

From The President's Desk

The definition of ownership is the act or right of possessing something.
At Goodson, we are completing the second year of being a 100% employee-



Roger Schumacher, Goodson President

owned company. Back on January 2, 2020, we celebrated this new opportunity as employee-owners. Among the GOODSON team at the time there was excitement but also nervousness as every employee now had skin in the game. Little did we know the unthinkable challenges and hurdles lurking ahead as a few short months later, "business as usual" ceased to exist. For decades, GOODSON has promised our customers:

- Top notch customer service
- · Same-day shipping
- · Iron-Clad Guarantee
- · Goodson Techxperts at your service
- Full Service ... Fast!

Through all that we have gone through these past two years as individuals, businesses, and a country, at Goodson, it has galvanized our belief in our GOODSON core values. The definition of ownership hasn't changed. At GOODSON we promise to take ownership in finding the best tools and supplies for your needs at the best price.

GOODSON Ironclad Guarantee

Goodson won't risk losing your business for any reason. If you're not 100% satisfied with your purchase, we'll fix it,

exchange it or credit your account for the purchase price. To send an item back, just include a note detailing the reason for the return and ship it back, freight pre-paid within 60 days. The only time we can't honor this guarantee is if a tool has been damaged through misuse or modification. All abrasives have a shelf life so we can only guarantee them for one year from the original purchase date.

At GOODSON we take ownership in having the product you need on the shelf and shipping it to you the same day. At GOODSON we take ownership in earning your business each time you call, email or visit our website. At GOODSON we take ownership in making your overall experience in doing business with us easy and pleasant, so you keep coming back for more!

Thank you for the honor of your business!

Do You Have An Idea For The Next Great Product?

Many of the ideas for our most successful new products come directly from you, the guys in the shop. You work in this industry and have come up with some creative solutions to everyday problems. A great case in point is the Bucket Lifter Grinder you'll find over on page 45.



Richard Orlikowski, Goodson Product Manager

Contact me, Richard Orlikowski, a call to learn more about how you can have Goodson produce and market your new product idea.

Contact Us

Goodson offices are open from 8:00am to 5:00pm, Monday through Friday (Central time).

Phone: 1-800-533-8010 (US & Canada) 1-507-452-1830 (International)

Fax: 1-888-466-3909 (US & Canada) 1-507-452-2907 (International)

Please note that the Goodson offices will be closed in observance of these 2023 holidays: New Year's Day (January 2), Easter (April 7), Memorial Day (May 29), Independence Day (July 4), Labor Day (September 4), Thanksgiving (November 23 & 24), Christmas (December 22 & 25) and New Year's Eve (December 29).

We're always open on the web!

Web: www.goodson.com Email: orderdesk@goodson.com

ULTRA 2000

ULTRASONIC, LLC
Cleaning Machines
& Supplies
Are Now
Available
From

We've partnered with **ULTRASONIC**, **LLC** to offer you their full line of Ultrasonic Cleaners - from the Personal Size all the way up to the 7.5 gallon model. You can also buy cleaning solutions, filters and more from Goodson. All ULTRASONIC, LLC machines and supplies will ship from ULTRASONIC, LLC directly to your shop!

Visit **Goodson.com** to see the complete selection today. Use your smart phone or smart device to scan the code at right for instant access.





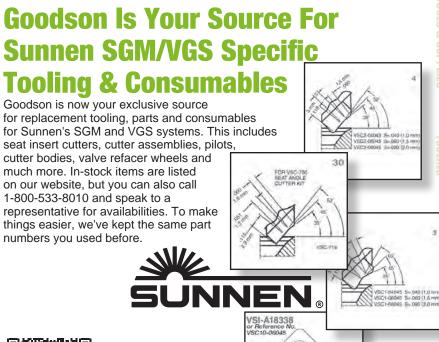
Cylinder Hone Center Adjustment Pinion

Goodson

- Every Sunnen® AN-112, AN-815 and Goodson GH-2555 include the AN-16 Center Adjustment Pinion at purchase
- Use to adjust the stone honing diameter
- The Adjustment Pinion will wear over time so must be replaced
- Order No. AN-16



Scan the code above with the camera on your smart phone or other smart device for quick access to our Tech Lab Tuesday video showing how important the AN-16 is for cylinder honing success.



Scan the code at left with the

camera on your smart phone

access to these items on our

website.

or other smart device for quick

RAPIDEX

A rapid-use index of product categories

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Policies

See page 84 for more information about these policies.

Pricing:

Prices are subject to change without notice. There is no minimum order. Orders are billed at the prices in effect at the time of shipping. Discounts are not available on Sunnen® products.

Shipping:

Goodson typically ships orders the same day they are received. Orders received after 2:00pm (central), on weekends or holidays are shipped the next business day. If your order is lost in shipping, Goodson works with the shipper to provide tracking service. Please inspect all shipments upon receipt and report damage or errors within 48 hours.

Freight:

For orders shipped ground within the USA, you may deduct the freight charges on any **JOBBER** net invoice of 800 or more if you pay within 30 days of the invoice date. Glass Beads, Steel Shot, Tumbler Media, Machines, Equipment, Bulk Liquids, Cleaning Detergents and Crankwheels are not included. Hazardous Materials, Dangerous Goods & Dimensional Shipping fees may apply on some items.

Terms:

- 1) A 1% discount is given on merchandise if payment is made within 15 days from invoice date. This discount applies only to the merchandise amount (not the total amount) on the invoice (not a statement). The discount amount is shown in the lower left hand corner of the invoice. This discount does not apply to statement payments and does not apply to credit card orders.
- 2) Balances not paid in full within 30 days are subject to a finance charge of 1.5% per month (18% per year).

Credit & Debit Card Orders:

Goodson accepts MasterCard, Visa, American Express, Discover Card and PayPal. For your security, credit card numbers are **NOT** kept on file. Credit Card and PayPal orders do not qualify for the 1% quick-pay discount.

Check Acceptance:

In the unlikely event that your check is returned for insufficient or held funds, we will debit your checking account electronically for the face amount of the check plus the service fee allowed by your state's law. This allows us to resolve the problem without turning you over to a collection agency and harming your credit rating. The transaction will appear on your bank statement and no one will have to contact you about payment.

Returns:

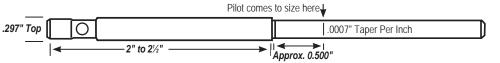
You may return any item, except special orders, within 60 days. We will do our best to correct any problems or to send a replacement. If an item was damaged through mis-use or modification, Goodson will not accept it as a return. Credits will only be issued after it is determined that the part is resellable or it is deemed defective.

Some Hazardous Materials are Non-returnable due to shipping regulations. See our policies on the last page of the index for more details or call us toll-free at 1-800-533-8010.

ABRASIVES WARRANTY: Abrasives have a shelf life, therefore, all abrasives are warranted against manufacturing defects for 1 year from the date of original purchase.

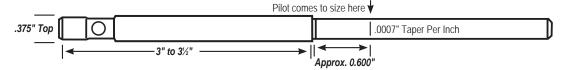
RESETTING/RESHARPENING SERVICE: Premium Diamonds can be reset and many of our cutting tools can be resharpened. Send your resets and resharps to GOODSON Tools & Supplies, ATTN: Resharps, 156 Galewski Dr. Winona, MN 55987. Be sure to include your customer number.

Solid Tapered Pilots



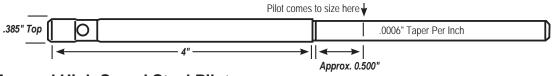
.297" Solid-Tapered High Speed Steel Pilots

Inch mm	OAL Order No.	Inch mm	OAL Order No.	Inch mm	OAL Order No.	Inch mm OAL	Order No.	Inch mm OAL C	Order No.
.1496" 3.80	3.375" P-1149N	.1771" 4.50	4.50" P-1177N	.1976" 5.02	4.50" P-1198N	.2370" 6.02 4.50"	P-1237N	.2598" 6.60 4.50" P	P-1260N
.1574" 4.00	4.50" P-1158N	.1779" 4.52	4.50" P-1178N	.2165" 5.50	4.50" P-1216N	.2500" 6.35 4.50"	P-1250N	.2810" 7.14 4.50" P	P-1281N
.1582" 4.02	4.50" P-1159N	.1968" 5.00	4.50" P-1197N	.2362" 6.00	4.50" P-1236N	.2510" 6.37 4.50"	P-1251N	.3130" 7.95 4.50" P	P-1313N



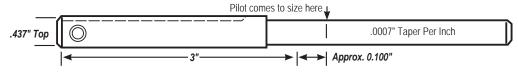
.375" Solid-Tapered High Speed Steel Pilots

Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.
.1771"	4.50	6.00"	P-5177N	.2490'	6.32	6.00"	P-5249N	.2952'	7.50	6.00"	P-5295N	.3417'	8.67	6.50"	P-5341N	.3750'	9.52	7.00"	P-5375N
.1960"	4.98	6.00"	P-5196N	.2500	6.35	6.00"	P-5250N	.3095'	7.86	6.00"	P-5309N	.3427	8.70	6.50"	P-5342N	.3760	9.55	7.00"	P-5376N
.1968"	5.00	6.00"	P-5197N	.2559'	6.50	6.00"	P-5256N	.3105'	7.88	6.00"	P-5310N	.3437'	8.72	6.50"	P-5343N	.3770	9.57	7.00"	P-5377N
.1976"	5.02	6.00"	P-5198N	.2566	6.52	6.00"	P-5257N	.3115'	7.91	6.00"	P-5311N	.3447	8.75	6.50"	P-5344N	.3780	9.60	7.00"	P-5378N
.2165"	5.50	6.00"	P-5216N	.2598'	6.60	6.00"	P-5260N	.3125'	7.93	6.00"	P-5312N	.3457	8.78	6.50"	P-5345N	.3790'	9.62	7.00"	P-5379N
.2173"	5.52	6.00"	P-5217N	.2748	6.98	6.00"	P-5274N	.3135'	7.96	6.00"	P-5313N	.3543	9.00	6.50"	P-5354N	.3820'	9.70	7.00"	P-5382N
.2185"	5.55	6.00"	P-5218N	.2756	7.00	6.00"	P-5275N	.3145'	7.98	6.00"	P-5314N	.3551	9.02	6.50"	P-5355N				
.2354"	5.98	6.00"	P-5235N	.2763	7.02	6.00"	P-5277N	.3149'	8.00	6.00"	P-5315N	.3587	9.11	6.50"	P-5358N				
.2362"	6.00	6.00"	P-5236N	.2775	7.05	6.00"	P-5278N	.3165'	8.03	6.00"	P-5316N	.3730'	9.47	7.00"	P-5373N	Inch	mm	OAL	Order No.
.2370"	6.02	6.00"	P-5237N	.2792	" 7.09	6.00"	P-5279N	.3407'	8.65	6.50"	P-5340N	.3740	' 9.49	7.00"	P-5374N	.5000	' 12.70	7.75	" P-5500N



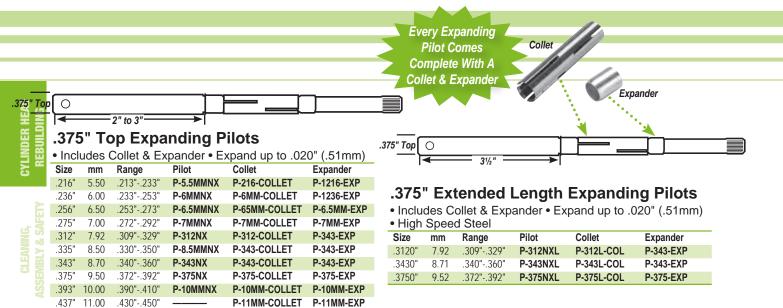
.385" Solid-Tapered High Speed Steel Pilots

Inch mi	m OAL	Order No.	Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.
.2165" 5.5	50 7.50"	P-5216S	.2598"	6.60	7.50"	P-5260S	.3125"	7.94	7.50"	P-5312S	.3420'	8.68	7.50"	P-5342S	.3580"	9.09	7.50"	P-5358S
.2173" 5.5	52 7.50"	P-5217S	.2744"	6.97	7.50"	P-5274S	.3130"	7.95	7.50"	P-5313S	.3430'	8.71	7.50"	P-5343S	.3730"	9.47	7.50"	P-5373S
.2350" 5.9	97 7.50"	P-5235S	.2755"	7.00	7.50"	P-5275S	.3141"	7.98	7.50"	P-5314S	.3440'	8.73	7.50"	P-5344S	.3740"	9.50	7.50"	P-5374S
.2362" 6.0	00 7.50"	P-5236S	.2763"	7.02	7.50"	P-5276S	.3149"	8.00	7.50"	P-5315S	.3450'	8.76	7.50"	P-5345S	.3750"	9.53	7.50"	P-5375S
.2370" 6.0	02 7.50"	P-5237S	.2771"	7.04	7.50"	P-5277S	.3161"	8.03	7.50"	P-5316S	.3543'	9.00	7.50"	P-5354S	.3760"	9.55	7.50"	P-5376S
.2381" 6.0	05 7.50"	P-5238S	.2779"	7.06	7.50"	P-5278S	.3170"	8.05	7.50"	P-5317S	.3550'	9.02	7.50"	P-5355S				
.2500" 6.3	35 7.50"	P-5250S	.3100"	7.87	7.50"	P-5310S	.3410"	8.66	7.50"	P-5341S	.3560'	9.04	7.50"	P-5356S				



.437" Solid-Tapered High Speed Steel Pilots

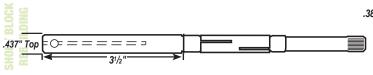
Inch mm OAL Order No.	Inch mm OAL O	order No.	Inch mm	OAL	Order No.	Inch mi	n OAL	Order No.	Inch	mm	OAL	Order No.
.2165" 5.50 6.75" P-5216K	.2381" 6.05 6.75" F	P-5238K	.3115" 7.90	6.75"	P-5311K	.3150" 8.0	0 6.75"	P-5315K	.3440	" 8.74	6.75"	P-5344K
.2185" 5.55 6.75" P-5218K	.2755" 7.00 6.75" F	P-5275K	.3125" 7.94	6.75"	P-5312K	.3157" 8.0	2 6.75"	P-5316K	.3457	" 8.78	6.75"	P-5345K
.2362" 6.00 6.75" P-5236K	.2763" 7.02 6.75" F	P-5276K	.3135" 7.96	6.75"	P-5313K	.3169" 8.0	5 6.75"	P-5317K	.3587	" 9.09	6.75"	P-5358K
.2370" 6.02 6.75" P-5237K	.2775" 7.05 6.75" F	P-5277K	.3145" 7.98	6.75"	P-5314K	.3427" 8.7	0 6.75"	P-5342K	.3730	" 9.47	6.75"	P-5373K
						.3437" 8.7	3 6.75"	P-5343K	.3750	" 9.52	6.75"	P-5375K



P-11MM-EXP

P-12MM-EXP

P-12MM-COLLET



.437" Top Expanding Pilots

.430"-.450'

.469"-.489

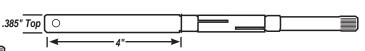
437"

11.00

12.00

Size Range Pilot Collet Expander mm .233"-.253 P-6MM-COLLET 236 6.00 P-6MMKX P-1236-EXP .275 .272"-.292 P-7MMKX P-7MM-COLLET P-7MM-EXP 7.00 .312' 7.92 .309"-.329 P-312KX P-312-COLLET P-343-EXP .343" 8.70 .340"-.360" P-343KX P-343-COLLET P-343-EXP .375' 9.50 .372"-.392 P-375KX P-375-COLLET P-375-EXP





.385" Top Expanding Pilots

Includes Collet & Expander • Expand up to .020" (.51mm)

• IIICI	uues i	JUILET & EX	pariuei • L.	xpariu up io .uz	0 (.5111111)
Size	mm	Range	Pilot	Collet	Expander
.236"	6.00	.233"253"	P-6MMSX	P-6MM-COLLET	P-1236-EXP
.256"	6.50	.253"273"		P-65MM-COLLET	P-6.5MM-EXP
.275"	7.00	.272"292"	P-7MMSX	P-7MM-COLLET	P-7MM-EXP
.312"	7.92	.309"329"	P-312SX	P-312-COLLET	P-343-EXP
.343"	8.70	.340"360"	P-343SX	P-343-COLLET	P-343-EXP
.375"	9.50	.372"392"	P-375SX	P-375-COLLET	P-375-EXP
.393"	10.00	.390"410"	P-10MMSX	P-10MM-COLLET	P-10MM-EXP
.406"	10.30	.403"423"	P-406SX	P-10MM-COLLET	P-10MM-EXP
.437"	11.00	.430"450"	P-11MMSX	P-11MM-COLLET	P-11MM-EXP
.453"	11.50	.450"470"	P-453SX	P-12MM-COLLET	P-11MM-EXP
.472"	12.00	.469"489"	P-12MMSX	P-12MM-COLLET	P-12MM-EXP
.500"	12.70	.497"517"	P-500SX	P-12MM-COLLET	P-12MM-EXP



Valve Seat Wheel **Dresser Pilots for** Universal & Heavy Duty Wheel Dressers

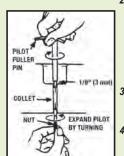
• All pilots have a .625" bottom • Dressers on page 24

Dresser Pilots (select based on stone holder type) Fits Stone Holder Type OAL Order No. A .437" Hex Stone Holder 5% 031-1102-89 B .437" Hex or Flex Stone Holder 71/4" 031-0202-80 C .385" Top Stone Holder 6" 031-0202-55 6% 031-0202-47 D .375" Top Stone Holder

Setting your expanding pilot



from the techxperts



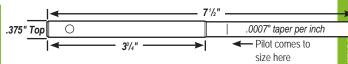
- 1 Select an expanding pilot that is the same diameter as the valve guide ID.
- 2 Insert the pilot into the valve guide making sure that the expanding section of the pilot (collet) is completely within the valve guide. The pilot will not center properly and may be damaged if the collet extends outside of the valve guide
- 3 Pilot shoulder should be about 1/2" above the valve quide.
- 4 Hold the pilot while turning the nut at the opposite end. This will expand the collet and secure the pilot into position.

