x 6	Cast/Steel	WAA100	Finishing	E379225	1	137.56
18 x 7/8 x 6	Cast/Steel	WAA100	Finishing	E397667	1	137.56
18 x 1 x 6	Cast/Steel	WAA100	Finishing	E416878	1	137.56
18 x 1-1/4 x 6	Cast/Steel	WAA100	Finishing	E416183	1	160.46
20 x 7/8 x 6	Cast/Steel	WAA100	Finishing	E416879	1	160.50
18 x 3/4 x 6	Steel Roller	7BL801	Dual Cycle	E416880	1	206.36
18 x 7/8 x 6	Steel Roller	7BL801	Dual Cycle	E388654	1	229.26
20 x 7/8 x 6	Steel Roller	7BL801	Dual Cycle	E416881	1	229.26
18 x 3/4 x 6	Steel Roller	8A80-M922-P4 (Epoxy)	Finishing	0397150	1	206.34

**MADE TO ORDER FOR SIZES 18" TO 48":**  
**Landis Tool Co.** Type S (Dual Cycle) Cam Control Grinder, Type R Cam Grinder  
**Norton Co** Cam-O-Matic #1, #2, #3  
**Warner & Swasey** #3 Cam-O-Matic, Cam-Master, #4 Cam-O-Matic

**Steel Roller Shafts are very difficult to grind. Radiac offers special made to order Vitrified and Plastic Epoxy camshaft wheels that make grinding steel easy. This product is very user friendly. Contact your representative with your requirements.**

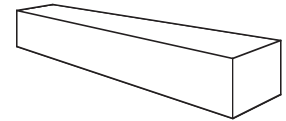
**Radiac has extensive knowledge in Cam and Crank grinding. We have developed wheels for the most recognized companies in America such as Eagle, Scat, Crower, Crane, Cam Motion, Winberg etc. Give us a try!**

*For custom finishing; Recesses, Special Faces or Special Shapes can be added to fit every camshaft wheel. Contact Customer Service for finishing requirements and quotations.*

**Grinding Coolant Page 13**

## Lapping Bricks, Sticks and Stones

DIMENSIONS	SPECIFICATION	PRODUCT USE	PRODUCT #	WHEEL TYPE	PKG QTY	PRICE PER PC
<b>3/8 x 3/4 x 4</b>	WA90-L5-V2	Jointer Stone	F087750	60	20	5.95
	WA240-H-V8	Dresser Stick	F879258	60	20	5.95
<b>1/2 x 1/2 x 4</b>	C24-Q5-VL	Dresser Stick	F087319	60	10	5.55
<b>1/2 x 1/2 x 6</b>	C24-Q5-VL	Dresser Stick	F104841	60	10	6.46
<b>1/2 x 3/4 x 3</b>	WA80-L5-V8	Jointer Stone	F087769	60	20	4.82
<b>1/2 x 3/4 x 4</b>	A100-O5-V1	Jointer Stone	F087203	60	20	6.15
	WA60-L5-V8	Jointer Stone	F087521	60	20	6.60
	WA60-M5-V8	Combo Oil Stone	F087777	60	20	6.60
	WA80-L5-V8	Jointer Stone	F087785	60	20	6.60
	WA90-L5-V2	Jointer Stone	F087700	60	20	6.60
	GC180-L6-VL	Carbide Tool Stone	F086975	60	20	8.89
<b>1/2 x 6</b>	C36-S4-VL	Dresser Stick	7087424	60	10	8.83
<b>3/4 x 3/4 x 4</b>	A100-O5-V1	Jointer Stone	F087270	60	20	7.38
	C180-L6-VL	Jointer Stone	F087815	60	20	10.10
	WA60-L5-V8	Jointer Stone	F087696	60	20	7.99
	WA60-M5-V8	Jointer Stone	F087670	60	20	7.99
	WA80-L5-V1	Jointer Stone	F087491	60	20	7.99
	WA90-L5-V2	Jointer Stone	F087548	60	20	7.99
<b>1 x 1 x 6</b>	C24-Q5-VL	Dresser Stick	F087343	60	10	12.40
<b>1 x 1 x 8</b>	C24-Q5-VL	Dresser Stick	F287415	60	10	15.51
<b>1 x 2 x 6</b>	A320-M-V1	Combo Oil Stone	7086789	60	10	16.08



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.

**Sold in box quantities**

## CBN Surfacing Buttons

**CBN**

**CBN superabrasive** is designed for use on cast iron applications. Our premium quality CBN is one of the most consistent, quickest, coolest cutting surfacing tools used in automotive applications today.

DIA.	THICKNESS	STYLE	PRODUCT #	1 PC	2+ PCS
<b>3/8</b>	<b>1/8"</b>	Single Sided, DCM, Rottler	2X5346	171.42	154.28
<b>3/8</b>	<b>3/16"</b>	Single Sided	2359231	157.45	141.70
<b>3/8</b>	<b>3/16"</b>	Solid	2359232	217.44	195.70
<b>1/2</b>	<b>1/8"</b>	Single Sided, DCM, Rottler	2X5357	182.87	164.58
<b>1/2</b>	<b>1/8"</b>	Solid,	2X5299	205.78	185.20
<b>1/2</b>	<b>3/16"</b>	Single Sided	2359233	191.62	174.20
<b>1/2</b>	<b>3/16"</b>	Special Edge prep diesel heads only	2379268	191.62	174.20
<b>1/2</b>	<b>3/16"</b>	Single Sided w/eyelet screw hole (Sunnen)	2X6144	191.62	174.20



**PCD**

**Poly Crystalline Diamond.** Made of the highest quality industrial diamond. Leaves almost mirror-like finish on aluminum heads. Use PCD to maximize both surface finish and production speeds on aluminum heads.

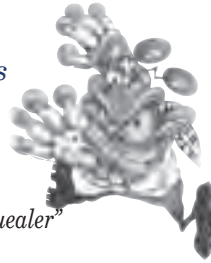
DIA.	THICKNESS	STYLE	PRODUCT #	1 PC	2+ PCS
<b>3/8</b>	<b>3/16"</b>	Single Sided	2379263	181.24	164.75
<b>1/2</b>	<b>1/8"</b>	Single Sided	2379264	205.78	185.20
<b>1/2</b>	<b>3/16"</b>	Single Sided	2379265	205.78	185.20
<b>1/2</b>	<b>3/16"</b>	Single Sided w/eyelet screw hole (Sunnen)	2X6145	191.62	174.20

Use only PCD on Aluminum. Use Only CBN for Cast Iron. Silicon Content in Aluminum will burn CBN cutting edge.

**Resharpener available.**

Increase Profit and Productivity with Flymaster Superabrasive Product. Some competitors will try to pass off a cheap imitation of this fine product. Don't settle for anything but the best. Stick with FlyMaster Products. The Original wheel is made in the USA by Radiac Abrasives.

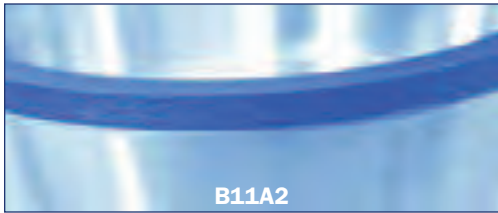
Sparky  
Silences  
"The Squealer"



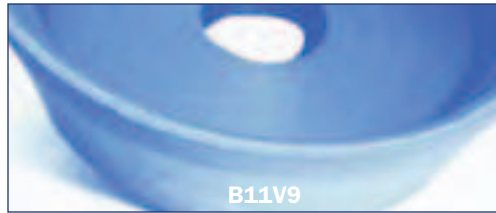
**Flywheel  
Spindle  
Adapter**

Flywheel Spindle Adapter for 2" Superabrasive Cup. Special Adapter for Audi and some VW. Includes Adapter Spindle, Flange and Bolt.

**Product 7401842 84.99**



B11A2



B11V9

**"No Squeal"  
Formula**

**FlyMaster®**

**FLYWHEEL  
SUPERABRASIVES**

Bring your flywheel & floater grinding into the 21st century with the Radiac FlyMaster wheel. Customers report great satisfaction with this product. The magic of this product isn't just the quantity of flywheels or floaters ground, but the speed in the diamond cutting action to reduce grind time and increase profits.



**Instructions for the Radiac  
Superabrasive Wheels**

1. Set the motor spindle 90 degrees to the cutting turntable. Look for cross-hatch pattern in flywheel.
2. Machine must be clean and have fresh water with new charge of coolant 8-10%
3. Never dress your Superabrasive with dresser attachment on your machine.
4. Dress with hand held dresser stick or old piece of flywheel stone only.
5. Flood wheel with coolant to keep cutting edge clean and cool
6. Use very light pressure while cutting.
7. Spark out without pressure for finishing.
8. The dresser stick which is provided can be used to remove light metal loading in wheel if it occurs.

DIMENSIONS		TYPE	PRODUCT #	PRICE
2/1 1/2 x 7/8 x 3/8	CBN†	B11V9	2H0998	99.79
3 x 1 1/4 x 1 1/4	CBN†	B11V9	261453	124.99
3 3/4 / 2 5/8 x 1 1/2 x 1 1/4	CBN†	B11V9	2371052	152.00
5 / 3 3/4 x 1 3/4 x 1 1/4	CBN†	B11V9	2379270	189.84
6 / 4 5/8 x 1 7/8 x 1 1/4*	CBN†	B11V9	2367275	209.80
6 / 4 5/8 x 1 3/4 x 1 1/4	CBN††	B11A2	2G0772	369.00
6 / 4 5/8 x 1 7/8 x 1 1/4	DIAMOND†††	D11V9	2E5742	209.80

**APPLICATION GUIDE FOR FLYWHEEL SUPRERABRASIVES**

\* Most Popular Wheel Application

† CBN light to heavy applications with light to medium flywheel wear.

†† CBN Longlasting design for light to heavy duty applications with light to medium flywheel wear. Grinding Head must be set at 0° so that wheel is in full contact with part all the way around the wheel's cutting surface. Excellent for production grinding.

††† DIAMOND For hard spray coated Floaters and Flywheels

Exceptional quality flywheel product in a wide range of hardness grades to choose from. 100% Abrasive, no fillers.

**CWA**

**SILICON CARBIDE ABRASIVE**

For Popular Machines:

- Ideal for Gray Iron
- Heavy Stock Removal
- Black in Color
- Ideal for Hard Materials
- User Friendly

- Kwik-Way
- Kansas Instruments
- Tobin Arp
- Winona-Van Norman
- Storm Vulcan
- Peterson
- IDL
- DCM

CWA/WA/RA	HARDNESS	
Aggressive Cutting	H	Soft
No Dressing	I	Med. Soft
Good Cutting	J	Med. Hard
Some Dressing/Long Life	K	Hard

**DUCTILE IRON - CAST IRON - STEEL**

DIMENSIONS	HARDNESS	SPECIFICATION	SHAPE	COLOR	PRODUCT #	TYPE	1-2 PCS	3+ PCS
3/2-½ x 1½ x 1¼	Med. Hard	CWA36-K5-B35	Flared	Black	U364512	11	23.78	21.40
3¾/2¾ x 2 x 1¼	Med. Hard	CA24-J5-B35	Flared	Black	U360974	11	27.94	25.14
4/3 x 2 x 1¼	Soft	CWA36-H5-B35	Flared	Black	U335368	11	35.01	31.48
	Med. Soft	CWA36-I5-B10	Flared	Black	U335369	11	35.01	31.48
	Med. Hard	CWA36-J5-B10	Flared	Black	U335370	11	35.01	31.48
	Hard	CWA36-K5-B10	Flared	Black	U335372	11	35.01	31.48
6/4¼ x 2¾ x 1¼	Soft	CWA36-H5-B35	Flared	Black	U324494	11	41.10	36.97
	Med. Soft	CWA36-I5-B35	Flared	Black	U324495	11	41.10	36.97
	Med. Hard	CWA36-J5-B35	Flared	Black	U335376	11	41.10	36.97
	Hard	CWA36-K5-B35	Flared	Black	U335377	11	41.10	36.97
	Med. Soft	CA24-I5-B35	Flared	Black	U357854	11	41.10	36.97
	Med. Hard	CA24-J5-B35	Flared	Black	U343805	11	41.10	36.97
<i>Extended Life Ceramic</i>	Med. Hard	8CAX24 Ceramic	Flared	Black	U397903	11	53.53	51.17
<i>Extended Life</i>								
6/4¼ x 3 x 1¼	Med. Hard	CA24-J5-B35T	Flared	Black	U370095	11	62.11	55.88

**WA**

**PREMIUM WHITE ALUMINUM OXIDE**

- Cool Cutting
- Good for Finish Grinding
- Good for Heat Sensitive Materials
- Light/Medium Stock Removal
- White in color

*Arbor Reducing Bushings available for Van Norman 570*

**MILD STEEL - HARDENED STEEL**

DIMENSIONS	GRADE	SPECIFICATION	SHAPE	COLOR	PRODUCT #	TYPE	1-2 PCS	3+ PCS
4/3 x 2 x 1¼	Soft	WA36-H5-V8	Flared	White	F335364	11	29.08	26.18
	Medium	WA36-I5-V8	Flared	White	F335365	11	29.08	26.18
6/4¼ x 2¾ x 1¼	Soft	WA36-H5-V8	Flared	White	F342636	11	44.95	40.42
	Medium	WA36-I5-V8	Flared	White	F335373	11	44.95	40.42

**RA**

**PREMIUM RUBY**

- Tough Abrasive
- Long Life
- Light/Medium Stock Removal
- Red in color

DIMENSIONS	HARDNESS	SPECIFICATION	SHAPE	COLOR	PRODUCT #	TYPE	1-2 PCS	3+ PCS
4/3 x 2 x 1¼	Med. Soft	RA36-H5-V8	Flared	Ruby	F348768	11	29.99	26.98
	Med.	RA36-I5-V8	Flared	Ruby	F348769	11	29.99	26.98
	Hard	RA36-J5-V8	Flared	Ruby	F348770	11	29.99	26.98
6/4¼ x 2¾ x 1¼	Soft	RA36-G7-V8	Flared	Ruby	F372039	11	46.33	41.65
	Med. Soft	RA36-H5-V8	Flared	Ruby	F348771	11	46.33	41.65
	Med.	RA36-I5-V8	Flared	Ruby	F348772	11	46.33	41.65
	Hard	RA36-J5-V8	Flared	Ruby	F348773	11	46.33	41.65



## RESTORE CLUTCH PEDAL TRAVEL WITH FLYWHEEL SAVER SHIMS

Several makes and models of vehicles have non-adjustable linkages. After grinding the flywheel must be put back in the original location. These saver shims install between the crank flange and the flywheel to restore clutch pedal travel. Shims listed with a diamond shape next to the thickness can be stacked up to .075 thick. **\$9.26 ea.**

CHRYSLER	NOTE	THICK.	SHIM #	NUMBER #
3.7 (225ci), 3.9 (238ci), 4.0 (Jeep)	◆	.025"	SY852-25-B	7388100
5.2 (318ci), 5.6 (340ci), 5.8, 5.9 (360ci)	◆	.050"	SY852-50-B	7388101
6.3 (383ci), 6.5, 7.2				
FORD				
1.3, 2.0, 2.8, 2.9, 4.0 (6 hole)		.025"	SF629-25	7388102
		.050"	SF629-50	7388103
3.0, 4.0, 4.6, 5.4 (8 hole)		.025"	SF340-25	7415320
1.6, 1.9, 2.0, 2.3, 3.0,	◆	.025"	SF468-25-B	7388104
3.3, 3.1, 3.3, 3.4, 3.8,	◆	.050"	SF468-50-B	7388105
3.9, (420ci), 4.1 (250ci), 4.2 (255ci),				
4.6, 4.7 (289ci), 4.9 (300ci),				
5.0 (392ci), 5.4, 5.8 (351ci), (6 hole)				
5.7 (352ci), 5.9 (360ci), 6.4 (390ci),		.025"	SF460-25-B	7388106
6.9 Diesel (420ci), 7.0 (427ci),				
7.3, 7.5 (460ci)		.050"	SF460-50-B	7388107
GENERAL MOTORS				
2.0, 2.2, 2.3, 2.5, 2.8, 3.1	◆	.025"	SG-628-25-B	7388108
	◆	.050"	SG-628-50-B	7388109
3.0, 3.2, 3.3, 3.7 (225ci Buick),	◆	.025"	SC-857-25	7388110
3.8, 4.6 (283ci), 5.0 (305/307ci),	◆	.050"	SC-857-50	7388111
5.3, 5.4 (327ci), 5.7 (350ci), 6.0 (366ci),				
6.2 diesel (378), 6.5 (396ci), 6.6 (400ci),				
6.7 (402ci), 7.0 (427ci), 7.3, 7.4 (454ci), 8.1				
2.0, 3.8, 4.3		.025"	SG643-25	7388112
		.050"	SG643-50	7388113
HONDA				
1.2, 1.3, 1.5, 1.6,		.025"	SH40-25	7388118
2.0, 2.2, 2.3, 2.7		.050"	SH40-50	7388119
JEEP				
2.5 (GM engine)		.025"	SG-628-25-B	7388108
		.050"	SG-628-50-B	7388109
MAZDA				
1.2, 1.3, 1.5, 1.6, 1.8, 1.9,		.025"	SM-420-25	7388122
2.0, 2.2, 2.4, 2.7, 3.0		.050"	SM-420-50	7388123
MITSUBISHI & CHRYSLER				
1.4, 1.5, 1.6, 1.8, 2.4,		.025"	SY-4625	7388114
2.2, 2.4, 2.5, 2.6, 3.0, 3.3,		.050"	SY-4650	7388115
NISSAN, HYUNDAI				
1.5, 1.6, 1.8, 2.0, 2.2, 2.4,		.025"	SN-418-25	7388120
2.6, 2.8, 3.0 ex V-6		.050"	SN-418-50	7388121
HONDA & TOYOTA				
1.5, 1.6, 1.8, 1.9, 2.0,		.025"	ST-4625	7388114
2.2, 2.3, 2.4, 2.6, 3.0		.050"	ST-4650	7388115

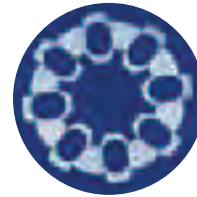
Note: Shims marked with this symbol (◆) in the table can be stacked to a total thickness of .075



CHRYSLER  
SY852



FORD  
SF468



FORD  
SF340



FORD  
SF629



FORD  
SF460B



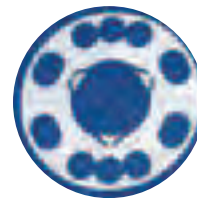
GM SMALL  
& MIDSIZE  
SG628



GM FULL SIZE  
SC857



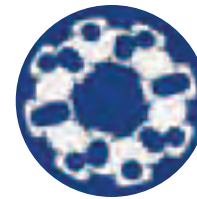
MAZDA  
SM420



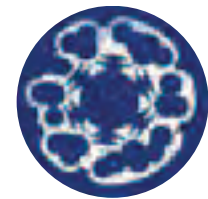
HONDA  
SH40



NISSAN/Hyundai  
SN418



TOYOTA  
ST4625



TOYOTA  
SY4625

**Buy 10 or more and receive 10% Off**





*This is the Good Stuff!!!*

### Grinding Coolant Additive

- Crank
- Cam
- Flywheel
- Belt
- Segmented
- Platemounted Surfacing



Radiac 100 metalworking fluid is an extremely low-foaming synthetic, which is free of mineral oil, phenols, mercurials, phosphates, PCB's, nitrite and diethanol-nitrosamine. Excellent rust inhibitor and prohibits bacterial growth.

SIZE	COLOR	PRODUCT #	PKG QTY	PRICE EACH
1 Gallon	Pink	7381957	1	37.28
5 Gallon	Pink	7381958	1	129.25

### Dowel Pin Puller Kits

STYLE	PRODUCT #	PKG QTY	1 KIT
Standard	7381959	1	191.40
Metric	7381960	1	191.40
Collet Closer Replacement	7411115	1	30.34



### Dowel Pin Replacement Collets

SIZE	PRODUCT #	PKG QTY	1 PC	
3/16"	.188	7381961	1	32.75
1/4"	.250	7381962	1	32.75
5/16"	.312	7381963	1	32.75
3/8"	.375	7393346	1	32.75
7/16"	.437	7393347	1	32.75
1/2"	.500	7411108	1	32.74
9/16"	.562	7411109	1	32.74
5/8"	.625	7411110	1	32.74
11/16"	.687	7411112	1	32.74
.600	.600	7400004	1	32.75
.675	.675	7411111	1	32.74
.735	.735	7411113	1	32.74
4mm	.157	7381964	1	32.75
5mm	.197	7381965	1	32.75
6mm	.236	7393344	1	32.75
7mm	.275	7400005	1	32.75
8mm	.315	7393345	1	32.75
10mm	.393	7400006	1	32.75
12mm	.472	7400007	1	32.75
14mm	.552	7400008	1	32.75

### Dowel Pin Puller Kits

Standard Kit contains collets for 1/4, 5/16, 3/8, and 7/16" dowel pins. Metric Kit contains collets for 4, 5, 6 and 8mm dowel pins. Add Collets to your kit from the listing below. Quality built pin remover.



#### Fast dowel pin removal

Top quality tool gives years of dependable use. Slide hammer action removes stubborn dowels. Split collets grip firmly without damage. Use on blocks, heads, flywheels, etc.

Dowel Puller kits include sliding weight, collet closer, release stand, main shaft, 4 collets, 1/4", 5/16", 3/8" and 7/16". Packed in a sturdy plastic storage box.

## Valve Guide Reconditioning



### +0.030 Carbide Boring Reamer Assembly

Specially designed carbide fluted boring assembly for reaming valve guides prior to bronze guide liner installation. A quality tool with long life. 9" Over all length. Assembly contains: 1 Carbide Reamer, 1 Reamer Bushing, 1 Spring, 1 Retaining Collar.



SIZE	PRODUCT #	PRICE
5.5mm	7389684	113.29
6mm	7389685	113.29
7mm	7389687	113.29
5/16"	7389688	113.29
8mm	7389689	113.29
11/32"	7389690	113.29
3/8"	7389691	113.29

### 45° Seat Centering Cones for Guide Boring

Use with guide boring assembly to center valve seat with the guide being bored. Black oxide coated to prevent rusting.

SIZE	BUSHING #	PRODUCT #	PRICE
1"	SB-100	7389807	36.04
1-3/8"	SB-138	7389808	36.04
1-1/2"	SB-112	7389809	36.04
1-5/8"	SB-158	7389810	36.04
1-3/4"	SB-134	7389811	36.04
1-7/8"	SB-178	7389812	36.04
2"	SB-200	7389813	36.04
2-1/4"	SB-214	7389814	36.04
2-1/2"	SB-212	7389815	36.04

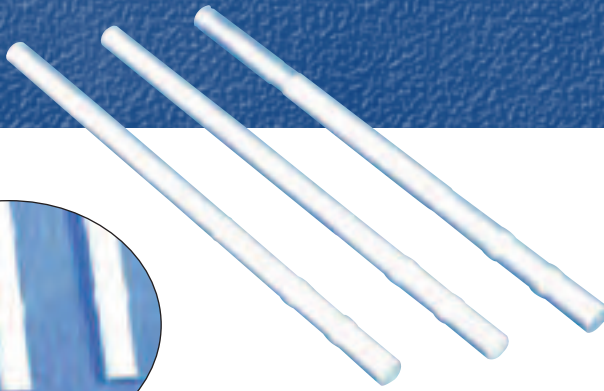
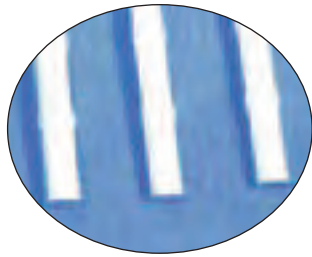


### Bronze Bullet Guide Liners

The simplest and most economical guide reconditioning method used. These bullet nosed liners make installation quick and easy and eliminate the need to chamfer the guide I.D. The interrupted I.D. spiral feature holds the lubrication in the guide to reduce valve stem and guide wear. For all Aluminum and cast iron cylinder heads.

I.D.	O.D.	LENGTH	REFERENCE #	PRODUCT #	BOX QTY	PRICE
5.5mm /.216"	+0.030"	2.250	KL1857STA	7389667	100	76.91
6mm /.236"	+0.030"	2.250	KL1856STA	7389668	100	76.91
6mm /.238"	+0.030"	2.000	KL1906STA	7396235	100	76.91
7mm /.277"	+0.030"	2.500	KL1850STA	7389670	100	76.91
7mm /.278"	+0.030"	1.800	KL1903STA	7396236	100	76.91
5/16" /.312"	+0.030"	3.125	KL1840STA	7389671	100	80.33
5/16" /.313"	+0.030"	2.500	KL1933STA	7396237	100	77.22
8MM /.314"	+0.030"	2.500	KL1997STA	7396238	100	77.22
8MM /.315"	+0.030"	2.500	KL1939STA	7389672	100	77.22
8MM /.316"	+0.030"	2.500	KL1851STA	7389673	100	77.22
8MM /.317"	+0.030"	2.500	KL1940STA	7396239	100	77.22
11/32" /.339"	+0.030"	2.250	KL1948STA	7389674	100	79.30
11/32" /.339"	+0.030"	2.500	KL1961STA	7389675	100	79.30
11/32" /.341"	+0.030"	2.400	KL1983STA	7396240	100	79.30
11/32" /.342"	+0.030"	2.400	KL1932STA	7396241	100	79.30
11/32" /.343"	+0.030"	2.250	KL1958STA	7389676	100	79.30
11/32" /.343"	+0.030"	2.500	KL1923STA	7389677	100	79.30
11/32" /.343"	+0.030"	3.125	KL1841STA	7389678	100	82.37
11/32" /.344"	+0.030"	2.400	KL1934STA	7389679	100	79.30
11/32" /.344"	+0.030"	2.500	KL1921STA	7389680	100	79.30
3/8" /.368"	+0.030"	2.500	KL1976STA	7396242	100	81.34
3/8" /.370"	+0.030"	2.500	KL1970STA	7396243	100	81.34
3/8" /.371"	+0.030"	2.500	KL1985STA	7396244	100	81.34
3/8" /.373"	+0.030"	2.500	KL1977STA	7417692	100	82.37
3/8" /.374"	+0.030"	2.500	KL1974STA	7389682	100	81.34
3/8" /.374"	+0.030"	3.000	KL1842STA	7389683	100	82.37
3/8" /.375"	+0.030"	2.500	KL1975STA	7396245	100	81.34

**3 or More Boxes - 10% Off**



## Ball Broach - Bronze Liner Sizing Tool

A fast and simple method for sizing the inside diameter on bronze liners. These tool steel sizing broaches are hard chrome plated for long life and durability. Light lubing with Mirror Finish® will increase tool life. Page 26.