NOTE: DO NOT use Expanding Pilots with multi-angle valve seat cutting systems (ie: 3-D Fast Cut)

.236" Top Tapered Carbide Pilots

· Less deflection under stress · Due to the brittle nature of carbide we can only warranty carbide pilots for size

Inch	mm	Order No.	Inch	mm	Order No.	Inch	mm	Order No.
.1559"	3.96	PCT-1560M	.1779'	4.52	PCT-1780M	.2578	6.55	PCT-2580M
.1566"	3.98	PCT-1570M	.1968'	5.00	PCT-1970M	.2598	6.60	PCT-2600M
.1575"	4.00	PCT-1575M	.2161'	5.49	PCT-2160M	.2759	7.01	PCT-2760M
.1578"	4.01	PCT-1580M	.2181'	5.54	PCT-2180M	.2763	7.02	PCT-2765M
.1759"	4.47	PCT-1760M	.2560'	6.50	PCT-2560M	.2771	7.04	PCT-2770M
.1771"	4.50	PCT-1770M	.2570'	6.53	PCT-2570M			



.375" Top Tapered Carbide Pilots

• Less deflection under stress • Due to the brittle nature of carbide we can only warranty carbide pilots for size

Inch	mm	Order No.	Inch	mm	Order No.	Inch	mm	Order No.
.1968"	5.00	PCT-1970	.2370"	6.02	PCT-2370	.3122"	7.93	PCT-3120
.2165"	5.50	PCT-2165	.2756"	7.00	PCT-2756	.3150"	8.00	PCT-3150
.2173"	5.52	PCT-2170	.2759"	7.01	PCT-2760	.3433"	8.72	PCT-3430
.2355"	5.98	PCT-2355	.2763"	7.02	PCT-2765	.3440"	8.73	PCT-3440
.2362"	6.00	PCT-2362	.2771"	7.04	PCT-2770	.3740"	9.50	PCT-3740



from the techxperts"

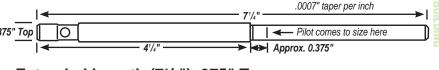
We get asked from time to time why Goodson carries so many sizes and styles of pilots.

Most of us probably think of that in terms of Top and Bottom Size, but there's another dimension that's becoming more important every day. The pilot's top length.

You've probably worked on (or at least seen) heads with deeply set valves. This is especially common in diesel applications. Some of them are set so deeply that a standard pilot just won't cut it. You need a pilot that extends above the deck .375" Top while still being fully seated in the guide in order to perform top quality seat work.

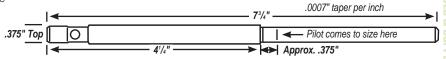


Left: The standard length pilot protrudes beyond the head surface very slightly. *Right*: The extended length pilot protrudes further from the head giving your tooling more support for cutting or grinding.



Extended Length (7¹/₄") .375" Top Solid-Tapered High Speed Steel Pilots

Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.	Inch	mm	OAL	Order No.
.2755"	7.00	7.25"	P-5275NL	.3417"	8.68	7.75"	P-5341NL	.3457"	8.78	7.75"	P-5345NL
.2756"	7.01	7.25"	P-5276NL	.3427"	8.70	7.75"	P-5342NL	.3740"	9.50	7.75"	P-5374NL
.3145"	7.98	7.25"	P-5314NL	.3437"	8.73	7.75"	P-5343NL	.3750"	9.52	7.75"	P-5375NL
.3150"	8.00	7.25"	P-5315NL	.3447"	8.75	7.75"	P-5344NL				



.375" Top Solid-Tapered Extra-Long (73/4") High Speed Steel Pilots

• Sized for diesel, aviation and other applications requiring longer pilots

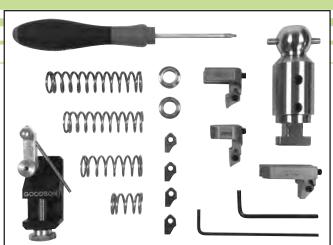
Inch	mm	OAL O	order No.	Inch	mm	OAL	Order No.	In	ch	mm	OAL	Order No.
.343"	8.72	7.75" A	P-5343	.406	10.31	7.75"	AP-5406	.4	99"	12.67	7.75"	AP-5499
.344"	8.75	7.75" A	P-5344	.407	10.34	7.75"	AP-5407	.5	01"	12.73	7.75"	AP-5501
.345"	8.78	7.75" A	P-5345	.408	10.36	7.75"	AP-5408	.5	02"	12.75	7.75"	AP-5502
.376"	9.55	7.75" A	P-5376	.436	11.07	7.75"	AP-5436					
.377"	9.57	7.75" A	P-5377	.498'	12.12	7.75"	AP-5498					

Sioux-Style Dresser Pilots & Bushings

- Replacement parts for the popular 1716 Seat Wheel Dresser no longer available from Sioux™
- .375" top pilot features a groove to fit Black & Decker holders • .600" bottom size

Description	Order No.
.385" Top Pilot, .600" Bottom Size	1718A
.375" Top Pilot, .600" Bottom Size	1718-BD
Dressing Stand Bushings (2) for .375" & .385" Pilots	SK-9-10
Dressing Stand Bushings (2) for .572" Pilots	SK-11-12







3-D Fast Cut™ Starter Kits

- Can be used with your existing pilots
- · Ball heads are available to fit most common seat grinder pilots
- Choose from over 100 3-angle blade profiles on pages 8-11
- Fully compatible with most popular 3-angle cutting systems including Kwik-Way, Peterson, Rottler, Serdi, Sunnen, T&S, Winona Van Norman, Newen, etc.
- Use between 50 and 100 RPM Goodson recommends starting at 60 RPM

Description	Fits Pilot	Order No.	Includes	5
Complete Starter Kits	.375" / 9.53mm	3D-375-KIT		•
(see page 5 for pilots)	.385" / 9.78mm	3D-385-KIT	▼	
Ball Head Standard	.375" / 9.53mm	3D-BH375		X
3.346" long	.385" / 9.78mm	3D-BH385	Х	
	.390" / 9.90mm	3D-BH390		
	.375" / 9.53mm	3D-BH-SUN375		
Ball Head Extended	.375" / 9.53mm	3D-BH375L		
Length 3.80" long				
Ball Head Wide Body	.375" / 9.53mm	3D-BH375W		
4.0625" long				
Serdi-Style Tool Bodies	Use with Serdi-style pilots			
4" long	Standard .375" / 9.53mm	SER-5100		
	Large Body .375" / 9.53mm	SER-5300		
Sunnen Style Drive Adap		3D-SUN		
Tip Holders	.709" - 1.181" / 18-30mm Range	3D-2000	Х	X
	1.02" - 1.653" / 26-42mm Range	3D-2001	Х	X
-	1.575" - 2.362" / 40-60mm Range	3D-2002	Х	X
Tip Holders-Wide Body	1.575" - 2.362" / 40-60mm Range	3D-2003		
	2.385" - 3.150" / 58-80mm Range	3D-2004		
Cutters	45°/1.0mm	FT-45039V1	Х	X
	45°/1.3mm	FT-45051V1	Х	X
more on	45°/1.5mm	FT-45059V1	Х	X
pages 8-11	45°/1.9mm	FT-45075V1	Х	X
Tool Setting Fixture - All		3D-TSFA	Х	X
Cutter Blade Mounting So	crew	FT-SCREW	Х	X
Blade Wrench		FT-WRENCH	Х	X
Automotive Bounce Sprin		3D-SS4	Х	X
Bushing Set (1 pair)	.375"	3D-DB7		X
	.385"	3D-DB6	Х	
Ball Head Driver	#3 Morse Taper Driver	3D-CM3		
	Bridgeport & DCM Driver	3D-3/4SS		
3-D Fast Cut™ Accesso				
	ntrol, especially on Spring Pad Cutters (pg. 12)	3D-CLIP		
Replacement 3.0mm Alle		3D-3.0	Х	X
Replacement 2.5mm Alle		3D-2.5	Х	X
	NWN Ball Head Base (5 Pack) - metric	MGA-4X5MM		
	v for Standard Ball Heads M5x6MM	3D-56		
	w for Wide Body Ball Heads M6x6MM	3D-66		
	for Standard Ball Heads M6x8MM, Brass Tip	3D-68		
	for Wide Body Ball Heads M6x16MM, Brass Tip	3D-615		
	Holder #3D-2000, OAL: .395" /10mm	3D-2000-S		
	lolder #3D-2001, OAL: .475" /12mm	3D-2001-S		
Adjusting Screw for Tip F	Holder #3D-2002, OAL: .625" /15.9mm	3D-2002-S		

See page 7 for Valve Seat Removal Tooling for the 3-D Fast Cut™ System



1" diameter



with your smart phone for quick

access.





-Tip Holder

· · · · · Cutter Blade Choose from a wide selection of profiles



Bushing Bounce Spring

Bushing

Ball Head for Sunnen Tool Holders

Exclusively from Goodson

- Fits .375" Top pilots, giving you easy access to a wide range of pilot sizes • Tool Holder channel measures .500"
- · Use with insert holders SGM-1045, SGM-1055, SGM-1090 and SGM-1115
- 3.350" long x 1.162" diameter
- Order No. 3D-BH-SUN375

Holders (3DH-1995 & 3DH-1999M) have been modified to provide support to cutters without interfering with the bowl diameter.

Micro Tips FTM-190 and FTM-82R6B-HP only fit Tip Holder 3DH-1995

3-D Fast Cut™ System Micro Ball Head Tooling

• Fits the same 1" ball head driver as the original 3-D Fast Cut tooling

 See page 5 f 	or .236° 10	p Pilots		
Description			Order No.	
Micro Ball Head S	arter Kit		3D-236-KIT	•
3D Ball Head for	36"/6mm Pilot	(2.56"L)	3D-BH236	X
Micro Cutter Tips	45º/1.0mm		FTM-185	X
See pg. 9	45º/1.0mm		FTM-187	X
for profiles	39º/1.0mm		FTM-188	X
	90° (For count	erboring)	FTM-190	
	82º Radius Cu	itter	FTM-82R6B-H	P
Tip Holders	.550"984" Ra	ange	3DH-1999M	X
	.551"850" Ra	ange	3DH-1995	
Bounce Springs	Short 1.0	50" / 26.7mm	3D-BS1	X
.340" ID	Medium 1.5	40" / 39.2 mm	3D-BS3	Х
.420" OD	Long 2.5	50" / 64.8 mm	3D-BS2	X
Bounce Spring Bu	shing (1 pair)		3D-BB1	X
Bounce Spring Sp	acer 22n	nm long	3D-BB2	X
3-D Fast Cut™ Ac	cessories			
Replacement 2.5m	m Hex Key		3D-2.5	X
Replacement Side	Screw M5x8MN	M	3D-58	
Replacement Base	Screw M5x5M	M	3D-55	
Cutter Blade Mour	ting Screw		FT-SCREW	X
Blade Wrench			FT-WRENCH	X
Tool Setting Fixtur)		3D-TSFA	X
Bridgeport / DCM I	Ball Head Drive	r	3D-3/4SS	

Valve Guide Level

- · Graduated vials with satin-chromed. brass protective covers that rotate to close tightly
- · Base castings are seasoned, then precision machined and finished on a bearing surface • Replaceable vials
- Adjustable for precise calibration
- 1 division equals .0005" per inch
- Fits pilots from 6mm to .437"

Description	Order No.	Replacement Vial
4" Valve Guide Level (3" vial)	VGL-100	VGL-101
See goodson.com for level calibrat	ion instructions	

3D-2004C

VGL-100

(use with

your pilot

or find on

page 3)

Valve Seat Removal Tooling

3-D Fast Cut™

- Fits most popular 3-angle cutting tools including our popular 3-D Fast Cut™ System, Kwik-Way, Peterson, Rottler, Serdi, T&S, Winona Van Norman, Newen, etc.
- Use to relieve press fit for easier seat removal
- Requires a minimum of 2 cuts
- For precise set up use the MGA-MIC (below)
- Tip Holders include one cutting tip and mounting screw (see chart below) • Replacements sold separately

• Ball He	ad and Driv	e Tools sold	separately (s	see page 6)
Description	ı F	Replacement Tip		Order No.
Tip Holders	3	DB-1999i		3D-1999C
_	3	DB-250		3D-2000C
	3	DB-250		3D-2001C
	3	DB-250		3D-2002C
Wide Body	Tip Holders 3	DB-250		3D-2003C
	3	DB-250		3D-2004C
Replaceme	nt Tip fi	ts 3DB-1999C		3DB-1999i
	fi	ts all BUT 3DB-1	999C	3DB-250
Replaceme	nt Screw for	or 3DB-1999i		3DB-1999S
	fe	or 3DB-250		3DS-SCREW
	(Cutting Range wit	th Pilot Size	
Holder	.236" Top	.375" Top	.385" Top	.437" Top
3D-1999C	0.960"-1.225	" 1.095"-1.360"	1.105"-1.360"	1.157"-1.360"
3D-2000C	1.056"-1.480	" 1.194"-1.480"	1.206"-1.480"	1.264"-1.480"
3D-2001C		1.376"-2.000"	1.386"-2.000"	1.450"-2.000"
3D-2002C		1.524"-2.460"	1.544" -2.460"	1.610"-2.460"
3D-2003C		1 680"-2 400"	1 680"-2 400"	



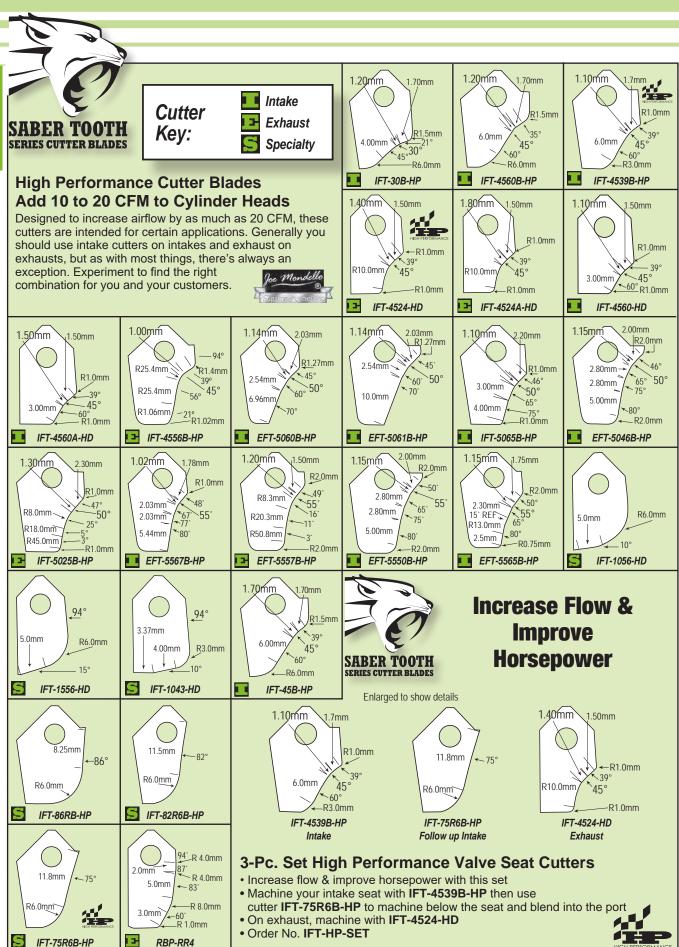
2.280"-3.200"

2.280"-3.200'

3-D Fast Cut Setting Micrometer

- Direct reading micrometer accurate to .001"
- Uses tapered .375" Pilot to match your ball head (sold separately)
- Use to set cutting diameter of 90° carbide cutters when modifying counterbores
- Use the optional calibration standard to ensure your micrometer is reading correctly

Description	Cutting Range	Order No.
Standard Micrometer	0.800" - 2.800"	MGA-MIC
Calibration Standard		MGA-MIC-1S



D Radius Profile Seat Cutter Blades



Diamond

Hand Files

• Use for fine touch-up on

• Set includes 1-360 grit

and 1-600 grit file

your Seat Cutter Blades

3-D Fast Cut Tool Holder

 Use when sharpening cutter blades to keep the cutter in the correct position

Order No. 3D-HOLDER



Cutter Key:

Intake Exhaust Specialty

Turn the Page for More Valve Seat

Blades Are Easy!

- Formtool Profile Form from our website (scan the code at right with the camera on your smart phone or other smart device) or call to have us send a copy.
- 2 Complete the form, including a drawing of the cutter you need. Be sure to include all angles, radii, seat widths, etc. Missing information will delay your cutter or result in an incorrect profile.
- Fax: 888-466-3909 or E-mail: orderdesk@goodson.com. We'll get a blueprint made which you must approve before we start production.



3 Send the completed form to Goodson.

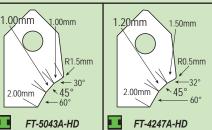


FTM-190

FTM-82R6B-HP

FTM-188

Cutter Blades



Iron-Clad Guarantee

FTM-185

FTM-187

9

CYLINDER HEAD

TOOLS & SUPPLIES

3-D Multi-Angle Seat Cutter Blades

ER HEAD

CLEANING, SEMBLY & SAFETY

SHORT BLOCK

US CRANKSHAFT/

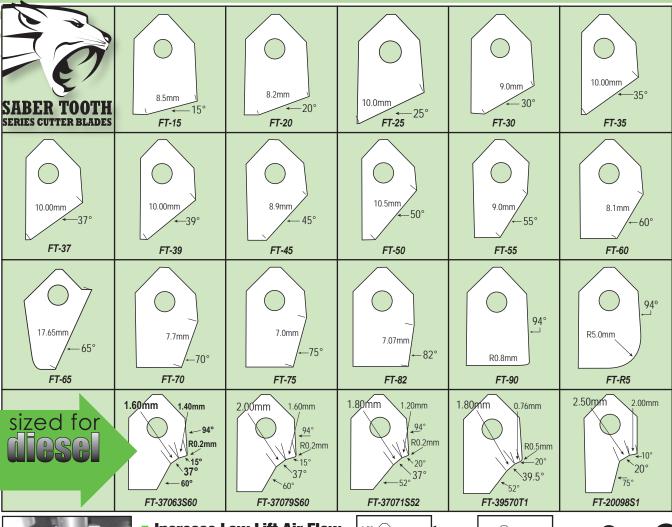
CE MISCELLANEOUS TOOLS & SUPPLIES

BRAKE SERVIC

MEASURING TOOLS

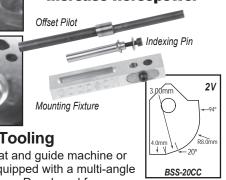
V-TWIN & METRIC
HARD PARTS

SABER TOOTH SERIES CUTTER BLADES 1.00mm 1.40mm 1.00mm 1.00mm 1.80mm 1.00mm 1.60mm 1.00mm 1.00mm 1.20mm 1.60mm 1.60mm ₹35° **^**45° 45° `45° 45° 45 60° 60 FT-45039U1 FT-45039U2 FT-45039V1 FT-45039W1 FT-45039W2 FT-45039W3 1.30mm 1.40mm 1.30mm 1.30mm 1.30mm 1.00mm 1.30mm 2.00mm 1.00mm 1.20mm 2.00mm \30° ×30° \30° 45° 45 *****45 **^**45' 45 45 60° ~60° 60° `52° FT-45051V2 FT-45051V4 FT-45051V1 FT-45051V3 FT-45051X1 FT-45055V1 1.50mm 1.50mm 1.60mm 1.80mm 1.40mm 1.50mm 1.40mm 1.50mm 1.60mm 2.00mm 1.80mm 1.80mm 45º Seat Angle Cutter Blades ₹30° ^30° `37° \30° ^45° 45° `45' `45° 45° 45 -60° -60° 60° FT-45059V1 FT-45059V2 FT-45059V3 FT-45059X1 FT-45063U1 FT-45063U2 1.60mm 1.00mm 1.60mm 1.60mm 1.80mm 1.60mm 1.90mm 0.80mm 2.00mm 1.60mm 1.80mm ₹30° 30 `30° 30 *****45° *45° 45 45 `45° `45° `52° ` 52° `60° `60° FT-45063V1 FT-45063V3 FT-45063V2 FT-45063W1 FT-45071V1 FT-45075V2 2.00mm 1.80mm 2.00mm 2.00mm 2.50mm 2.50mm 2.00mm 1.80mm 1.40mm 1.40mm `45° ~45° 45° 45 **~** 45° `45' 60° **~**60° FT-45075V1 FT-45079U1 FT-45079U2 FT-45098U1 FT-45098U2 FT-45079V1 1.30mm 2.00mm 1.60mm 1.50mm 1.50mm .00mm .00mm 1.80mm 1.00mm .80mm 1.60mm 1.40mm 30° 30° `30° `30° 30 30° Blades 60° FT-30039T1 FT-30059S3 FT-30063S1 FT-30051S1 FT-30059S1 FT-30071S1 30° Seat Angle Cutter resharpening 2.50mm 2.50mm 2.00mm 1.90mm 2.00mm 2.00mm 1.80mm 1.80mm .00mm .40mm available **Have Goodson** Resharpen Your Valve Seat `30° 30° 30° `30° `30° 45 **Cutter Blades** `60° 60° FT-30075S1 FT-30079S1 FT-30079S2 FT-30098S1 FT-30098S2





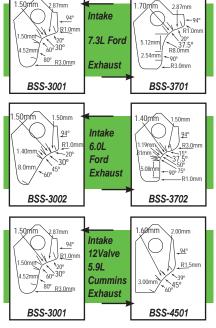
- Increase Low Lift Air Flow
- Increase Torque
- Increase Horsepower



Diesel Relief Tooling

- Use with your seat and guide machine or Bridgeport Mill equipped with a multi-angle seat cutting system
 Developed for Goodson by Joe Mondello Racing Engines
- Use for 6.0L & 7.3L Ford, 12 Valve, 5.9L Cummins & 6.6L Duramax diesel engines
- For 2-Valve & 4-Valve heads Complete kit includes the Mounting Fixture, .375" Top Offset Pilot, Indexing Pin & Radius Cutter
- This tool is only for use with radius cutters BSS-20CC and BSS-45CC

Description	Order No.	lr	ncl.
7mm Diesel Relief Tool Kit	DVRT-7MM-KIT		\blacksquare
8mm Diesel Relief Tool Kit	DVRT-8MM-KIT	▼	
20CC Radius Cutter for 2-Valve Heads	BSS-20CC	Х	
45CC Radius Cutter for 4-Valve Heads	BSS-45CC		X



Intake 6.6L

Duramax

Exhaust

40mm 1.50mm

←R1.0mm

`45°



Developed for Goodson by Joe Mondello Racing Engines. These cutters are designed to be used with your 3-D Fast Cut or other multi-angle tooling.



See How to
Use the Diesel
Relief Tooling on
YouTube! Search
for Diesel Valve
Relief Tool.

4V

94°

.45° _{R2.0n}

BSS-45CC

R3.0mm



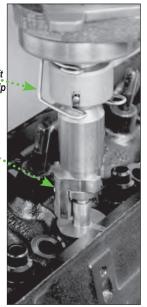
It has been a long time since I have seen such a great vendor as these people. They are simply great. I give them an A+++ rating and hope to deal with them more."

· Wayne Hudson, Hillboro, Oregon (via Facebook), Goodson customer since 2014



3-D Fast Cut **Adjustable** Spring Pad Cutters

- · No need to change tooling, just change the tool holder and start cutting spring pads
- · Works with all popular 3-angle cutting systems
- Square blades are indexable and replaceable
- · Tool holder includes one blade



Tool Holders					
	Blade Size	Application	Order No.		
	3/8" / 9.53mm	All except Sunnen®	SPC-375		
	½" / 12.70mm	All except Sunnen®	SPC-500		
Replacement Carbide Cutters (for all holder styles above)					
	3/8" / 9.53mm		SPCI-375		
	½" / 12.70mm		SPCI-500		
Accessories					
	Lift Clip for Enhanced C	ontrol	3D-CLIP		
	Valve Spring Seat Cutter	rs on Page 46			



Minnesota Fast Freeze



- Instantly chills seats & guides to -50°F (-45.5°C) • Creates interference fit with heated aluminum heads • Finish seat and guide work faster than ever • Aerosol*
- Use on tight bushings, pins, shafts, etc.
- 10 oz. can

Description	Order No.
Minnesota Fast Freeze	MFF-8
Order 6 or more to Save 10% off Jobber	

*Hazardous Goods Fees Apply When Shipped by Air

Press Fit Lubricants

- · A light coat eases press fit
- Ideal for valve guides, piston pins, cylinder sleeves, etc.
- Eliminates the scoring, gouging and galling of parts during press fitting

gaining of parto daring proce fitting	
Description	Order No.
Goodson Aerosol 6 oz. (170 g)	PFL-200*
Sunnen® Aerosol 7 oz. (198 g)	B-200*
Sunnen® Brush Applicator 200 mL	B-200L*
*Hazardaya Cooda Foos Apply When Chipped By Air	/////

Hazardous Goods Fees Apply When Shipped By Air Save 10% by buying 6 or more cans of PFL-200



· Machine seats & bowls on a pair of V8 heads in about 40 minutes

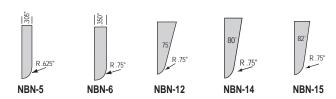
· Remove material to contour cylinder head bowl areas and unshroud valves in combustion chambers

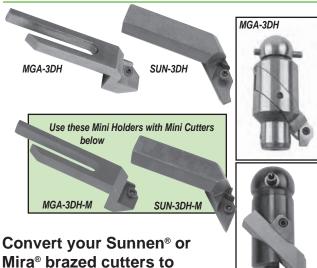
· Will not work with Sunnen® Ball Heads

Holder Diameter Range	Order No.
1.25"-1.87" / 32-48mm	NBN-1
1.57"-2.13" / 40-54mm	NBN-2

Here

Blades sold separately





Mira® brazed cutters to 3-D with this simple holder

This blade holder allows you to mount SUN-3DH premium, replaceable carbide cutters on your existing MIRA® and Sunnen® ball-type tool holders. Choose from our wide selection of replaceable cutters, previously only available for 3-D Fast Cut™ or similar seat cutting systems.

Description		Order No.
Standard Cutter	Standard Cutter Mira®	
Holders	Sunnen® VSC-Series	SUN-3DH
Mini Cutter	Mira [®]	MGA-3DH-M
Holders Sunnen®		SUN-3DH-M
Mini Cutters	30°/45°/60°	FT-213B-HP
	32°/45°/60°	FT-215B-HP
view profiles	30°/45°/60°	FT-4028B-HP
on page 9 45°/90°		FT-9020B-HP
Replacement Scre	FT-SCREW	

Valve Seat Work



Precision Valve Seat Run-Out Gauge

• Use with your .375" Top Pilot (sold separately) • Measure run-out to.0001" directly from the seat • Locked to the pilot • Dial indicator remains stationary while rotating contact pointer • .800" - 2.500" dia. range

· Includes 2" dia. dial indicator

De	escription	Order No.
Ga	auge Assembly	SCG-375
Re	eplacement Indicator	SCG-IND



Valve Seat Machining Aid

- · Machine valve seats to a mirror-like finish
- Universal works with any type of cylinder head machining center
- Use full strength
- Safe for metal surfaces
- · Works with mineral-based cutting oils, not water based
- Quart (946mL)
- Order No. PF-2020



Layout Fluids

- · Choose from blue and red
- Tolulene-free Dries in minutes
- · Provides a thin film without cracking or chipping • Prevents glare with a uniform, deep color
- · 2 oz. markers feature felt tip applicator
- 4 oz. containers includes brush in cap

Description	Color	Order No.
2 oz. Layout Fluid Markers	Blue	VBF-2
	Red	VRF-2
4 oz. Layout Fluid	Blue	VBF-4
	Red	VRF-4

Spray Bluing Fluid

- Fast drving Will not rub off
- · Good adhesion to all metals and glass
- · Non-corrosive · Resists heat
- · No flaking or peeling
- Scribes clean lines for precision work
- · Eliminates rags, daubers, spilled bottles

*Hazardous Goods Fees Apply When Shipped by Air

- · Dries to a smooth level coating
- Aerosol*
- Order No. SBF-16*



Now With Easier To Read Gauge

Premium Valve Seat Run-Out Gauges

VSG-375-XL

- · Hardened guide bushings & contact pilot • Quick thumb screw set-up
- Jeweled bearing indicator reads to ±.050" with .001" precision
- Range: 1.00"-2.50" Measures concentricity

Pilot Size	OAL	Order No.
.375"	5"	VSG-375
.385"	5"	VSG-385
.375" Extended	12 ¹ / ₂ "	VSG-375-XL
		VSG-IND



Valve Seat Scribe Tool

- Tool body fits over .375" Top
- Use valve to set point then scribe seat with inner and outer radii
- We recommend using Layout Fluid so you can see the scribe mark more clearly
- · Grind seat top and throat to match face precisely
- Replaces ST-30-BD Scribe Tool
- Order No. SST-375

Cutting & Tapping Fluid

- · Cut through even the hardest metals
- · Spray clings to the surface of the tool to prolong tool life
- · Ideal for stainless steel, high nickel alloys, titanium and more
- · Use for reaming, seat cutting and CBN cutting
- Aerosol*
- Order No. CTF-14*

*Hazardous Goods Fees Apply When Shipped by Air Order 6 or more CTF-14, save 10% off jobber



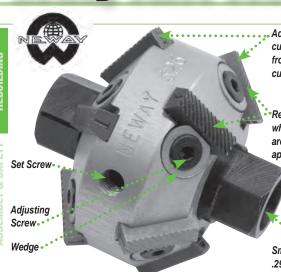


Prussian Blue Paste

- · Aids precision fitting of machined surfaces
- · Locates high spots on bearings, valves, gears and other close-tolerance components
- Non-drving, easy clean-up
- · Coat parts with a uniform film of Prussian Blue; assemble in working position and turn shaft; improper fit will show up as easy-to-see bright blue streaks
- 0.75 fl. oz. tube
- Order No. PB-75

Don't see the cutter you need in the chart below? Goodson can order any Neway Cutter Body and tooling available.

special



Many cutter body styles available including single angle

and double angle for a variety of cutting applications.

Adjustable Tungsten Carbide cutter blades. Cutters work in a range from 3/8" smaller and 1/4" larger than the cutter body size.

Replaceable cutter blades (see chart for which blades to order for your cutter) are included with body purchase (where applicable).

> Cutter body is made of anodized aluminum around a steel hub.

Small Series Cutter Bodies use .297" Top Pilots Standard Series Cutter Bodies use .375" Top Pilots (page 3)

NCB-355

NCB-352









NCB-250LC NCB-251LC

NCB-354

NCB-152

NCB-260

For 1" & Larger

For Smaller Than 1"

NCB-265	NCB-266	
	Order No	

Description				Order No.
Small Series Cutte	r Bodies	(Use .2	97" Top Pilots - page 3)	
Cutter Body	Blade	Qty.	Replacement	
Diameter	Angle		Blade	
0.975" / 24.8mm	45°	3	NCB-253	NCU-122
1.000" / 25.4mm	60°	3	NCB-252	NCU-111
1.312" / 33.3mm	15º/60º	3/3	NCB-251, -254	NCU-124
Replacement	Angle		Length	
Blades	15-46°	5/16" / 7	.9mm	NCB-253
Sold		3/8" / 9.	53mm	NCB-250
Individually		1/2" / 12	2.7mm	NCB-251
	60-75°	1/2" / 12	2.7mm	NCB-252
		3/4" / 19	9.05mm	NCB-254
Non-Serrated	60-75°	1/2" / 12	2.7mm	NCB-152
Correction Blades		3/4" / 19	9.05mm	NCB-154
Hard Seat	15-46°	3/8" / 9.	53mm	NCB-250LC
Blades		1/2" / 12	2.7mm	NCB-251LC
Radius Combustio	n	3/8" / 9.	53mm	NCB-355
Chamber Blades		1/2" / 12	2.7mm	NCB-352
		3/4" / 19	9.05mm	NCB-354
Flat Head Screw				NCB-260
Wedge for bodies 1" / 25.4mm and over				NCB-265
Wedge for bodies s	NCB-266			
Tool Kit (includes brush, 2 hex keys and pilot puller)				NKA-246
EZ-Turn Wrench				NTW-EZ
½" T-Handle Driver	•			NTW-505
3/8" T-Handle Driver				NTW-513
Drive Adaptor	½" to 3/8	" / 12.7-	9.53mm	NTW-503-1

Description Standard Series Cutter Bodies (Use .375" Top Pilots - page 3) **Cutter Body** Blade Qty. Replacement Diameter Angle Blade 1.125" / 28.6mm 30° NCB-250 NCU-278 45° 3 NCB-250 NCU-268 60° NCB-252 NCU-269 37.5° NCB-250 NCU-3731 1.250" / 31.6mm 30°/45° 3/3 NCU-230 NCB-250 31º/46º 3/3 NCB-250 NCU-203 60° NCB-252 NCU-270 1.375" / 35.0mm 30°/45° 3/3 NCB-250, -251 NCU-232 1.500" / 38.0mm 15º/75º NCB-251, -254 NCU-217 30°/45° 3/3 NCB-251 NCU-234 30°/45° 5/5 NCB-251 NCU-626 40° NCU-4038 NCB-251 60° NCB-254 NCU-205 1.750" / 44.5mm NCU-643 15º/60º 5/5 NCB-251, -254 30°/45° 5/5 NCB-251 NCU-645 559 NCB-251 NCU-17555 5 2.000" / 50.8mm NCB-251, 15º/60º 5/5 NCU-653 30°/46° 5/5 NCB-261 NCU-660 60° NCB-254 NCU-657 2.50" / 63.5mm 30°/45° 7/7 NCB-251 NCU-677 50° NCB-251 NCU-25050 52° NCU-25052 NCB-251 -Handle 55° NCB-251 NCU-25055

Valve Seat Cutting Fluid

- · High silicone content reduces drag on cutters so they last longer
- · Promotes smoother cuts
- May be diluted up to 9:1
- Non-aerosol spray

* Non-aerosor spray		
Size	Order No.	
16 oz. Spray / 473 mL	SCF-2	
1 Gal. / 3.79 L	SCF-10	

GOODSON

Neway Easy Turn Wrench

- Turn cutters continuously
- · Produces a smooth seat quickly and easily
- · Improves material removal control
- Spring loaded
- Includes drive adaptor to convert ½" to ¾8"

Description	Order No.
Wrench	NTW-EZ
Drive Adaptor	NTW-503-1

DCW-60-385

Counterboring Tools

GOODSON Counterbore Cutters CUT TRUE TO SIZE!

Other cutters may cut as much as .005" smaller



Goodson recommends using **Indexable Counterbore Cutters** at 40 to 60 RPM.



Indexable Counterbore Cutters

These indexable counterbore cutters eliminate down time from having brazed cutters reset or sharpened. You can service them right in your own shop! Each cutter body includes 2 carbide cutter tips with 4 cutting edges. When one edge wears, simply rotate the tip to a new cutting edge. You'll also get a wrench with every cutter body.