SIZE	BROACH SIZE	REFERENCE#	PRODUCT #	PRICE	
5.5mm	.217"	KL5808	7389692	40.33	
	.2175"	KL5809	7389693	40.33	
	.218"	KL5810	7389694	40.33	
	.2185"	KL5811	7389695	40.33	
6mm	.237"	KL5815	7389696	40.33	
	.2375"	KL5816	7389697	40.33	
	.238"	KL5817	7389698	40.33	
	.2385"	KL5818	7389699	40.33	
7mm	.276"	KL5835	7389704	40.33	
	.277"	KL5836	7389705	40.33	
	.278"	KL5837	7389706	40.33	
	.278"	KL5837	7389706	40.33	
5/16"	.311"	KL5843	7389707	40.33	
	.312"	KL5844	7389708	40.33	
	.313"	KL5845	7389709	40.33	
	.314"	KL5846	7389710	40.33	
8mm	.315"	KL5847	7389711	40.33	
	.316"	KL5848	7389712	40.33	
	.317"	KL5849	7389713	40.33	
	.318"	KL5850	7389714	40.33	
	.319"	KL5851	7401040	40.33	
	.319"	KL5851	7401040	40.33	
11/32"	.339"	KL5853	7391621	43.20	
	.340"	KL5854	7391622	43.20	
	.341"	KL5855	7391623	43.20	
	.342"	KL5856	7391624	43.20	
	.3435"	KL5857	7389715	43.20	
	.3445"	KL5858	7389716	43.20	
	.345"	KL5889	7389717	43.20	
	.3455"	KL5859	7389718	43.20	
	3/8"	.371"	KL5870	7389719	45.40
		.372"	KL5871	7389720	45.40
.373"		KL5869	7389721	45.40	
.374"		KL5872	7389722	45.40	
.3745"		KL5892	7389723	45.40	
.375"		KL5873	7389724	45.40	
.3755"		KL5893	7389725	45.40	
.376"		KL5874	7389726	45.40	
.377"		KL5890	7389727	45.40	



## Fluted Bronze Liner Trimming Tool

Fluted trimming tool for cutting excess bronze liner from the top and bottom of the guide. The fluted end is made so you can change pilots in and out for the correct application.

SHANK	FACE O.D.	PILOT HOLE	FOR LINER	PRODUCT #	PRICE
3/8"	5/8"	3/16"	5.5mm thru 3/8	7390692	66.92



## Fluted Bronze Liner Trimming Tool Pilots

SHANK O.D.	PILOT O.D.	FOR LINER	PRODUCT #	PRICE
3/16"	.213	5.5mm	7390693	14.45
3/16"	.233	6mm	7396248	14.45
3/16"	.270	7mm	7396249	14.45
3/16"	.309	5/16, 8mm	7390695	14.45
3/16"	.336	11/32	7390696	14.45
3/16"	.366	3/8	7390697	14.45



## Bronze Liner Removal Tool

The most widely used tool for removal of guide liners. Specially designed piloted end allows the removal tool to move through the guide without fear of damaging the existing guide.

SIZE	PRODUCT #	PRICE
5.5mm	7389735	30.89
7mm	7389737	30.89
5/16	7389738	30.89
8mm	7389739	30.89
11/32	7389740	30.89
3/8	7389741	30.89

**Guide Liner Installation Kits**

**Guide Liner Installation Kits**

These installation kits provide the basic tooling needed to Install, Size, Trim, and Remove Bronze Liners. You can add tooling to these kits to expand your sizing capabilities and needs. Kit comes in a hard plastic case for easy storage.



KIT SIZE	CONTENTS	PRODUCT #	COMPONENT DESCRIPTION	
<b>5.5mm</b>	1	7389684	Boring Reamer Assembly	
	1	7389692	.217" Ball Broach	
	1	7389693	.2175" Ball Broach	
	1	7389694	.218" Ball Broach	
	KIT PT#	1	7389695	.2185 Ball Broach
	401.69	1	7389816	Liner Auto Installer
		1	7390692	Liner Trim Tool
		1	7389735	Liner Removal Tool

<b>6mm</b>	1	7389685	Boring Reamer Assembly	
	1	7389696	.237" Ball Broach	
	1	7389697	.2375" Ball Broach	
	1	7389698	.238" Ball Broach	
	KIT PT#	1	7389699	.2385 Ball Broach
	401.69	1	7389817	Liner Auto Installer
		1	7390692	Liner Trim Tool
		1	7389736	Liner Removal Tool

<b>7mm</b>	1	7389687	Boring Reamer Assembly	
	1	7389704	.276" Ball Broach	
	1	7389705	.277" Ball Broach	
	1	7389706	.278" Ball Broach	
	KIT PT#	1	7389818	Liner Auto Installer
	391.39	1	7390692	Liner Trim Tool
		1	7396249	Trim Tool Pilot
		1	7389737	Liner Removal Tool

KIT SIZE	CONTENTS	PRODUCT #	COMPONENT DESCRIPTION	
<b>8mm</b>	1	7389689	Boring Reamer Assembly	
	1	7389711	.315" Ball Broach	
	1	7389712	.316" Ball Broach	
	1	7389713	.317" Ball Broach	
	KIT PT#	1	7389714	.318" Ball Broach
	432.59	1	7401040	.319" Ball Broach
		1	7389819	Liner Auto Installer
		1	7390692	Liner Trim Tool
		1	7390695	Trim Tool Pilot
		1	7389739	Liner Removal Tool

<b>5/16"</b>	1	7389688	Boring Reamer Assembly	
	1	7389707	.311" Ball Broach	
	1	7389708	.312" Ball Broach	
	1	7389709	.313" Ball Broach	
	KIT PT#	1	7389710	.314" Ball Broach
	406.84	1	7389819	Liner Auto Installer
		1	7390692	Liner Trim Tool
		1	7390695	Trim Tool Pilot
		1	7389738	Liner Removal Tool

<b>11/32"</b>	1	7389690	Boring Reamer Assembly	
	1	7389715	.3435" Ball Broach	
	1	7389716	.3445" Ball Broach	
	1	7389717	.345" Ball Broach	
	KIT PT#	1	7389718	.3455" Ball Broach
	406.84	1	7389820	Liner Auto Installer
		1	7390692	Liner Trim Tool
		1	7390696	Trim Tool Pilot
		1	7389740	Liner Removal Tool

<b>3/8"</b>	1	7389691	Boring Reamer Assembly	
	1	7389719	.371" Ball Broach	
	1	7389720	.372" Ball Broach	
	1	7389721	.373" Ball Broach	
	1	7389722	.374" Ball Broach	
	1	7389723	.3745" Ball Broach	
	1	7389724	.375" Ball Broach	
	1	7389725	.3755" Ball Broach	
	1	7389726	.376" Ball Broach	
	1	7389727	.377" Ball Broach	
	KIT PT#	1	7389821	Liner Auto Installer
	572.99	1	7390692	Liner Trim Tool
		1	7390697	Trim Tool Pilot
		1	7389741	Liner Removal Tool

**Prices Reflect 10% Off  
For Package Deal**

**H.S.S. VALVE GUIDE CORE DRILL**

SHANK DRIVE	O.D. X PILOT	MACHINE	DRILL #	PRODUCT #	PRICE
	.4687 x 11/32"	Pet./Kwik/K.I./K.O./DCM.	K4196	7389782	72.09
	.492 x 11/32"	Pet./Kwik/K.I./K.O./DCM.	K4211	7389780	72.09
	.5312 x 11/32"	Pet./Kwik/K.I./K.O./DCM.	K4061	7389783	72.09
	.5937 x 7/16"	Pet./Kwik/K.I./K.O./DCM.	K4200	7389784	81.35
	.615" x 7/16"	Pet./Kwik/K.I./K.O./DCM.	K4220	7389781	72.09
	.475 x 5/16"	I.D.L. / VN	K1758	7389785	72.09
	.475 x 11/32"	I.D.L. / VN	K1762	7389786	72.09

**High Speed Steel  
Valve Guide Core Drills**

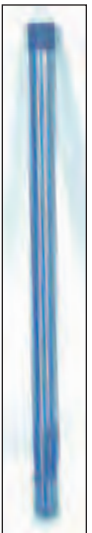
Piloted core drill for installation of cast iron or solid bronze valve guides. Finish I.D. final sizing with valve guide O.D. Reamer.


**High Speed Steel  
Combination  
Core Drill  
& Reamer**

Drills and reams with one pass. Piloted core drill for installation of cast iron or solid bronze valve guides.


**High Speed Steel  
Valve Guide  
O.D. Reamers**

Use this reamer after using the core drill to finish the I.D. of the guide hole for proper guide fit.


**H.S.S. VALVE GUIDE COMBINATION CORE DRILL & REAMER**

SHANK DRIVE	O.D. X PILOT	MACHINE	DRILL #	PRODUCT #	PRICE
	.500 x 5/16"	Winona	CDR-6054	7389787	109.18
	.500 x 11/32"	Winona	CDR-6055	7389788	109.18
	.500 x 3/8"	Winona	CDR-6056	7389789	109.18
	.500 x 5/16"	Pet./Kwik/K.I./K.O./DCM.	CDR-6195	7389790	109.18
	.500 x 11/32"	Pet./Kwik/K.I./K.O./DCM.	CDR-6196	7389791	109.18
	.500 x 3/8"	Pet./Kwik/K.I./K.O./DCM.	CDR-6197	7389792	109.18
	.500 x 5/16"	Serdi	CDR-7195	7389793	109.18
	.500 x 11/32"	Serdi	CDR-7196	7389794	109.18
	.500 x 3/8"	Serdi	CDR-7197	7389795	109.18
	.500 x 5/16"	I.D.L. / VN	CDR-6761	7391625	109.18
	.500 x 3/8"	I.D.L. / VN	CDR-6763	7391627	109.18

**H.S.S. VALVE GUIDE O.D. REAMERS**

SHANK DRIVE	SIZE	MACHINE	DRILL #	PRODUCT #	PRICE
	.437"	Kwik / K.O. Lee / DCM	KL4206	7389796	65.92
	.500"	Peterson / K.I.	KL4198	7389797	65.92
	.500"	I.D.L. / VN	KL1764	7389798	67.98
	.500"	Winona	KL4057	7389799	67.98

**VALVE GUIDE KNURLING ARBORS**

SIZE	ARBOR #	PRODUCT #	PRICE
6mm / .236"	KL1081	7389800	65.92
7mm / .275"	KL1082	7389802	65.92
5/16" / .312"	KL1088	7389803	67.98
11/32" / .343"	KL1089	7389804	72.09
9mm / .354"	KL1084	7389805	72.09
3/8" / .375"	KL1091	7389806	72.09

**BRONZE LINER AUTO  
INSTALLER**

SIZE	PRODUCT #	PRICE
5.5mm	7389816	61.79
6mm	7389817	61.79
7mm	7389818	61.79
5/16" / 8mm	7389819	61.79
11/32"	7389820	61.79
3/8"	7389821	61.79

**Cast Iron Valve  
Guide Knurling Arbors**

Each arbor is piloted for self centering in the worn guide. Arbors are made of the finest tool steel for long life and durability. Always clean the arbor free of chip after each pass through the guide and always coat the arbor with a lubricant before using on each guide. Never use these arbors on chilled, hardened, or bronze valve guides. Made for 1/4" drive speed reducers.

**Bronze Liner Auto Installer**

Use with air hammer to quickly install liners to proper depth. Specially designed tool holds liner prior to installation. Black oxide coated to help prevent rusting.



Bronze Liner  
Installer



**Pneumatic Driver for Guide Liner Removal Tool & Ball Broaches**

Used with air hammer to drive ball broaches and guide liner removal tools. Black oxide coated to prevent rusting.

SIZE	PRODUCT #	PRICE
5.5mm - 8mm	7389742	22.65
11/32" - 7/16"	7389743	24.71

**Pneumatic Valve Guide Drivers**

Used with air hammer to remove existing cast iron or bronze valve guides. Black oxide coated to help prevent rusting.

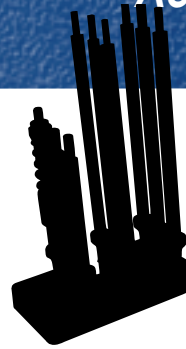


GUIDE I.D.	METRIC/FRACTION	DRIVER O.D.	PILOT	PRODUCT #	PRICE
.2165"	5.5mm	.412"	.205"	7389744	14.41
.236"	6mm	.433"	.225"	7389745	14.41
.260"	6.5mm	.463"	.248"	7389746	14.41
.275"	7mm	.432"	.260"	7389747	14.41
.312"	5/16"	.423"	.304"	7389749	14.41
.315"	8mm	.462"	.307"	7389748	14.41
.343"	11/32"	.487"	.337"	7389750	14.41
.375"	3/8"	.487"	.367"	7389751	14.41

**Extended Length (7-1/2") Pneumatic Valve Guide Drivers**

GUIDE I.D.	METRIC/FRACTION	DRIVER O.D.	PILOT	PRODUCT #	PRICE
.2165"	5.5mm	.412"	.205"	7397541	15.99
.236"	6mm	.433"	.225"	7397542	15.99
.260"	6.6mm	.463"	.248"	7397543	15.99
.275"	7mm	.432"	.260"	7397544	15.99
.312"	5/16"/8mm	.423"	.304"	7397545	15.99
.315"	11/32"	.462"	.307"	7397546	15.99
.343"	3/8"	.487"	.337"	7397547	15.99

*Buy 3 or More and Receive 10% Off.*



**Driver Organizers**

Choose the style that suits your shop: wall hanging or bench top. Durable construction to protect your tools.

DESCRIPTION	MODEL	PRODUCT #	PRICE
Wall Rack Organizer	G200	7397549	27.80
Table Top Organizer	VG100	7397550	27.80



**H.S.S. Valve Guide Reamers**

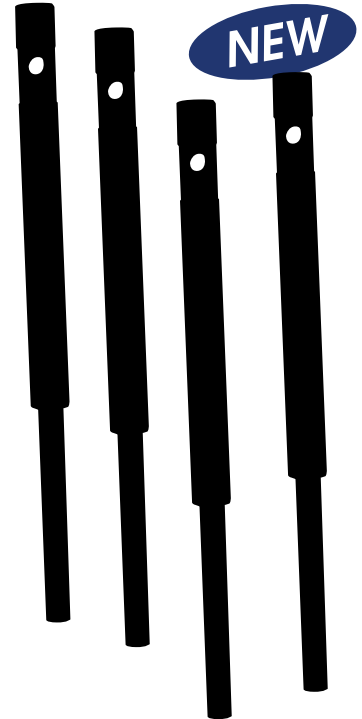
High quality reamers made with the finest tool steel and hardened for long life. Reamers are piloted for self centering in the worn valve guide. 1/4" square top drive incorporated into the reamer for speed reducer.

SIZE	DECIMAL	METRIC/FRACTION	REAMER #	PRODUCT #	PRICE
.216"		5.48mm	K1185	7389752	36.04
.217"		5.51mm	K1063	7389753	36.04
.236"		6.00mm	K1110	7389754	36.04
.260"		6.60mm	K1173	7389755	36.04
.275"		6.99mm	K1111	7389756	36.04
.276"		7.01mm	K1214	7389757	36.04
.310"		7.87mm	K1116	7389758	37.07
.311"		7.90mm	K1117	7389759	37.07
.312"		5/16"	K1118	7389760	37.07
.313"		7.95mm	K1176	7389761	37.07
.314"		7.97mm	K1177	7389762	37.07
.315"		8.00mm	K1112	7389763	37.07
.316"		8.03mm	K1174	7389764	37.07
.317"		8.05mm	K1175	7389765	37.07
.342"		8.69mm	K1120	7389766	39.12
.343"		8.71mm	K1121	7389767	39.12
.3435"		11/32"	K1180	7389768	39.12
.344"		8.74mm	K1122	7389769	39.12
.372"		9.45mm	K1125	7389770	40.16
.373"		9.47mm	K1126	7389771	40.16
.374"		9.50mm	K1127	7389772	40.16
.375"		3/8"	K1128	7389773	40.16
.376"		9.55mm	K1139	7389774	40.16
.393"		9.98mm	K1205	7389775	41.18
.433"		11.00mm	K1114	7389776	41.18
.453"		29/64"	K1165	7389778	45.31
.472"		11.98mm	K1135	7389779	46.34

*Buy 3 or more and receive 10% Off*

## Sioux Tapered Pilots

- Solid Tapered Pilots
- Sioux .385 Top O.D.
- Precision Ground
- High Quality
- High Speed Steel



SIZE DECIMEL	PILOT #	PRODUCT #	PRICE
.157	T 157	7399714	39.03
.158	T 158	7407857	39.03
.177	T 177	7399715	39.03
.196	T 196	7399716	36.97
.197	T 197	7399717	36.97
.198	T 198	7399718	36.97
.216	T 216	7399719	36.97
.217	T 217	7399720	36.97
.235	T 235	7399721	36.97
.236	T 236	7399722	36.97
.237	T 237	7399723	36.97
.238	T 238	7400844	36.97
.239	T 239	7400845	36.97
.250	T 250	7399724	36.97
.251	T 251	7399725	36.97
.260	T 260	7399726	36.97
.261	T 261	7399727	36.97
.275	T 275	7399728	36.97
.276	T 276	7399729	36.97
.277	T 277	7399730	36.97
.278	T 278	7399731	36.97
.309	T 309	7427891	36.97
.310	T 310	7399732	36.97
.311	T 311	7399733	36.97
.312	T 312	7399734	36.97

SIZE DECIMEL	PILOT #	PRODUCT #	PRICE
.313	T 313	7399735	36.97
.314	T 314	7399736	36.97
.315	T 315	7399737	36.97
.316	T 316	7399738	36.97
.317	T 317	7399739	36.97
.340	T 340	7399740	36.97
.341	T 341	7399741	36.97
.342	T 342	7399743	36.97
.343	T 343	7399744	36.97
.344	T 344	7399745	36.97
.345	T 345	7399746	36.97
.353	T 353	7399748	36.97
.354	T 354	7399749	36.97
.355	T 355	7399750	36.97
.357	T 357	7399751	36.97
.358	T 358	7399752	36.97
.371	T 371	7399753	36.97
.372	T 372	7399754	36.97
.373	T 373	7399755	36.97
.374	T 374	7399756	36.97
.375	T 375	7399757	36.97
.376	T 376	7399758	36.97
.377	T 377	7399759	36.97
.393	T 393	7399742	36.97
.394	T 394	7399761	36.97

**NEW** Seat Wheel Dresser Pilot .385 Sioux 7420363 \$36.97

*Buy 3 or More and Receive 10% Off*

## Pneumatic Seat Wheel Driver

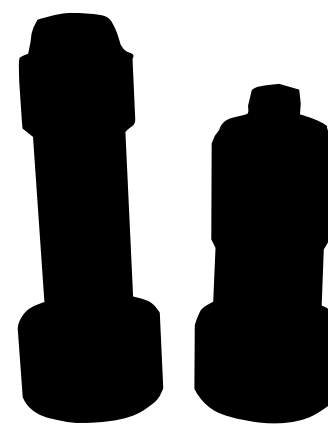
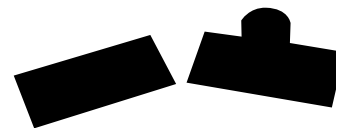
User friendly seat stone driver. Built-in air adjust in the handle to regulate spindle speed. Very easy to operate and lightweight. Sioux style High Speed Driver for wheels up to 2-1/2" O.D.



MODEL	PRODUCT #	PRICE
Pneumatic Seat Wheel Driver	7413714	298.69

## Seat Stone Removers

MACHINE	PRODUCT #	PRICE
Sioux 1672, 1702, 1703	7396250	19.99
Kwikway 3056	7396251	19.99



SIoux KWIKWAY

## Valve Seat Wheel Holders for Seat Grinding

Valve Seat Holders are hardened and precision ground. Ball bearing stone holders are designed to fit your valve seat driver. OEM made. Superior quality construction and built to last.

SIZE	THREAD	PILOT TOP O.D.	PRODUCT #	PKG QTY	EACH
Short Sioux 1672	11/16 - 16	.385	7413704	1	92.69
Tall Sioux 1702	11/16 - 16	.385	7381966	1	97.86
Kwikway 3056	13/16 - 13	.437	7381967	1	154.49
Sioux 1703	7/8 - 14	.572	7413897	1	205.99

*Buy 2 or More Holders and Receive 30% Off Stone Removers*

## Parts Washer And Hot Tank Cleaning Baskets

**SMALL PARTS KEEPER** - Model K2, Model K4 for very Small Parts. Excellent for Retainers, Valve Locks, etc.

**SINGLE BASKET** - Model G-40FH Small Parts Washer Basket with Handle. Excellent for Rockers, Springs, Retainers and other small parts.

**BASKET LID** - Model G-40FHL Lid for Small Parts Washer Basket.

SIZE	PRODUCT#	PRICE
K-2	7397552	8.23
K-4	7397553	10.70
G-40FH Basket W/handle	7397554	11.53
G-40FHL Lid for basket	7397555	6.17

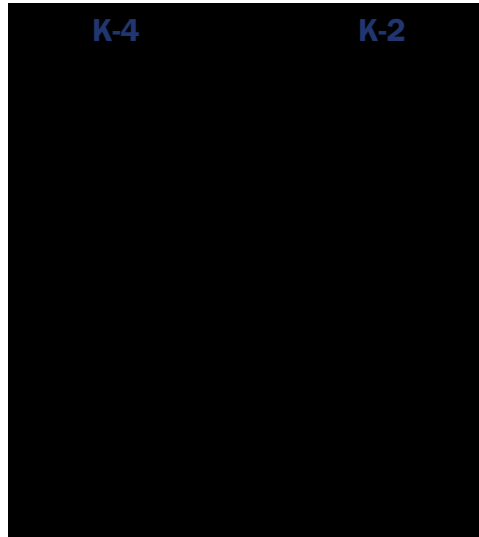
**Buy 1 of Each and Receive 10% Off**

## Assembly Lube

This product is simply the best multipurpose Assembly Lube available today. High Teflon content protects bearings, wrist pins and valve stems during initial start up of your engine. Good for assembly of all applications.

*A Great Product!*

SIZE	PRODUCT #	PRICE
2 oz. Bottle	7397556	5.14
8 oz. Bottle	7397557	13.38



**G40FH BASKET**



## Sioux Refacer Chuck Bullets

Three per set.

Replacement Bullets for OEM Sioux Valve Grinder

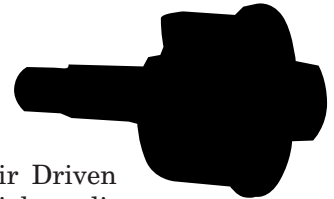


MACHINES	RANGE	PRODUCT #	PRICE
620/622/624/645			
680/2001/2075	.230 - .687	7416379	92.69
2001SM/2075SM	.170 - .500	7416380	113.29

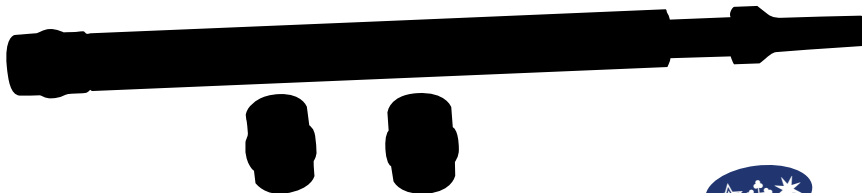
## Sioux Driver Rebuild Parts

**Reduce Runout and Vibration for better seat finishes**

Rebuild your Sioux Electric or Air Driven Seat Grinding Driver with these high quality spindle and bearing replacement parts.



MACHINE	DESCRIPTION	PRODUCT #	PRICE
1710 Electric	Spindle Drive	7400371	69.00
1710 Electric	Bearing Cap	7400372	31.82
1792 Air	Spindle Drive	7400373	79.61
1792 Air	Bearing Cap	7400374	42.43



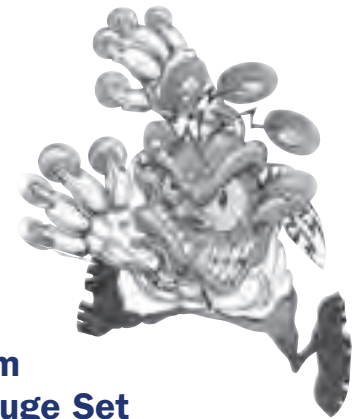
## Pneumatic Lifter Burnishing Broach

Size Lifter Bore Sleeves easily with this Pneumatic Bore Broach. Heavy duty construction and black oxide finished. Finish lifter bore with Ball Hones on page 35.

DESCRIPTION	PRODUCT #	PRICE
Lifter Broach Kit	7400366	154.49
Broach driver	7400367	61.79

BROACH SIZE	PRODUCT #	PRICE
.845	7400368	36.04
.875	7400369	36.04
.906	7400370	36.04

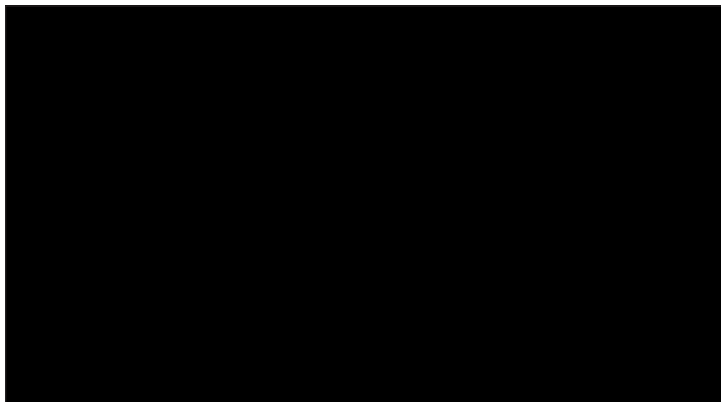
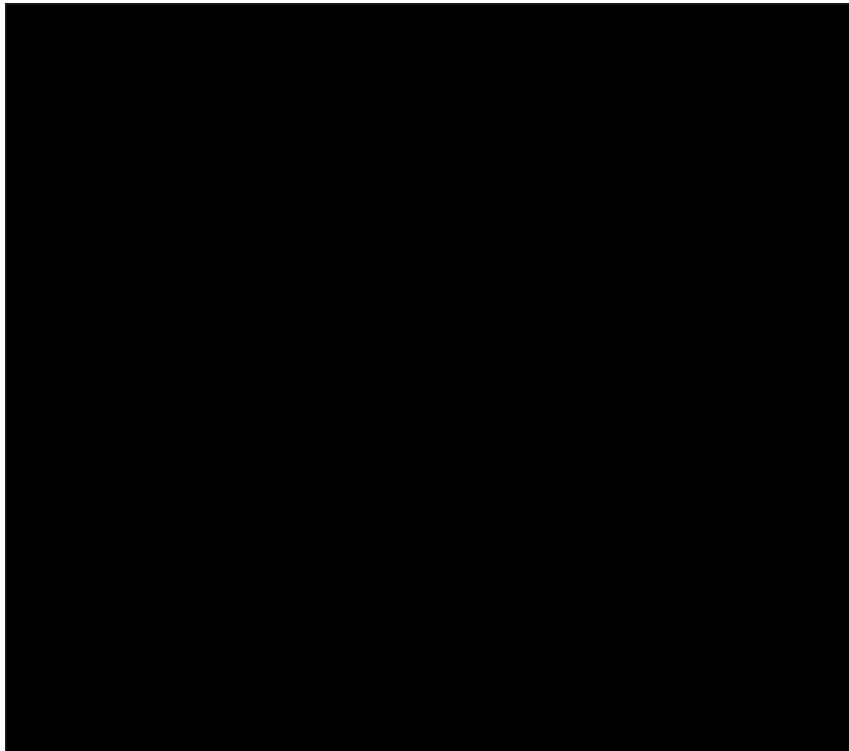




### Valve Stem Height Gauge Set

The most functional and user friendly stem height gauge set made today. This high quality aluminum set has a dial indicator with 5 setting fixtures and set up gauge with self containing storage stand included. It's easy to see the top of the stem with the site window cut into the side.

GAUGE NUMBER	PRODUCT #	PRICE
VSG-1	7389823	209.99

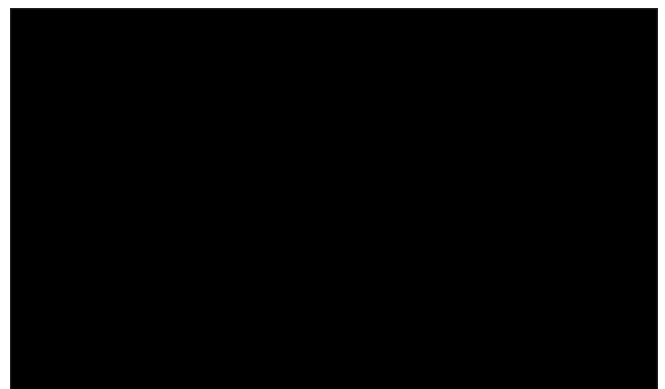


### Valve Spring Assembly Compressors (Seat & Guide Machines)

Compressors are made to be used with your seat and guide machine to compress the spring with the quill for assembly and disassembly. Black oxide coated to prevent rusting.

O.D.	SHANK	PRODUCT #	PRICE
13/16"	1/2"	7389824	33.98
1"	1/2"	7389825	36.04
1-1/4"	1/2"	7389826	37.07
1-1/2"	1/2"	7389827	37.07

**Buy a Full Set and Receive 10% Off**



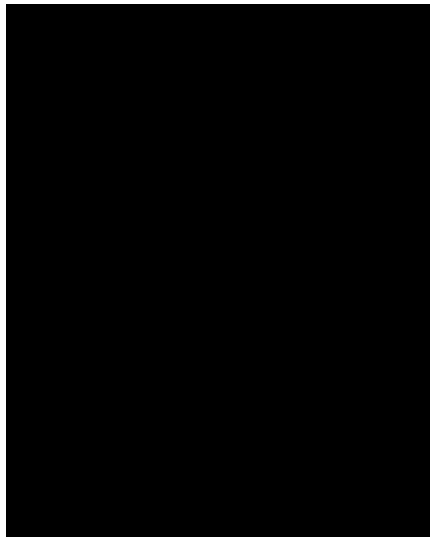
### Air Powered Valve Spring Compressor Adaptors

Adaptors for 2 and 4 valves per cylinder head. Use with air powered C-Clamp valve spring compressor. For assembly and disassembly of recessed valve springs.

O.D.	DESCRIPTION	PRODUCT #	PRICE
26mm	1.023" Metal	7389828	21.62
27mm	1.062" Plastic	7389829	14.41
32mm	1.260" Plastic	7389830	14.41

**Buy a Full Set and Receive 10% Off**

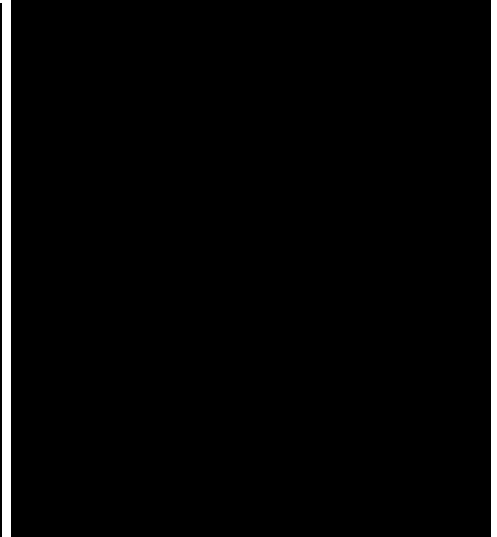
**Valve Seal Installers and Extractors**



**Boss Foot Seal Remover Kit**  
Slide Hammer/Foot Design



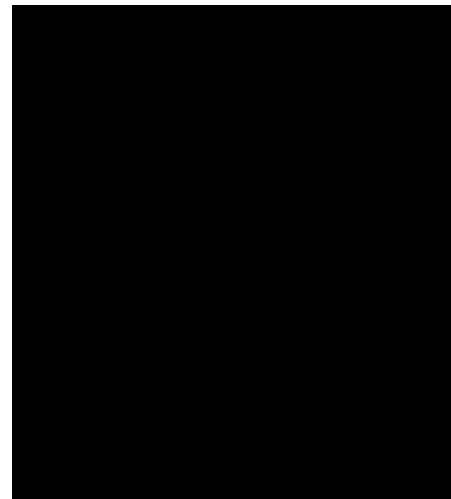
**Boss Seal Extractor Kit**  
Slide Hammer/Plier Point Design



**Metric Double Ended Seal Installer**  
Also works on 5/16" and 11/32"

**Valve Seal Removers and Installers**

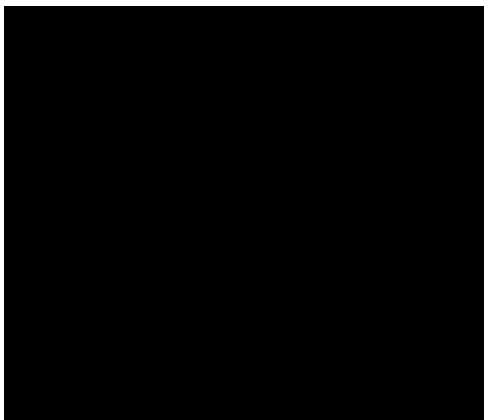
DESCRIPTION	PRODUCT #	PRICE
Boss Foot Valve Seal Remover Kit	7397970	144.19
Boss Extractor Valve Seal Remover Kit	7397971	236.89
Double Ended Metric Seal Setter Kit	7397972	118.44
Teflon Seal Setter Kit (4 sizes)	7397973	205.99
5/16" Teflon Seal Setter	7397974	51.49
8mm Teflon Seal Setter	7397975	51.49
11/32" Teflon Seal Setter	7397976	51.49
3/8" Teflon Seal Setter	7397977	51.49
<b>Replacement Seal Setter Sleeves</b>		
5/16" Seal Setter Sleeves	7397978	20.59
8mm Seal Setter Sleeves	7397979	20.59
11/32" Seal Setter Sleeves	7397980	20.59
3/8" Seal Setter Sleeves	7397981	20.59



**Teflon Seal Installer Kit**  
Comes with Setter Sleeves

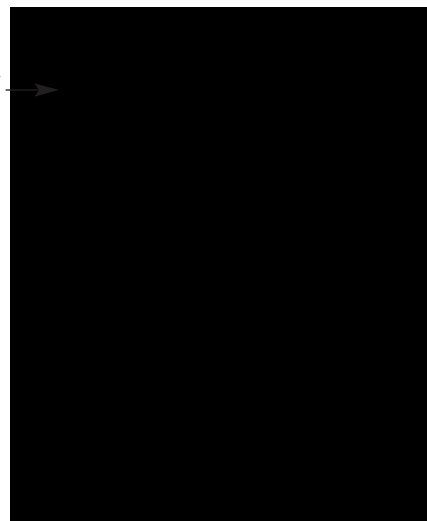
**Valve Stem Seal Installation Kit**

DESCRIPTION	PRODUCT #	PRICE
Valve Stem Seal Installation Kit	7397540	102.99



Seal Setter  
Sleeves →

Teflon Seal  
Installers →





## 645 Honing Oil

645 is formulated for all automatic & semi-automatic cylinder, line & rod honing operations. Also excellent for use in all valve grinders.

- Excellent lubricity & heat dispersal, maximized stone life.
- Viscosity controlled to reduce chatter & improve finish.
- Safe on all metals, no misting or smoke.
- Significantly reduces stone loading.

## 395 Rust Dizolv

395 is designed to provide the user with the latest technology in rust control.

- Biodegradable; contains no acids, bases or hazardous ingredients.
- Not harmful to plastic, rubber.
- Hot Tanks and Soak Tanks.
- Non-corrosive, non-flammable, non-toxic.
- Inhibits rust from reforming.
- Mix one gallon of product to one gallon of water.

## 1195 Alum. & Cast Iron High Performance Cleaner

1195 is the ultimate aluminum & cast iron cleaner. For use in jet spray cabinets & agitated tanks.

- Powerful removal of dirt, greases, carbon and light paint.
- Superior rinsing, non-foaming, excellent in hard water.
- Use 4-8 ounces per gallon @ 160°F - 180°F.
- For use on all engines & transmissions.
- Most powerful cleaner on carbon (may discolor some alloys).

## 625 Valve Grinding Oil

625 is formulated for all valve grinding machines.

- User friendly.
- Keeps wheel face clean.
- For the best results, add Mirror Finish #7371267, 8 oz. per charge.

## 1525 Cast Iron & Steel High Performance Cleaner

1525 is a *new formula* designed for heavy duty cleaning of all types of steel & cast iron components in jet spray cabinets and agitated tanks.

- Superb cleaning of rust, scale, carbon, paint, grease, oils & other bonded soils.
- Rinses easily with hot water, will not leave film or bloom.
- Use 8-12 ounces per gallon @ 170°F - 190°F.
- Long lasting & non-foaming.

## 888 Ultrasonic Cleaner

888 delivers the results ultrasonic machines deserve. This is the newest surfactant package for maximum penetration.

- Chemical builders for breakup & removal of hard solids.
- Use at lower temperatures in most applications.
- Formulated for maximum cavitation.
- Non-hazardous use solution.
- Mix one gallon of product to ten gallons of water.

PRODUCT DESCRIPTION	SIZE	CODE #	PRODUCT #	PRICE
<b>645 Honing Oil</b>	1 Gal	645-01	7401703	23.47
	5 Gal	645-05	7401704	77.86
	55 Gal.	645-55	7401705	687.51
<b>395 Rust Dizolv</b>	5 Gal.	395-05	7401706	102.68
<b>1195 Aluminum/Steel High Performance Cleaner</b>	5 Gal.	1195-45	7401707	128.53
	16 Gal.	1195-125	7401708	318.67
<b>1525 Cast Iron/Steel High Performance Cleaner</b>	5 Gal.	1525-50	7401709	129.10
	16 Gal.	1525-125	7401710	318.67
<b>888 Ultra Sonic Cleaner</b>	5 Gal.	888-05	7401711	100.72
<b>625 Valve Grinding Oil</b>	1 Gal.	625-01	7414540	27.28



**Segments**

*Make your next choice for  
Segments Radiac Abrasives*

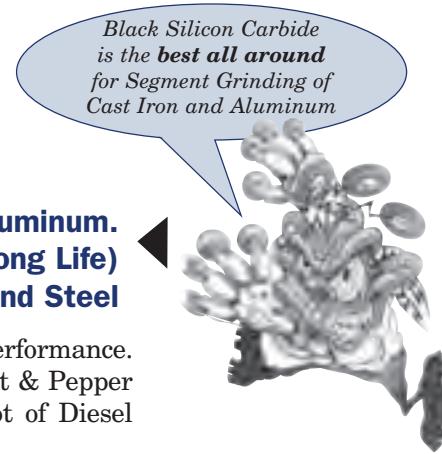


Surface grinder segments available in three different compositions:

**Most Popular**

- Black Silicon Carbide . . . . .Cast Iron and Aluminum.**
- Ruby . . . . .Cast Iron and Steel (Long Life)**
- Salt & Pepper (S&P) . . . . .Cast Iron and Steel**

Customers report excellent results in repeatability and performance. Diesel Heads cut well with a mixture of segments half Salt & Pepper and half Black Silicon Carbide. If you are surfacing a lot of Diesel Heads, split the set 50/50 Black / S&P Segments.



*Black Silicon Carbide is the **best all around** for Segment Grinding of Cast Iron and Aluminum*

**STORM VULCAN**

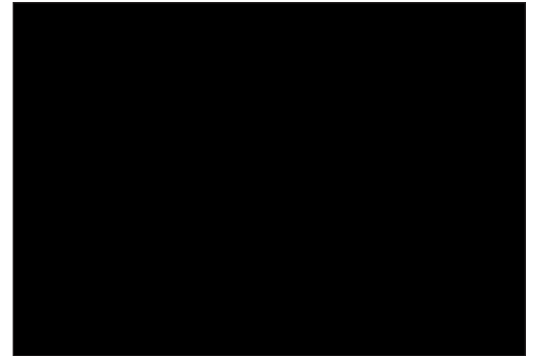
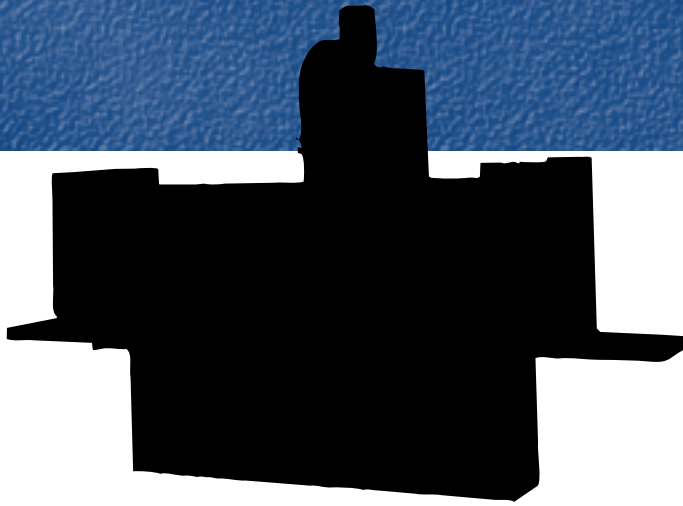
MACHINE	DIAMETER	SEGMENTS	SEGMENT SIZE	SPECIFICATION	COLOR	PRODUCT #	1 SET EACH PC*
RT-17Y				C30-H800-VOS	Black	P348641	17.06
Early	<b>12-1/2"</b>	<b>8</b>	<b>79 x 21 x 79MM</b>	RA36-F+800-VOS	Ruby	P348642	16.43
SN UP TO 128696				97A36-F+800-VOS	S&P	P348643	15.98
RT-7Y				C30-H800-VOS	Black	P348641	17.06
Early	<b>14"</b>	<b>10</b>	<b>79 x 21 x 79MM</b>	RA36-F+800-VOS	Ruby	P348642	16.43
SN UP TO 103151				97A36-F+800-VOS	S&P	P348643	15.98
RT 17Y				C30-H800-V4	Black	P337252	17.06
Late	<b>14"</b>	<b>10</b>	<b>65 x 25 x 100MM</b>	RA36-F+800-VOS	Ruby	P337253	16.43
SN 128697 & up				97A36-F+800-VOS	S&P	P337254	17.06
RT 7Y				C30-H800-V4	Black	P337252	17.06
Late	<b>16"</b>	<b>10</b>	<b>65 x 25 x 100MM</b>	RA36-F+800-VOS	Ruby	P337253	16.43
SN 103152 & up				97A36-F+800-VOS	S&P	P337254	17.06

*\*Segments are priced per piece, sold in sets as required*

**PETERSON**

MACHINE	DIAMETER	SEGMENTS	SEGMENT SIZE	SPECIFICATION	COLOR	PRODUCT #	1 SET EACH PC*
RSC 950	<b>12"</b>	<b>8</b>	<b>65 x 25 x 100MM</b>	C30-H800-V4	Black	P337252	17.06
				RA36-F+800-VOS	Ruby	P337253	16.43
				97A36-F+800-VOS	S&P	P337254	17.06
RSC1200				C30-H800-V4	Black	P337252	17.06
RSC1550	<b>14"</b>	<b>10</b>	<b>65 x 25 x 100MM</b>	RA36-F+800-VOS	Ruby	P337253	16.43
STC361/1300				97A36-F+800-VOS	S&P	P337254	17.06
RSC1200				C30-H800-V4	Black	P337252	17.06
RSC1500	<b>16"</b>	<b>12</b>	<b>65 x 25 x 100MM</b>	RA36-F+800-VOS	Ruby	P337253	16.43
RPY S1500				97A36-F+800-VOS	S&P	P337254	17.06
1055				C30-H800-V4	Black	P337252	17.06
1055 AWL	<b>18"</b>	<b>14</b>	<b>65 x 25 x 100MM</b>	RA36-F+800-VOS	Ruby	P337253	16.43
STC461/2000				97A36-F+800-VOS	S&P	P337254	17.06
RG35				C30-H800-V4	Black	P343756	14.42
300/900P	<b>13"</b>	<b>10</b>	<b>1<sup>5</sup>/<sub>16</sub> x 2<sup>1</sup>/<sub>2</sub> x 3<sup>3</sup>/<sub>16</sub></b>	RA36-F+800-VOS	Ruby	P343757	16.05
RP1200			<b>(50 x 16 x 90MM)</b>	97A36-F+800-VOS	S&P	P343758	13.51
RG32	<b>12"</b>	<b>8</b>	<b>79 x 21 x 79MM</b>	C30-H800-VOS	Black	P348641	17.06
				RA36-F+800-VOS	Ruby	P348642	16.43
				97A36-F+800-VOS	S&P	P348643	15.98

*\*Segments are priced per piece, sold in sets as required*



## WINONA VAN NORMAN

MACHINE	DIAMETER	SEGMENTS	SEGMENT SIZE	SPECIFICATION	COLOR	PRODUCT #	1 SET EACH PC*
SM2000	13"	8		C30-H800-V4	Black	P337252	17.06
4000, 5000	13 $\frac{1}{2}$ "	10	65 x 25 x 100mm	RA36-F+800-VOS	Ruby	P337253	16.43
6000	17 $\frac{3}{4}$ "	12		97A36-F+800-VOS	S&P	P337254	17.06

\*Segments are priced per piece, sold in sets as required.

## KWIKWAY

MACHINE	DIAMETER	SEGMENTS	SEGMENT SIZE	SPECIFICATION	COLOR	PRODUCT #	1 SET EACH PC*
858	14"	10		C30-H800-V4	Black	P345775	15.98
861	14"	10	65 x 20 x 100mm	RA36-F+800-VOS	Ruby	P345776	16.43
862	16"	12		97A36-F+800-VOS	S&P	P345777	15.98

\*Segments are priced per piece, sold in sets as required

## DCM

MACHINE	DIAMETER	SEGMENTS	SEGMENT SIZE	SPECIFICATION	COLOR	PRODUCT #	1 SET EACH PC*
280m, 3800	12"	10		C30-H800-V4	Black	P337252	17.06
5400	12"	10	65 x 25 x 100mm	RA36-F+800-VOS	Ruby	P337253	16.43
5400	18"	14		97A36-F+800-VOS	S&P	P337254	16.43

\*Segments are priced per piece, sold in sets as required

## HAUSKIN SURFACE GRINDER

MACHINE	SEGMENTS	SEGMENT SIZE	SPECIFICATION	COLOR	PRODUCT #	1 SET EACH PC*
Hauskin	4/6	PA-14	79A36-G3-VOS	S&P	P354106	16.02 14.40

\*Segments are priced per piece, sold in sets as required



## Grinding Coolant Page 13

## Plate Mounted Surfacing

DIMENSIONS	APPLICATION	SPECIFICATION	COLOR	PRODUCT #	PRICE
12 x 3 x 9	Kwikway, Lempco 545, 545H, 855	C36-J5-B10	Black	U350423	336.23
14 x 3 x 11	(1-1/2" Rim) Kwikway 545-B, 855-5, 856, 860	C24-J5-B10	Black	U354540	430.33
14 x 1-1/2 x 6	All Peterson 14" Drygrinders	C36-I5-B10	Black	U338279	300.02
14 x 1-1/2 x 6	All Peterson 14" Drygrinders	C24-J5-B10	Black	U342040	300.02
14 x 2 x 11	(1-1/2" Rim) Van Norman 561, 562	C36-J5-B10	Black	U345396	353.99
16 x 2 x 11	(2-1/2" Rim) Peterson 1050, 1054 (nut inserted)	C24-I5-B10	Black	U351997	323.82
16 x 3 x 13	(1-1/2" Rim) Kwikway 545-BL, 860A, L, & T	C24-J5-B10	Black	U342550	430.33
	Kwikway 860A, L,T & T	<b>NEW</b> C36-H7-B4264T	Black	U422304	430.33

### VS-100 Series Sioux, K.O. Lee, Thor, Winona & Skill 11/16 Thread

WHITE - FINE		SIoux	80 GRIT		
DIAMETER		TYPE	PRODUCT #	1-2 PCS	3+ PCS
1-1/8"	(28mm)	VS-101W	7335342	8.06	7.26
1-3/16"	(30mm)	VS-101.5W	7363910	8.06	7.26
1-1/4"	(31mm)	VS-102W	7335343	8.06	7.26
1-5/16"	(33mm)	VS-103W	7335344	8.06	7.26
1-3/8"	(35mm)	VS-104W	7335345	8.06	7.26
1-7/16"	(36mm)	VS-104.5W	7363911	8.06	7.26
1-1/2"	(38mm)	VS-105W	7335346	8.06	7.26
1-9/16"	(39mm)	VS-106W	7335355	8.06	7.26
1-5/8"	(41mm)	VS-107W	7335356	8.06	7.26
1-11/16"	(43mm)	VS-107.5W	7363912	8.06	7.26
1-3/4"	(44mm)	VS-108W	7335357	8.06	7.26
1-7/8"	(47mm)	VS-109W	7335358	8.06	7.26
2"	(50mm)	VS-110W	7335359	8.06	7.26
2-1/8"	(54mm)	VS-111W	7335360	9.43	8.50
2-1/4"	(57mm)	VS-112W	7335361	9.43	8.50
2-3/8"	(60mm)	VS-113W	7335362	9.43	8.50
2-1/2"	(63mm)	VS-114W	7335363	9.43	8.50

BLUE - FINE		SIoux	80 GRIT		
DIAMETER		TYPE	PRODUCT #	1-2 PCS	3+ PCS
1-1/8"	(28mm)	VS-101F	7335276	8.06	7.26
1-3/16"	(30mm)	VS-101.5F	7363919	8.06	7.26
1-1/4"	(31mm)	VS-102F	7335277	8.06	7.26
1-5/16"	(33mm)	VS-103F	7335278	8.06	7.26
1-3/8"	(35mm)	VS-104F	7335324	8.06	7.26
1-7/16"	(36mm)	VS-104.5F	7363920	8.06	7.26
1-1/2"	(38mm)	VS-105F	7335325	8.06	7.26
1-9/16"	(39mm)	VS-106F	7335326	8.06	7.26
1-5/8"	(41mm)	VS-107F	7335327	8.06	7.26
1-11/16"	(43mm)	VS-107.5F	7363921	8.06	7.26
1-3/4"	(44mm)	VS-108F	7335328	8.06	7.26
1-7/8"	(47mm)	VS-109F	7335329	8.06	7.26
2"	(50mm)	VS-110F	7335330	8.06	7.26
2-1/8"	(54mm)	VS-111F	7335331	9.43	8.50
2-1/4"	(57mm)	VS-112F	7335332	9.43	8.50
2-3/8"	(60mm)	VS-113F	7335333	9.43	8.50
2-1/2"	(63mm)	VS-114F	7335334	9.43	8.50

RUBY - FINE		SIoux	80 GRIT		
DIAMETER	THICKNESS	TYPE	PRODUCT #	1-2 PCS	3+ PCS
7/8"	(22mm)	VS-99RF	7364407	13.66	12.63
15/16"	(24mm)	VS-99.5RF	7364408	13.66	12.63
1"	(25mm)	VS-100RF	7364409	13.66	12.63
1-1/16"	(27mm)	VS-100.5RF	7364410	13.66	12.63
1-1/8"	(28mm)	VS-101RF	7335290	8.29	7.47
1-3/16"	(30mm)	VS-101.5RF	7363913	8.29	7.47
1-1/4"	(31mm)	VS-102RF	7335291	8.29	7.47
1-5/16"	(33mm)	VS-103RF	7335292	8.29	7.47
1-3/8"	(35mm)	VS-104RF	7335293	8.29	7.47
1-7/16"	(36mm)	VS-104.5RF	7363914	8.29	7.47
1-1/2"	(38mm)	VS-105RF	7335294	8.29	7.47
1-9/16"	(39mm)	VS-106RF	7335295	8.29	7.47
1-5/8"	(41mm)	VS-107RF	7335296	8.29	7.47
1-11/16"	(43mm)	VS-107.5RF	7363915	8.29	7.47
1-3/4"	(44mm)	VS-108RF	7335297	8.29	7.47
1-7/8"	(47mm)	VS-109RF	7335298	8.29	7.47
2"	(50mm)	VS-110RF	7335299	9.43	8.50
2-1/8"	(54mm)	VS-111RF	7335300	9.43	8.50
2-1/4"	(57mm)	VS-112RF	7335301	9.43	8.50
2-3/8"	(60mm)	VS-113RF	7335302	9.43	8.50
2-1/2"	(63mm)	VS-114RF	7335303	9.43	8.50