DWI-SERIES

- · Fits DCM Tech, Sunnen, and Winona Van Norman
- %16" / 14.3mm arbor

Counterpore				
Cutter Drive Adaptors				
Cutter Drivers Order No.				
#3 MT Driver	CD-MT3			
Fits .750" Bridgeport Collet				
%" arbor, .375" pilot DCW-60-375				

%" arbor, .385" pilot

Size	mm	Repl. Insert	Order No.
1.062"	26.97	SCI-250-B	DWI-1062
1.125"	28.57	SCI-250-B	DWI-1125
1.187"	30.15	SCI-250-B	DWI-1187
1.250"	31.75	SCI-250-B	DWI-1250
1.312"	33.32	SCI-250-B	DWI-1312
1.375"	34.93	SCI-250-B	DWI-1375
1.437"	36.50	SCI-250-B	DWI-1437
1/4" Rep	lacement	SCI-250-B	
Replace	ement Sc	SCS-T7	
Allen Wrench for SCS-T7			SCW-T7

Now with

SABER TOOTH

Cutter Inserts





Wear Sleeves for DWA & DWI Counter **Bore Cutters**

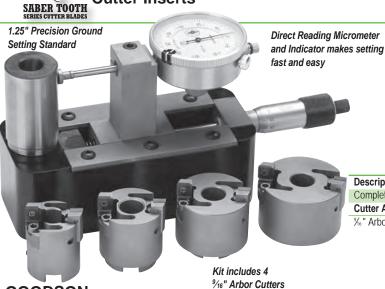
Wear sleeves fit CD-MT3 Driver

Pilot Top Size	Order No.
.375" (9.53mm)	DCW-375
.385" (9.78mm)	DCW-385

device to view

her

mart phone or can with your



GOODSON

Adjustable Counterbore Cutter Kit

- Cutter assemblies feature positive stop adjusting screws to prevent cutters from changing dimensions when in use
- · Direct reading micrometer and dial indicator for fast, accurate set-up • 7 cutter assemblies to choose from, covering a range from 1.25" to 2.75" diameter
- · Kit substitutions are available, call to inquire
- · Heavy duty billet steel construction



Julier macris	O O C CILTAREAN	
	Order No. In	cl.
it (%16" / 14.3mm Arbor)	DWA-300	
emblies (in/mm)		
1.250"-1.375" / 31.8-34.9	DWA-250	Х
1.375"-1.500" / 34.9-38.1	DWA-375	X
1.500"-1.750" / 38.1-44.5	DWA-302	Х
1.750"-2.000" / 44.5-50.8	DWA-303	X
2.000"-2.250" / 50.8-57.2	DWA-304	
2.250"-2.500" / 57.2-63.5	DWA-305	
2.500"-2.750" / 63.5-69.9	DWA-306	
rt	DKB-7	X
I	DKS-7	Х
	FT-WRENCH	X
es (see note below)		
For .375" Top Pilot	DCW-375	
For .385" Top Pilot	DCW-385	
	it (%6" / 14.3mm Arbor) emblies (in/mm) 1.250"-1.375" / 31.8-34.9 1.375"-1.500" / 34.9-38.1 1.500"-1.750" / 38.1-44.5 1.750"-2.000" / 44.5-50.8 2.000"-2.250" / 50.8-57.2 2.250"-2.500" / 57.2-63.5 2.500"-2.750" / 63.5-69.9 rt	Order No. In DWA-300 emblies (in/mm) 1.250"-1.375" / 31.8-34.9 DWA-250 1.375"-1.500" / 34.9-38.1 DWA-375 1.500"-1.750" / 38.1-44.5 DWA-302 1.750"-2.000" / 44.5-50.8 DWA-303 2.000"-2.250" / 50.8-57.2 DWA-304 2.250"-2.500" / 57.2-63.5 DWA-305 2.500"-2.750" / 63.5-69.9 DWA-306 rt DKB-7 JKS-7 FT-WRENCH es (see note below) For .375" Top Pilot DCW-375

To use the Counterbore Cutter Kit with Kwik-Way & Peterson Machines you will need to adapt the 9/16" cutter to fit the 5/8" drive. Use a DCW wear sleeve.





























Small: 8%" | Large: 8%"

Traditional Valve Lapping Sticks

- Oil resistant polvethylene handles
- · Locking tabs eliminate cup slippage

Description		Cup ID	Order No.
Small Lapping Stick	8½" Long		VLS-15
Replacement Cups	15.9mm / 0.625" dia.	.156"	VLS-5/8
	20.6mm / 0.813" dia.	.230"	VLS-13/16
Large Lapping Stick	8%" Long		VLS-30
Replacement Cups	28.6mm / 1.125" dia.	.380"	VLS-1 1/8
	34.9mm / 1.375" dia.	.380"	VLS-1 3/8



Valve Seat Inserts

- For Harley-Davidson®
- Easy to machine
- · Effectively dissipate heat for consistent valve sealing
- · Hardness increases during engine break-in
- · Radiused for easy installation

1.945

2.257"

1.375'

1.550"

.440'

.500"

· · · · · · · · · · · · · · · · · · ·					
Replacement Valve Seats For Shovel Head 1200 & 1340					
Application	OD	ID	Thickness	Order No.	
Exhaust	1.944"	1.575"	.400"	10-HC493	
Intake	2.135"	1.750"	.400"	10-HC542	
Oversize Seats	s For Sho	vel, Evolut	ion & Twin Cam - machining	required	
	OD	ID	Thickness	Order No.	
	1.630"	1.180"	.385"	10-HC414	
	1.757"	1.410"	.430"	10-HC447	
	1.882"	1.520"	.410"	10-HC478	
	2.008"	1.610"	.440"	10-HC510	
	2.040"	1.700"	.425"	10-HC518	
	2.070"	1.610"	.460"	10-HC526	
	2.132"	1.800"	.460"	10-HC541	
	2.163"	1.750"	.455"	10-HC549	
For Iron Head	Sportster				
Application	OD	ID	Thickness	Order No.	
Exhaust	1.757"	1.371"	.315"	10-HC446	
Intake	2.068"	1.750"	.315"	10-HC525	
Universal Rep	air Seat				
	OD	ID	Thickness	Order No.	
Powdered	1.339"	1.024"	.375"	10-SC340	
Metal	1.693"	1.299"	.434"	10-SC430	
	1.820"	1.375"	.450"	10-HC462	



Vacuum Style Lapping Stick

At Goodson, we're trained to know your business. Regular training sessions are held for our entire"

- Press the spring-loaded vacuum pump for a firm hold stays on until you release the vacuum
- Includes 3 cup sizes (also sold separately)

Description		Cup ID	Order No.
Vacuum Lapping Sti	ck 9¼" Long		VLV-50
Replacement Cups	19.1mm / 0.750" dia.	.415"	VLV-3/4
	25.4mm / 1.000" dia.	.415"	VLV-1
	31.8mm / 1.250" dia.	.415"	VLV-1 1/4



- · Large diameter for sure grip
- For 2" and larger valves

Description	Cup ID	Order No.
Hand Valve Lapping Stick 8¼" Long		VLS-75
Replacement Cup 44.5mm / 1.750" dia.	.313"	VLS-1 3/4

Buy 12 or more (any combo), Save 10% off Jobber

Nickel-Chrome Valve Seats

OD	ID	Depth	Order No.
1.250"	0.812"	1/4"	VS-1250
1.312"	1.000"	1/4"	VS-1312
1.375"	1.062"	1/4"	VS-1375
1.437"	1.125"	1/4"	VS-1437
1.500"	1.187"	1/4"	VS-1500
1.562"	1.250"	1/4"	VS-1562
1.562"	1.312"	7/32"	VS-1562A
1.625"	1.312"	1/4"	VS-1625

OD	ID	Depth	Order No.
1.625"	1.375"	7/32"	VS-1625A
1.687"	1.375"	1/4"	VS-1687
1.750"	1.500"	1/4"	VS-1750
1.812"	1.500"	1/4"	VS-1812
1.875"	1.562"	1/4"	VS-1875
1.937"	1.625"	1/4"	VS-1937
2.000"	1.625"	1/4"	VS-2000

See page 7 for valve seat removal tools that fit 3-D Fast Cut

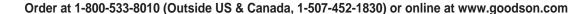
Valve Seat Removers

10-HC494

10-HC573

- Use to pry out valve seat inserts or stubborn grease seals
- · Choose from 90°, 100° and 120°, or buy the set
- Not recommended for use on aluminum heads
- · Set includes one of each angle 13⁷/₈" overall length

Description	Order No.	
3-Pc. Set	VSP-SET	•
90°	VSP-90	X
100°	VSP-100	X
120°	VSP-120	X



Replacement Cups

Also Available



11 0	0	O .
Size	Grit	Order No.
2 oz. / 56.7g	400 Grit	VLC-2-400
	600 Grit	VLC-2-600
	800 Grit	VLC-2-800
	1200 Grit	VLC-2-1200
2 oz. / 56.7g ea. Combo	120 Grit & 280 Grit	VLC-4
1 lb. / 453.6g	120 Grit	VLC-120
	180 Grit	VLC-180
	280 Grit	VLC-280

lapping tools • The higher the number the finer the grit

Use with any powered or manual valve



Valve Seat Drivers For Fast Seat Installation

 Pneumatic Drivers install seats faster, easier and without galling • Driver Head ID is .75" / 19.05mm

VSD-HD

Description	Order No.
Manual Drivers	
.375" / 9.53mm & .385" / 9.78mm ID	VSD-202-G
Driver Heads (Blackened for Rust Resistance)	
1.000" to 1.125" Seats / 25.4 - 28.6mm	VSD-203-G
1.250" to 1.375" Seats / 31.8 - 34.9mm	VSD-204-G
1.500" to 1.625" Seats / 38.1 - 41.3mm	VSD-205-G
1.750" to 1.875" Seats / 44.5 - 47.6mm	VSD-206-G
2.000" to 2.125" Seats / 50.8 - 54.0mm	VSD-207-G
Driver Heads (Not Blackened)	
1.750" to 2.000" Seats / 44.5 - 50.8mm	VSD-HD
Pneumatic Drivers	
.375" / 9.53mm & .385" / 9.78mm ID	PSD-385
.437" / 11.10mm ID	PSD-437

Watch an overview of Valve Lapping
Tools including live demonstrations
in our Tech Lab Tuesday Video Library.
Scan the code below with your smart
phone or other device for instant access.







Air Powered Valve Lapping Tool

- Operates on 90psi
- Includes air tool and 3 replacement cups • Air actuated ... no electricity needed • Cups also sold separately
- Air supply pressure: 89 psi
- Sound pressure: 77dB
- Sound power: 88 dB
- Hand/arm weighted vibration: 5.43 m/s²
- Use a light touch when operating no pressure required!

		• .	·
Description		Cup ID	Order No.
Air Powered Valve L	apping Tool		AVLP-300
Replacement Cups	21mm / 0.827" dia.	.230"	AVLP-301
	33mm / 1.299" dia.	.380"	AVLP-302
	38mm / 1.496" dia.	.380"	AVLP-303

Powered Lapping Tool

- Change rotary action into an effective oscillating motion
- Drive with a power drill
- Makes lapping faster and easier
- Includes 2 cup sizes

Description		Cup ID	Order No.
Complete Tool			VLP-100
Replacement Cups	22.2mm / 0.875" dia.	.460"	VLP-10
	25.4mm /1.000" dia.	.460"	VLP-20



Minnesota Fast Freeze

- Instantly chills seats & guides to -50°F (-45.5°C) Creates interference fit with heated aluminum heads Finish seat and guide work faster than ever 10 oz. Aerosol*
- Use on tight bushings, pins, shafts, etc.
- Order No. MFF-8*

Order 6 or more to Save 10% off Jobber *Hazardous Goods Fees Apply When Shipped by Air



Goodson seat wheels are built to grind accurately & outlast the competition

- · Brass bushings resist galling or seizing to the holder
- · Heat-cured, permanent epoxy bonding prevents loose bushings
- Bushings are set deep to expose the most abrasive for long life
- Each wheel is trued and checked to assure accurate, vibration-free grinding • Custom sizes and angles are available in-house - Call for more information





General Purpose Removes material from

cast-iron seats or inserts.



Cool Blue

Pure Aluminum-Oxide stone. Superior general purpose stone for high performance Beryllium seats. Very sharp.



Stellite

Specially formulated to grind Stellite and other types of hardened seat.



Finish

Final polishing stone gives an ideal final finish with minimal stock removal. Removes chatter marks.



Nickel Chrome

For aluminum heads with chrom-alloy seat inserts. Soft abrasive stone to grind hard seats. Speckled.



Ruby

The original Black & Decker composition, general purpose stone.



Fits Kwik-Way 13/16"x13 thread

Colors may vary due to manufacturing processes

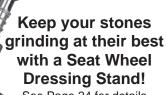
Size		Gener	al Purpose (Gl	P) 90 Grit	Cool Blu	e (CB) 80 Grit	Finish	ing (F) 150 Gri	t Stellite (S	6) 90 Grit
Inch	mm	00°	30°	45°	00°	45°	30°	45°	00°	45°
11/4"	32	KW-1000-GP	KW-1030-GP	KW-1045-GP	KW-1000-CB	KW-1045-CB		KW-1045-F	KW-1000-S	KW-1045-S
15/16"	33	KW-1000A-GP		KW-1045A-GP	KW-1000A-CB	KW-1045A-CB				
13/8"	35	KW-1100-GP	KW-1130-GP	KW-1145-GP	KW-1100-CB	KW-1145-CB	KW-1130-F	KW-1145-F	KW-1100-S	KW-1145-S
17/16"	36	KW-1100A-GP		KW-1145A-GP	KW-1100A-CB	KW-1145A-CB		KW-1145A-F	KW-1100A-S	KW-1145A-S
11/2"	38	KW-1200-GP	KW-1230-GP	KW-1245-GP	KW-1200-CB	KW-1245-CB	KW-1230-F	KW-1245-F	KW-1200-S	KW-1245-S
19/16"	39	KW-1200A-GP		KW-1245A-GP		KW-1245A-CB		KW-1245A-F	KW-1200A-S	KW-1245A-S
15/8"	41	KW-1300-GP	KW-1330-GP	KW-1345-GP	KW-1300-CB	KW-1345-CB	KW-1330-F	KW-1345-F	KW-1300-S	KW-1345-S
111/16"	43	KW-1300A-GP		KW-1345A-GP	KW-1300A-CB	KW-1345A-CB		KW-1345A-F	KW-1300A-S	KW-1345A-S
13/4"	44	KW-1400-GP	KW-1430-GP	KW-1445-GP	KW-1400-CB	KW-1445-CB	KW-1430-F	KW-1445-F	KW-1400-S	KW-1445-S
11//8"	47	KW-1500-GP	KW-1530-GP	KW-1545-GP	KW-1500-CB	KW-1545-CB	KW-1530-F	KW-1545-F	KW-1500-S	KW-1545-S
2"	51	KW-1600-GP	KW-1630-GP	KW-1645-GP	KW-1600-CB	KW-1645-CB	KW-1630-F	KW-1645-F	KW-1600-S	KW-1645-S
21/8"	54	KW-1700-GP	KW-1730-GP	KW-1745-GP	KW-1700-CB	KW-1745-CB	KW-1730-F	KW-1745-F	KW-1700-S	KW-1745-S
21/4"	57	KW-1800-GP	KW-1830-GP	KW-1845-GP	KW-1800-CB	KW-1845-CB		KW-1845-F	KW-1800-S	KW-1845-S
23/8"	60	KW-1900-GP	KW-1930-GP	KW-1945-GP	KW-1900-CB	KW-1945-CB				
Size		Nickel Chro	me (NC) 60 Gir	t	Ruby (R) 8	0 Grit			and the	

Size		Nickei Chroi	me (NC) 60 Girt	Kuby (K) 8	U Grit
Inch	mm	00°	45°	00°	45°
11/4"	32	KW-1000-NC	KW-1045-NC	KW-1000-R	KW-1045-R
1%"	35	KW-1100-NC	KW-1145-NC	KW-1100-R	KW-1145-R
17/16"	36	KW-1100A-NC	KW-1145A-NC	 	
1½"	38	KW-1200-NC	KW-1245-NC	KW-1200-R	KW-1245-R
19/16"	39	KW-1200A-NC	KW-1245A-NC	 	
1%"	41	KW-1300-NC	KW-1345-NC	KW-1300-R	KW-1345-R
111/16"	43	KW-1300A-NC	KW-1345A-NC	 	
13/4"	44	KW-1400-NC	KW-1445-NC	KW-1400-R	KW-1445-R
11//8"	47	KW-1500-NC	KW-1545-NC	KW-1500-R	KW-1545-R
2"	51	KW-1600-NC	KW-1645-NC	KW-1600-R	KW-1645-R
21/8"	54	KW-1700-NC	KW-1745-NC	 	
21/4"	57	KW-1800-NC	KW-1845-NC	 	
23/6"	60	KW-1900-NC	KW-1945-NC	 	

Ordering is easy!

- 1 Find the diameter (valve head diameter + 1/16" to 1/8").
- 2 Find the angle you need (you can modify angles with our Valve Seat Stone Dresser, page 24).
- 3- Select the abrasive to match your job.





See Page 24 for details



19



Valve Seat Grinding Sets

Order the set as-is or modify a set to meet your specific needs. Set contents include: Description **OE Number** Order No. Includes 45° Hex Drive Motor Seat Grinding Set (110V, 50/60 Hz) SGH-110-KIT 45° Hex Drive Motor Seat Grinding Set (220V, 50/60Hz) SGH-220-KIT 031-3100-20 Hex Drive Seat Grinder - 45° 110V, 50/60Hz 031-3100-20 Hex Drive Seat Grinder - 45° 220V, 50/60Hz 031-3100-27 031-3100-27 1 Universal Wheel Dresser w/G-13P Diamond **SWD-UNI** 1 Replacement Dressing Stand Diamond G-13P Dressing Stand Pilot with .437" Top 031-1102-89 031-1102-89 1 1 2 2 Stone Holder - 13/16" x 13 Thread w/Plunger 031-0300-30 031-0300-30 Heavy Duty Plastic Case (215/16" x 121/2" x 131/2") 1 001-1000-25 SG-CASE 1 1 Seat Stone Removal Tool KW-SRT 1 Leather Vibration Reducer (3 Pc.) KHW-3 1 .437" Top Pllots Dia./mm .2755" / 7.00mm 030-0237-30 P-5275K 1 .2763" / 7.02mm 030-0237-49 P-5276K 1 .2765" / 7.05mm 030-0237-40 P-5277K 1 1 .3125" / 7.93mm 030-0239-35 P-5312K 1 .3135" / 7.96mm 030-0239-51 P-5313K 1 .3145" / 7.98mm P-5314K 1 030-0239-78 1 .3150" / 8.00mm 030-0239-94 P-5315K 1 .3437" / 8.72mm P-5343K 030-0242-73 1 .3440" / 8.74mm P-5344K 030-0243-03 1 1 .3457" / 8.78mm P-5345K 1 030-0243-11 1 .3730" / 9.47mm P-5373K 1 1 030-0247-45 .3750" / 9.52mm 030-0247-70 P-5375K 1 General Purpose Valve Seat Grinding Stones (13/6"x13) 30° 45° KW-1145-GP 1.375" / 35mm KW-1130-GP 1 1 1.500" / 38mm KW-1245-GP KW-1230-GP 1 1 1 1 KW-1330-GP KW-1345-GP 1.615" / 41mm 1 1 1 1 1.750" / 44mm KW-1430-GP KW-1445-GP 1 1 1.785" / 47mm KW-1530-GP KW-1545-GP 1 1 1 1 2.000" / 51mm KW-1630-GP 1 KW-1645-GP 1 1 2.125" / 54mm KW-1730-GP 1 1 KW-1745-GP 1 1 Finishing Valve Seat Grinding Stones (13/6"x13) 30° 45° KW-1145-F 1.375" / 35mm KW-1130-F 1 1.500" / 38mm KW-1230-F 1 1 KW-1245-F 1 1 KW-1330-F KW-1345-F 1.625" / 41mm 1 1 1 1 1.750" / 44mm KW-1430-F 1 1 KW-1445-F 1 1 KW-1530-F 1.785" / 47mm 1 1 KW-1545-F 1 1 KW-1630-F KW-1645-F 2.000" / 51mm 1 1 1

KW-1730-F

2.125" / 54mm



Tools and Supplies for Engine Builders



- · Heavy duty electric motor
- 11,500 RPM Weighs 9 lbs.
- 3/5 HP 7.5 Amps

0/0 i ii , 7.0 / (iiip3	
Description	Order No.
110V, 50/60Hz	031-3100-20
220V, 50/60Hz	031-3100-27
Nose Assembly	031-3105-12
Hex Drive Assembly	031-3112-17
Replacement Leather Pad	031-1009-41
2 Pc. Brush Set	003-0072-43
Trigger Switch	000-1201-20





.650" Bore

031-0412-36

3/8" x 24 Thread

5/16" x 18 Thread





031-1011-00

031-2012-09

Hex Drive Replacement Adaptors

Adapt your Seat Grinde	
fit various Kwik-Way Se	eat Grinders
Description	Order No.
.500" Bore	031-0412-36
Fit SGA Motor Units with Serial	No. 0 to 2000
.650" Bore	031-0426-10
Fit SGA Motor Units with Serial	No. 4000 & up
3/8" x 24 Thread	031-1011-00
Fit SGAII Hex Motor Units	
5/16" x 18" Thread	031-2012-09
Fit SSG Hex Motor Units	

Same Day Shipping

KW-1745-F

1





"If you need a custom angle or size in a Valve Seat Stone, Goodson can do it. We grind seat stones in-house to standard and custom dimensions. Give Goodson a call today."