BLACK - VERY FINE		SIoux	<b>NEW</b> 120/150 Grit!		
DIAMETER		TYPE	PRODUCT #	1-2 PCS	3+ PCS
7/8"	(22mm)	VS-99 BVF	7427127	15.59	14.59
15/16"	(24mm)	VS-99.5 BVF	7427128	15.59	14.59
1"	(25mm)	VS-100 BVF	7427129	15.59	14.59
1-1/16"	(27mm)	VS-100.5 BVF	7427130	16.59	15.59
1-1/8"	(28mm)	VS-101 BVF	7427131	8.49	7.59
1-3/16"	(30mm)	VS-101.5 BVF	7427132	8.49	7.59
1-1/4"	(31mm)	VS-102 BVF	7427133	8.49	7.59
1-5/16"	(33mm)	VS-103 BVF	7427134	8.49	7.59
1-3/8"	(35mm)	VS-104 BVF	7427135	8.49	7.59
1-7/16"	(36mm)	VS-104.5 BVF	7427136	8.49	7.59
1-1/2"	(38mm)	VS-106 BVF	7427137	8.49	7.59
1-9/16"	(39mm)	VS-106 BVF	7427138	8.49	7.59
1-5/8"	(41mm)	VS-107 BVF	7427139	8.49	7.59
1-11/16"	(43mm)	VS-107.5 BVF	7427140	8.49	7.59
1-3/4"	(44mm)	VS-108 BVF	7427141	8.49	7.59
1-7/8"	(47mm)	VS-109 BVF	7427142	8.49	7.59
2"	(50mm)	VS-110 BVF	7427143	9.59	8.69
2-1/8"	(54mm)	VS-111 BVF	7427144	9.59	8.69
2-1/4"	(57mm)	VS-112 BVF	7427145	9.59	8.69
2-3/8"	(60mm)	VS-113 BVF	7427146	9.59	8.69
2-1/2"	(63mm)	VS-114 BVF	7427147	9.59	8.69

RUBY - COARSE		SIoux	60 GRIT		
DIAMETER		TYPE	PRODUCT #	1-2 PCS	3+ PCS
1-1/8"	(28mm)	VS-101RC	7335160	8.29	7.47
1-3/16"	(30mm)	VS-101.5RC	7363916	8.29	7.47
1-1/4"	(31mm)	VS-102RC	7335161	8.29	7.47
1-5/16"	(33mm)	VS-103RC	7335162	8.29	7.47
1-3/8"	(35mm)	VS-104RC	7335163	8.29	7.47
1-7/16"	(36mm)	VS-104.5RC	7363917	8.29	7.47
1-1/2"	(38mm)	VS-105RC	7335164	8.29	7.47
1-9/16"	(39mm)	VS-106RC	7335165	8.29	7.47
1-5/8"	(41mm)	VS-107RC	7335166	8.29	7.47
1-11/16"	(43mm)	VS-107.5RC	7363918	8.29	7.47
1-3/4"	(44mm)	VS-108RC	7335167	8.29	7.47
1-7/8"	(47mm)	VS-109RC	7335168	8.29	7.47
2"	(50mm)	VS-110RC	7335169	8.29	7.47
2-1/8"	(54mm)	VS-111RC	7335170	9.43	8.50
2-1/4"	(57mm)	VS-112RC	7335171	9.43	8.50
2-3/8"	(60mm)	VS-113RC	7335172	9.43	8.50
2-1/2"	(63mm)	VS-114RC	7335173	9.43	8.50

BLACK		SIoux 1703		
DIAMETER		SIoux #/GRIT	PRODUCT #	PRICE
2-5/8"	(67mm)	K109CK 24 grit	7415842	21.99
2-5/8"	(67mm)	K449CK 60 grit	7415843	21.99
2-5/8"	(67mm)	K449 120 grit	7415844	21.99

Threaded Insert 7/8 - 14 for use with 1703 Holder

### Bounce Springs **NEW**

Used with Seat Wheels and Lap Master products. These springs enable seat grinding wheels to get up to speed before they come in contact with the valve seat. Helps produce a better seat finish.

SPRING HEIGHT	PRODUCT #	EACH
1-1/2"	7420919	3.56
2"	7420920	3.70
2-1/2"	7420921	3.70

★ Indicates Small O.D.



WHITE - FINE	RUBY - FINE	RUBY - COARSE	GRAY/BLUE - FINE
<ul style="list-style-type: none"> <li>• General Purpose</li> <li>• Stellite Finishing</li> <li>• Hardened Seat Alloys</li> <li>• Excellent Form Holding</li> <li>• Good Finish</li> </ul>	<ul style="list-style-type: none"> <li>• General Purpose</li> <li>• Hardened Seat Alloys</li> <li>• Finishing Stone</li> <li>• Cast Iron /Stellite</li> <li>• Excellent Form Holding</li> </ul>	<ul style="list-style-type: none"> <li>• General Purpose</li> <li>• Stellite Roughing</li> <li>• Cast Iron Roughing</li> <li>• Will Not Groove</li> <li>• Excellent Form Holding</li> </ul>	<ul style="list-style-type: none"> <li>• Fine Finishing/Light Pressure</li> <li>• Cast Iron Finishing</li> <li>• Stellite Finish/Light Pressure</li> <li>• Excellent General Purpose</li> <li>• Best All Around</li> </ul>

## VS-300 Series Kwikway 13/16 Thread

WHITE - FINE	KWIKWAY	80 GRIT		
DIAMETER	TYPE	PRODUCT #	1-2 PCS	3+ PCS
1-1/4" (31mm)	VS-301W	7335318	9.76	8.80
1-5/16" (33mm)	VS-301.5W	7363922	9.76	8.80
1-3/8" (35mm)	VS-302W	7335319	9.76	8.80
1-7/16" (36mm)	VS-302.5W	7363923	9.76	8.80
1-1/2" (38mm)	VS-303W	7335320	9.76	8.80
1-9/16" (39mm)	VS-303.5W	7363924	9.76	8.80
1-5/8" (41mm)	VS-304W	7335321	9.76	8.80
1-11/16" (43mm)	VS-304.5W	7363925	9.76	8.80
1-3/4" (44mm)	VS-305W	7335322	9.76	8.80
1-7/8" (47mm)	VS-306W	7335323	9.76	8.80
2" (50mm)	VS-307W	7335339	9.76	8.80
2-1/8" (54mm)	VS-307.5W	7335887	10.11	9.09
2-1/4" (57mm)	VS-308W	7335340	10.11	9.09
2-3/8" (60mm)	VS-309W	7335341	10.11	9.09
2-1/2" (63mm)	VS-310W	7333987	10.11	9.09

RUBY - COARSE	KWIKWAY	60 GRIT		
DIAMETER	TYPE	PRODUCT #	1-2 PCS	3+ PCS
1-1/4" (31mm)	VS-301RC	7335151	9.76	8.80
1-5/16" (34mm)	VS-301.5RC	7363930	9.76	8.80
1-3/8" (35mm)	VS-302RC	7335152	9.76	8.80
1-7/16" (36mm)	VS-302.5RC	7363931	9.76	8.80
1-1/2" (38mm)	VS-303RC	7335153	9.76	8.80
1-9/16" (39mm)	VS-303.5RC	7363932	9.76	8.80
1-5/8" (41mm)	VS-304RC	7335154	9.76	8.80
1-11/16" (43mm)	VS-304.5RC	7363933	9.76	8.80
1-3/4" (44mm)	VS-305RC	7335155	9.76	8.80
1-7/8" (47mm)	VS-306RC	7335156	9.76	8.80
2" (50mm)	VS-307RC	7335157	9.76	8.80
2-1/8" (54mm)	VS-307.5RC	7335889	10.11	9.09
2-1/4" (57mm)	VS-308RC	7335158	10.11	9.09
2-3/8" (60mm)	VS-309RC	7335159	10.11	9.09
2-1/2" (63mm)	VS-310RC	7333986	10.11	9.09

RUBY - FINE	KWIKWAY	80 GRIT		
DIAMETER	TYPE	PRODUCT #	1-2 PCS	3+ PCS
★ 7/8" (22mm)	VS-298.5RF	7364614	13.66	12.63
★ 15/16" (24mm)	VS-299RF	7364615	13.66	12.63
★ 1" (25mm)	VS-299.5RF	7364616	13.66	12.63
★ 1-1/16" (27mm)	VS-300RF	7364617	13.66	12.63
★ 1-1/8" (28mm)	VS-300.5RF	7364618	13.66	12.63
★ 1-3/16" (30mm)	VS300.6RF	7397551	13.66	12.64
1-1/4" (31mm)	VS-301RF	7335280	9.76	8.80
1-5/16" (34mm)	VS-301.5RF	7363926	9.76	8.80
1-3/8" (35mm)	VS-302RF	7335281	9.76	8.80
1-7/16" (36mm)	VS-302.5RF	7363927	9.76	8.80
1-1/2" (38mm)	VS-303RF	7335282	9.76	8.80
1-9/16" (39mm)	VS-303.5RF	7363928	9.76	8.80
1-5/8" (41mm)	VS-304RF	7335283	9.76	8.80
1-11/16" (43mm)	VS-304.5RF	7363929	9.76	8.80
1-3/4" (44mm)	VS-305RF	7335284	9.76	8.80
1-7/8" (47mm)	VS-306RF	7335285	9.76	8.80
2" (50mm)	VS-307RF	7335286	9.76	8.80
2-1/8" (54mm)	VS-307.5RF	7335888	10.11	9.09
2-1/4" (57mm)	VS-308RF	7335287	10.11	9.09
2-3/8" (60mm)	VS-309RF	7335288	10.11	9.09
2-1/2" (63mm)	VS-310RF	7335289	10.11	9.09

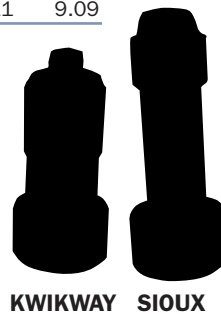
BLUE - FINE	KWIKWAY	80 GRIT		
DIAMETER	TYPE	PRODUCT #	1-2 PCS	3+ PCS
1-1/4" (31mm)	VS-301F	7335266	9.76	8.80
1-5/16" (34mm)	VS-301.5F	7364094	9.76	8.80
1-3/8" (35mm)	VS-302F	7335267	9.76	8.80
1-7/16" (36mm)	VS-302.5F	7364095	9.76	8.80
1-1/2" (38mm)	VS-303F	7335268	9.76	8.80
1-9/16" (39mm)	VS-303.5F	7364096	9.76	8.80
1-5/8" (41mm)	VS-304F	7335269	9.76	8.80
1-11/16" (43mm)	VS-304.5F	7364097	9.76	8.80
1-3/4" (44mm)	VS-305F	7335270	9.76	8.80
1-7/8" (47mm)	VS-306F	7335271	9.76	8.80
2" (50mm)	VS-307F	7335272	9.76	8.80
2-1/8" (54mm)	VS-307.5F	7335890	10.11	9.09
2-1/4" (57mm)	VS-308F	7335273	10.11	9.09
2-3/8" (60mm)	VS-309F	7335274	10.11	9.09
2-1/2" (63mm)	VS-310F	7335275	10.11	9.09

**CAUTION:** 60 Degree Angle On Wheels can cause chatter and threaded bushings to loosen, if used incorrectly. Note: All stones standard 90 degree angle only. Use of Bounce Springs recommended.

★ Indicates Small O.D.

### Valve Seat Wheel Holders for Seat Grinding

Valve Seat Holders are hardened and precision ground. Ball bearing stone holders are designed to fit your valve seat driver. OEM made. Superior quality construction and built to last.



SIZE	THREAD	PILOT TOP O.D.	PRODUCT #	EACH
Short Sioux 1672	11/16 - 16	.385	7413704	92.69
Tall Sioux 1702	11/16 - 16	.385	7381966	97.86
Kwikway 3056	13/16 - 13	.437	7381967	154.49
Sioux 1703	7/8 - 14	.572	7413897	205.99

Buy 2 or More Holders and Receive 30% Off Stone Removers on Page 19  
Buy 2 or More Holders and Receive 10% Off.

### MIRROR FINISH

Pro-Blend Valve Grinding Oil Additive

Superior oil additive that keeps the wheel face clean and sharp to produce brilliant valve finishes. Excellent for Titanium, Stainless, Stellite and OEM valve materials. Good for lubing Ball Broaches when sizing liners.

PRODUCT #	1 CAN	2+ CANS
7371267	33.98	30.89

## Valve Refacer Wheels

Radiac manufactures many popular sizes and shapes of Valve Refacing Wheels while using top quality grain for every wheel. We thoroughly test every wheel for size, shape and balance. Make your next refacer wheel a Radiac made product.

DIMENSIONS	APPLICATION	SPECIFICATION	COLOR	PRODUCT #	PRICE	
4 x 3/4 x 7/8	Fits KWIKWAY models C and P	WRA80-K5-V8	Red/White	F336031	20.89	
4 x 1 x 5/8	Fits BLACK & DECKER models A to EF, SIOUX all models	WRA80-K5-V8	Red/White	F167851	23.98	
4-1/2 x 7/8 x 7/8	Fits KWIKWAY models CV and SV	WRA80-K8-V8	Red/White	F336032	27.78	
5 x 3/4 x 5/8	Fits KO Lee models K3, K3A and K103	WRA80-K8-V8	Red/White	F336034	31.33	
5 x 3/4 x 5/8	15 Deg. Face - Fits KO Lee models K103A, 303, 403 & 500. SNAP-On all models	WRA80-K8-V8	Red/White	F336035	31.56	
5 x 7/8 x 7/8	Fits KWIKWAY model VS	WRA80-K8-V8	Red/White	F257738	31.79	
5 x 1 x 5/8	Fits BLACK & DECKER models P and 550 - 20 Deg. Face	WRA80-K8-V8	Red/White	F336033	35.50	
6/5 1/2 x 1 1/2 x 3/4	Sunnen VR-6500, Sunnen 603whl	OEM, Stainless	Grey	F345291	52.94	
7 x 1.100/.550 x 30mm	General Purpose	WA80-J+6-V28	Orange	F401585	50.10	
	Peterson RV20PP	OEM, Stainless, Titanium	Green	F401501	66.64	
7 x .675 x 1-3/4	Fits SIOUX 2001, 2075, 680, 956	General Purpose #176	Orange	A364068	38.86	
		Fine Finishing #177	White	A324814	38.86	
		★ Fine Finishing	XX801-I+8-V424892	Brown	A424892	38.86
		Fine Finishing	WA120-J+6-V28**	Orange	A382438	38.86
		Fine Finishing	RA80-M5-V8	Ruby	A379613	41.05
		OEM, Stainless, Titanium	GC100-J6-V4	Green	A340229	59.11
7 x 1/9/16 x 7/8	Fits KWIKWAY SVS and SVSII	General Purpose	WA80-I+8-V28	Orange	F372239	48.73
		Fine Finishing	WA120-I+6-V8**	White	F342482	48.73
		★ Fine Finishing	XX801-I+8-V424891	Brown	F424891	48.73
		Fine Finishing	RA80-M5-V8	Ruby	F377419	51.51
		OEM, Stainless, Titanium	GC100-J6-V4	Green	F342484	73.46
8/7 1/2 x 1 1/2 x 1 1/2	Winona V90, Sunnen VR-7000, 8000 IDL CG50, CG80, CG82	General Purpose	WA80-I+6-V28	Orange	G393775	67.82
		OEM, Stainless	WA120-M6-V8**	White	G344815	66.88
		OEM, Stainless	WA120-M6-V28**	Orange	G344816	66.88
		OEM, Stainless, Titanium	GC100-J6-V4	Green	G344817	105.71
8 x 1 1/2 x 1 1/2	Kwikway VL OEM Valve Face	General Purpose	WAA100-M5-V1	Grey	G358784	72.26
★ 8 1/2 x 1 1/2 x 76mm	Comec RV516, Rottler VR416	OEM, Stainless, Titanium	GC120-J6-V4	Green	G391946	139.03
		OEM, Stainless	WA120-J+6-V28**	Orange	G397752	97.04
		General Purpose	WAA100-K6-V1	Grey	G400086	97.04
12 x 5/8 x 3	Winona VR-1000	OEM, Stainless, GP	WA100-J+6-V28	Orange	A343620	64.57
		OEM, Stainless, Titanium	GC100-J6-V4	Green	A343621	89.42
		General Purpose	RA80-M5-V8	Ruby	A401605	87.34
★ 200mm x 1.032/.532 x .875	Serdi	OEM, Stainless, GP	WA100-J+8-V28	Orange	F406724	98.25
	Serdi	OEM, Stainless, Titanium	GC100-J6-V4	Green	G411913	139.05
★ 200mm x 10 x 41	Serdi 2.0	OEM, Stainless, GP	WA100-J+8-V28	Orange	A416344	32.75
	Serdi 2.0	OEM, Stainless, Titanium	GC100-J8-VL	Green	A353227	48.66

\*\* 120 Grit requires fine dressing **Mirror Finish Valve Oil Additive Recommended. See Page 26.**

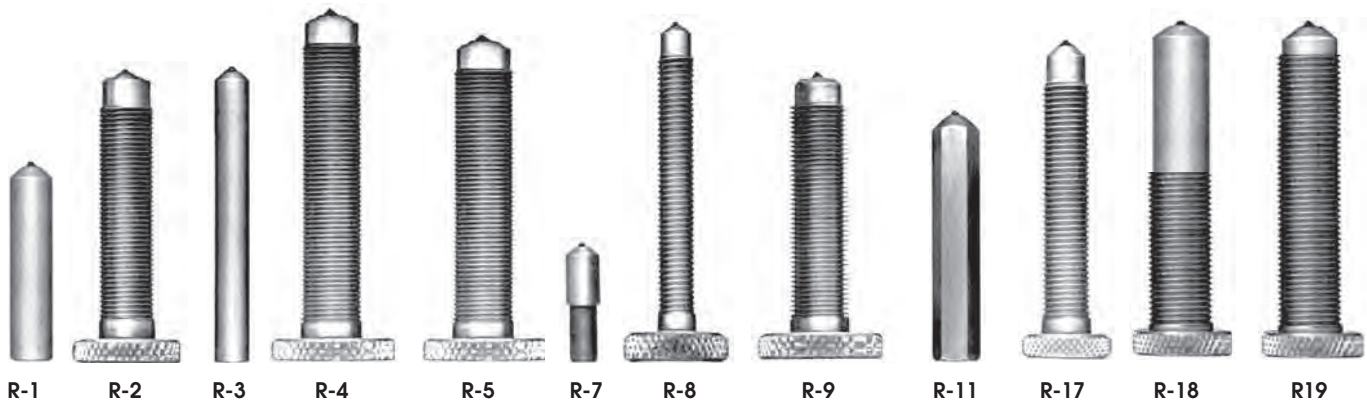
## Valve Stem Butt Grinding

DIMENSIONS	APPLICATION	SPECIFICATION	COLOR	PRODUCT #	PRICE
3 x 1-1/4 x 5/8	Fits KWIKWAY all models	WAA46-L5-V1	Blue/Brown	7336036	16.78
4 x 1 x 5/8	Fits SIOUX all models. Fits some BLACK & DECKER, K.O.Lee	WAA46-L8-V1	Grey	F336037	23.85
4 x 1-1/8 x 1/2	Fits BLACK & DECKER, SNAP-ON	WAA80-L5-V1	Blue/Brown	7336038	23.17
5 x 1-3/8 x 3/4	Sunnen VR-6500	WAA46-L5-V1	Grey	F345599	32.47
6 x 1-1/4 x 3/4	Kwikway VL	WAA46-L5-V1	Grey	F348645	42.39
8/7 1/2 x 1 1/2 x 1 1/2	Winona V90, Sunnen VR-7000, 8000 IDL CG50, CG80, CG82	WAA46-L5-V1	Grey	G344818	56.19
100 x 50 x 20mm	Comec RV-516, Rottler VR416	WAA46-L5-V1	Grey	F401039	50.44

## Valve Stem O.D. Grinding

DIMENSIONS	APPLICATION	SPECIFICATION	COLOR	PRODUCT #	PRICE
8 x 4-1/2 x 1 1/2	K-Line Valve Stem Grinder	WA90-H8-V8	White	G350289	206.34





## Premium Diamond Dressing Tools

Grinding wheels will operate at peak efficiency if properly trued and dressed. Premium dressing tools stay sharp longer, last longer and can improve wheel performance. Single Point Diamond Tools are used for straight wheel dressing with

high point definition for fast cutting and superior finish. Threaded Diamond Tools have precision threads that screw easily into tool holder to prevent vibration and support the diamond dressing point properly.

DIMENSIONS	THREAD	REMARKS	STYLE	MACHINES	PRODUCT #	PRICE
5/16 x 2-1/4	18NC	Threaded	R-9	KO Lee Reseater	2335667	27.66
5/16 x 2-1/4	18NC	Threaded	R-9	Snap-On Refacer	2335667	27.66
5/16 x 2-1/4	24NF	Threaded	R-8	Black & Decker Reseater	2335666	27.66
5/16 x 2-1/4	24NF	Threaded	R-8	Hall Reseater	2335666	27.66
5/16 x 2-1/4	24NF	Threaded	R-8	SKIL Reseater	2335666	27.66
5/16 x 2-1/4	24NF	Threaded	R-8	Snap-On Refacer	2335666	27.66
5/16 x 2-1/4	24NF	Threaded	R-8	Snap-On Reseater	2335666	27.66
5/16 x 2-1/2	None	Round	R-3	KO Lee Refacer	2335662	27.66
5/16 x 2-1/2	None	Round	R-3	S&D Refacer	2335662	27.66
5/16 x 2-1/2	None	Round	R-3	❖ Sunnen Refacer/WVN	2335662	27.66
5/16 x 2-1/2	None	Round	R-3	❖ Tobin Arp Refacer	2335662	27.66
10mm x 2	None	Round	R-1	Comec/Rottler Refacers	2V6836	39.64
3/8 x 1-1/8	None	1/4" STEP	R-7	Hall Refacer	2335665	27.66
<b>NEW</b> 3/8 x 1-1/8	None	1/4" STEP	R-7	KO Lee Refacer	2335665	27.66
3/8 x 1-1/8	None	1/4" STEP	R-7	Snap-On Refacer	2335665	27.66
3/8 x 1-1/8	None	1/4" STEP	R-7	Black & Decker Refacer	2335665	27.66
3/8 x 1-5/8	None	Round	R-1	Black & Decker Refacer	2335660	27.66
3/8 x 1-5/8	None	Round	R-1	Sioux Refacer	2335660	27.66
3/8 x 1-5/8	None	Round	R-1	SKIL Refacer	2335660	27.66
3/8 x 1-5/8	None	Round	R-1	Thor Refacer	2335660	27.66
3/8 x 1-5/8	None	Round	R-1	Van Dorn Refacer	2335660	27.66
3/8 x 1-5/8	None	Round	R-1	Van Norman Refacer	2335660	27.66
3/8 x 2	24NF	Threaded	R-2	Black & Decker Reseater	2335661	27.66
3/8 x 2	24NF	Threaded	R-2	Sioux Reseater	2335661	27.66
3/8 x 2	24NF	Threaded	R-2	S&D Reseater	2335661	27.66
3/8 x 2	24NF	Threaded	R-2	Thor Reseater	2335661	27.66
3/8 x 2	24NF	Threaded	R-2	Van Dorn Reseater	2335661	27.66
3/8 x 2	1/4-28 LH	Hex. Internal Thread	R-11	Sioux Reseater	2335668	27.66
3/8 x 2	1/4-28 RH	Hex. Internal Thread	R-11	Sioux Reseater	2V8674	27.66
3/8 x 2-3/8	24NF	Threaded	R-19	Kwikway Reseater	2335672	27.66
3/8 x 3	24NF	Threaded	R-5	❖ Sioux Refacer	2335664	27.66
3/8 x 3	24NF	Threaded	R-5	❖ Sioux Reseater	2335664	27.66
7/16 x 3	20NF	Threaded	R-17	Kwikway Refacer	2335670	27.66
7/16 x 3	20NF	Threaded	R-17	Kwikway Reseater	2335670	27.66
1/2 x 2-3/4	20NF	Half Threaded	R-18	Kwikway Reseater	2335671	27.66
1/2 x 3-1/4	20NF	Threaded	R-4	❖ Kwikway Refacer	2335663	27.66
1/2 x 3-1/4	20NF	Threaded	R-4	❖ Kwikway Reseater	2335663	27.66

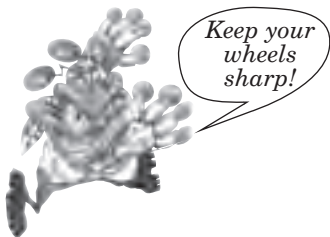
**Crank and Cam Diamond Dressers**

*Premium Radiac Manufactured Diamond Dressing Tools last longer and improve wheel performance. Excellent user satisfaction. Resettable Quality Dressers*



MACHINE	DIMENSIONS	SHANK	CARAT	STYLE	PRODUCT #	1 PC	2+ PCS
Storm Vulcan 14, 15, 15A, 15C, 75, 75A	<b>1/2 x 3</b> <b>1/2 x 3</b>	Straight Straight	3/4c 1c	R-25A R-25B	2354244 2354245	100.95 143.30	90.85 129.00
Peterson-Berco Cam, Crank Radius/Table dresser Zanrosso, Winona	<b>1/2 x 2-1/4</b> <b>1/2 x 2-1/4</b>	Straight Straight	1c 1-1/2c	R-25A-Z R-25B-Z	2354247 2354248	143.30 207.60	129.00 186.85
Scledum, Step Type RMC	<b>10mm x 1-1/2</b> <b>10mm x 1-1/2</b> <b>10mm x 1-1/2</b>	Straight Straight Straight	1c 1-1/2c 2c	R-27A R-27B R-27C	2354250 2354251 2354252	143.30 207.60 256.05	129.00 186.85 230.45
Peterson-Berco Hydraulic Dresser	<b>Step Type</b> <b>Step Type</b> <b>Step Type</b>	Tapered Tapered Tapered	1c 1-1/2c 2c	R-32 R-32A R-32B	2354253 2354254 2354255	143.30 207.60 256.05	129.00 186.85 230.45
Peterson-Berco (Radius Dresser) Van Norman 253, 254 Van Norman Radius Dresser	<b>Tapered x 60°</b> <b>3/8 x 1-3/4</b> <b>7/16 x 2 x 70°</b>	Tapered Straight Straight	3/4c 3/4c 3/4c	R-32/60° R-31 R-34	2V7035 2354235 2354236	143.32 116.40 116.40	129.01 104.75 104.75
Storm Vulcan, Van Norman, CG-210, 250, 280 Radius Dresser Van Norman, Lempco, Landis	<b>1/2 x 2 x 70°</b> <b>7/16 x 1-1/2</b> <b>7/16 x 1-1/2</b> <b>7/16 x 1-1/2</b>	Straight 5/8" Head 5/8" Head 5/8" Head	3/4c 1c 1-1/2c 2c	R-33 R-30A R-30B R-30C	2354237 2354238 2354239 2354240	116.40 143.30 207.60 256.05	104.75 129.00 186.85 230.45
Schou Model K-1100H/Kwikway	<b>10mm x 2-1/4</b> <b>10mm x 2-1/4</b>	Straight Straight	1c 1-1/2c	R-25B-10mm R-25C-10mm	2354241 2354242	143.30 207.60	129.00 186.85

**Wheel Dressing Procedures are outlined on Page 47. Resetting Service Available**



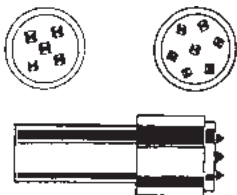
**Diamond Cluster Dressers**

For side dressing crank and cam wheels.

**CRANK / CAM DRESSERS**

R-27A	R-30A	R-31	Radius	R-32A	Radius	Radius
R-27B	R-30B		R-32/60°	R-32B	R-33	R-34
R-27C	R-30C					

R-25A  
R-25B  
R-25C



OD	LENGTH	CARAT	DIAMOND CLUSTER	STYLE	MACHINE	PRODUCT #	PKG QTY	1 PC	2+ PCS
1/2"	4"	1-1/2	7	R-25S	Storm Vulcan, Straight Shank	2V7185	1	96.50	86.85
1/2"	3-1/2"	1/3	5	R-26S	Storm Vulcan 1/2-20 NF 1" Knurled Finger Adjuster	2V7186	1	96.50	86.85
7/16	1-5/8	1/3	5	R-30S	Winona Van Norman, Lempco, Landis	2V7187	1	96.50	86.85

**Sharp Diamonds Give Better Finishes**

## AN Mounted Honing Stone Sets For Tall Cylinders over 6"

PORTABLE & POWER STROKE HONING

HONE NUMBER	BORE RANGE	FINISH	SPECIFICATION	PRODUCT #	1-2 BXS	3+ BXS
RAN-100S	2.7-4.1	Roughing	C70	7341545	18.07	16.25
RAN-200S	2.7-4.1	Roughing	C150	7341546	18.07	16.25
RAN-300S	2.7-4.1	Finishing	C220	7341547	18.07	16.25
RAN-500S	2.7-4.1	Finishing	C280	7341548	18.07	16.25
RAN-820S	2.7-4.1	Finishing	C400	7341549	18.07	16.25
RAN-101S	3.7-5.5	Roughing	C70	7341550	18.07	16.25
RAN-201S	3.7-5.5	Roughing	C150	7341551	18.07	16.25
RAN-301S	3.7-5.5	Finishing	C220	7341552	18.07	16.25
RAN-501S	3.7-5.5	Finishing	C280	7341553	18.07	16.25
RAN-821S	3.7-5.5	Finishing	C400	7341554	18.07	16.25

Price Per Box

- 2 Hones and 2 Wipers per set
- Standard 4" length stone mounted on 4" holders.
- 1 set per box (4 pcs) 2 Stones, 2 wipers
- Fits AN Series hone head
- Silicon Carbide

## AN Mounted Honing Stone Sets For Short Cylinders under 6"

PORTABLE & POWER STROKE HONING

HONE NUMBER	BORE RANGE	FINISH	SPECIFICATION	PRODUCT #	1-2 BXS	3+ BXS
RAN-100-3S	2.7-4.1	Roughing	C70	7341535	18.07	16.25
RAN-200-3S	2.7-4.1	Roughing	C150	7341536	18.07	16.25
RAN-300-3S	2.7-4.1	Finishing	C220	7341537	18.07	16.25
RAN-500-3S	2.7-4.1	Finishing	C280	7341538	18.07	16.25
RAN-820-3S	2.7-4.1	Finishing	C400	7341539	18.07	16.25
RAN-101-3S	3.7-5.5	Roughing	C70	7341540	18.07	16.25
RAN-201-3S	3.7-5.5	Roughing	C150	7341541	18.07	16.25
RAN-301-3S	3.7-5.5	Finishing	C220	7341542	18.07	16.25
RAN-501-3S	3.7-5.5	Finishing	C280	7341543	18.07	16.25
RAN-821-3S	3.7-5.5	Finishing	C400	7341544	18.07	16.25

Price per Box

- 2 Hones and 2 Wipers per set
- 1 set per box (4 pcs)
- 3" stone mounted on standard 4" holders.
- For honing of short length cylinder bores.
- Fits AN Series hone head
- Silicon Carbide

## AN Mounted Honing Stone Sets For Tall Cylinders over 6"

POWER STROKE HONING

HONE NUMBER	BORE RANGE	FINISH	SPECIFICATION	PRODUCT #	1-2 BXS	3+ BXS
RAN-200	2.7-4.1	Roughing	A150	7377241	16.88	15.21
RAN-300	2.7-4.1	Finishing	A220	7377242	16.88	15.21
RAN-500	2.7-4.1	Finishing	A280	7377243	16.88	15.21
RAN-201	3.7-5.5	Roughing	A150	7377245	17.54	15.78
RAN-301	3.7-5.5	Finishing	A220	7377246	17.54	15.78
RAN-501	3.7-5.5	Finishing	A280	7377247	17.54	15.78

Price Per Box

- 2 Hones and 2 Wipers per set
- Standard 4" length stone mounted on 4" holders.
- 1 set per box (4 pcs) 2 Stones, 2 wipers
- Fits AN Series hone head
- Harder Hone
- Aluminum Oxide

## AN Mounted Honing Stone Sets For Short Cylinders under 6"

POWER STROKE HONING

HONE NUMBER	BORE RANGE	FINISH	SPECIFICATION	PRODUCT #	1-2 BXS	3+ BXS
RAN-200-3	2.7-4.1	Roughing	A150	7377249	17.39	15.67
RAN-300-3	2.7-4.1	Finishing	A220	7377250	17.39	15.67
RAN-500-3	2.7-4.1	Finishing	A280	7377251	17.39	15.67
RAN-201-3	3.7-5.5	Roughing	A150	7377253	18.07	16.25
RAN-301-3	3.7-5.5	Finishing	A220	7377254	18.07	16.25
RAN-501-3	3.7-5.5	Finishing	A280	7377255	18.07	16.25

Price per Box

- 2 Hones and 2 Wipers per set
- 1 set per box (4 pcs)
- 3" stone mounted on standard 4" holders.
- For honing of short length cylinder bores.
- Fits AN Series hone head
- Harder Hone
- Aluminum Oxide

HONE NUMBER	SPECIFICATION	BORE RANGE	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
MM-33-C05	C600 Finish	3.3 - 4.1	7352353	2	34.05	30.65
NN-40-C05	C600 Finish	4.0 - 5.6	7352354	2	34.05	30.65

Pleateau Finishing Hones

- Cork Hone
- Pkg 1 set per box

## RCR Connecting Rod Reconditioning Honers



HONE NUMBER	FINISH	SPEC.	MANDREL	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
<b>RCR-2</b>	Fine	A220	CR1450-CR1750	7349462	2	16.64	14.98
<b>RCR-4</b>	Fine	A320	CR1450-CR1750	7349463	2	16.64	14.98
<b>RCR-10</b>	Rough	A100	CR1900-CR4500	7341570	2	16.64	14.98
<b>RCR-10-N</b>	Rough	A100	Power Stroke Harder Hone	7349464	2	18.83	16.94
<b>RCR-12</b>	Medium	A220	CR1900-CR4500	7341571	2	16.64	14.98
<b>RCR-12-8</b>	Medium	A220	Power Stroke Harder Hone	7349465	2	18.83	16.94
<b>RCR-14</b>	Fine	A320	CR1900-CR4500	7341572	2	16.64	14.98

- Crank Journal Rod End
- Power Stroke (Harder Hone)

Priced per box, 2 pcs

## RKL Connecting Rod/Piston Reconditioning Honers



HONE NUMBER	FINISH	SPEC.	MANDREL	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
<b>RKL-5</b>	Rough	C80	(Pin), Sunnen KL	7341555	12	41.92	37.86
<b>RKL-7</b>	Medium	C150	(Pin), Sunnen KL	7341556	12	41.92	37.86
<b>RKL-13</b>	Fine	C280	(Pin), Sunnen KL	7341557	12	41.92	37.86

- Small Wrist Pin Connecting Rods
- Single Stone Length

Priced per box; 12 pcs

## RML Connecting Rod/Piston Reconditioning Honers



HONE NUMBER	FINISH	SPEC.	MANDREL	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
<b>RML-5</b>	Rough	C80	Piston & King (Pin), Sunnen ML	7341558	12	41.92	37.86
<b>RML-7</b>	Medium	C150	Piston & King (Pin), Sunnen ML	7341559	12	41.92	37.86
<b>RML-13</b>	Fine	C280	Piston & King (Pin), Sunnen ML	7341560	12	41.92	37.86

- Small Wrist Pin Connecting Rods
- Multiple Stone Length

Priced per box; 12 pcs

## RPL Connecting Rod/Piston Reconditioning Honers



HONE NUMBER	FINISH	SPEC.	MANDREL	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
<b>RPL-5</b>	Rough	C80	(Pin), Sunnen PL	7341561	12	49.88	44.92
<b>RPL-7</b>	Medium	C150	(Pin), Sunnen PL	7341562	12	49.88	44.92
<b>RPL-13</b>	Fine	C280	(Pin), Sunnen PL	7341563	12	49.88	44.92

- Large Wrist Pin Connecting Rods
- Multiple Stone Length

Priced per box; 12 pcs

## RSL Connecting Rod/Piston Reconditioning Honers



HONE NUMBER	FINISH	SPEC.	MANDREL	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
<b>RSL-5</b>	Rough	C80	(Pin), SL720-SL2300	7349447	6	41.02	36.90
<b>RSL-7</b>	Medium	C150	(Pin), SL720-SL2300	7349448	6	41.02	36.90
<b>RSL-13</b>	Fine	C280	(Pin), SL720-SL2300	7349449	6	41.02	36.90

- Piston Pin fitting
- Multiple Stone Length

Priced per box; 6 pcs

# RCR/RCK Wear Shoes For Reconditioning Hones

HONE NUMBER	FINISH	SPEC.	RANGE	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
<b>RCR-40D</b>	Cast	CR Series	1.450-1.900	7349450	2	5.40	4.84
<b>RCR-50D</b>	Cast	CR Series	1.900-4.700	7349451	2	5.90	5.31
<b>RCR-50B</b>	Bronze	CR Series	1.900-4.700	7349452	2	21.24	19.11
<b>RCK-3070</b>	Bronze	CK Series	Wear Shoe	7349453	2	22.27	19.29
<b>RCK-3120</b>	Bronze	CK Series	Stabilizing Shoe	7349454	2	16.90	15.21

## CV616 and CK10 Honing Machines

HONE NUMBER	GRADE	FINISH	SPECIFICATION	PRODUCT #	1-2 BXS	3+ BXS
<b>REHU-123</b>	J	Roughing	A70	7341564	52.96	47.71
<b>REHU-133</b>	L	Roughing	A70	7341565	52.96	47.71
<b>REHU-518</b>	J	Finishing	A220	7341566	52.96	47.71
<b>REHU-525</b>	L	Finishing	A220	7341567	52.96	47.71
<b>RJHU-625</b>	L	Finishing	C280	7341568	52.96	47.71
<b>RJHU-825</b>	L	X-Fine Finishing	C400	7341569	52.96	47.71

- Packaged 12 per box
- General Honing

## Pin Honing Wear Shoes

HONE NUMBER	GRADE	BORE RANGE	PRODUCT #	PKG QTY	1-2 BXS	3+ BXS
<b>RUA-B</b>	KL	.744 - 0.843	7349455	2	23.93	21.54
<b>RUB-B</b>	KL	.806 - 0.906	7349456	2	23.93	21.54
<b>RUC-B</b>	KL	.900 - 1.003	7349457	2	23.93	21.54
<b>RUD-B</b>	KL	.994 - 1.125	7349458	2	23.93	21.54
<b>RUE-B</b>	KL	1.119 - 1.250	7349459	2	25.06	22.56
<b>RVA-B</b>	ML/PL	.990 - 1.156	7349460	2	25.06	22.56
<b>RVB-B</b>	ML/PL	1.115 - 1.281	7349461	2	26.23	23.91

- Packaged 2 per box
- Bronze

## Rod and Cap Grinding

*Sunnen and other popular brands*

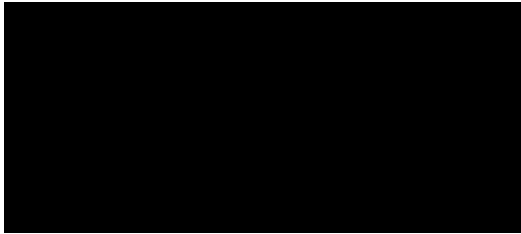
SIZE	MAKE/MODEL	SPECIFICATION	COLOR	PRODUCT #	PKG QTY	PRICE
<b>4 x 1-1/2 x 1</b>	CRG 500-550	WAA46-J8-V1	Grey	F343792	1	29.22
<b>6 x 2 x 1-1/4</b>	CRG 700, 750, 770,780, 805	WAA46-J8-V1	Grey	F343793	1	62.27
<b>7 x 1-1/2 x 5-1/2</b>	Delta 6200XHD		Red/White	J384516	1	176.61

*Superabrasive! 21st Century Rod & Cap Cutting with Diamond Technology*

SIZE	MAKE/MODEL	SPECIFICATION	PRODUCT #	PKG QTY	PRICE
<b>4 x 1-1/4 x 1-1/2</b>	CRG 500-550	PCB	2379266	1	181.28
<b>6 x 3/4 x 1-1/4</b>	Delta 6200HD	PCB	2H1402	1	205.05
<b>6 x 2 x 1-1/4</b>	CRG 700, 750, 770, 780, 805	PCB	2379267	1	226.59

## Tappet Refacing

SIZE	SHAPE	SPECIFICATION	COLOR	PRODUCT #	PKG QTY	1 PC
<b>6 x 1-1/2 x 1-1/4</b>	Straight Cup	WA60-J5-V8	White	F050326	1	63.33
<b>6 x 1-5/8 x 1-1/4</b>	Straight Cup	GC100	Green	F422897	1	67.70



**For any type and size of cylinder**

The Flex-Hone® Process (Super Finishing) produces a controlled surface condition unobtainable by any other method. It involves finish, geometry and metallurgical structure.

A resilient flexible honing tool with a soft cutting action. The abrasive (points) globules each have independent suspension that assures the Flex-Hone® to be self centering, self aligning to the bore, and self compensating for wear.

**CYLINDER Flex Hone (Standard Duty) S/C 180 Grit**

OD	MM	OVERALL LENGTH	PRODUCT #	PKG QTY	PRICE
3-1/4"	83	13-1/2"	7382651	1	39.87
3-1/2"	89	13-1/2"	7382652	1	41.27
3-3/4"	95	13-1/2"	7382653	1	43.13
4-1/8"	105	13-1/2"	7382654	1	47.31
4-5/8"	110	13-1/2"	7382655	1	52.57

**CYLINDER Flex Hone (Standard Duty) S/C 320 Grit**

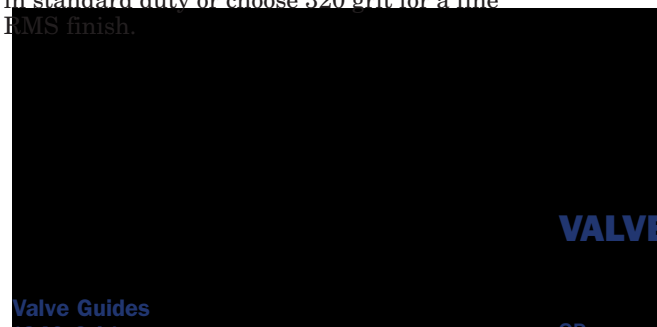
OD	MM	OVERALL LENGTH	PRODUCT #	PKG QTY	PRICE
3-1/4"	83	13-1/2"	7382664	1	59.08
3-1/2"	89	13-1/2"	7382665	1	62.01
3-3/4"	95	13-1/2"	7382666	1	64.81
4-1/8"	105	13-1/2"	7382667	1	68.66
4-5/8"	118	13-1/2"	7382668	1	78.27

**CYLINDER Flex Hone (Heavy Duty) S/C 320 Grit**

OD	MM	OVERALL LENGTH	PRODUCT #	PKG QTY	PRICE
3"	76	13-1/2"	7382656	1	87.19
3-1/4"	83	13-1/2"	7382657	1	89.94
3-1/2"	89	13-1/2"	7382658	1	92.67
4"	101	13-1/2"	7382659	1	106.01
4-1/4"	108	13-1/2"	7383400	1	112.82
4-1/2"	114	13-1/2"	7382660	1	120.62
5"	127	17-1/2"	7382661	1	139.94

**180 or 320 Grit**

Gives a consistent cross-hatch for fast piston ring sealing. Silicon-Carbide globules laminated to high density nylon. Order 180 grit in standard duty or choose 320 grit for a fine RMS finish.



**Valve Guides (240 Grit)**

Fast way to enlarge bore slightly to create proper clearance. Use with a portable drill. Silicon-Carbide Flexhones work with all materials including cast iron, bronze, Bron-El, phosphor-bronze and silicon-aluminum-bronze.

**VALVE GUIDE Flex Hone S/C 240 Grit**

OD	MM	OVERALL LENGTH	PRODUCT #	PKG QTY	PRICE
.217	5mm	8"	7382669	1	21.76
1/4"	6.4	8"	7382670	1	12.01
9/32"	7	8"	7382671	1	12.11
5/16"	8	8"	7382672	1	12.58
11/32"	9	8"	7382673	1	13.09
3/8"	10	8"	7382674	1	13.33
7/16"	11	8"	7382675	1	13.55

## CAM BEARING/LIFTER BORE/BRAKE CYLINDER Flex Hone S/C 180

OD	MM	OVERALL LENGTH	PRODUCT #	PKG QTY	PRICE
1/2"	12.7	8"	7382676	1	14.47
5/8"	16	8"	7382677	1	14.17
3/4"	19	8"	7382678	1	15.11
7/8"	22	8"	7382679	1	15.54
1"	25.4	8"	7382680	1	16.68
1-1/8"	29	8"	7382681	1	17.12
1-3/8"	35	8"	7382682	1	19.06
1-1/2"	38	8"	7382683	1	25.32
1-3/4"	45	8"	7382684	1	26.45
2"	51	8"	7382685	1	27.30
2-1/4"	57	8"	7382686	1	29.75
2-3/4"	70	8"	7382687	1	31.33

## Portable Cylinder Hone

DESCRIPTION	PRODUCT #	PKG QTY	PRICE
For AN-Series Hones	7381968	1	318.75

## Rubber Chamfering Cones

OVERALL LENGTH	MANDREL	ANGLE	PRODUCT #	PKG QTY	PRICE
5"	1/2"	45°	7382264	1	53.11
3/2 x 3-1/2"	3/8"	82°	7382265	1	48.77

## Abrasive Cones & Sleeves

5" Tapered Cloth Back Cone 45° with 1/2" Pilot hole  
3/2" Tapered cloth 82°

SIZE	GRIT	GRAIN	ANGLE	PRODUCT #	PKG QTY	1 BOX
5"	60	A/O	45°	C382266	5	21.63
3/2 x 3-1/2"	60	A/O	82°	C382267	5	21.63

## (The Best) Work Shop Gloves

DESCRIPTION	PRODUCT #	PKG QTY	1 PAIR
Flex-Lite	7382360	1 pr	5.77

*Most comfortable Shop Gloves you'll ever wear!*

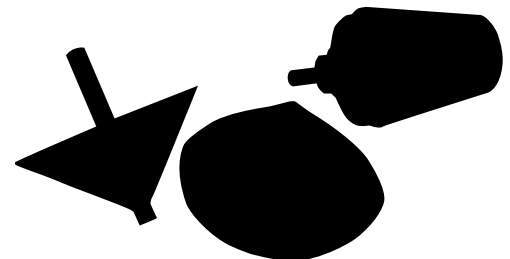
### Small Bore Hones (180 Grit)

Used for lifter bores, brake cylinders, etc. Silicon Carbide Flex hones are ideal for a variety of cast iron and bronze applications.



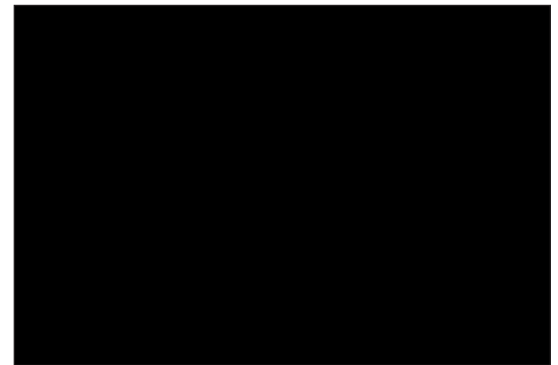
### Top quality, heavy-duty hone

For automotive and industrial use. Accurate over the full range. Use with a 1/2" drill for manual honing. The standard hone includes a 1/2" drive shaft (7/16-14 NC thread), 220 grit hones and storage case included.



### Chamfering Cones, Abrasive Cones and Sleeves.

Chamfering the top edges of cylinders after boring/honing for easy piston installation. Stops damage to rings caused by sharp cylinder-wall edges.



Get a tight grip with our **Flex-Lite Shop Gloves**. Gloves fit tight to hand and move with you, not against you. Washable and reuseable.