- Tim, Goodson Production - 8 years of service

Order 10 or more Valve Seat Wheels (any combination) and SAVE 10% off jobber





SX

Fits Sioux™, KO Lee, US, Thor, Skil, Winona 11/16"x16 thread Colors may vary due to manufacturing processes

Size	General Purpose (GP) 70 Grit						Cool Blue (CB) 80 Grit Ruby 80 Grit				0 Grit		
Inch	mm		000	300	450		60°		000	45°		000	450
7/8"	22											SX-500-R	SX-545-R
15/ ₁₆ "	24											SX-600-R	SX-645-R
1"	25											SX-700-R	SX-745-R
1 ¹ / ₁₆ "	27											SX-800-R	SX-845-R
11/8"	28		SX-900-GP	SX-930-GF	SX-945-	GP						SX-900-R	SX-945-R
13/16"	30		SX-900A-GP		SX-945A						l ———		
11/4"	32		SX-1000-GP	SX-1030-G			SX-1060-GP	S	X-1000-CB	SX-1045-CB		SX-1000-R	SX-1045-R
15/16"	33		SX-1000A-GP		SX-1045				X-1000A-CB	SX-1045A-CB			
13/8"	35		SX-1100-GP	SX-1130-G			SX-1160-GP		X-1100-CB	SX-1145-CB		SX-1100-R	SX-1145-R
17/16"	36		SX-1100A-GP		SX-1145				X-1100A-CB	SX-1145A-CB			
11/2"	38		SX-1200-GP	SX-1230-G	P SX-1245	-GP	SX-1260-GP	S	X-1200-CB	SX-1245-CB		SX-1200-R	SX-1245-R
1%16"	39		SX-1200A-GP		SX-1245	A-GP		S	X-1200A-CB	SX-1245A-CB			
15/8"	41		SX-1300-GP	SX-1330-G	P SX-1345	-GP	SX-1360-GP	S	X-1300-CB	SX-1345-CB		SX-1300-R	SX-1345-R
111/16"	43		SX-1300A-GP		SX-1345	A-GP		S	X-1300A-CB	SX-1345A-CB			
13/4"	44		SX-1400-GP	SX-1430-G	P SX-1445	-GP	SX-1460-GP	S	X-1400-CB	SX-1445-CB		SX-1400-R	SX-1445-R
11/8"	47		SX-1500-GP	SX-1530-G	P SX-1545	-GP	SX-1560-GP	S	X-1500-CB	SX-1545-CB		SX-1500-R	SX-1545-R
2"	51		SX-1600-GP	SX-1630-G	P SX-1645	-GP	SX-1660-GP	S	X-1600-CB	SX-1645-CB		SX-1600-R	SX-1645-R
21/8"	54		SX-1700-GP	SX-1730-G	P SX-1745	-GP		S	X-1700-CB	SX-1745-CB		SX-1700-R	SX-1745-R
21/4"	57		SX-1800-GP	SX-1830-G	P SX-1845	-GP	SX-1860-GP	S	X-1800-CB	SX-1845-CB		SX-1800-R	SX-1845-R
23/8"	60		SX-1900-GP	SX-1930-G	P SX-1945	-GP	SX-1960-GP	S	X-1900-CB	SX-1945-CB		SX-1900-R	SX-1945-R
21/2"	63		SX-2000-GP	SX-2030-G	P SX-2045	-GP		S	X-2000-CB	SX-2045-CB		SX-2000-R	SX-2045-R
25/8"	66		SX-2100-GP	SX-2130-G	P SX-2145	-GP		S	X-2100-CB	SX-2145-CB			
Size				ite (S) 100 Gı	it			shing (F) 150) Grit			el Chrome 60	Grit
Inch	mm		000	30°	45º		000	30°	45°	000		30°	45°
7/8"	22						SX-500-F		SX-545-F	SX-500			SX-545-NC
¹⁵ /16"	24						SX-600-F		SX-645-F	SX-600			SX-645-NC
1"	25						SX-700-F		SX-745-F	SX-700			SX-745-NC
11/16"	27						SX-800-F		SX-845-F	SX-800			SX-845-NC
11/8"	28		SX-900-S	SX-930-S	SX-945-S		SX-900-F	SX-930-F	SX-945-F	SX-900		SX-930-NC	SX-945-NC
13/16"	30		SX-900A-S		SX-945A-S		SX-900A-F		SX-945A-F	SX-900			SX-945A-NC
11/4"	32		SX-1000-S	SX-1030-S			SX-1000-F	SX-1030-F		SX-100		SX-1030-NC	SX-1045-NC
15/16"	33		SX-1000A-S		SX-1045A-S		SX-1000A-F		SX-1045A-F	SX-100			SX-1045A-NC
13/8"	35		SX-1100-S	SX-1130-S			SX-1100-F	SX-1130-F		SX-110		SX-1130-NC	SX-1145-NC
17/16"	36		SX-1100A-S		SX-1145A-S		SX-1100A-F		SX-1145A-F	SX-110			SX-1145A-NC
1½"	38		SX-1200-S	SX-1230-S			SX-1200-F	SX-1230-F		SX-120		SX-1230-NC	SX-1245-NC
1%16"	39		SX-1200A-S		SX-1245A-S		SX-1200A-F		SX-1245A-F	SX-120			SX-1245A-NC
15/8"	41		SX-1300-S	SX-1330-S	SX-1345-S		SX-1300-F	SX-1330-F	SX-1345-F	SX-130		SX-1330-NC	SX-1345-NC
111/16"			SX-1300A-S		SX-1345A-S		SX-1300A-F		SX-1345A-F	SX-130			SX-1345A-NC
13/4"	44		SX-1400-S	SX-1430-S			SX-1400-F	SX-1430-F		SX-140			SX-1445-NC
11/8"	47		SX-1500-S	SX-1530-S			SX-1500-F	SX-1530-F		SX-150			SX-1545-NC
2"	51		SX-1600-S	SX-1630-S			SX-1600-F	SX-1630-F		SX-160			SX-1645-NC
21/8"	54		SX-1700-S	SX-1730-S			SX-1700-F	SX-1730-F		SX-170			SX-1745-NC
21/4"	57		SX-1800-S	SX-1830-S			SX-1800-F	SX-1830-F		SX-180			SX-1845-NC
23/8"	60		SX-1900-S	SX-1930-S			SX-1900-F	SX-1930-F		SX-190			SX-1945-NC
2½" 25/8"	63		SX-2000-S	SX-2030-S	SX-2045-S		SX-2000-F	SX-2030-F	SX-2045-F	SX-200			SX-2045-NC
	66									SX-210	0-NC	SX-2130-NC	SX-2145-NC

All Valve Seat Wheels are guaranteed against manufacturing defects for 1 year from original purchase date



2 Angle Valve Seat Wheels

- Use with SX-HOLDER & SX-78 adaptor (page 22)
- 30° one side, 45° on the other side

	(General Purpose
Inch	mm	Order No.
3"	76.2	SXL-2345-GP
31/2"	88.9	SXL-2545-GP
33/4"	92.3	SXL-2645-GP
4"	101.6	SXL-2745-GP

SX-HOLDER





Grinding Equipment & Supplies

Tools and Supplies for Engine Builders

Sioux-Style Valve Seat Grinding Kits

These kits include everything you need to get started in seat grinding. Choose between kits including 110V and 220V Star Drive Electric Grinders. After that, everything else in the kit is identical.

We started with the most common sizes of pilots and valve seat stones, but you can customize one of these kits to meet your specific needs. Call 1-800-533-8010 for additional information.

Description	omaton.	OE Number	Order No.	Include	
•	otor Seat Grinding Set (110V, 50/60 H		SGK-110-KIT	IIICIUUE	:5 •
	otor Seat Grinding Set (110V, 50/60Hz	,	SGK-220-KIT	_	•
	Grinder - 45° 110V, 50/60 Hz	031-3100-21	031-3100-21	_ `	1
	Grinder - 45° 220V, 50/60 Hz	031-3100-21	031-3100-21	1	'
	/heel Dresser w/G-13P Diamond		SWD-UNI	1	1
Replacement Dr			G-13P	'	ľ
Dressing Stand F	0	031-0202-55	031-0202-55	1	1
Stone Holder - 17		1702	SX-HOLDER	2	2
	tic Storage Box (21 ⁵ / ₁₆ " x 12 ¹ / ₂ " x 13 ¹ / ₂ ")		SG-CASE	1	1
Seat Stone Rem			SX-SRT	1	1
Bounce Spring S			BSS-100	1	1
	n Reducer (3 Pc.)		SHW-3	1	1
.385" Top Pilots			31144-3	'	'
.505 100111015	.2755" / 7.00mm		P-5275S	1	1
	.2763" / 7.00mm		P-5277S	1	1
	.2779" / 7.05mm		P-5278S	1	1
	.3125" / 7.94mm		P-5312S	1	1
	.3130" / 7.95mm		P-53125	1	1
	.3141" / 7.98mm		P-5314S	1	1
	.3149" / 8.00mm		P-5315S	1	1
	.3430" / 8.71mm		P-5343S	1	1
	.3440" / 8.73mm		P-5344S	1	1
	.3450" / 8.76mm		P-5345S	1	1
	.3750" / 9.53mm		P-5375S	1	1
	.3760" / 9.55mm		P-5376S	1	1
Gonoral Burnos	e Seat Grinding Stones (11/16"x16)	30°	F-33703		50
1.375" / 35mm	SX-1130-GP	1 1	SX-1145-GP	1	1
1.500" / 38mm	SX-1230-GP	1 1	SX-1245-GP	i	1
1.625" / 41mm	SX-1330-GP	1 1	SX-1345-GP	i	1
1.750" / 44mm	SX-1430-GP	1 1	SX-1445-GP	1	1
1.785" / 47mm	SX-1530-GP	1 1	SX-1545-GP	1	1
2.000" / 51mm	SX-1630-GP	1 1	SX-1645-GP	i	1
2.125" / 54mm	SX-1730-GP	1 1	SX-1745-GP	1	1
	Seat Grinding Stones (11/16"x16)	300	3X-1743-GI		50
1.375" / 35mm	SX-1130-F	1 1	SX-1145-F	1	1
1.500" / 38mm	SX-1130-F	1 1	SX-1145-F	1	1
1.625" / 41mm	SX-1230-F	1 1	SX-1345-F	1	1
1.750" / 44mm	SX-1330-F SX-1430-F	1 1	SX-1445-F	1	1
1.785" / 47mm	SX-1430-F SX-1530-F	1 1	SX-1545-F	1	1
2.000" / 51mm	SX-1630-F	1 1	SX-1645-F	1	1
2.125" / 54mm				1	1
Z.120 / 54IIII	SX-1730-F	1 1	SX-1745-F	I	T



45º Sioux-Style (SGK) **Star Drive Electric Motor** Unit

- Heavy duty electric motor
- 11,500 RPM
- · Weighs 9 lbs.
- 3/5 HP 7.5 Amps

0/0 m / 1.0 / mps	
Description	Order No.
110V, 50/60Hz	031-3100-21
220V, 50/60Hz	031-3100-28
Nose Assembly	034-3105-00
2 Pc. Brush Set	003-0072-43
Trigger Switch	000-1201-20



Replacement Drive Assemblies

- Easy to install

D 1.11	0 1 11
Description	Order No.
Star Drive (SGH)	034-3112-00

- 1/2" x 20 thread
- · Always keep one on hand for emergencies

Seat Stone Holders, Adaptors, Etc.

Valve Seat Stone Holders & Accessories

• Ball-bearing stone holders • Ideal replacements for worn holders • Save time by having several holders set up with commonly used sizes, compositions or angles of seat stones



Rebuildable 13/16"x13 Thread Hex Drive Kwik-Way Stone Holders	S
Description	Order No.
Fits .437" Top Pilot Hex-Drive w/o Spring Plunger	031-0300-56
Fits .437" Top Pilot Hex-Drive with Spring Plunger	031-0300-30
Fits .375" Top Pilot Hex Drive w/o Spring Plunger	KW-375
Non-Rebuildable Hex Drive Stone Holders	
	KW-375E
Fits .437" Top Pilot 13/16"x13 thread	KW-437

Rebuildable ¹³ / ₁₆ "x13 Thread Hex Drive Kwik-Way Stone Holds	ers
Description	Order No.
Fits .437" Top Pilot Hex-Drive w/o Spring Plunger	031-0300-56
Fits .437" Top Pilot Hex-Drive with Spring Plunger	031-0300-30
Fits .375" Top Pilot Hex Drive w/o Spring Plunger	KW-375
Non-Rebuildable Hex Drive Stone Holders	
Fits .375" Top Pilot 13/16"x13 thread	KW-375E
Fits .437" Top Pilot 13/16"x13 thread	KW-437

031-0126-60 031-0302-95 KHW-3	KW-SRT
Accessories	Order No.
Stabilizer Assembly with Bronze Bushing	031-0126-60

Accessories	Order No.
Stabilizer Assembly with Bronze Bushing	031-0126-60
Heavy-Duty Twisted Cable Steel Coupling	031-0304-10
Replacement Hex Drive Body Cap	031-0302-95
Replacement Spring Plunger Assembly	031-0313-97
Leather Vibration Reducer (3 pc.) For KW-Holders	KHW-3
Valve Seat Stone Removal Tool	KW-SRT



Rebuild Kits

For Hex Drive Stone Holder without Spring Plunger Includes 2 Bearings, Bearing Sleeve, Bearing Lock Nut, Sleeve Key, Hex Cap & Garter Spring Order No. 034-0002-00

00	0
	= 0
MANAAAAA	(3)

For Hex Drive Stone Holder with Spring Plunger

Includes 2 Bearings, Bearing Sleeve, Bearing Lock Nut, Sleeve Key, Hex Cap & Spring Plunger

034-0002-15



For Flex Drive Stone Holder

Includes 2 Bearings, Bearing Sleeve, Heavy Duty Flex Coupling, Inner Sleeve Key & Set Screw

9 Order No. 034-0003-25

Rebuild kit components are not available individually

3X-HULDER	3X-1/02DD	3X-3/3	BD3-HOLDEK	SUN-HULDER	
.385" Pilot, 11/16"x16	Thread Sioux	Style Stone H	olders		
Description	OAL	OE#		Order No.	
Short Body (Star)	31/2"	1672		SX-1672	
Star Drive	43/4"	¹¹∕₁₀"x16 thre	ead	SX-HOLDER	
5/8" Hex Drive	5 ³ /16"	1702BB		SX-1702BB	
.375" Pilot Stone Holders, 11/16" x 16 Thread					
Star Drive	43/4"	¹¹∕₁₀"x16 thr∈	ead	SX-375	
Black & Decker Sty				BDS-HOLDER	
Includes BD-60 ada	ptor to convert	%6"x16 to ¹1∕16"	x16 Sioux-style	stones	

.389" Pilot Stone H	lolders, 11/	16" x 16 Thread	
Sioux-Style (Star)	43/4"	1702	SUN-HOLDER
	_		



Accessories	Order No.
Sioux-Style Conversion Bushings 11/16"x16 to 1/8"x14	SX-78
Leather Vibration Reducer (3 pc.) For SX-Holders	SHW-3
Standard Bounce Spring Set (3pc.)	BSS-100
Valve Seat Stone Removal Tool	SX-SRT
Black & Decker 5/8" Hexball 5/16"x24 thread	BD-58
%6"-16 to 11/16"-16 Adaptor for Sioux Style	BD-60







031-0393-04

031-0390-02 031-0391-00 Grinding Wheel

Grinding Wheel Adaptors	
Description	Order No.
13/16"-13 (KW) Threaded Stones to 11/16"-16 Threaded Holders	
(Sioux™, KO Lee)	031-0390-02
13/16"-13 (KW) Threaded Stones to 9/16"-16 Threaded Holders	
(Black & Decker)	031-0391-00
13/16"-13 (KW) Threaded Stones to 21/32"-18 Threaded Holders	
(Kwik-Way)	031-0393-04

Air Drive Adaptors

- 1/4" shank
- · Adaptors available for a variety of stone holders
- Use with bounce springs (page 24) for best results





(11/16" Socket)

Description	•		Order No.
Hexball Driver	%" SAE thread	\$82.49	ADA-BDS
Kwik-Way Drive Adaptor	½" x 20 thread	82.49	ADA-KW
Sioux-Style Drive Adaptor	Welded style adaptor	92.99	ADA-SX-HD

7.875"



Extended Nose Seat Grinding Motor

- Heavy Duty Electric Motor
- Extended drive unit allows easy access to recessed engines such as Lycoming and Continental
- Spline drive for use with Sioux-Style stone holders
- Available in 110V or 220V models
- 11,500 RPM (free speed) / 6982 RPM under load
- Weighs 12 lbs.
- 3/5 HP, 7.5 AMP motor

Description	Order No.
110V Extended Nose Unit	SGL-SL110
220V Extended Nose Unit	SGL-SL220

Heavy Duty Valve Seat Grinding Kits

Spline Drive Seat Grinding Kit includes everything listed below. Everything comes packed in a handy storage case. Kit includes:

			Inclu	ıde
110V Heavy Duty Valve Seat Grinding Kit 220V Heavy Duty Valve Seat Grinding Kit Star Drive Seat Grinder - 45° 110V, 50/60 Hz				V
			•	
				X
		031-3100-28	Х	
		031-1900-02	Х	Х
		031-0202-47	Х	Х
ith dress	er)	G-18		
		SX-375	2	2
		SG-CASE	X	Х
		SX-SRT	Х	X
		SHW-3	Х	Х
		BSS-100	Х	Х
		3D-DB7	Х	Х
.343"	Dia.	AP-5343		
.344"	Dia.	AP-5344		
.345"	Dia.	AP-5345		
.376"	Dia.	AP-5376	Х	Х
.377"	Dia.	AP-5377	Х	Х
.406"	Dia.	AP-5406	Х	Х
.407"	Dia.	AP-5407		
.408"	Dia.	AP-5408		
.436"	Dia.	AP-5436		
.498"	Dia.	AP-5498		
.499"	Dia.	AP-5499	Х	х
.501"	Dia.	AP-5501	Х	х
.502"	Dia.	AP-5502	Х	х
30°	1 ³ / ₄ " Dia.	SX-1430-GP	Х	Х
45°		SX-1445-GP	х	х
30°	2 ¹ / ₂ " Dia.	SX-2030-GP	Х	х
45°	2 ¹ / ₂ " Dia.	SX-2045-GP	х	х
00°	1 ³ / ₄ " Dia.	SX-1400-CB	Х	
00°	2 ¹ / ₂ " Dia.	SX-2000-CB	х	х
				_
45°				
45°	2 ¹ / ₂ " Dia.	SX-2045-F	X	
	.343" .344" .345" .376" .406" .408" .436" .501" .502" 30° 45° 00° 30° 45° 30°	45° 1 ³ / ₄ " Dia 30° 2 ¹ / ₂ " Dia. 45° 2 ¹ / ₂ " Dia. 00° 1 ³ / ₄ " Dia. 00° 2 ¹ / ₂ " Dia. 30° 1 ³ / ₄ " Dia. 45° 1 ³ / ₄ " Dia. 30° 2 ¹ / ₂ " Dia.	031-1900-02 031-0202-47	AV-110-KIT AV-220-KIT V 031-3100-21 031-3100-28 x 031-1900-02 x 031-0202-47 x G-18 SX-375 2 SG-CASE X SX-SRT X SHW-3 BSS-100 X 3D-DB7 X .343" Dia. AP-5343 .344" Dia. AP-5345 .376" Dia. AP-5376 A7-5376 A7-5377 A7-0 Dia. AP-5377 A7-0 Dia. AP-5406 AP-5406 AP-5406 AP-5407 AP-5408 A9-5408 A9-5502 X 30° 1³/₄" Dia. AP-5501 X AP-5502 X 30° 1³/₄" Dia. SX-1430-GP X AP-5502 X 30° 1³/₄" Dia. SX-2030-GP X AP-500-CB X AP-500-CB X AP-500-CB X AP-500-CB X AP-5502 X AP-5502 X AP-5502 X AP-5502 X AP-5502 X AP-5504 X AP-5508 X AP-5508 X AP-5509 X AP-50



High-Speed Air Drivers

- 2 models available Star or hex drive
- 11,000 RPM motor 5/8" 11 spindle
- 1/4" air inlet 6 CFM Rear exhaust
- Weighs 2.25 lbs. Measures 8.75" long
- Composite grip and trigger are designed for user comfort

Description	Order No.
Star Drive (SGK) 5/8" - 11 spindle	AG-SX90
Hex Drive (SGH) 5/8" - 11 spindle	AG-KW90
Replacement Drive Adaptors (11/2" OAL)	
Star-Drive (SGK) Adaptor	SW-SX

Hex Socket (SGH) Adaptor SW-KW



Goodson

Universal Valve Seat Wheel **Dressing Stand**

- · Infinitely adjustable from 0° to 90°
- Scale marked in 1º increments
- Dress stones up to 4" diameter
- Includes Premium dresser diamond & dresser pilot
- · Base has pre-drilled holes for easy mounting to your bench
- Choose dresser pilot separately from chart below

Description	Order No.	Incl.
Universal Dressing Stand	SWD-UNI	•
Replacement Premium Dressing Diamond	G-13P	X
Dressing Stand Riser Bushings (.250" & .875" Tall)	SK-9-10	X
Dressing Stand Riser Bushings (For .437" dresser pilots)	SK-11-12	

4" dia.

shield

Stones and Holders sold separately

made in

nium Dresser Pilot

made in

cludes Premium

Dresser Pilot

Choose From

Chart Polou

Choose From

Chart Below

See pages 18-23 for valve seat stones, stone holders, air drivers, etc.

Heavy Duty Valve Seat Wheel Dresser

- · Ball bearing mounted diamond carrier
- Adjustable in 1° increments from 0° to 90°
- Includes diamond
- Choose dressing pilot separately from list below

 Designed for maximum accuracy 			
Description	Order No.		
Heavy Duty Dresser	031-1900-02		
Replacement Torsion Spring for 031-1900-02	000-1850-78		
Replacement Brass Plug	031-1917-00		
Replacement Diamond Dresser	G-18		



Valve Seat Wheel **Dresser Pilots for Universal & Heavy Duty Wheel Dressers**

- .437" top pilots include a groove
- All pilots have 625" hottom

	All pilots have .625 bott	JIII		
Dresser Pilots (select based on stone holder type)				
	Fits Stone Holder Type	OAL	Order No.	
	A .437" Hex Stone Holder	5%"	031-1102-89	
	B .437" Hex or Flex Stone Holder	71/4"	031-0202-80	
	C .385" Top Stone Holder	6"	031-0202-55	
	D .375" Top Stone Holder	6¾"	031-0202-47	



Seat Stone Removal Tool

Once in a while a valve seat stone will be so tight on the stone holder that it's almost impossible to get off. That's why we came up with this tool. Simply fasten it to your bench with screws or bolts (not included) or clamp it in a vise, place the holder onto the fixture and twist the stone off easily.

Descripton	Order No.
Sioux-Style	SX-SRT
Kwik-Way Style	KW-SRT

Valve Seat Height Gauge

- · Adjusts for all popular valve seat diameters • Gauge accurate to .001"
- Seat contact probe aligns on valve seat while gauge rides along the fire deck • Pilot aligns in valve guide
- · Fully adjustable seat contact probe and gauge positions allow tool to fit popular seat diameters from .750" to 3.00"
- Includes Dial Indicator

Description	Fits Pilot	Order No.
Valve Seat Height Gauge Kit	.375"	VSHG-375
Replacement Dial Indicator		EDI-1

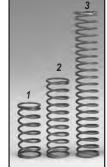


Goodson recommends using Bounce Springs with your Valve Seat Stones to prevent damage to the stone and the rom the techxperts™ seat. This is especially important with the very small stones.



Standard Bounce Spring Set

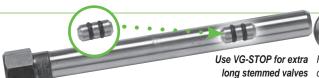
- Includes 1 each of 3 lengths: 1" / 24.5mm, 1.50" / 38.1mm & 2" / 50.8mm
- ID = .450" / 11.4mm
- OD = .570" / 14.5mm
- · Not for use with 3-D Fast Cut
- Order No. BSS-100



Small Diameter **Bounce Springs**

- ID = .406"/10.3mm
- OD = .500"/12.7mm

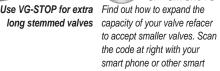
Length / mm	Order No.
1.10" / 27.9	BS-1
1.67" / 42.4	BS-2
3.00" / 76.2	BS-3



Adaptor for ½" Chucks

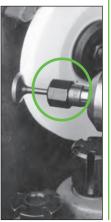
- For small diameter valves
- Collet cover range from 2.8mm to 6.5mm
- Hardened steel collet holder fits any machine with a ½" chuck
- · Collet seats in retainer nut for fast, easy removal
- Internal stop adjusts, allowing you to reface an entire set of valves to identical specs quickly
- Start with the set then replace collets as needed (collets will not work without the holder)
- Use the Adaptor Stop to machine longer valve stems

Description	Range	Order No.	Incl.
Full Set		UVRC-46	•
Steel Collet Ho	older (collets MUST be used)	UVRC-46R	X
Replacement	2.8 to 3.2mm (.109" to .125")	UVRC-18	
Collets	3.0 to 3.5mm (.118" to .138")	UVRC-3.5MM	
	3.5 to 4.0mm (.138" to .158")	UVRC-4.0MM	Х
WC) All	4.0 to 4.5mm (.158" to .177")	UVRC-4.5MM	
	4.4 to 4.8mm (.172" to .1875")	UVRC-316	
IS HE WAS	4.5 to 5.0mm (.177" to .196")	UVRC-5MM	X X X X X X X X X X X X X X X X X X X
	4.8 to 5.2mm (.1875" to .203")	UVRC-1364	
CO PS	5.0 to 5.5mm (.196" to .216")	UVRC-5.5MM	X
THE PERSON NAMED IN	5.5 to 6.0mm (.216" to .236")	UVRC-6.0MM	
	6.0 to 6.5mm (.236" to .256")	UVRC-6.5MM	x x x
Replacement I	Nut	UVRC-NUT	
Adaptor Stop		VG-STOP	X



available





Valve Stem to Valve Face Concentricity Gauge

- Accurate to .001"
- Features a rugged, positive stop –
 set it once and do an entire set of
 valves Use before grinding to
 eliminate needless cleaning &
 machine time Use after refacing
 to ensure stem concentricity Also
 check pilots and other small parts for
 concentricity
- For stems as small as 4mm
- Order No. VCG-16



Sun-Dura® Canvas Machine Covers

- Heavy-weight, breathable black Sun-Dura® fabric won't hold in moisture
- · Several sizes to fit a variety of machines
- All covers will fit other machines, just match your machine's dimensions to the cover dimensions
- · Covers are opaque, pictures for demonstration only

Fits Machine	Dimensions	Order No.
Ring Filer	13"L x 7 ¹ / ₂ "D x 7 ¹ / ₂ "H	GMC-PRF
VST-60G Spring Tester	10"L x 14"D x 18"H	GMC-VST
AG-Series Precision Gauge	8"L x 8"W x 4"D	GMC-AG300



VR/TR Grinding Wheels

Cillianig	*****	,13
Description	Sunnen	Goodson
Butt	VR601	GV-755
General Purpose	VR602	GV-766
Titanium	VR603	
Stellite	VR604	
TR-6700 Tappet 0	Grinder	
Chilled Iron Lifters	VR606	
General Purpose		
(used with water s	soluble	
coolant only)	VR607	

Sunnen® Valve Refacer Wheels

Goodson is now your exclusive source for replacement grinding wheels for the VR-6500, VR-7000 and VR-8000 Grinders. We have very limited stock on these items but have listed the Goodson equivalents for your reference. In-stock items are listed on our website but you can call 1-800-533-8010 and speak to a representative for pricing and availability.

VR-7000 & VR-8000 Grinding Wheels

99		
Description	Sunnen	Goodson
Butt	VR1701	GV-824
General Purpose (Water)	VR1702	
Titanium		
(Water or Oil)	VR1704	GV-827

Visit our website for pricing. Use your smart device to scan the code at right for quick access.



another

Precision made wheels = superior performance

We stock more than 40 individual valve refacer wheels, each one designed for a specific machine. Our 4" general purpose wheel for Black & Decker is different from our 4" general purpose wheel for Sioux™. We won't compromise on performance just to simplify our inventory. Your valve refacer requires a certain type of grit, grade and bond and Goodson delivers. All Goodson Valve Refacing Wheels are designed to be used with mineral based grinding oils such as VGO-10 or VGO-SD10. Goodson guarantees all valve refacing wheels against manufacturing defects for 1 year from original purchase date.

Choose from these types: $\mathbf{GP} = \mathbf{for}$ general purpose grinding $\mathbf{S} = \mathbf{for}$ grinding Stellite, $\mathbf{T} = \mathbf{for}$ grinding Titanium, and $\mathbf{CB} = \mathbf{for}$ general purpose grinding of harder materials. Stone color may vary due to manufacturing process.

To Fit	Use	Dia x Ht x Arb	Shape	Type	Color	Fits Models	OE No.	Order No.
Black &	Valve	4" x 1" x ½"	Offset	СВ	Blue	A, B, C, LW, M, MW, N, NW, NWI	Goodson Spec	GV-146-CB
ecker		4" x 1" x ¾"	Offset	S	Ruby	A, B, C, LW, M, MW, N, NW, NWI	3 16371	GV-144
		4" x 1" x 5/8"	Offset	GP	Gray	All but 680, 682, 285, 956		GV-147
		4" x 1" x %"	Offset	GP	Black	All but 680, 682, 285, 956		GV-148
		4" x 1" x ⁵ ⁄8"	Offset	T	Green	All but 680, 682, 285, 956	Goodson Spec	GV-150
		5" x 1" x 5/8"	Offset/20°	GP	Pink	P, PC, PCB, T, TD, TG	34131	GV-156
	Stem	4" x 11/8" x 1/2"	Cup	GP	Ruby	All models	20939	GV-145
omec	Valve	215 x 35 x 76mm	Flared	GP	Gray	VR416, RV-516	7604	GV-925
		215 x 35 x 76mm	Flared	S	Brown	VR416, RV-516	Goodson Spec	GV-980
	Stem	100 x 50 x 20mm	Cup	GP	White	VR416, RV-516	7606	GV-928
L	Valve	8" x 1½" x 1½"	Flared	GP	White	CG-50,-80,-82, V-90, VR-7000	8230	GV-823
unnen®		8" x 1½" x 1½"	Flared	GP	Gray	CG-50,-80,-82, V-90, VR-7000	VR1703	GV-825
		8" x 1½" x 1½"	Flared	S	White	CG-50,-80,-82, V-90, VR-7000	Goodson Spec	GV-821
		8" x 1½" x 1½"	Flared	T	Green	CG-50,-80,-82, V-90, VR-7000	VR1704	GV-827
	Stem	8" x 1½" x 1½"	Flared	GP	Ruby	CG-80, CG-82, V-90, VR-7000	VR1701	GV-824
wik-Way	Valve	4½" x ½" x ½"	Offset	GP	Black	CV, SK, KK, VC, SM, SV, XC	010-0450-10	GV-257
		4½" x ½" x ½"	Offset	S	Gray	CV, SK, KK, VC, SM, SV, XC	010-0457-03	GV-259
		5" x 1/8" x 1/8"	Offset	GP	White	EVS, VS	Goodson Spec	GV-251
		5" x 1/8" x 1/8"	Offset	GP	Gray	EVS, VS	010-0509-01	GV-252
		5" x 1/8" x 1/8"	Offset	T	Green	EVS, VS	010-0508-04	GV-255
		7" x 1" x ½"	Offset	GP	Gray	SVS, SVS-2	010-0709-00	GV-280
		7" x 1" x 1/8"	Offset	CB	Blue	SVS, SVS-2	Goodson Spec	GV-280-CB
		7" x 1" x ½"	Offset	S	White	SVS, SVS-2	010-0707-50	GV-281
		7" x 1" x 1/8"	Offset	T	Green	SVS, SVS-2	010-0708-05	GV-281
		7" x 1" x ½"	Offset	T	Green	SVS, SVS-2	Goodson Spec	GV-282A
		7" x 1" x ⁷ /8"	Offset	GP		SVS, SVS-2	Radiac Spec	F372239 Re
		7" x 1 ⁹ / ₁₆ " x ⁷ / ₈ "	Offset	GP	Ruby	SVS, SVS-2		F377419 Re
					,	VL	Radiac Spec	GV-260
	Ctom	8" x 13%" x 7%"	Offset	GP	Gray		010-0819-04	
	Stem	3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup	GP	Gray	All Models except VL	Radiac Spec	F336036 A
		3" x 1½" x 5%"	Cup	GP	Gray	All Models except VL	010-0300-05	GV-237
0.1	V/-1	3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup	CB	Blue	All Models except VL	Goodson Spec	GV-237-CB
O Lee	Valve	5" x ¾" x ¾"	Offset	GP	Gray	All models	OV5GH60	GV-658
	01	5" x ¾" x ¾"	Offset	S	White	All models	OV5GH80S	GV-659
	Stem	4" x 1" x 5%"	Cup	GP	Gray	K500(C) & K403(C)	RV4KH60	GV-345
		4" x 1" x %"	Cup	СВ	Blue	All	Goodson Spec	GV-345-CB
ottler	Valve	7" x 1" x 1/8"	Offset	GP	Gray	VR-7, VR-10	VTRW-8	GV-280
		7" x 1" x 1/8"	Offset	СВ	Blue	VR-7, VR-10	Goodson Spec	GV-280-CB
		7" x 1" x %"	Offset	T	Green	VR-7, VR-10	VTRW-7	GV-282
		7" x 1" x 1/8"	Offset	S	White	VR-7, VR-10		GV-281
		7" x 1" x ½"	Offset	T	Green	VR-7, VR-10	Goodson Spec	GV-282A
		7" x 1" x ⁷ /s"	Offset	GP	U	VR-7, VR-10	Radiac Spec	F372239 Re
		7" x 1" x ⁷ /8"	Offset	GP	Ruby	VR-7, VR-10	Radiac Spec	F377419 🕰
		8" x 1½" x 1½"	Flared	GP	Gray	VR-8	Goodson Spec	GV-525
		9" x 1½" x 1½"	Offset	GP	Orange	VR-9, VR-12		GV-725
		9" x 1½" x 1½"	Offset	S	Pink	VR-9, VR-12		GV-726
		9" x 1½" x 1½"	Offset	T	Green	VR-9, VR-12		GV-727
		9" x 1 ¹ / ₄ " x 1 ¹ / ₂ "	Offset	S	Ruby		ite Coated Diesel	GV-728
	Stem	3" x 11/4" x 5/8"	Cup	GP	Gray	VR-7, VR-10	VTRW-9	GV-237
		3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup	СВ	Blue	All Models except VL	Goodson Spec	GV-237-CB
		3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup	GP	Gray	VR-7, VR-10	Radiac Spec	F336036 Re
		100 x 50 x 20mm	Cup	GP	White	VR416, VR-516, VTRW-3	7606	GV-928

GV-659

GV-345

GV-345-CB

Valve Refacing Wheels

Colors may vary due to manufacturing processes. All valve refacing

Choose the correct profile for your machine and application Offset Cup Flared

Straight/15°

available Scan the code with your smart phone or other smart device camera.