**Reinforced Cut-Off Wheels**



**High Speed Die Grinders Cut-Off Wheels  
General Purpose Aluminum Oxide**

**A24TB(F8)**

- Fast Aggressive Cutting
- Long Life
- Steel, Iron, Ferrous
- Non-Ferrous Metals

**A36TB(F8)**

- Fast Cutting
- Good Life
- Stainless & Structural Steel
- Ferrous / Non-Ferrous Metals

**A46TB(F8)**

- Smooth Finish
- Minimum Burr
- Alloys, Stainless
- Hardened Sheet Steel

**A60TB(F8)**

- Fine Finish
- Burr Free
- Thin Wall Tubing
- Light Structural Steel

DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT #	PKG QTY	1 PKG	2+ PKGS
1 x .035 x 1/8	1	A60TB(F8)	61000	7315947	50	.71	.64
1 x 1/16 x 1/8	1	A60TB(F8)	61000	7315948	50	.71	.64
1-1/2 x .035 x 1/8	1	A60TB(F8)	45000	7315954	50	.86	.78
1-1/2 x 1/16 x 1/8	1	A36TB(F8)	45000	7315950	50	.86	.78
1-1/2 x 1/16 x 1/4	1	A36TB(F8)	45000	7315951	50	.86	.78
1-1/2 x 1/8 x 1/8	1	A60TB(F8)	45000	7315958	50	.86	.78
2 x .035 x 1/4	1	A60TB(F8)	30000	7315968	50	1.06	.97
2 x .035 x 3/8	1	A60TB(F8)	30000	7315969	50	1.06	.97
2 x 1/16 x 1/4	1	A36TB(F8)	30000	7315960	50	1.06	.97
	1	A46TB(F8)	30000	7315964	50	1.06	.97
	1	A60TB(F8)	30000	7315970	50	1.06	.97
2 x 1/16 x 3/8	1	A36TB(F8)	30000	7315961	50	1.06	.97
2 x 1/8 x 1/4	1	A36TB(F8)	30000	7315962	50	1.06	.97
	1	A60TB(F8)	30000	7315972	50	1.06	.97
2 x 1/8 x 3/8	1	A46TB(F8)	30000	7315967	50	1.06	.97
	1	A60TB(F8)	30000	7315973	50	1.06	.97
3 x .035 x 1/4	1	A60TB(F8)	25000	7316088	50	1.06	.97
★ 3 x .035 x 3/8	1	A60TB(F8)	25000	7316089	50	1.06	.97
3 x 1/16 x 1/4	1	A36TB(F8)	25000	7315990	50	1.12	.99
	1	A46TB(F8)	25000	7315994	50	1.12	.99
	1	A60TB(F8)	25000	7316090	50	1.13	1.02
★ 3 x 1/16 x 3/8	1	A36TB(F8)	25000	7315991	50	1.13	1.02
	1	A46TB(F8)	25000	7315995	50	1.13	1.02

★ *Most Popular*

*Price per wheel*

**Box Quantities of 100 pieces will receive 2nd Column Pricing**



DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT #	PKG QTY	1 PKG	2+ PKGS
<b>3 x 1/16 x 3/8</b>	1	A60TB(F8)	25000	7316091	50	1.13	1.02
<b>3 x 1/8 x 1/4</b>	1	A36TB(F8)	25000	7315992	50	1.16	1.05
	1	A60TB(F8)	25000	7316092	50	1.16	1.05
<b>3 x 1/8 x 3/8</b>	1	A24TB(F8)	25000	7315989	50	1.16	1.05
	1	A36TB(F8)	25000	7315993	50	1.16	1.05
	1	A46TB(F8)	25000	7316087	50	1.16	1.05
	1	A60TB(F8)	25000	7316093	50	1.16	1.05
<b>4 x .035 x 1/4</b>	1	A60TB(F8)	19000	7316104	50	1.25	1.14
<b>4 x .035 x 3/8</b>	1	A60TB(F8)	19000	7316105	50	1.25	1.14
<b>4 x 1/16 x 1/4</b>	1	A36TB(F8)	19000	7316096	50	1.46	1.33
	1	A46TB(F8)	19000	7316100	50	1.46	1.33
	1	A60TB(F8)	19000	7316106	50	1.46	1.33
<b>4 x 1/16 x 3/8</b>	1	A36TB(F8)	19000	7316097	50	1.46	1.33
	1	A46TB(F8)	19000	7316101	50	1.46	1.33
	1	A60TB(F8)	19000	7316107	50	1.46	1.33
<b>4 x 1/16 x 5/8</b>	1	A36TB(F8)	19000	7316098	50	1.46	1.33
<b>4 x 1/8 x 3/8</b>	1	A24TB(F8)	19000	7316095	50	1.52	1.37
	1	A36TB(F8)	19000	7316099	50	1.52	1.37
	1	A60TB(F8)	19000	7316109	50	1.52	1.37
<b>4-1/2 x 1/16 x 7/8</b>	1	A36TB(F8)	13500	7316110	50	1.91	1.73
	1	A60TB(F8)	13500	7316113	50	1.91	1.73
<b>4-1/2 x 3/32 x 7/8</b>	1	A36TB(F8)	13500	7316111	50	1.91	1.73
<b>4-1/2 x 1/8 x 7/8</b>	1	A36TB(F8)	13500	7316112	50	1.91	1.73
<b>5 x .035 x 5/8</b>	1	A60TB(F8)	12200	7316127	50	1.98	1.77
<b>5 x 1/16 x 7/8</b>	1	A36TB(F8)	12200	7316117	50	2.23	2.01
	1	A46TB(F8)	12200	7316124	50	2.23	2.01
<b>5 x 1/8 x 7/8</b>	1	A36TB(F8)	12200	7316120	50	2.40	2.15

Price per wheel

## Cut-Off Wheel Mounting Mandrels

DIMENSIONS ARBOR x SHANK	FOR WHEELS .035" TO 1/4" THICK	FOR WHEELS 3/8" TO 1/2" THICK	PRODUCT#	WHEEL TYPE	PKG QTY	1 PC	2+ PCS
	C-18P	C-38P					
<b>1/8 x 1/4 Shank</b>	C-18P		7318446	55	10	5.04	4.88
<b>1/4 x 1/4 Shank</b>	C-14P		7318447	55	10	5.04	4.88
<b>3/8 x 1/4 Shank</b>	C-38P		7318448	55	10	5.04	4.88
<b>3/8 x 1/4 Shank</b>		C-38L	7318451	55	10	7.01	6.80



C-18P

C-14P  
C-38P

**Bench and Pedestal Grinders**

**General Purpose Blue Aluminum Oxide  
Bench/Pedestal Wheels**



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

Regular Aluminum Oxide  
Good for Rough Grinding  
Versatile for Soft/Hard Materials  
Bluish Gray in Color

**A36-M5-V1**  
• Fast, Free Cutting  
• Rough Grinding

**A46-M5-V1**  
• Free Cutting  
• General Purpose

**A60-M5-V1**  
• Small Tool Sharpening  
• Fine Cleanup Grinding  
• Finishing

DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT #	1-4 PCS	5+ PCS
<b>6 x 1/2 x 1-1/4</b>	1	A46-M5-V1	4140	A001708	26.13	20.44
	1	A60-M5-V1	4140	A003271	26.13	20.44
<b>6 x 3/4 x 1-1/4</b>	1	A36-M5-V1	4140	A089850	30.46	23.82
	1	A46-M5-V1	4140	A089982	30.46	23.82
	1	A60-M5-V1	4140	A090158	30.46	23.82
<b>6 x 1 x 1-1/4</b>	1	A36-M5-V1	4140	A090140	35.19	27.53
	1	A46-M5-V1	4140	A090166	35.19	27.53
	1	A60-M5-V1	4140	A090352	35.19	27.53
<b>7 x 3/4 x 1-1/4</b>	1	A36-M5-V1	3600	A290548	37.45	29.30
	1	A46-M5-V1	3600	A090557	37.45	29.30
	1	A60-M5-V1	3600	A090573	37.45	29.30
<b>7 x 1 x 1-1/4</b>	1	A36-M5-V1	3600	A090638	43.01	33.64
	1	A46-M5-V1	3600	A090611	43.01	33.64
	1	A60-M5-V1	3600	A090719	43.01	33.64
<b>8 x 3/4 x 1-1/4</b>	1	A46-M5-V1	3600	A090972	44.66	34.93
	1	A60-M5-V1	3600	A066397	44.66	34.93
<b>8 x 1 x 1-1/4</b>	1	A36-M5-V1	3600	A085626	52.68	41.21
	1	A46-M5-V1	3600	A087416	52.68	41.21
	1	A60-M5-V1	3600	A091243	52.68	41.21
<b>10 x 1 x 1-1/4</b>	1	A36-M5-V1	2485	A091936	81.08	63.42
	1	A46-M5-V1	2485	A091952	81.08	63.42
	1	A60-M5-V1	2485	A092126	81.08	63.42
<b>10 x 1-1/4 x 1-1/4</b>	1	A36-M5-V1	2485	A331531	96.31	75.33
	1	A46-M5-V1	2485	A092142	96.31	75.33
	1	A60-M5-V1	2485	A092150	96.31	75.33
<b>10 x 1-1/2 x 1-1/4</b>	1	A36-M5-V1	2485	A092223	111.54	87.24
	1	A46-M5-V1	2485	A092274	111.54	87.24
	1	A60-M5-V1	2485	A092320	111.54	87.24
<b>12 x 1-1/2 x 1-1/4</b>	1	A46-M5-V1	2070	A092983	1153.31	119.92
	1	A60-M5-V1	2070	A092932	153.31	119.92
<b>12 x 2 x 1-1/4</b>	1	A36-M5-V1	2070	A093114	196.31	153.56
	1	A46-M5-V1	2070	A093335	196.31	153.56
	1	A60-M5-V1	2070	A093378	196.31	153.56

Price per wheel

### High Performance Green Silicon Carbide Bench/Pedestal Wheels



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.

#### Silicon Carbide Abrasive

Excellent for Sharpening  
Carbide Cutting Tools  
Grinding of Cemented Carbide  
Iron and Titanium  
Green in Color

#### GC60-J5-VL

- Carbide
- Non-Ferrous Metals
- Rough Grinding

#### GC120-J5-VL

- Finish Grinding
- Carbide Tools

DIMENSIONS	TYPE	SPECIFICATION	MAX RPM	PRODUCT #	1-4 PCS	5+ PCS
6 x 1/2 x 1-1/4	1	GC60-J5-VL	4140	A008931	55.63	43.42
	1	GC120-J5-VL	4140	A107719	55.63	43.42
6 x 3/4 x 1-1/4	1	GC60-J5-VL	4140	A107735	64.82	50.59
	1	GC120-J5-VL	4140	A107778	64.82	50.59
6 x 1 x 1-1/4	1	GC60-J5-VL	4140	A107794	74.90	58.46
	1	GC120-J5-VL	4140	A107824	74.90	58.46
7 x 1/4 x 1-1/4	1	GC60-J5-VL	3600	A016721	53.44	41.71
	1	GC120-J5-VL	3600	A107930	53.44	41.71
7 x 1/2 x 1-1/4	1	GC60-J5-VL	3600	A107964	66.57	51.96
	1	GC120-J5-VL	3600	A108022	66.57	51.96
7 x 3/4 x 1-1/4	1	GC60-J5-VL	3600	A108030	79.72	62.22
	1	GC120-J5-VL	3600	A108065	79.72	62.22
7 x 1 x 1-1/4	1	GC60-J5-VL	3600	A108081	91.55	71.45
	1	GC120-J5-VL	3600	A108090	91.55	71.45
8 x 1 x 1-1/4	1	GC60-J5-VL	3600	A108189	112.13	87.52
	1	GC120-J5-VL	3600	A108243	112.13	87.52
10 x 1 x 1-1/4	1	GC60-J5-VL	2485	A108359	172.58	134.69
	1	GC120-J5-VL	2485	A109878	172.58	134.69
10 x 1-1/2 x 1-1/4	1	GC60-J5-VL	2485	A063460	237.40	185.29
12 x 2 x 1-1/4	1	GC60-J5-VL	2070	A108561	417.86	326.13

Price per wheel

### Buff and Blend Disc Non-Woven Red

*Great for  
Valve Stems!*

Bench and Pedestal Mounted. Excellent product for deburring and cleaning of Small Parts like Valve Stems, Valve Springs, Pistons, Wrist Pins, Etc. Mount as many discs on the spindle as the guard will allow. On Buffing Motor, mount as many as you would like. Safer and more user friendly than wire wheels. Wheels are very flexible and will fit 5/8" spindle.

DIMENSIONS	COLOR	HARDNESS	PRODUCT #	PKG QTY	PRICE PER BOX
6 x 1/2 x 1/2	Red	Medium	C400475	10	32.45
8 x 1/2 x 1/2	Red	Medium	C400476	10	54.09

Sold in Package Quantity Only

**Bench and Pedestal Grinders**

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

**Wire Brush Wheels**

Heavy Duty with Superior Durability and Performance

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



WHEEL DIAMETER		WIRE SIZE	TYPE	WHEEL FACE	MOUNTING TYPE	MAX RPM	PRODUCT #	EACH
6"	Crimped Wire Wheel	.014	Coarse	Narrow 3/4"	5/8 - 1/2 AH	6000	7337267	30.08
		.006	Fine	Narrow 3/4"	5/8 - 1/2 AH	6000	7337268	32.74
		.014	Coarse	Wide 1-1/8"	5/8 - 1/2 AH	6000	7337269	39.92
8"	Crimped Wire Wheel	.014	Coarse	Narrow 3/4"	5/8 - 1/2 AH	6000	7337270	43.36
		.014	Coarse	Wide 1-1/8"	5/8 - 1/2 AH	6000	7337271	63.93

*All brushes made of high quality carbon steel*

**Steel Wire Brushes**



**Steel Solid End Crimped**

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



**Steel Hollow End Knot Twist**

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



**Steel Circular Flared**

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

	WHEEL DIAMETER	WIRE SIZE	MANDREL O.D.	WIRE TYPE	MOUNTING TYPE	PRODUCT#	EACH
<b>SOLID END CRIMPED</b>	3/4"	.020	1/4"	Crimped	Mandrel	7341450	5.99
	1"	.020	1/4"	Crimped	Mandrel	7341451	7.53
	3/4"	.014	1/4"	Crimped	Mandrel	7341452	7.60
	1"	.014	1/4"	Crimped	Mandrel	7341453	8.08
<b>HOLLOW END KNOT TWIST</b>	3/4"	.020	1/4"	Twisted	Mandrel	7341454	11.10
	1-1/8"	.020	1/4"	Twisted	Mandrel	7341455	11.44
	3/4"	.014	1/4"	Twisted	Mandrel	7341456	10.45
	1-1/8"	.014	1/4"	Twisted	Mandrel	7341457	12.11
<b>CIRCULAR FLARED CRIMPED</b>	1"	.020	1/4"	Crimped	Mandrel	7352623	6.94
	1-1/4"	.020	1/4"	Crimped	Mandrel	7352624	8.62
	1-1/2"	.020	1/4"	Crimped	Mandrel	7352625	8.62

**Remember: High P.S.I. line pressure destroys brushes. Reduce line pressure to avoid brush damage.**

*Knot Cup Brushes provide the most aggressive cutting and cleaning action.*

- Heavy Duty Cleaning
- Weld Scale, Corrosion Removal
- Deburring
- Cleaning Prior to Welding



DESCRIPTION	APPLICATION	WIRE SIZE	TYPE	MOUNTING	MAX RPM	PRODUCT #	EACH
<b>2-3/4" Knot Wire</b>	Small Grinders	.020	Extra Coarse	5/8 - 11 UNCL	14000	7337272	1 26.51
<b>3" Crimped Wire</b>	Small Grinders	.014	Coarse	5/8 - 11 UNCL	13000	7337273	1 28.16
<b>4" Knot Wire - Standard Twist</b>	Small Grinders	.014	Coarse	5/8 - 11 UNCL	20000	7337275	1 32.56
<b>4" Crimped Wire</b>	Large Grinders	.020	Coarse	5/8 - 11 UNCL	9000	7337276	1 26.04
<b>4" Knot Wire</b>	Large Grinders	.023	Extra Coarse	5/8 - 11 UNCL	9000	7337277	1 32.56

### Small Right Angle Grinder Adapters

DESCRIPTION	PRODUCT #	EACH
<b>Hole to Metric Size M10 x 1.25</b>	7337287	5.46
<b>Adapter 5/8 - 11 Arbor Hole to Metric Size M10 x 1.50</b>	7337288	5.46

## Cleaning Brushes

### Cylinder Washing Brushes

Twisted Wire Stem/6-12 Nylon

DIAMETER	LENGTH	PRODUCT #	PRICE
<b>2-1/2"</b>	<b>18"</b>	7400654	17.55
<b>2-3/4"</b>	<b>18"</b>	7400655	17.55
<b>3-1/2"</b>	<b>18"</b>	7400656	15.41
<b>4"</b>	<b>18"</b>	7400657	16.48
<b>4-1/2"</b>	<b>18"</b>	7400658	19.70
<b>5"</b>	<b>18"</b>	7400659	20.77

### Wire Valve Guide Brushes

DIMENSIONS O.D. X BRUSH	LENGTH	PRODUCT #	PRICE
<b>1/4 x 2</b>	<b>10"</b>	7400660	4.92
<b>5/16 x 2-1/2</b>	<b>9-1/2"</b>	7400661	4.92
<b>11/32 x 2-1/2</b>	<b>9-1/2"</b>	7400662	4.92
<b>3/8 x 2-1/2</b>	<b>9-1/2"</b>	7400663	4.92
<b>7/16 x 2-1/2</b>	<b>9-1/2"</b>	7400664	4.92

*Power driven brush*

### Nylon Valve Guide Brushes

DIMENSIONS O.D. X BRUSH	LENGTH	PRODUCT #	PRICE
<b>1/4 x 2</b>	<b>10"</b>	7400665	4.92
<b>5/16 x 2-1/2</b>	<b>12"</b>	7400666	4.92
<b>11/32 x 2-1/2</b>	<b>12"</b>	7400667	4.92
<b>3/8 x 2-1/2</b>	<b>12"</b>	7400668	4.92
<b>7/16 x 2-1/2</b>	<b>12"</b>	7400669	4.92
<b>1/2 x 2-1/2</b>	<b>10-1/2"</b>	7400670	4.92

*Cut off finger loop to make power driven brush*

### Mandrel Mounted Port Brushes

DIMENSION DIA. X WIRE	O.A.L.	MANDREL	PRODUCT #	PRICE
<b>1/4" x .012</b>	<b>6"</b>	1/4"	7400650	9.63
<b>3/8" x .017</b>	<b>6"</b>	3/8"	7400651	11.23
<b>1/2" x .020</b>	<b>2-1/2"</b>	1/4"	7400653	14.98

### Nylon Oil Gallery Brushes

DIMENSIONS O.D. X BRUSH	LENGTH	PRODUCT #	PRICE
<b>3/8 x 3</b>	<b>34"</b>	7400671	4.59
<b>1/2 x 2-1/2</b>	<b>34"</b>	7400672	4.59
<b>5/8 X 3</b>	<b>34"</b>	7400673	4.59
<b>3/4 X 3</b>	<b>34"</b>	7400674	4.59
<b>3/4 X 3</b>	<b>40"</b>	7400675	6.42

### Nylon Cam Bore Washing Brushes

DIMENSIONS O.D. X BRUSH	LENGTH	PRODUCT #	PRICE
<b>2 x 4</b>	<b>36"</b>	7400676	15.41
<b>2-1/4 x 4</b>	<b>36"</b>	7400677	17.55
<b>2-1/2 x 4</b>	<b>36"</b>	7400678	18.62
<b>2-3/4 x 4</b>	<b>36"</b>	7400679	19.70
<b>3 x 4</b>	<b>36"</b>	7400680	20.77
<b>3-1/4 x 4</b>	<b>36"</b>	7400681	21.84
<b>3-1/2 x 4</b>	<b>36"</b>	7400682	22.91

**Platen Surfacing Belts with High Strength Backing**

**Brown Aluminum Oxide Dry Surfacing Belts**

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

- Steel/Cast Iron
- Bi-directional
- Good Life
- No Lap Splice
- High Strength Backing

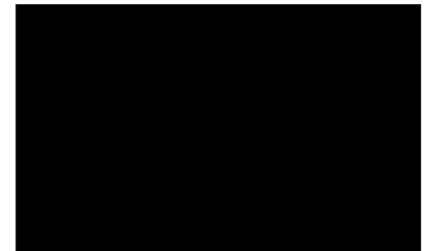


SIZE	MACHINE	40 GRIT	60 GRIT	PKG QTY	1-4 PCS	5+ PCS
10 x 87	Mastertool, RMC, T&S	C341319		5	25.71	23.14
10 x 103	Mastertool, RMC, T&S	C335634	C335635	5	26.74	24.17
12 x 79	RMC, WV, PET, KI, US Metalworks	C341321	C341322	5	31.94	28.94
12 x 89	US Metalworks, WV, Comec, RMC800, Serv-Equip	C341079	C341080	5	28.73	25.84
14 x 86	Autocraftsman	C335636		5	33.62	30.25
14 x 103	Mastertool, RMC, T&S	C335637		5	40.97	36.97
14 x 107-1/2	KW	C335584		5	44.16	39.74
14 x 113-1/4	AND, KI, PET, SV, DCM	C335639		5	46.54	41.99
15 x 127-1/2	AND, IDL, KI, PET, SV, WV	C335641		5	47.65	42.89
18 x 161-5/8	AND, KI, PET, SV	C335642		5	68.68	61.82

**Black Silicon Carbide Wet/Dry Surfacing Belts**

For grinding of tungsten carbide, cast iron, aluminum, copper, bronze, and non metallic materials such as plastic and glass.

- Best general purpose belt
- Cast Iron/Aluminum/Steel
- Bi-directional
- No Lap Splice
- Excellent Life
- High Strength Backing

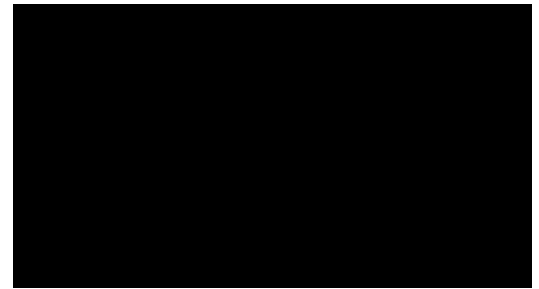


SIZE	MACHINE	40 GRIT	60 GRIT	80 GRIT	PKG QTY	1-4 PCS	5+ PCS
10 x 87	Mastertool, RMC, T&S	C335643	C335644		5	32.40	29.26
10 x 103	Mastertool, RMC, T&S	C335645	C335646		5	38.56	34.83
				C354641	5	36.76	33.24
12 x 76	WV, McGlogan	C348646	C348647		5	32.23	27.88
				C354642	5	31.42	27.18
12 x 79	RMC, WV, US Metalworks, PET, KI	C337196	C337197		5	32.23	27.88
				C354643	5	31.22	26.90
12 x 89	US Metalworks, WV, Comec, RMC800, Serv-Equip	C341081			5	33.25	28.58
			C341082		5	33.16	28.09
				C354644	5	36.76	33.24
12 x 91	KI, PET	C355447			5	30.30	25.80
			C355448		5	29.50	25.12
14 x 86	Autocraftsman	C342041			5	44.35	38.32
			C342042		5	39.11	35.41
				C354645	5	41.12	37.21
14 x 103	Mastertool, RMC, T&S	C335647	C335648		5	45.89	41.53
				C354646	5	39.20	37.76
14 x 107-1/2	KW	C335998			5	44.57	38.55
			C335999		5	43.26	37.42
				C354647	5	38.20	34.59
14 x 113-1/4	AND, KI, PET, SV, DCM	C336088			5	45.39	39.21
			C336611		5	44.72	38.70
				C354648	5	51.58	44.51
15 x 127-1/2	AND, IDL, KI, PET, SV, WV, DCM	C336090			5	48.65	41.82
			C336613		5	45.58	39.25
				C354649	5	55.42	47.71
18 x 161-5/8	AND, KI, PET, SV	C336091			5	74.37	63.89
			C336614		5	66.22	56.91

**Blue Zirconia Wet/Dry Surfacing Belts -**

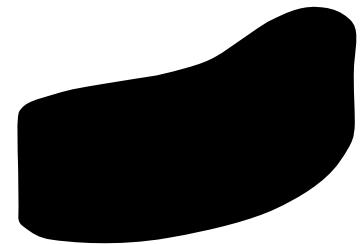
Best suited grain for quick cutting, long life and high production applications.

- Steel/Cast Iron
- Down pressure required
- Superior Life
- No Lap Splice
- High Strength Backing
- Long lasting abrasive
- Bi-directional



SIZE	MACHINE	36 GRIT	40 GRIT	60 GRIT	PKG QTY	1-4 PCS	5+ PCS
<b>10 x 103</b>	Mastertool, RMC, T&S	C335650			5	48.32	43.48
<b>12 x 76</b>	WV		C348648		5	48.57	43.91
<b>12 x 79</b>	RMC, WV, PET, KI, US Metalworks		C335652		5	48.57	43.91
<b>14 x 86</b>	Auto Craftsman		C335653		5	49.70	44.73
<b>14 x 103</b>	Mastertool, RMC, T&S		C335654		5	60.63	58.07
<b>14 x 107-1/2</b>	KW		C335655	C337867	5	61.67	55.12
<b>14 x 113-1/4</b>	AND, KI, PET, SV, DCM		C335656		5	58.32	52.49
<b>15 x 127-1/2</b>	AND, IDL, KI, PET, SV, WV		C335658		5	78.29	70.58
<b>18 x 161-5/8</b>	AND, KI, PET, SV		C335659		5	116.42	104.77

**Grinding Coolant Page 13**



**Brown Aluminum Oxide/Blue Zirconia Platen Belts**

SIZE	DESCRIPTION	40 GRIT	60 GRIT	80 GRIT	PKG QTY	1 BOX
<b>6 x 48</b>	"X" WT. Brown A/O	C354888			10	55.58
	"X" WT. Brown A/O		C354889		10	52.65
	"X" WT. Brown A/O			C354890	10	49.73
<b>6 x 48</b>	"Y" WT. Blue Zirc	C354868			10	90.68
	"Y" WT. Blue Zirc		C354869		10	83.07

*Sold in Package Quantities Only*

**Spiral Band (A/O Resin Bond Cloth)**

O.D. X WIDTH	36	60	80	PKG QTY	BOX
<b>3/4 x 1</b>	C355128			100	22.30
		C355129	C355130	100	22.30
<b>1 x 1</b>	C355099			100	25.74
		C355100	C355101	100	25.74

*100 Per Box*



**Premium Brown Aluminum Oxide  
Super Flexible Belts (New Composition)**

*Excellent customer satisfaction. Just a great product!*



LENGTH	WIDTH	A240	A320	A400	PKG QTY	BOX
60"	3/4 "	C355326	C355329	C355332	10	17.54
	1"	C355327	C355330	C355333	10	19.36
	1-1/4"			C355334	10	22.85
	1-1/2"			C355335	10	25.62
	2"		C371679	C371680	10	29.26
64"	3/4"	C355336	C355340	C355346	10	19.22
	1"	C355337	C355341	C355347	10	20.19
	1-1/4"	C355338	C355342	C355348	10	24.50
	1-1/2"	C355339	C355343	C355349	10	26.74
	1-3/4"		C371681	C371682	10	26.91
	2"		C371683	C371684	10	31.37
70"	3/4"	C355350	C355352	C355354	10	20.81
	1"	C355351	C355353	C355355	10	22.85
	1-1/4"			C355356	10	22.85
72"	3/4"	C355357	C355359	C355361	10	19.17
	1"	C355358	C355360	C355362	10	22.02
	1-1/4"			C355363	10	27.02
	1-1/2"			C355364	10	27.02
77"	3/4"	C355365	C355367	C355371	10	18.81
	1"	C355366	C355368	C355372	10	23.96
	1-1/4"		C355369	C355373	10	26.15
	1-1/2"		C355370	C355374	10	29.26
	1-3/4"		C371685	C371686	10	31.86
	2"		C371687	C371688	10	35.64
91"	3/4"	C355375	C355377	C355381	10	19.91
	1"	C355376	C355378	C355382	10	25.13
	1-1/4"		C355379	C355383	10	28.11
	1-1/2"		C355380		10	31.19
	1-3/4"		C371689		10	33.88
	2"		C371691		10	37.05

10 Per Box

**Customer Preferred** Crankshaft surface polishing belts manufactured with quality resin bonded J lightweight, flexible backing material that will give you consistent high quality surface finishes. Superior quality crankshaft polishing belt with a super flexible backing material that allows the operator to push the belt up on the radius of the crankshaft for smoother surface finishes. Applications range from heavy stock removal to precise fine finishing applications.