wheele ere								device camera.	
wheels are guaranteed for									
1 year from	To Fit	Use	Dia x Ht x Arb	Shape	Type	Color	Fits Models	OE No.	Order No.
•	Skil	Valve	5" x ¾" x ¾"	Offset	GP	Gray	All models	7556/VW80	GV-658
original purchase	Snap-On		5" x ¾" x ¾"	Offset	S	White	All models	VW80S	GV-659
date.		Stem	4" x 1" x 5/8"	Cup	GP	Gray	All but Skil 491	7557/VR2M89	GV-345
			4" x 1" x 5/8"	Cup	CB	Blue	All but Skil 491	Goodson Spec	GV-345-CB
	Sioux™	Valve	4" x 1" x 5/8"	Offset	CB	Blue	All but 680, 682, 285, 956	Goodson Spec	GV-146-CB
क			4" x 1" x 5/8"	Offset	GP	Gray	All but 680, 682, 285, 956	78SP	GV-147
90			4" x 1" x 5/8"	Offset	GP	Black	All but 680, 682, 285, 956	78E	GV-148
			4" x 1" x 5/8"	Offset	S	Ruby	All but 680, 682, 285, 956	Goodson Spec	GV-144
			4" x 1" x 5/8"	Offset	T	Green	All but 680, 682, 285, 956	Goodson Spec	GV-150
			5" x 1" x 5/8"	Offset/20°	GP	Pink	Thor 299 & 300	Goodson Spec	GV-156
			7" x ¹¹ / ₁₆ " x 1 ³ / ₄ "	Str./15°	GP	Orange	680, 956, 2001 & 2075	Goodson Spec	GV-270
			7" x ¹¹ / ₁₆ " x 1 ³ / ₄ "	Str./15°	CB	Blue	680, 956, 2001 & 2075	Goodson Spec	GV-270-CB
			7" x ¹¹ / ₁₆ " x 1 ³ / ₄ "	Str./15°	S	White	680, 956, 2001 & 2075	177	GV-271
			7" x ¹¹ / ₁₆ " x 1 ³ / ₄ "	Str./15°	T	Green	680, 956, 2001 & 2075	174	GV-272
			7" x ¹¹ / ₁₆ " x 1 ³ / ₄ "	Str./15°	GP	Ruby	2001, 2075, 680 & 956	Radiac Spec	A379613 Radiac
			7" x ¹¹ / ₁₆ " x 1 ³ / ₄ "	Str./15°	T	Green	2001, 2075, 680 & 956	Radiac Spec	A340229 Radiac
		Stem	4" x 1" x 5/8"	Cup	GP	Gray	All but 682 & 685	81 (73533)	GV-345
			4" x 1" x 5/8"	Cup	CB	Blue	All but 682 & 685	Goodson Spec	GV-345-CB
12.00			4" x 1" x 5/8"	Offset	GP	Gray	All but 682 & 685	Radiac Spec	F336037 Radiae
1	Sunnen®	Valve	6" x 1 ⁷ / ₁₆ " x ³ / ₄ "	Flared	GP	Black	VR6500, all S&D	VR602	GV-766
THE REAL PROPERTY.	(TA) S&D		6" x 1 ³ / ₈ " x ³ / ₄ "	Flared	GP	Gray	VR6500	Radiac Spec	F345291 Radiac
		Stem	5" x 1½" x ¾"	Cup	S	White	VR6500, all S&D	VR601	GV-755
建	Winona	Valve	5" x ¾" x ¾"	Off./Bev.	GP	Gray	E, Y, YW, X, XA	75399	GV-658

Gray Blue Goodson Spec Colors may vary due to manufacturing processes. All valve refacing wheels are guaranteed for 1 year from original purchase date.

White

K500HM, K403CM

All but 500 & CRW

All but 500 & CRW

Mix 1 part grinding aid to

4 parts refacer oil



Van

Norman

Stem

Mineral Based Valve Grinding Oil

- Long-lasting Cools while grinding
- Removes particles for a better finish
- Inhibits rust Prevents rancidity, foaming & deposits

Quantity	Order No.
1 gallon / 3.79 L	VGO-10
5 gallons / 18.93 L	VGO-50



Off./Bev.

GP

CB

Cup

Cup

5" x 3/4" x 5/8"

4" x 1" x 5%'

Valve Grinding **Aid For**



& Stellite Valves

- Not water soluble add to your mineral based Valve Grinding Oil for better finish on titanium, stainless steel and stellite valves
- Mix ratio: 1:4 Won't hinder your regular valve grinding process
- · Seeks out, and bonds to hot metals
- · Ideal for grinding hard metal racing valves • 32 oz. / 946 mL
- Order No. VGA-T32



75400

40352

Severe Duty Mineral Based Valve Refacer Oil For Titanium, Inconel®, Stainless Steel & Stellite

- Mineral Based
- Includes additives to improve cutting performance under high pressure

Size	Order No.
1 gallon / 3.79 L	VGO-SD10
5 gallons / 18.93 L	VGO-SD50

Iron-Clad Guarantee

full service
"In addition to the wide selection of tools and supplies found in this catalog, we have access to hundreds more hard-to-find tools. If you're looking for a special tool, call us and we'll help you find it."

- Cheryl, Goodson Inventory Control, I years of service



Replacement Belts
For Kwik-Way Valve Refacers

•	or remine tray varior	10.400.0	
	Application	Machine	Order No.
1	Spindle Belt 14.5" L "O" Ring - 1 Pr.	SVS II	000-2303-62
2	Chuck Belt 10" Cog, 50 tooth	SVS II	001-1899-90
3	Spindle Belt 18" Serpentine	SVS	001-1905-20
4	Chuck Belt 12" Cog, 60 tooth	SVS or VS	001-1899-99
5	Spindle Belt 16" V-Belt	VS	001-1900-67
6	Chuck Belt 19" 120 tooth	VS	001-1900-75

Replacement Chuck Balls For Kwik-Way Valve Refacers

 Measure chuck ball diameter before ordering to ensure correct replacement
 6 per set

•	•	
Diameter		Order No.
1/2"		010-2101-27
17/32"		010-2101-35



enlarged to show detail





Replacement Bearing Cap for Sioux™ 1710 Electric Driver

• Order No. SX-23694



- Carbon brushes for armature
- Measure ³/₈" x ¹/₂"
- Order No. SX-18004



Replacement Switch for Sioux™ 1710 Electric Driver With Plastic Handle

- 125/250 VAC or 125VDC
- 2 Pole Measures 1.87"L x 0.875"W x 1.07"H
- Order No. SX-18204



Replacement Bearing Cap for Sioux™ 1792 Pneumatic Driver

• Order No. SX-33970



- Collet is unavailable from OE

◆ Replace with two-piece set

Collet for Black & Decker™ Valve Refacers

- Two-piece set replaces the Black & Decker Twin Grip collet (no longer available)
- Remove the damaged, worn or broken collet and replace with this set
- Accommodates 1/4" (6.35mm) to 3/8" (9.53mm) valve stems
- Order No. BVR-38







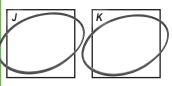






















Replacement Parts for Sioux™ Valve Refacers

	Description	Fits Model No.	Order No.
A-	Chuck Balls (3 pc.)	680, 2075	24185
B-	Chuck Springs (9 Pc.)	680, 2075	SX-53615
C-	Cog Style 24"x½" 120 teeth	680	SX-14467
D-	Serpentine 29% "x½" 5 grooves	680	SX-14471
E-	Spindle Belt 28% "x½" 5 groove	2075	SX-65117
F-	Chuck Belt 23%"x%", 115 teeth	2075	SX-14473
G-	Replacement Belt for Grinding Head	645	SX-14400
	Fits Serial #s up to 34999 (2 belts)		
H-	Chuck Belt Fits Serial #s 34999 & up		SX-14401
	(also coolant pump belt for #s 35217	& up).	
J-	Belt for Motor Shaft; Fits Serial #s up	to 34999 645	SX-14402
K-	Coolant Pump Belt; Fits Serial #s 349	999-35216 645	SX-14403
L-	Belt for Motor Shaft; Fits Serial #s 35	000 & up 645	SX-14445
M-	Replacement Belt for Grinding Head;	645	SX-14453
	Fits Serial #s 35000-58700		
N-	Replacement Belt for Grinding Head;	645	SX-14461
	Fits Serial #s 58701 & up		
0-	Replacement Switch (1100V, AC)	2001, 2075	SX-18221

Replacement V-Belts for Sunnen® VGS-20 Seat & Guide Machine

- Poly V-Belts
- Milled construction
- Shippable worldwide

Application	Length	Replaces OE#	Order No.
Drive	22"	PDB-310A/ST-467X	VGS-20-22
Countershaft	30"	PDB-309A/ST-467W	VGS-20-30





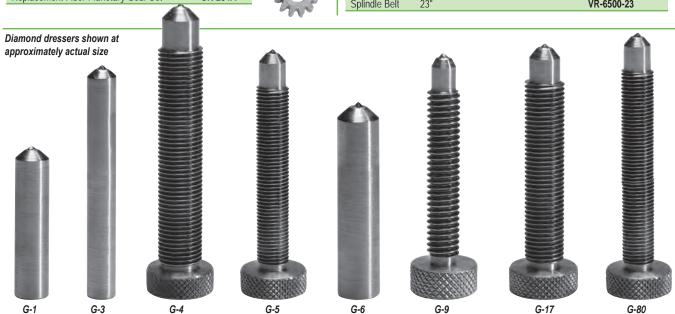
Valve Refacer Steady Rest Shoes for Sunnen® VR-7000 & VR-8000

- · Sold by the pair
- Order No SUN-1202A

Sunnen VR-6500 Valve Refacer Replacement Belts

- 2 sizes available
- Shippable worldwide

Oppa.o.oaa.o			
Belt Type	Length	OE Number	Order No.
Drive Belt	11"	PDB-305A	VR-6500-11
Jack Shaft Belt	17"	PDB-306A	VR-6500-17
Splindle Belt	23"		VR-6500-23



Diamond Dresser Tools for Common Valve Refacers

• Select from Standard or Premium Grade • See the complete assortment of diamond dresser tools on pages 114 and 115.

	Machine	Description	Carat	Standard	Premium
Valve Refacers	B&D, Skil, Sioux™, Thor, VanDorn, WVN	3⁄8" x 15⁄8"	1/5	G-1	G-1P
	Kwik-Way, Tobin Arp (S&D)	5/16" x 21/2"	1/5	G-3	
	Kwik-Way, Valve Master (1714)	1/2" x 31/4" 20NF	1/5	G-4	
	Sioux™ (1713, 1715), IDL, WVN (CG50, CG80)	3/8" x 23/4" 24NF	1/5	G-5	G-5P
	IDL, WVN (CG50, CG80)	3/8" x 31/4" 24NF	1/5	G-80	
	US	7∕16" x 2"	1/5	G-6	
	Skil (Talent)	5/16" x 21/4" 18NC	1/5	G-9	
	Kwik-Way	7/16" x 23/4" 20NF	1/5	G-17	G-17P



other important information for you."

High Speed Steel Core Drill/

Reamers are

Steam-Oxide

Lubricity

Coating for Chip

62 to 64 Rc

Craig, Goodson Receiving - 8 years of service

For best results, limit speed to 175 RPM

High Speed Steel Core Drill/Reamers

• Save time - drill and ream in a single pass

• Top-quality, high speed steel

• Prepares the guide bore for standard OD valve guide inserts

· Several shank designs to fit most Seat & Guide machines

For best results limit speed to 175 RPM

• For best results little speed to 175 KFW				
Fits	Size	mm	Order No.	
Peterson and K.I.	.375" x .500"	9.5x12.7	CDR-6197G	
½" round shank				
Serdi	.275" x .437"	7.0x11.1	CDR-7192G	
3/8" with flat	.275" x .500"	7.0x12.7	CDR-7193G	
	.312" x .437"	7.9x11.1	CDR-7194G	
	.312" x .500"	7.9x12.7	CDR-7195G	
	.343" x .500"	8.7x12.7	CDR-7196G	
	.375" x .500"	9.5x12.7	CDR-7197G	
Cobalt Core Drills/	Size	mm	Order No.	
Reamers	.275" x .437"	7.00x11.1	CDR-274-CB	
½" round shank	.275" x .500"	7.00x12.7	CDR-275-CB	
	.311" x .5628"	7.90x14.3	CDR-563-CB	
	.312" x .500"	7.92x12.7	CDR-312-CB	
	.343" x .500"	8.71x12.7	CDR-343-CB	
	.373" x .625"	9.47x16.5	CDR-625-CB	
	.375" x .500"	9.53x12.7	CDR-375-CB	



I make suve all Goodson products ave packaged properly and include instructions and

Valve Guide Tooling For 5.9 L, 24 Valve, 7mm Cummins

- To replace integral guides used in this diesel cylinder head
- Replacement guides are .502/.511" stepped to use with OE or replacement seals below

Complete Kit CVG-KIT ▼ Tooling Kit Only CVG-59KIT ▼ A Core Reamer (.426" pilot, .485" shank) CCR-59 1 1 B Core Drill (7mm pilot, .429" shank) CCD-59 1 1	Description	Order No. Incl	udoc
Tooling Kit OnlyCVG-59KIT▼A Core Reamer (.426" pilot, .485" shank)CCR-5911B Core Drill (7mm pilot, .429" shank)CCD-5911	•		uues
A Core Reamer (.426" pilot, .485" shank) CCR-59 1 1 B Core Drill (7mm pilot, .429" shank) CCD-59 1 1	Complete Kit	CVG-KIT	▼
B Core Drill (7mm pilot, .429" shank) CCD-59 1 1	Tooling Kit Only	CVG-59KIT	▼
	A Core Reamer (.426" pilot, .485" shank)	CCR-59	1 1
	B Core Drill (7mm pilot, .429" shank)	CCD-59	1 1
C Guide Driver (7.0mm) PHL-2235-G 1 1	C Guide Driver (7.0mm)	PHL-2235-G	1 1
D Cast Iron Valve Guide (Exhaust) CIG-3022 12	D Cast Iron Valve Guide (Exhaust)	CIG-3022	12
E Cast Iron Valve Guide (Intake) CIG-3021	E Cast Iron Valve Guide (Intake)	CIG-3021	12
F Exhaust Seals (12 pk.) CVS-59E	F Exhaust Seals (12 pk.)	CVS-59E	1
G Intake Seals (12 pk.) CVS-59i	G Intake Seals (12 pk.)	CVS-59i	1



This application requires you to perform all machining and guide installation from the



Piloted Core Drills and Reamers

- CNC-machined to .0003" T.I.R. or less
- Ideal for any Bridgeport-type (collet driven) machine
- Use dry at 175 to 225 RPM

Piloted Core Drills

- · Center accurately in the guide
- Cutting angle prevents the bit from wandering due to irregular guide wear
- Flutes are designed to enlarge bores quickly

Precision Reamers

- Pilot size is carefully matched to the OD of the related core drill
- Assures accurate location of the reamer for smooth, vibration free operation
- Gives proper interference fit to match manufacturer specifications

available Find out more about Piloted Core Drills & Reamers. Scan the code at right with your smart	
phone or other smart device for instant access	

Steel Core Drill/ Reamers are 65 to 67 Rc Bronze-Oxide Coating for

High Speed

Chip Lubricity

Core Drills						Core Reamers	
	OD	Pilot	OE No.	Order No.	OD	OE No.	Order No.
DCM Tech,	.4687"	.312"	DP-1550	DPP-1511B	.500"	66-02147, RR-115	DRR-115
Peterson / K.I.							
½" Round							
Sunnen® /	.490"	.312"	VGS-156A	DTA-2082B	.500"	VGS-162A	DRT-2097
Tobin-Arp	.490"	.343"	VGS-152A	DTA-2082	.500"	VGS-162A	DRT-2097
½" with Flat	.490"	.371"	VGS-153A	DTA-2083	.500"	VGS-162A	DRT-2097
Universal	.429"	7mm	sized for	CCD-59	.4365"	Use for Ford 6.0L Diesel	FCR-60-1
.429" Round	.429"	7mm	diesel	CCD-59	.4375"	Use for Ford 6.0L Diesel	FCR-60
Shank	.429"	7mm		CCD-59	.4995"	Use for 24V Cummins	CCR-59
	Use Co	re Drill/	Reamers (CDR) in chart above f	or sizing	.562"	.500" pilot	CCR-562B
	.541"	8mm		CCD-550	.550"	Use for 12V, 5.9 Cummins	CCR-550

Note: For the best performance, Core Drills and Reamers should be used in matched pairs. If you order a drill slightly smaller or larger than the OE specification to fit your machine, please order the matching reamer listed immediately to the right of the drill in the table.

Bronze Reaming Oil

 Prevents build-up • Extends reamer life • Improves valve guide finish

me imprevee	vaive galae illiloit
Size	Order No.
1 Pint / 473.2mL	\$1.99 BW-303-G
1 Quart / 946.4mL	18.99 BW-303A-G
1 Gallon / 1.893L	41.99 BW-305-G



For best results always use Carbide Reamers with Bronze Reaming Oil (BW-303A-G)

Extended non-cutting pilot section for easier alignment with the guide

Pilot portion of reamer features 4 flutes to deliver more cutting oil to the work piece

Solid Carbide

Valve Guide Reamers

Specifically Designed

For Use Only With Bronze Guides

- Reamer body features 8 flutes to cut bronze valve guides quickly, accurately and repeatably
- Unique 8-flute body design with 4-flute pilot for longer tool life
- New cutting geometry requires less torque to drive the reamer
- More rigid tool construction
- Faster feeds than conventional design
- Non-cutting pilot allows easier alignment with guide
- Simply the best bronze valve guide reamer we've created!
- Use at 300 to 400 RPM OAL: 6.00" (nominal)
- Pilot measures approximately .005" smaller than cutting diameter

Inch	mm	Ord	ler No.				
.1771"	4.50	HG	R-4.5MM*				
.1968"	5.00	HG	R-5.0MM*				
.2165"	5.50	HG	R-5.5MM*				
.2362"	6.00	HG	R-6MM				
.2750"	7.00	HG	R-7MM				
.2766"	7.03	HG	R-2766				
.2770"	7.04	HG	R-2770				
.3110"	7.90	239.99 HG	R-3110				
*Pilot, Flu	*Pilot, Flute & Shank Dimensions slightly						
smaller;	smaller; call for specific details						

Inch	mm		Order No.
.3115"	7.91	239.99	HGR-3115
.3120"	7.92	239.99	HGR-3120
.3141"	7.98		HGR-3140
.3150"	8.00		HGR-8MM
.3410"	8.66		HGR-3410
.3420"	8.69		HGR-3420
.3425"	8.70		HGR-3425
.3430"	8.71		HGR-3430
.3435"	8.72		HGR-3435
.3440"	8.74		HGR-3440



Small Reamers for Cast Iron or Bronze

- Premium quality reamers with tough cobalt flutes for long life in cast iron or bronze
 Square drive shank
- Use at 200 to 300 RPM
- OAL is 4.50" (nominally)

Inch	mm	Shank Dia.	Drive Dia.	Order No.
.1575"	4.00	.152"	.112"	MR-4MM
.1771"	4.50	.173"	.112"	MR-4.5MM
.1968"	5.00	.187"	.138"	MR-5.0MM
.1980"	5.03	.187"	.136"	MR-198
.2165"	5.50	.206"	.162"	MR-5.5MM
.2360"	6.00	.224"	.160"	MR-6.0MM
.2755"	7.00	.246"	.182"	MR-7.0MM

High Speed Finish Reamers Exclusively for Cast Iron

Precision size cast iron guides. Piloted and made from the finest tempered steel. With proper care, these reamers will accurately size multiple guides without losing their efficient cutting action. **NOT for hardened or bronze guides.** Use at 400 to 500 RPM. Pilot area measures .012" smaller than cutting diameter.