## MACHINE APPLICATION

<b>60" Berco SFN, Goodson, PCP1000, PCP1070, K-Line 8490</b>
<b>64" Regis CP-64, Storm (750), Atlas, Lempco, Van Norman 450, Peterson (SFN), K-Line 8490, 9300 Kwik-way (LMF), Goodson PCP-1070</b>
<b>70" Storm Vulcan (Mod. 70), K-Line 9300, Goodson (PCP-1070)</b>
<b>72" Tillis, Dumore, K-Line KL 9300, Goodson PCP-1070</b>
<b>77" Storm Vulcan #135, 135A, 135G, 135L,, 77 Portable, Kotafin</b>
<b>91" Van Norman (Van-O-Lite), Storm Vulcan, 135B, 135GA, 135J, Berco SF</b>

## Non-Woven (Scotch Material) Crankshaft Polishing Belts

DIMENSIONS	FINISH	COLOR	PRODUCT #	PKG QTY	EACH
<b>3/4 x 60</b>	Very Fine	Blue	C396226	1	18.82
<b>3/4 x 64</b>	Very Fine	Blue	C396227	1	18.82
<b>3/4 x 70</b>	Very Fine	Blue	C396228	1	18.82
<b>3/4 x 72</b>	Very Fine	Blue	C396229	1	18.82
<b>3/4 x 77</b>	Very Fine	Blue	C396230	1	18.82
<b>3/4 x 91</b>	Very Fine	Blue	C396311	1	23.98
<b>1 x 60</b>	Very Fine	Blue	C349756	1	20.87
<b>1 x 64</b>	Very Fine	Blue	C349757	1	20.87
<b>1 x 70</b>	Very Fine	Blue	C349758	1	20.87
<b>1 x 72</b>	Very Fine	Blue	C349759	1	20.87
<b>1 x 77</b>	Very Fine	Blue	C349760	1	20.87
<b>1 x 91</b>	Very Fine	Blue	C349761	1	26.04

1 Per Box

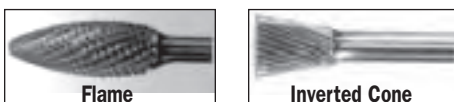
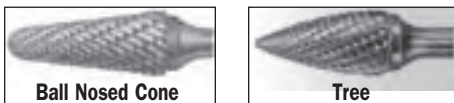
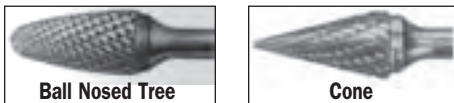
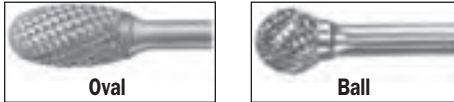
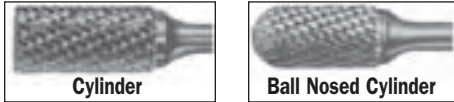
## Cork Belts 400 Grit with cork for polishing action

DIMENSIONS	FINISH	COLOR	PRODUCT #	PKG QTY	1-2 BXS
<b>3/4 x 60</b>	Micro-RA	Brown	C355422	1	12.38
<b>3/4 x 64</b>	Micro-RA	Brown	C355423	1	12.38
<b>3/4 x 70</b>	Micro-RA	Brown	C355424	1	12.94
<b>3/4 x 72</b>	Micro-RA	Brown	C355425	1	13.17
<b>3/4 x 77</b>	Micro-RA	Brown	C355426	1	13.37
<b>3/4 x 91</b>	Micro-RA	Brown	C355427	1	14.44
<b>1 x 60</b>	Micro-RA	Brown	C355428	1	12.38
<b>1 x 64</b>	Micro-RA	Brown	C355429	1	12.38
<b>1 x 70</b>	Micro-RA	Brown	C355430	1	12.94
<b>1 x 72</b>	Micro-RA	Brown	C355431	1	13.17
<b>1 x 77</b>	Micro-RA	Brown	C355432	1	13.37
<b>1 x 91</b>	Micro-RA	Brown	C355433	1	14.44

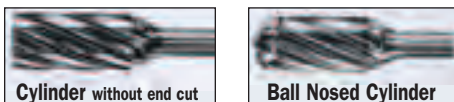
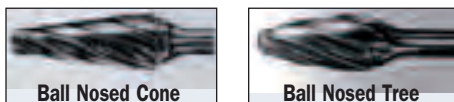
1 Per Box



*For micro-fine polishing of crankshafts with little to no stock removal. Customers love them.*



**Wide Fluted Aluminum Burrs**



**DoubleCut 1/4 Shank For Steel/Cast Iron**

HEAD DIAMETER/ HEAD LENGTH	LENGTH	SHAPE	PRODUCT #	EACH
5/16 x 3/4	2-1/2"	Cylinder	7348426	15.48
3/8 x 3/4	2-1/2"	Cylinder	7348427	16.69
1/2 x 3/4	2-1/2"	Cylinder	7348428	22.06
1/4 x 3/4	2"	Cone	7348429	14.74
3/8 x 5/8	2-1/2"	Cone	7348430	23.08
1/2 x 3/4	2-1/2"	Cone	7348431	28.27
1/2 x 7/16	2-1/2"	Counter Sink	7348432	20.12
3/8 x 3/16	2-1/4"	Counter Sink	7348433	16.50
5/8 x 5/16	2-1/2"	Counter Sink	7348434	26.79
5/16 x 3/4	2-1/2"	Ball Nosed Cylinder	7348435	16.87
3/8 x 3/4	2-1/2"	Ball Nosed Cylinder	7348436	18.45
1/2 x 3/4	2-1/2"	Ball Nosed Cylinder	7348437	25.49
3/8 x 3/4	2-1/2"	Ball Nosed Cone	7348438	20.76
3/8 x 1	3"	Ball Nosed Cone	7348439	23.08
1/2 x 1-3/16	3"	Ball Nosed Cone	7348440	28.18
5/16 x 1/2	2-1/4"	Oval	7348441	17.61
3/8 x 5/8	2-3/8"	Oval	7348442	18.45
3/8 x 3/4	2-1/2"	Tree	7348443	19.28
1/2 x 3/4	2-1/2"	Tree	7348444	26.23
1/2 x 1	2-3/4"	Tree	7348445	26.23
5/16 x 5/16	2"	Ball	7348446	13.63
3/8 x 3/8	2-1/8"	Ball	7348447	15.20
1/2 x 1/2	3-1/4"	Ball	7348448	20.39
1/4 x 1/2	2"	Flame	7348449	16.87
5/16 x 3/4	2-1/2"	Flame	7348450	19.00
1/4 x 5/8	2"	Ball Nosed Tree	7348451	14.37
3/8 x 3/4	2-1/2"	Ball Nosed Tree	7348452	18.08
1/2 x 1	2-3/4"	Ball Nosed Tree	7348453	26.80
3/8 x 3/4	6-3/4"	Cylinder	7348454	28.37
3/8 x 3/4	6-3/4"	Ball Nosed Cylinder	7348455	28.37
3/8 x 1	7"	Ball Nosed Cone	7348456	32.26
3/8 x 3/4	6-3/4"	Tree	7348457	29.29
3/8 x 3/8	6-1/2"	Ball	7348458	26.42
3/8 x 3/4	6-3/4"	Ball Nosed Tree	7348459	29.20

**10 or more Burrs Receive 10% Off**

*High quality Carbide  
Burrs for extra long life*



**Cartridge Rolls** *Superior grade cartridge rolls are glue bonded for high strength*

DIMENSIONS	SHAPE	A40	A60	A80	A120	BOX
3/8 x 1 x 1/8	Straight		C345546	C345547		14.42
3/8 x 1-1/2 x 1/8	Straight	C371936	C345549	C345550	C345551	18.72
3/8 x 1-1/2 x 1/8	Full Tapered	C371937	C345552	C345553	C345554	26.98
1/2 x 1 x 1/8	Straight		C345555	C345556		17.28
1/2 x 1-1/2 x 1/8	Straight	C371938	C345558	C345559	C345560	23.02
1/2 x 1-1/2 x 1/8	Full Tapered	C371939	C345561	C345562	C345563	30.80
5/8 x 1 x 1/8	Straight		C347666	C347667		24.33
5/8 x 1 x 1/8	Full Tapered		C347669	C347670		36.85
5/8 x 1-1/2 x 1/8	Straight	C371940	C347672	C347673		31.29
5/8 x 1-1/2 x 1/8	Full Tapered	C371941	C347675	C347676		42.43
3/4 x 1 x 1/8	Straight		C347678	C347679		28.51
3/4 x 1 x 1/8	Full Tapered		C347681	C347682		39.64
3/4 x 1 x 1/4	Straight		C347690	C347691		28.51
3/4 x 1 x 1/4	Full Tapered		C347693	C347694		39.64
3/4 x 1-1/2 x 1/8	Straight		C347684	C347685		35.46
3/4 x 1-1/2 x 1/8	Full Tapered		C347687	C347688		46.60
3/4 x 1-1/2 x 1/4	Straight	C371942	C347696	C347697		35.46
3/4 x 1-1/2 x 1/4	Full Tapered	C371943	C347699	C347700		46.60

Boxes of 50



**Taper Threaded Mandrels for Cartridge Rolls**

DIMENSIONS	OVERALL LENGTH	PRODUCT #	EACH
1/4 Shank, 1/8 Pilot	2 1/4"	C345544	3.42
	4"	C345545	3.87
	6"	C396231	5.99
	8"	C396233	7.99
1/4 Shank, 1/4 Pilot	2-3/4"	C347702	3.42
	4"	C347703	4.66
	6"	C396232	6.99

**Deluxe Engine Porting Kit**

The most complete and comprehensive cylinder head porting kit available today. Ideal for cast iron, aluminum heads, and intake manifolds. Individual components can be reordered for other deburring and polishing projects. Best results can be achieved when used with a straight air grinder or electric grinder with a 1/4" collet.

PRODUCT DESCRIPTION	PRODUCT #	1 KIT
Deluxe Engine Porting Kit	C362570	\$49.99

Price per kit

## Cloth Mechanical Locking Discs



*Female (Turn On)  
Locking  
Attachment*



*Male (Roll On)  
Locking  
Attachment*

### Brown A/O General Purpose

SIZE	GRIT	COLOR	ROLL-ON STYLE A/O	TURN-ON STYLE A/O	PKG QTY	BOX
<b>2"</b>	36	Brown	C354468		50	22.74
	40	Red	C354469		50	21.52
	50	Green	C354470		50	21.11
	60	Orange	C354471	C354499	50	20.30
	80	Yellow	C354472	C354500	50	19.89
<b>3"</b>	36	Brown	C354476		50	32.93
	40	Red	C354477		50	28.83
	50	Green	C354478		50	28.01
	60	Orange	C354479	C354507	50	27.61
	80	Yellow	C354480	C354508	50	26.80

### Blue Zirconia Long Life

SIZE	GRIT	COLOR	ROLL-ON STYLE A/Z	TURN-ON STYLE A/Z	PKG QTY	BOX
<b>2"</b>	36	Brown	C354484		50	26.39
	40	Red	C354485	C354513	50	25.17
	50	Green	C354486		50	24.36
	60	Orange	C354487	C354515	50	23.55
	80	Yellow	C354488		50	23.14
<b>3"</b>	36	Brown	C354490		50	34.92
	40	Red	C354491	C354519	50	34.10
	50	Green	C354492		50	33.29
	60	Orange	C354493	C354521	50	32.48
	80	Yellow	C354494		50	31.13



### Surface Conditioning Non-Woven (Scotch Material) Mechanical Locking Discs

SIZE	GRIT	COLOR	STYLE		PKG QTY	BOX
			ROLL-ON	TURN-ON		
<b>2"</b>	Very Fine	Blue	C355069	C355075	50	29.72
	Medium	Maroon	C355070	C355076	50	29.72
	Coarse	Brown	C355071	C355077	50	33.44
<b>3"</b>	Very Fine	Blue	C355072	C355078	25	26.01
	Medium	Maroon	C355073	C355079	25	26.01
	Coarse	Brown	C355074	C355080	25	29.72



**TURN-ON**

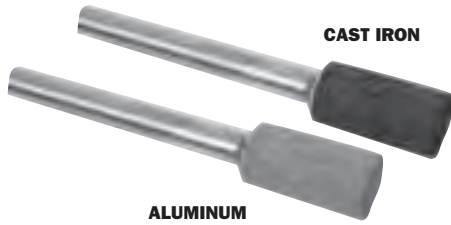
**ROLL-ON**

### Rubber Back-up Pads for Mechanical Locking Discs

SIZE	FLEX	PRODUCT #		EACH
		ROLL-ON PAD	TURN-ON PAD	
<b>2"</b>	Medium	C354735	C354737	8.81
<b>3"</b>	Medium	C354736	C354738	10.36

(All Back-up pads have 1/4 shank)

**Porting / Flap Wheels**



Excellent porting tool for cast iron and aluminum castings.

**Mandrel Mounted Porting Tools**

**1/4" x 4" Mandrel**

DIMENSIONS	SPECIFICATION	MATERIAL	PRODUCT #	PKG QTY	1 BOX
1/2 x 1"	C46-U-VAC	Cast Iron	7384469	10	45.42
5/8 x 1"	C46-U-VAC	Cast Iron	7384470	10	45.42
1/2 x 1"	Fiber 80-P	Aluminum	7384471	5	33.37

*sold in pkg qty only*

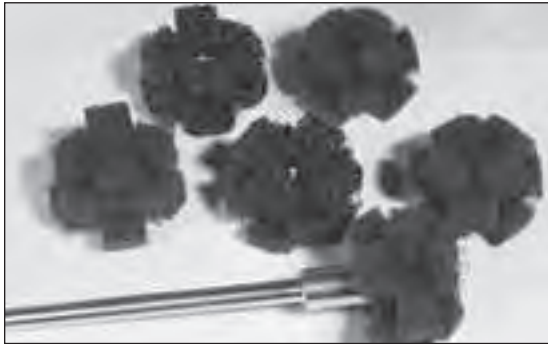
**Crossbuffs for Porting & Blending  
Cylinder Heads/Carburetors**

**1-1/2" OD, 3 ply, 8-32 threaded eyelet. Non-woven material**

GRIT	COLOR	PRODUCT #	PKG QTY	1 BOX
Fine	Maroon	C381365	50	100.80
Medium	Blue	C381366	50	100.80

**Crossbuff/Flap Wheel Mandrel 8-32" Threaded end**

OVERALL LENGTH	SHANK	PRODUCT #	PKG QTY	1 PC
4"	1/4"	C381367	1	5.54



**Crossbuffs** made exclusively to help auto mechanics hone and polish the I.D. of lifter bores, valve bodies and brake cylinders. Cleans and polishes the venturis of carburetors. Excellent for porting and blending cylinder head combustion chambers and valve pockets.

**Flap Wheels**



WHEEL SIZE DIA X WIDTH X SHANK	60	80	120	PKG. QTY	1 PC
1 x 5/8 x 1/4	C355012	C355026	C355040	10	1.95
1 x 1 x 1/4	C345528	C345529	C345530	10	3.31
1-1/2 x 1 x 1/4	C345531	C345532	C345533	10	4.45
2 x 1 x 1/4	C345534	C345535	C345536	10	5.59
3 x 1/2 x 1/4		C355032		10	3.90
3 x 1 x 1/4	C355019	C355033	C355047	10	4.55

*10 per Box*

**Flap Wheels - A/O 1/4" - 20 Thread**

WHEEL SIZE DIA X WIDTH	MAX RPM	60	80	120	PKG QTY.	BOX
1 x 1 x 1/4-20	30,000	C355872	C355873	C355874	10	25.42
1-1/2 x 1 x 1/4-20	30,000	C355875			10	35.30

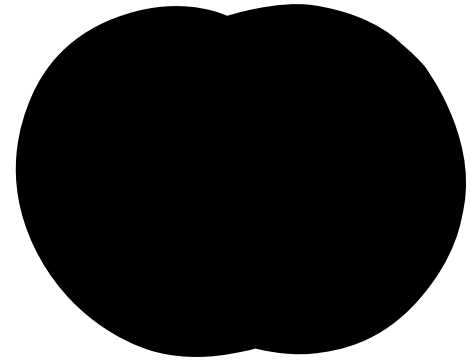
*(Use mandrel C381367 without 8/32" stud)*

*10 per Box*

## Convalute Deburring

Bench and Pedestal Mounted as well as Buffer mounted. Use to Deburr Piston Skirt Edges, Valve Spring Edges, all around cleaning and corrosion removal.

DIMENSIONS	SPECIFICATION	HARDNESS	PRODUCT #	QTY	PKG PRICE
6 x 1/2 x 1	8S-Fine	Medium	C400473	1	32.41
6 x 1 x 1	8S-Fine	Medium	C400474	1	45.43



## Buff and Blend Disc *Great for Valve Stems!*

### Non-Woven Red

Bench and Pedestal Mounted. Excellent product for deburring and cleaning of Small Parts like Valve Stems, Valve Springs, Pistons, Wrist Pins, etc. Mount as many discs on the spindle as the guard will allow. On Buffing Motor, mount as many as you would like. Safer and more user friendly than wire wheels. Wheels are very flexible and will fit 5/8" spindle.

DIMENSIONS BOX	COLOR	HARDNESS	PRODUCT #	PKG QTY	PRICE PER
6 x 3/8 x 1/2	Red	Medium	C400475	10	32.45
8 x 3/8 x 1/2	Red	Medium	C400476	10	54.09



## Non-Woven (Scotch Material) Hand Pads

DIMENSIONS	GRADE	COLOR	PRODUCT #	PKG QTY	BOX
6 x 9	Medium	Maroon	C355110	60	48.36

60 Per Box



## Aluminum Oxide Shop Rolls

DIMENSIONS	GRIT	PRODUCT #	BOX
<b>1 x 50 yds</b>	A80	C345537	20.56
	A100	C345538	20.56
	A120	C345539	20.56
	A150	C345540	20.56
	A180	C347657	20.56
	A240	C345541	20.56
	A320	C345542	20.56
	A400	C345543	20.56



DIMENSIONS	GRIT	PRODUCT #	BOX
<b>2 x 50 yds</b>	A80	C347658	39.20
	A100	C347659	39.20
	A120	C347660	36.99
	A150	C347661	36.99
	A180	C347662	36.99
	A240	C347663	36.99
	A320	C347664	36.99
	A400	C347665	36.99



## Fiber Discs for Right Angle Grinders

### Red General Purpose Aluminum Oxide Flexible Fiber Disc

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>• <b>A24</b></li> <li>• Heavy Stock Removal</li> <li>• Weld Grinding &amp; Blending</li> <li>• Coarse Abrasive</li> </ul> | <ul style="list-style-type: none"> <li>• <b>A36</b></li> <li>• Medium/Heavy Stock Removal</li> <li>• Weld Grinding &amp; Blending</li> <li>• Coarse Abrasive</li> </ul> | <ul style="list-style-type: none"> <li>• <b>A60</b></li> <li>• Light to Medium Stock Removal</li> <li>• Medium Abrasive</li> <li>• Weld Grinding &amp; Blending</li> </ul> |
|--|---|--|



DIMENSIONS	TYPE	MAX RPM	A24	A36	A60	PKG QTY	1 BOX	2+ BOXES
4 x 5/8	61	13300	C316074	C316075	C316076	25	.85	.82
4-1/2 x 7/8	61	13300	C316077	C316078	C316079	25	.96	.94
5 x 7/8	61	11000	C316080	C316081	C316082	25	1.03	.99
7 x 7/8	61	7600	C316083	C316084	C316085	25	1.32	1.29
9 x 7/8	61	6000	C316150	C316151	C316152	25	1.95	1.89

Sold In Boxes of 25

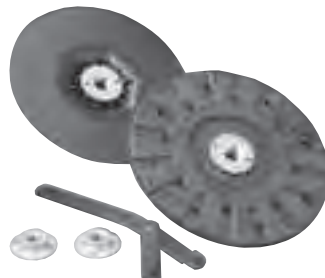


### Blue High Performance Zirconia Abrasive Flexible Fiber Disc

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>• <b>Z24</b></li> <li>• Heavy Stock Removal</li> <li>• Coarse Abrasive</li> <li>• Weld Grinding &amp; Blending</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Z36</b></li> <li>• Medium/Heavy Stock Removal</li> <li>• Coarse Abrasive</li> <li>• Weld Grinding &amp; Blending</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Z60</b></li> <li>• Light to Medium Stock Removal</li> <li>• Medium Abrasive</li> <li>• Weld Grinding &amp; Blending</li> </ul> |
|--|---|--|

DIMENSIONS	TYPE	MAX RPM	YNB24	YNB36	YNB60	PKG QTY	1 BOX	2+ BOXES
4-1/2 x 7/8	61	13300	C333959	C333960	C333961	25	1.14	1.11
5 x 7/8	61	11000	C333962	C333963	C333964	25	1.23	1.19
7 x 7/8	61	7600	C333965	C333966	C333967	25	1.91	1.85
9 x 7/8	61	6000	C333968	C333969	C333970	25	3.11	3.01

Sold In Boxes of 25



### Resin Fiber Discs Backing Pads

SIZE	FLEX	PRODUCT #	PKG QTY	1 PC
4	Medium	C354730	1	13.57
4-1/2	Medium	C354731	1	13.57
5	Medium	C354732	1	14.54
7	Medium	C354733	1	18.45
9	Medium	C354734	1	20.08

1 Per Box





**Mounted Points for Die Grinder**

**Type "A" Shape Mounted Points** *For Medium to Heavy Duty Blending and Contouring*

SHAPE/ MANDREL	DIAM.	THICK.	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PKG QTY	1-24 PCS	25+ PCS
A03-D2	1"	2-3/4"	55	WA60-R5-V2	16100	7122246	25	8.89	7.84
A04-D2	1-1/4"	1-1/4"	55	WA60-R5-V2	30560	7122270	25	5.64	4.97
A05-D2	3/4"	1-1/8"	55	WA60-R5-V2	45000	7122300	25	4.77	4.21
A11-D2	7/8"	2"	55	A36-Q-V1	19860	7122319	25	6.07	5.35
A11-D2	1-1/8"	1-1/8"	55	WA60-R5-V2	19860	7122343	25	6.07	5.35
A12-D2	11/16"	7/8"	55	WA60-R5-V2	48000	7122351	25	4.77	4.21
A14-D2	1"	1"	55	WA60-R5-V2	55560	7122394	25	3.58	3.16
A23-D2	3/4"	1"	55	WA60-R5-V2	39370	7122483	25	3.58	3.16
A25-D2	1"	1"	55	WA60-R5-V2	35620	7122521	25	3.90	3.44
A31-D2	1-3/8"	1"	55	WA60-R5-V2	27780	7122548	25	4.77	4.21
A36-D2	1-5/8"	3/8"	55	WA60-R5-V2	23520	7122637	25	4.77	4.21
A38-D2	1"	1"	55	WA60-R5-V2	34500	7122696	25	3.25	2.87
A39-D2	3/4"	3/4"	55	WA60-R5-V2	47250	7122718	25	2.71	2.39

**Type "B" Mounted Points** *For Light Blending in Small Areas*

SHAPE/ MANDREL	DIAM.	THICK.	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PKG QTY	1-24 PCS	25+ PCS
B43-D1	1/4"	5/16"	55	WA60-R5-V2	81370	7122815	25	3.04	2.67
B52-D1	3/8"	3/4"	55	WA60-R5-V2	45370	7122939	25	3.25	2.87
B53-D1	5/16"	5/8"	55	WA60-R5-V2	60000	7309614	25	3.25	2.87
B81-D1	3/4"	3/16"	55	WA60-R5-V2	50930	7318865	25	3.04	2.67
B97-D1	1/8"	3/8"	55	WA90-R5-V2	105000	7123170	25	3.04	2.67
B123-D1	3/16"	3/16"	55	WA90-R5-V2	104250	7123340	25	2.71	2.39
B132-D1	3/8"	1/2"	55	WA60-R5-V2	45370	7123420	25	2.38	2.11

**Type "W" Shapes & Sizes** *For Off-Hand and Precision Grinding of Medium to Heavy Stock*

SHAPE/ MANDREL	DIAM.	THICK.	TYPE	SPECIFICATION	MAX RPM	PRODUCT NUMBER	PKG QTY	1-24 PCS	25+ PCS
W145-D1	1/8"	3/8"	55	WA90-R5-V2	105000	7123528	25	2.38	2.11
W154-D1	3/16"	1/2"	55	WA90-R5-V2	70500	7123587	25	2.38	2.11
W163-D1	1/4"	1/2"	55	WA60-R5-V2	60000	7123714	25	2.38	2.11
W164-D1	1/4"	3/4"	55	WA60-R5-V2	45900	7161020	25	2.49	2.20
W176-D1	3/8"	1/2"	55	WA60-R5-V2	45370	7123803	25	2.38	2.11
W179-D2	3/8"	1-1/4"	55	WA60-R5-V2	45750	7916536	25	3.47	3.06
W185-D2	1/2"	1/2"	55	WA60-R5-V2	61500	7123919	25	2.38	2.11
W188-D2	1/2"	1-1/2"	55	WA60-R5-V2	30370	7123978	25	4.11	3.63
W196-D2	5/8"	1"	55	WA60-R5-V2	35250	7318869	25	3.04	2.67
W204-D2	3/4"	3/4"	55	WA60-R5-V2	42750	7124095	25	2.71	2.39
W217-D2	1"	3/8"	55	WA60-R5-V2	38200	7124281	25	2.71	2.39
W220-D2	1"	1"	55	WA60-R5-V2	25500	7124362	25	3.25	2.87
W236-D2	1-1/2"	1/2"	55	WA60-R5-V2	25470	7124524	25	3.47	3.06
W242-D2	2"	1"	55	WA60-R5-V2	19100	7161195	25	5.20	4.59

**D1 = 1/8" x 1-1/2"**

**D2 = 1/4" x 1-1/2"**

## RECOMMENDATIONS FOR SINGLE POINT DRESSERS

### 1. Mounting the dressing tool

- Mount the tool with minimum overhang to avoid vibration.
- Never mount a dressing tool in an oversize hole. (3/8" shank tool in a 7/16" holder.)
- Mount the diamond with a 10 to 15 degree drag angle pointing in the direction of wheel travel. When a straight dressing fixture is mounted on the table, position the diamond point 2" past the center. A diamond pointing to the center of the wheel, will cause vibration and shorten the tool life considerably. (Figure 1)

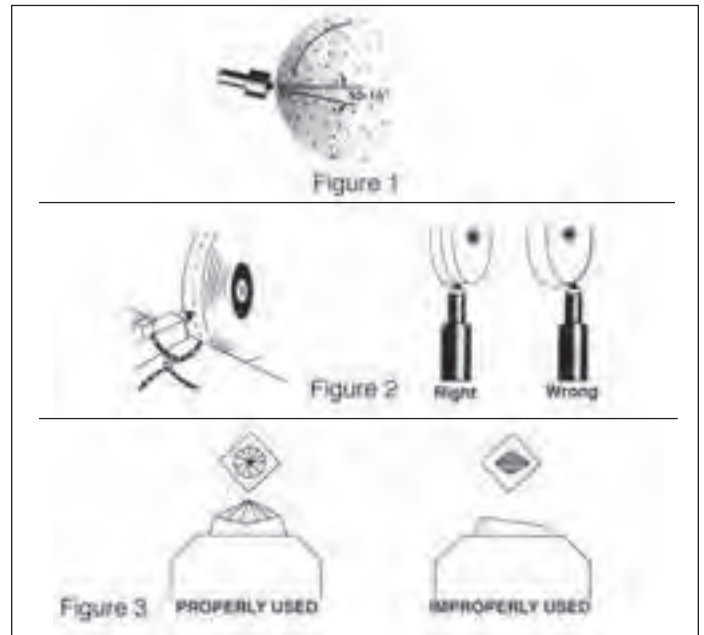
### 2. Coolant

- Dress dry when grinding dry. Dress with coolant if it is used during the grinding cycle.
- Do not turn the coolant on after the dressing cycle was started dry. The thermal shock may fracture the diamond.
- Direct a generous flow of coolant to the diamond at all times.

### 3. Operating parameters

- Start the dressing cycle in the center of the wheel. (Figure 2)
- Traverse rate. See chart below.
- Infeed.
 

36 to 60 grit wheels	.0005" to maximum .001"
80 to 180 grit wheels	.0005" to maximum .001"
230 grit and finer	.0002" to maximum .0005"
- Index the diamond dresser frequently.  
When the diamond wears, the increased contact area will generate more heat and shorten the tool life. Index the dresser 20 to 30 degree when the wear flat reaches 1/16". The diamond will then develop a conical wear pattern. (Figure 3)
- **Have the diamond reset before a 3/32" flat develops.**  
FOR CERAMIC WHEELS REDUCE INFEEED RATE BY 50% AND INCREASE THE TRAVERSE RATE. GOOD QUALITY DIAMONDS WITH A SHARP POINT ARE RECOMMENDED.



### Recommended Trueing Time Cycle for Single Point Dressers

To calculate the trueing cycle take into account:

- The grit size of the grinding wheel.
- The speed of the grinding wheel.
- The width of the grinding wheel.

These are the reasons.

- To dress an open structure and aggressive grinding wheel, the diamond should not hit each abrasive grain more than once per revolution. Therefore grit size and wheel speed will determine the traverse rate.
- To achieve a better finish slow down the traverse rate to hit each grain maximum 2 times per revolution. If the traverse rate is too slow the diamond dulls the abrasive and the grinding wheel will burnish and cause heat checks.

### Chart Of Trueing Times In Seconds Per Inch

Lower figures for open wheel — Higher figures for finish

Rev/Min	Grit Size								
	36	46	54/60	80	100	120	150	180	220
500	6-10	8-15	12-20	18-30	24-40	30-50	35-56	40-60	50-80
750	4-7	6-10	8-13	12-20	16-26	20-33	27-42	30-45	38-60
1,000	3-5	4-8	6-10	9-15	12-20	15-25	18-28	20-30	25-40
1,250	2-4	3-6	5-8	7-12	10-16	12-20	14-22	16-24	20-32
1,500	2-3	3-5	4-7	6-10	8-14	10-17	12-19	13-20	17-27
1,750	1.5-3	2.5-4	3.5-6	5-9	7-12	9-14	10-16	11-17	14-23
2,000	1.3-2	2-4	3-5	4-8	6-10	8-12	9-14	10-16	11-17
2,500	1-2	1.5-3	2.5-4	3.5-6	5-8	6-10	7-11	8-12	10-16
2,750	1-2	1.4-2.8	2-3.5	3-5.5	4-7	5.5-9	6-10	7-11	9-15
3,200	.9-1.7	1.3-2.6	1.7-3	2.6-5	3-6	4.5-8	5-9	6-10	8-13
3,600	.8-1.5	1-2	1.5-2.5	2.3-4	2.5-5	4-7	4.5-8	5-8.5	7-12

### Instructions

1. Check the spindle speed.
2. Go to the corresponding grit size column.
3. Multiply the indicated seconds by the width of the wheel.
4. The lower figure applies to dress an open wheel.
5. The higher figure results in a finer finish.

**EXAMPLE:** For a 36" x 4" 46 grit wheel running at 500 RPM, the dressing time will be 8 seconds x 4 = 32 seconds to dress an open wheel, 15 x 4 = 60 seconds to dress for finer finish.

These calculations assume that a relatively sharp diamond is used.

CRANKSHAFT GRINDING		
Problem	Possible Causes	Suggested Correction
<b>Poor Finish</b>	Wheel too coarse or too soft Improper wheel dressing  Dress traverse too fast	Use harder grade and/or finer grit Use sharp, rigidly held diamond tool with point contact below center Dress wheel finer
<b>Flats Generated on Diameter</b>	Wheel too hard Wheel out of balance Steady rest deflection	Use softer cutting wheel Balance wheel Ensure rigid steady rest
<b>Chatter in Radii</b>	Poor quality coolant Dull diamond in radii attachment Work head speed too high Too high stock removal	Check coolant concentrator Check and replace Slow work head speed Reduce stock removal rate
<b>Thrust Face Poor Geometry (stepped/taper)</b>	Wheel too soft  Workspeed too high Wheel speed too low  Tapered wall wheel too hard	Use harder acting, better corner holding wheel Slow work speed Increase wheel speed, check correct pulley Use softer acting wheel
<b>Thrust Face Burning</b>	One side burning – poor diamond dressing Both sides burning – poor diamond dressing	Redress and/or redress at increased infeed Use corner diamond dress & check for worn diamond

FLYWHEEL GRINDING		
Problem	Possible Causes	Suggested Correction
<b>Poor Surface Finish or Quality of Grind</b>	Dirty coolant Wheel too soft use hard grade wheel Wheel too coarse  Poor wheel dressing  Machine vibration	Clean coolant through filter Dress wheel finer  Dress wheel finer or use finer grit wheel Check diamond sharpness and redress Check worn bearings and clamping
<b>Burning of Work Piece</b>	Poor coolant flow  Wheel too hard  Infeed too fast	Increase or direct coolant to grinding contact Dress wheel coarser or use softer wheel Reduce amount of stock removed per pass
<b>Wheel Corner</b>	Poor wheel dressing Wheel too soft	Dress wheel finer Use harder grade wheel
<b>Wheel Loading or Glazing</b>	Wheel too hard Dirty coolant Poor wheel dressing	Use softer grade wheel Filter coolant or replace with new Redress more frequently Reduce coolant 50% and direct to outer diameter of flywheel

CRANK/CAM MOUNTING PROCEDURES
<ol style="list-style-type: none"> <li>1. Clean both flanges and bolts thoroughly.</li> <li>2. Place flange that goes against the motor side down first on a table and apply one blotter.</li> <li>3. Place wheel on the flange with <b>Mount Up</b> mark at 12 noon.</li> <li>4. With your left hand holding the flange, take your right hand and put it at the 12 Noon position to hold the wheel. At this time with your left hand push or bump the flange to the top side of the arbor hole and apply one blotter.</li> <li>5. Apply ring flange for balance weights at this time with all the mounting bolts.</li> <li>6. With a ratchet and correct size Allen socket snug bolts firmly.</li> <li>7. Using a torque wrench, cross torque all bolts to 20 ft. lbs. Repeat torque sequence twice or as needed to retain 20 ft. lbs.</li> <li>8. It is always a good idea after running the wheel for a while to stop it and recheck the torque on the flange bolts.</li> </ol>

CAMSHAFT GRINDING		
Problem	Possible Causes	Suggested Correction
<b>Chatter on Cam Nose</b>	Interference of rocker bar motion  Scored bearings  Insufficient lubrication  Insufficient rocker tension	Sludge jamming motion, clean or replace Check for irregularities in rocker bearings Tight bearings in rocker bar – lubricate Tighten rocker tension
<b>Irregular Ramp Contour</b>	Interference of rocker motion  Loose bearings  Insufficient contact between master cam and follower	Sludge jamming motion or scored bearing; clean and/or replace; lubricate Check bearings for excessive wear Ensure positive contact between masters
<b>Poor Quality</b>	Wheel too coarse Wheel too hard  Poor quality of dressing  Dirty coolant  Poor coolant concentrate	Use finer grit wheel Use softer grade of grinding wheel Ensure quality diamond and dress technique Ensure clean coolant and change filter regularly Check coolant

SURFACE GRINDING		
VERTICAL SPINDLE - T-2 OR SEGMENTS:		
Problem	Possible Causes	Suggested Correction
<b>Chatter</b>	Segments too hard Interrupted cut and set up not rigid	Use softer grade segments Adjust loading and blocking or clamping
<b>Poor Finish</b>	Segments too soft Grinding rate too fast	Use harder grade segments Slow grinding rate
<b>Burn</b>	Segments too hard Grinding rate too slow Poor coolant application	Use softer grade segments Increase grinding rate Adjust coolant flow

CUTTING-OFF		
Problem	Possible Causes	Suggested Correction
<b>Poor Cutting Rate</b>	Insufficient power being used	Increase feed or pressure to pull full power
	Wheel too hard	Use softer wheel or thinner wheel
	Contact area too large Wheel out of side truth	Reduce contact area to minimum Check spindle and wheel
<b>Poor Quality Cut</b>	Non square cuts	See appropriate section below
	Work piece burn	Wheel too coarse Use finer grit
	Wheel too hard	Spasmodic wheel breakdown Use softer wheel
<b>Non-Square Cuts</b>	Work not clamped properly	Check clamp and clean to remove swarf
	Misaligned spindle bearings	Check for bearing truth and alignment
	Poor coolant distribution	Ensure equal volume of coolant to each wheel side
	Wheel too hard	Use softer acting wheel - softer grade/finer grit
<b>Work Piece Burn</b>	Insufficient feed rate	Work machine to maximum power available
	Poor coolant flow	Increase volume and direct at cutting point
	Wheel too coarse	Use finer grit wheel or pull more power
	Wheel too hard Wheel running out	Use softer grade wheel Check spindle and clock wheel side truth
	Wheel speed too slow	Ensure no wheel slippage and maximum speed being used
<b>Poor Finish</b>	Too much burr	Use finer grit or softer wheel
	Wheel too coarse	Use finer grit

MOUNTED WHEELS		
Problem	Possible Causes	Suggested Correction
<b>Wheel Loading (metal lodged in wheel pores)</b>	Wheel too fine	Use coarser grit wheel
	Wheel too hard	Use softer grade wheel
	Wheel too finely dressed	Give a more open dressing to wheel
	Poor coolant Insufficient wheel breakdown	Increase supply and clean coolant Increase work and traverse speeds
<b>Chatter Marks</b>	Wheel too hard Spindle material not rigid enough Defective belt Wheel out of balance or truth	Use softer wheel Replace spindle Replace belt Balance and/or true wheel . . . avoid use of bushed wheels Clean inside surface of pulleys
	Dust or other particles inside wheel motor pulley Worn spindle Machine not on solid foundation	Replace spindle Assure machine is properly aligned and not adjacent to heavy vibrating machines

BELT FINISHING		
Problem	Possible Causes	Suggested Correction
<b>Poor Surface Finish</b>	Coarse grit size	Try finer grit size
	Loading	Clean with wire brush Reverse belt direction
<b>No cutting Action or Slow Cutting</b>	Belt worn out	Replace belt with coarser grit
	Loading Fine grit size	Clean with wire brush Reverse belt direction

DIAMOND DRESSING TOOLS		
Problem	Possible Causes	Suggested Correction
<b>Chatter Marks</b>	Out of balance	Balance carefully on own mount in and rebalance after truing operation
	Out of round	True before and after balancing
	Acting too hard	Use faster dressing feed and traverse
<b>Scratching of the Work</b>	Coarse grit or loading of foreign matter in wheel	Dress the wheel
<b>Checking or Burning of the Work</b>	Wheel too hard	Use a faster dress to open the wheel face
	Poor dress	
<b>Diamond Lines in Work</b>	Dressing too fast	Slow dress the wheel face
<b>Inaccuracies in Work</b>	Improper dressing	Check alignment of dress
<b>Rate of Cut Too Slow</b>	Dressing too slow	Increase the dressing rate to open the wheel face
<b>Wheel Acting Too Soft (not holding size)</b>	Improper dress	Use lighter dressing feed Possibly slow down traverse rate
<b>Wheel Loading</b>	Infrequent dress	Dress wheel more often

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would like to thank you,  
the dedicated end users  
of our quality products.  
We depend on you.*

## MATERIAL & JOB

<b>Acrylics</b>	
Centerless	.C60-J5-V4
Cut-Off	.C60-05-B20
<b>Alnico</b>	
Centerless	.CA54-Q8-B7595
Cylindrical	.WAA60-L8-V1
Surface	.RAA60-H2-VOS
Surface (Segments)	.HS30-G20-V
Surface (Cylinder)	.HS30-H20-V
Internal	.RAA60-K8-V8
Cut-Off	.A60-05-B20F8
<b>Aluminum</b>	
Cylindrical	.C54-J8-V4
Surface	.C36-I8-V4
Surface (Segments)	.9A54-F800C-VOS
Surface (Cylinder)	.9A54-F800C-VOS
Internal	.C36-J5-V4
Weld Grinding	
Depressed Center T27	.C24-TB
Flared Cup T11	.C16-PB
Cut-Off (Reinf.)	.A24-Z-BLF2
<b>Bearings</b>	.Consult Product Engineering
<b>Bolts</b>	
Cylindrical	.WAA60-M8-V1
Centerless	.WAA60-N8-V1
<b>Brass</b>	
Cylindrical	.C36-L8-V4
Centerless	.C36-M8-V4
Internal	.C46-K8-V4
Weld Grinding	
Depressed Center T27	.C24-TB
Flared Cup T11	.C16-PB
<b>Broaches</b>	
Sharpening	.WRA60-J5-V8
<b>Bronze, Soft</b>	.Same As Brass
<b>Bronze, Hard</b>	
Cut-Off	.TA24-RBF8
<b>Bushings</b>	
Cylindrical	.WAA60-K8-V1
Centerless	.WAA60-L8-V1
Internal	.RAA60-K8-V8
<b>Cams, Automotive/Diesel</b>	
Roughing (Good)	.WAA60-M8-V1
Finishing (Good)	.WAA80-M8-V1
Roughing (Better)	.43A60-K8-V1
Finishing (Better)	.43A80K8-V1
<b>Carbides</b>	.Same As Cemented Carbides
<b>Carboly</b>	.Same As Cemented Carbides
<b>Cast Iron</b>	
Cylindrical	.C46-K8-V4
Centerless	.C46-L8-V4
Internal	.C46-K8-V4
Surface	.C36-I8-V4
Cyl. & Seg.	.9A30-G800-VOS
or	.HS30-G20V
Snagging	
9500 SFPM	.YB143-P5-B51F
12500 SFPM	.YB124-R5-B51F
Portable	.CA16-P5-B10
<b>Cemented Carbides</b>	
Roughing	
Straight Wheel	.GC60-J5-VL
Dish Wheel	.GC60-J5-VL
Plate Mounted	.GC60-J14-VL
Finishing	
Straight Wheel	.GC120-J5-VL
Plate Mounted	.GC120-J14-VL
Centerless	.GC80-M7-V4
<b>Cemented Carbides Continued</b>	
Cylindrical	
Roughing	.GC60-K5-V4
Finishing	.GC120-05-V4
Internal	.GC80-L5-V4
<b>Chromium Plating</b>	
Commercial Finish	.RA80-K8-V8
Fine Finish	.RA120-J8-V8
<b>Connecting Rods</b>	
Internal	.RAA60-K8-V8
Surface, Segments	.GP30-H20-V
Surface, Cylinder	.97A46-H800-V
<b>Chrome Alloy</b>	
Cut-Off	.A46-TBF8
Surface	.97A46-I3-VOS
Internal	.RAA60-K8-V8
<b>Crankshaft, Automotive</b>	
Pin Bearing	.WAA54-M5-V1
Main Bearing	.WAA54-M5-V1

## MATERIAL & JOB

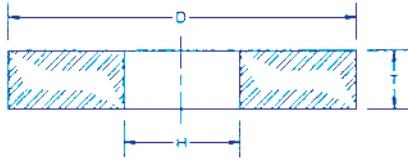
<b>Crankshaft, Automotive continued</b>	
Regrinding	.WAA54-M5-V1
<b>Crankshaft, Diesel</b>	
Pin Bearing	.WAA54-M5-V1
Main Bearing	.WAA54-M5-V1
<b>Cutters, Molding</b>	
Offhand	.WRA60-L5-V8
<b>Drills</b>	
Cut-Off	.A46-P5-B20
Small, Regrinding	.WRA80-L8-V8
Large, Regrinding	.WRA46-L8-V8
<b>Flywheel</b>	
Cast Iron	.Superabrasives/CWA36-J5-B35
Aluminum	.CWA36-H5-B35
Steel	.Superabrasives/CWA36-I5-B35
Steel	.Superabrasives/WA36-H5-V8
<b>Gears, Hardened Steel</b>	
Internal	.RAA60-K8-V8
Surface, Segments	.HS30-H20-V
Surface, Cylinder	.RAA46-H800-VOS
Surface, T-1	.RAA46-G800-VOS
<b>Glass, Tubing</b>	
Cylindrical	.C60-J5-V4
<b>Glass, Tubing</b>	
Internal	.C80-H5-V4
<b>Gray Iron</b>	.See Malleable Iron - Unannealed
<b>Lexan</b>	.See Acrylics
<b>Machine Shop Grinding</b>	
General Offhand	.A46-M5-V1
Gen. Seg. Grind	.GP30-G20-V
<b>Malleable Iron - Annealed</b>	
Snagging	
12500 SFPM Snagging	.YB124-R5-B51F
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</b>	.Same As Cast Iron
<b>Monel Metal</b>	
Cut-Off	.A24-ZX-BNF2
Snagging	.A24-P5-B10
Cylindrical	.C60-J8-V4
<b>Ni Hard</b>	
Surfacing (Segments)	.GP30-G20-V
<b>Nitralloy</b>	
Before Nitriding	.WAA60-K8-V1
After Nitriding	.WAA80-J8-V1
<b>Pipe, Soft Steel</b>	
Cut-Off	.TA30-RBF8
<b>Pistons, (Aluminum and Cast Iron)</b>	
Cylindrical	.C46-L8-V4
Centerless	.C46-M8-V4
Regrinding	.WAA46-J8-V1
<b>Piston Pins, Centerless</b>	
Roughing	.WAA60-L8-V1
Finishing	.20/40-220-KF221M
<b>Plastics</b>	.See Acrylics
<b>Plexiglass</b>	.See Acrylics
<b>Polystyrene</b>	.See Acrylics
<b>Ramet</b>	.Same As Cemented Carbides
<b>Reamers</b>	
Backing Off	.WRA46-J8-V8
Cylindrical	.WAA80-L8-V1
<b>Rexalloy</b>	.See Stellite
<b>Roller Bearing Cups</b>	
Centerless	.A60-L5-V1
Cylindrical	.WAA60-L8-V8
Internal	.RAA54-K8-V8
<b>Rollers for Bearings</b>	
Centerless	.CA90-Q6-RB9
<b>Rolls, Cast Iron</b>	.C36-I5-B35
<b>Shear Blades</b>	
Cylinder	.97A30-G800-VOS
Segments	.GP30-H20-V
<b>Side Gears, Auto</b>	.WRA60-K8-V1
<b>Spline Shafts</b>	
Centerless	.A60-L5-V1
Cylindrical	.WAA60-L8-V1
Surfacing Splines	.WAA60-L8-V1

## MATERIAL & JOB

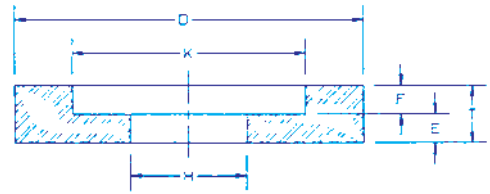
<b>Steel Castings</b>	
Snagging	
12500 SFPM	.YB143-R5-B51F
9500 SFPM	.A16-R5-B10
Portable	.A16-R5-B10
<b>Steel, Hardened</b>	
Centerless	.WAA60-L8-V1
Cylindrical	.WAA60-K8-V1
Surface, Segments	.HS30-H20-V
Surface, Cylinder	.RAA30-G800-VOS
Surface, T-1	.RAA46-G800-VOS
Internal	.RAA60-K8-V8
Cut-Off	.A46-P5-B20F8
<b>Steel, Soft</b>	
Centerless	.A60-L8-V1
Cylindrical	.A60-K8-V1
Surface, Segments	.GP30-H20-V
Surface, T-1	.97A46-H800-VOS
Internal	.RAA60-K8-V8
Cut-Off	.A46-P5-B20F8
<b>Steel, Tool &amp; High Speed</b>	
Centerless	.WAA60-L8-V1
Cylindrical	.WAA60-J8-V1
Surface, Segments	.HS30-G20-V
Surface, Cylinder	.WA301-G8-V8
Surface, T-1	.WRA60-J8-V8
<b>Steel, Stainless</b>	
Centerless	
300 Series	.WAA60-K8-V1
400 Series	.WAA60-K8-V1
Cylindrical	.WAA60-K8-V1
Internal	.RAA60-K8-V8
Surface, Segments	.HS30-H20-V
Surface, Cylinder	.WRA30-G800-VOS
Surface, T-1	.RAA60-H800-VOS
Cut-Off	.A46-P5-B20F8
<b>Stellite</b>	
Cylindrical	.WAA60-L8-V8
Offhand	.WAA46-L8-V8
Surface, Segments	.HS30-G20-V
Surface, Cylinder	.RAA30-G800-VOS
Surface, T-1	.RAA60-H800-VOS
Cut-Off	.A46-P5-B20F8
Tool & Cutter	.WRA60-I8-V8
or	.RA60-H800-VOS
<b>Tantalum</b>	.Same As Steel, Tool and High Speed
<b>Tangtung</b>	.Same As Steel, Tool and High Speed
<b>Taps</b>	
Grinding Relief	.WRA80-K8-V8
Fluting	
Small Taps	.XL902-S12-BFM2
Large Taps	.XL802-S12-BFM2
Threading	.XL1801-S12-BFM2
Shanks	
Cylindrical	.WAA60-K8-V1
<b>Titanium Alloy</b>	
Centerless	.CA54-Q6-RB9
Cylindrical	.C60-J8-V4
Portable	.C24-P5-B10
Surface	.C60-K800-V4
<b>Tubes, Steel</b>	
Centerless	.A60-L5-V1
Cut-Off	.A46-P5-B20F8
<b>Valves, Automotive</b>	
OEM	.WRA80-K-V8
Stellite/OEM	.WA120-I+6-V8
Titanium/Stellite/OEM (Best)	.GC100-J6-V4
Titanium/Stellite/OEM	.WA120-I+6-V28
Stems	
Roughing	.WAA80-L5-V1
Finishing	.WAA80-L5-V1
<b>Valve Seats</b>	
Stellite	
Roughing	.Ruby Coarse
Finishing	.White Fine, Ruby Fine,
Also Gray Black Fine with light pressure	
Cast Iron	
Roughing	.Ruby Coarse
Finishing	.Gray Black Fine
Finishing	.White Fine
Finishing	.Ruby Fine
<b>Welds</b>	
Depressed Center (Reinforced)	
Fast Cut	.A24-T-B
Long Life	.YNB24-R-B
Portable Straight and Cup Wheels	
9500 SFPM	.A16-P5-B10

Contact Application Engineering for Special Requirements

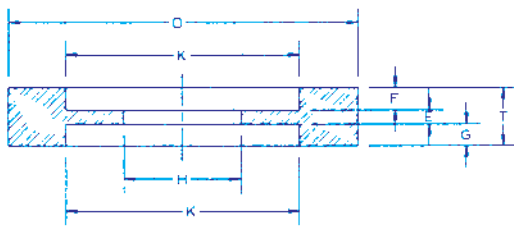
# STANDARD WHEEL SHAPES



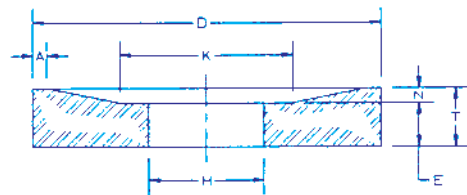
Type 1, Straight



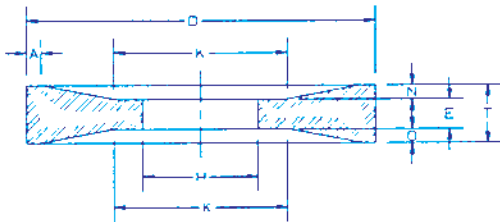
Type 5, Recessed 1 side



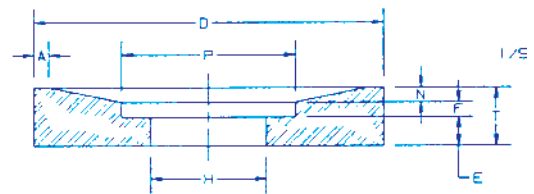
Type 7, Recessed 2 sides



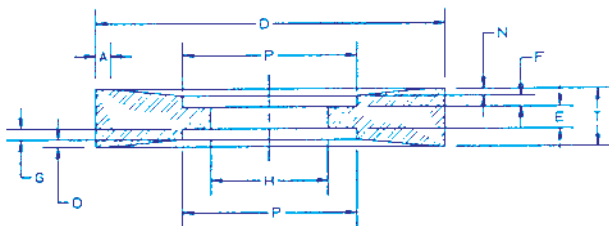
Type 20, Relieved 1 side



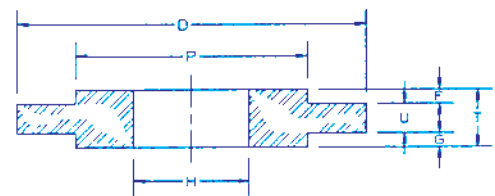
Type 21, Relieved 2 sides



Type 23, Relieved 1 side, Recessed 1 side



Type 26, Relieved 2 sides, Recessed 2 sides



Type 58, Raised Hub 2 sides



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