Inch	mm	Order No.
		3/16" Square Drive
.2165"	5.50	WR-5.5MM-G
.217"	5.51	WR-217-G
.218"	5.54	WR-218-G
.236"	6.00	WR-6MM-G
.250"	6.35	WR-250-G
.256"	6.50	WR-6.5MM-G
.260"	6.60	WR-260-G
.273"	6.93	WR-273-G
.274"	6.96	WR-274-G
.275"	6.99	WR-275-G
.2755"	7.00	WR-7MM-G
.276"	7.01	WR-276-G
.277"	7.03	WR-277-G
.278"	7.06	WR-278-G
.281"	7.14	WR-281-G



For best results, use high speed steel finish reamers exclusively on cast iron. Ream without oil.

Inch	mm	Order No.	Inch	mm	Order No.
		1/4" Square Drive			1/4" Square Drive
.310"	7.87	WR-310-G	.372"	9.45	WR-372-G
.311"	7.90	WR-311-G	.373"	9.47	WR-373-G
.312"	7.92	WR-312-G	.374"	9.50	WR-374-G
.313"	7.95	WR-313-G	.375"	9.52	WR-375-G
.314"	7.98	WR-314-G	.376"	9.55	WR-376-G
.315"	8.00	WR-8MM-G	.377"	9.58	WR-377-G
.316"	8.03	WR-316-G	.378"	9.60	WR-378-G
.317"	8.05	WR-317-G	.379"	9.63	WR-379-G
.341"	8.66	WR-341-G	.380"	9.65	WR-380-G
.342"	8.69	WR-342-G	.386"	9.80	WR-386-G
.343"	8.71	WR-343-G	.394"	10.00	WR-10MM-G
.3435"	8.72	WR-3435-G	.395"	10.03	WR-395-G
.344"	8.74	WR-344-G	.405"	10.29	WR-405-G
.345"	8.76	WR-345-G	.433"	11.00	WR-11MM-G
.346"	8.79	WR-346-G	.436"	11.07	WR-436-G
.354"	9.00	WR-9MM-G	.437"	11.10	WR-437-G
.355"	9.02	WR-355-G	.453"	11.51	WR-453-G
.356"	9.04	WR-356-G	.472"	12.00	WR-12MM-G
.358"	9.09	WR-358-G	.499"	12.67	WR-499-G
			.500"	12.70	WR-500-G
			Caama	07 (Dulya Adamtana

See page 37 for Drive Adaptors

No Minimum Order 31

TOOLS & SUPPLIES

1.750"

2.365"

1.935"

BRAKE SERVICE
TOOLING

... another

"I have been using the Goodson Hyper-Finish Diamond Valve Guide Hone for years. It makes quick and easy work for valve guide sizing. It will not load up, keeps the guide straight and true and gives great results every time. Best money I've spent on a tool."

- Wes Brown, Cycle-Rama, Inc., Pinellas Park, Florida, Goodson customer since 1999



manufactured tooling now has greater accuracy, more durability and better quality. Mandrels are made of black anodized hard plated steel. Not for use on Aluminum Heads.

With this easy-to-use system you can size guides from .193" to .389" (5.00 to 9.90mm) just by switching out mandrels. Mandrels also sold individually. The Drive Head (HF-100) fits every size mandrel assembly shown in the chart below, features a Quick Change set-up and now has an extended reach for more flexibility. Hyper-Finish Tooling is NOT interchangeable with the Sunnen® Valve Guide Hone Set (p. 34). Use at 200 RPMs max.

Size	Range		Mandrel Assembly	Abrasive	Replacement	Replacement	Drive	Guide
	inch	mm	(abrasive & mandrel)	Length	Abrasive	Mandrel	Head	Brush
5.0mm	.193"203"	4.90 - 5.15mm	BHFM-193C	40mm	BHFS-010	BHFM-193	HF-100	GVP-9N
5.5mm	.212"232"	5.40 - 5.90mm	BHFM-212C	40mm	BHFS-020	BHFM-212	HF-100	GVP-10N
6.0mm	.232"253"	5.90 - 6.40mm	BHFM-232C	40mm	BHFS-020	BHFM-232	HF-100	GVP-10N
6.5mm	.251"271"	6.40 - 6.90mm	BHFM-251C	40mm	BHFS-020	BHFM-251	HF-100	GVP-11N
7.0mm	.271"311"	6.90 - 7.90mm	BHFM-271C	80mm	BHFS-040*	BHFM-271	HF-100	GVP-11N
.312"	.311"350"	7.90 - 8.90mm	BHFM-307C	80mm	BHFS-050*	BHFM-307	HF-100	GVP-1N
.343"	.334"374"	8.50 - 9.50mm	BHFM-344C	80mm	BHFS-050*	BHFM-344	HF-100	GVP-2N
.375"	.350"389"	8.90 - 9.90mm	BHFM-350C	80mm	BHFS-050*	BHFM-350	HF-100	GVP-3N

*Only these replacement abrasives will fit old style mandrels

Choose from the Standard Master Kit or Build Your Own!

Standard Master Kit includes: Driver Head, 4-Mandrel Assemblies (see chart above), 4-Nylon Valve Guide Brushes (7mm to 3/8") and 8 oz. Diamond Honing Oil.

Order No. BHF-KIT

Custom Kit includes: Driver Head, 4-Mandrel Assemblies (select from chart above), 4-Nylon Valve Guide Brushes (you pick the sizes - see chart above) and 8 oz. Diamond Honing Oil.

Order No. BHF-KIT-CUSTOM



hardened guides.

abrasive assembly

is quality checked

to ensure it is true

and on size.

Included in Master Kit

Every mandrel-

1/2" diameter holes (18) and

1" diameter holes (2) drilled in the top plate provide ample

DHO-50

tool storage

Adjustable hose lets you direct coolant right where you need it

5"

Perforated steel grate lets oil through and can be removed for cleaning

Rolled front edge directs splashed. coolant back into the sump



This Goodson designed valve guide finishing station incorporates the features you requested such as:

- Large 5-gallon capacity coolant sump
- Integral high output pump 1/150 HP oil filled submersible pump, 115V 60 cycle, single phase heavy-duty motor
- Aluminum construction for durability and easy cleaning
- Perforated steel grate allowing used coolant through to recirculate
- · Removable steel grate for easy maintenance

3/16" diameter shank • • •

 Built-in, easy-to-reach storage for tools Buy the complete kit and save!

30"	16"	
Description	Order No.	Incl.
Complete 110V Valve Guide Finishing Station Kit	HF-1000KIT	•
Honing Station Only - 110V	HF-1000	х
Universal Head Holders	HH-200	Х
Pump 110V	HF-PUMP	х

Export voltage available, contact Goodson for additional information

Carbide or High Speed Steel **Valve Guide Top Cutters**

• Matches Seat & Guide machine pilots

Descripti	on		Shank	Order No.	
Cutters	11/16"	High-Speed Steel	.500"		GFH-100
	11/16" Carbide			185.99	GFC-200
11/8" High-Speed Steel			.486"	161.99	GFH-300
3/16" (.187	'5")	.312" (7.93mm)		20.99	GFP-312
Shank Pi	lots	.343" (8.73mm)	20.99	20.99	GFP-343
		.375" (9.53mm)		20.99	GFP-375
		.437" (11.11mm)		20.99	GFP-437
		.500" (12.70mm)		20.99	GFP-500



- For high pressure honing
- Recommended for use with Black Diamond





Cutter

5 Gallons Diamond Honing Oil

Valve Guide OD Chamfer Tool

- · Improve oil deflection
- Universal cutter chamfers any OD from 1/4" to 5/8" (6.35-15.9mm)
- · Most precise when used in a Seat and Guide Machine
- Order No. GCT-35



Valve Guide Top Collar

- · Supports guide top during machining
- Protects against damage or breakage
- · Ideal for high-performance work, and for installing thin-wall liners (pages 38-39)

Size	Range	Order No.
.500"	.496"504"	VGC-502
.530"	.526"534"	VGC-530
.566"	.562"570"	VGC-566









We take our job of getting your order to you quickly very seriously. We use several different carriers allowing us to get your products to you when you need them at a price you can afford."

Becky, Goodson Shipping Supervisor, 9 years of service





Wedge (included with

Order 3 or more Flex-Hones®.

Save 10% off Jobber

Mandrel)

Mandrel

Valve Guide Hone Set

- Sets-up fast Easy to use!
- Produces straight, round holes for top-quality work
- Ideal for high-performance applications
- Use a low RPM, 1/2" drill for driving power (200 RPM max.)
- Silicon-Carbide Roughing & Finishing Stones
- Sunnen® tooling is NOT interchangable with Goodson Hyper-Finish (page 32)

Order No. Sunnen Honall® Valve Guide Hone Set P-190

Includes: Head & Driver. Mandrels & Sleeves (1 of ea. for sizes - 5/16", 11/32", 3/8", & 7/16") Adaptors: (1) PK10-A & (1) PK12-A. Stones L10-J69 & L12-J67. Case & instructions

Sunnen Honall® Valve Guide Hone Head & Driver only

from the techxperts

P-180 Ordering Information: The head and driver are interchangeable with the adaptors. Only one head and driver is required. Mandrels are available to cover all popular sizes. Please select from the parts in the photo above and order per size range desired. We suggest you have an adaptor for each mandrel to save change-over time between sizes.

BL Mandrels (Order Mandrel, Sleeve, Stones, Adaptor & Stone Retainer Separately)

	Range	Mandrel	Sleeve	Roughing Stones	Finishing Stones	Adaptor	Stone Retainer
Size	Inch mm	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
5mm	.195"200" 4.9-5.1	BL6-195CS	S-195	L6-J47 (12)	L6-J67 (12)	PSK6-A ‡	LN-3087C
5.5mm	.210"215" 5.3-5.5	BL6-210CS	S-210	L6-J47 (12)	L6-J67 (12)	PSK6-A ‡	LN-3087C
	.215"220" 5.5-5.6	BL6-215CS	S-215	L6-J47 (12)	L6-J67 (12)	PSK6-A ‡	LN-3087C
	.225"230" 5.7-5.8	BL6-225CS	S-225	L6-J47 (12)	L6-J67 (12)	PSK6-A ‡	LN-3087C
6mm	.230"235" 5.8-6.0	BL6-230CS	S-230	L6-J47 (12)	L6-J67 (12)	PSK6-A ‡	LN-3087C
	.235"240" 6.0-6.1	BL6-235CS	S-235	L6-J47 (12)	L6-J67 (12)	PSK6-A ‡	LN-3087C
1/4"	.245"250" 6.2-6.4	BL8-245AS	S-245	L8-J47 (6)	L8-J67 (6)	PK8-A	
	.250"255" 6.4-6.5	BL8-250AS	S-250	L8-J47 (6)	L8-J67 (6)	PK8-A	
6.6mm	.255"260" 6.5-6.6	BL8-255AS	S-255	L8-J47 (6)	L8-J67 (6)	PK8-A	
7mm	.270"275" 6.8-7.0	BL8-270AS	S-270	L8-J47 (6)	L8-J67 (6)	PK8-A	
	.275"280" 7.0-7.1	BL8-275AS	S-275	L8-J47 (6)	L8-J67 (6)	PK8-A	
5/16" ♦	.308"316" 7.8-8.0	BL10-308AS	S-308	L10-J47 (6)	L10-J69 (6)	PK10-A	
11/32" ♦	.339"347" 8.6-8.8	BL10-339AS	S-339	L10-J47 (6)	L10-J69 (6)	PK10-A	
23/64"	.354"362" 9.0-9.2	BL10-354AS	S-354	L10-J47 (6)	L10-J69 (6)	PK10-A	
3/8" ♦	.370"385" 9.4-9.8	BL12-370AS	S-370	L12-J47 (6)	L12-J67 (6)	PK12-A	
⁷ ∕16" ♦	.432"447" 11.0-11.4	BL12-432AS	S-432	L12-J47 (6)	L12-J67 (6)	PK12-A	

◆ Included in set Order No. P-190 ‡NOTE: Remove the stone retainer included with the PSK6-A and replace with LN-3087C for valve guide honing



Minnesota Fast Freeze

- Instantly chills seats & guides to -50°F (-45.5°C) • Creates interference fit with heated aluminum heads • Finish seat and guide work faster than ever • Aerosol*
- Use on tight bushings, pins, shafts, etc.
- 10 oz. can

Description Order No. Minnesota Fast Freeze MFF-8 Order 6 or more to Save 10% off Jobber

*Hazardous Goods Fees Apply When Shipped by Air



6 Piece Valve Guide Flex-Hone® Set

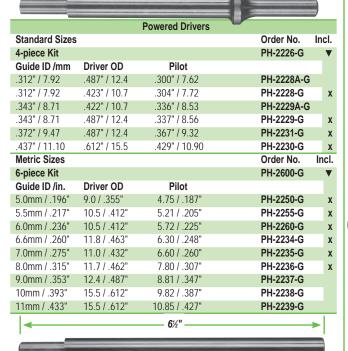
• Kit includes the most popular sizes for valve guide work • 240 Grit Silicon-Carbide

6 Pc. Valve Guide Kit VGF-KIT Size mm OAL	•
½" 6.4 8" VGF-6.4MM	X
%2" 7.0 8" VGF-7MM	X
5/16" 8.0 8" VGF-8MM	X
¹ / ₃₂ " 9.0 8" VGF-9MM	X
%" 10.0 8" VGF-10MM	X
// ₆ " 11.0 8" VGF-11MM	X

More Valve Guide Flex-Hones® on page 83

• Corrosion-resistant finish 1º negative angle prevents guides from spreading • Rockwell hardness of 45-50

· Pilots are slightly smaller than guide ID for easy removal



		Manual Drivers		
Standard Sizes			Order No.	Incl.
4-piece Kit			GP-500A-G	•
Guide ID /mm	Driver OD	Pilot		
.312" / 7.92	.422" / 10.7	.305" / 7.75	GP-431-G	Х
.312" / 7.92	.487" / 12.4	.302" / 7.67	GP-531-G	Х
.343" / 8.71	.422" / 10.7	.336" / 8.53	GP-533-G	
.343" / 8.71	.487" / 12.4	.336" / 8.53	GP-534-G	Х
.372" / 9.47	.487" / 12.4	.367" / 9.32	GP-537-G	Х
.437" / 11.10	.611" / 15.5	.428" / 10.87	GP-743-G	
Metric Sizes			Order No.	Incl.
6-piece Kit			GP-600M-G	•
Guide ID /in.	Driver OD	Pilot		
6.6mm / .260"	11.7 / .462"	6.22 / .245"	GP-6.6MM-G	Х
7mm / .275"	10.7 / .422"	6.78 / .267"	GP-7MM-G	Х
8mm / .315"	12.3 / .484"	7.77 / .306"	GP-8MM-G	Х
9mm / .353"	12.3 / .484"	8.84 / .348"	GP-9MM-G	х
10mm / .393"	15.5 / .611"	9.82 / .387"	GP-10MM-G	Х
11mm / .433"	15.5 / .611"	10.82 / .426"	GP-11MM-G	х



- per minute
- Weighs 3 lbs

401"	tool	opening

Description	Order No.
Air Hammer	AH-335
Replacement	
Retainer Spring	AH-5RS

Universal **Driver Tool**

- Will fit Diesel Guide Drivers at right to increase your reach
- 4.75" OAL
- .401" ID
- Order No. CL-7333

Extra-Long Powered Valve Guide Drivers

- · For use with overhead cam heads
- 1º negative angle to prevent guide mushrooming
- Pilots are slightly smaller than guide ID 7.5" long

Guide ID / in.	Driver OD	Pilot	Order No.
4.0mm / .157"	9.0 / .355"	3.80 / .150"	PHL-2240-G
4.5mm / .177"	9.0 / .355"	4.30 / .170"	PHL-2245-G
5.0mm / .196"	9.0 / .355"	4.75 / .187"	PHL-2250-G
5.5mm / .217"	10.5 / .412"	5.21 / .205"	PHL-2255-G
6.0mm / .236"	9.1 / .358"	5.72 / .225"	PHL-2258-G
6.0mm / .236"	10.5 / .412"	5.72 / .225"	PHL-2260-G
6.6mm / .260"	11.8 / .463"	6.29 / .248"	PHL-2234-G
7.0mm / .275"	11.0 / .432"	6.60 / .260"	PHL-2235-G
7.9mm / .312"	10.7 / .423"	7.72 / .304"	PHL-2228-G
8.0mm / .315"	11.7 / .462"	7.80 / .307"	PHL-2236-G
8.7mm / .343"	12.4 / .487"	8.56 / .337"	PHL-2229-G
9.5mm / .375"	12.4 / .487"	9.32 / .367"	PHL-2231-G

Extra Long Manual Valve Guide Drivers

• 8" OAL • Pilot approximately 1" long

NOTE: Due to the nature of these valve guide drivers, they cannot be warranted against breakage, but are guaranteed for dimensional accuracy.

Guide ID / in.	Driver OD	Pilot	Order No.
4.0mm / .157"	9.0 / .355"	3.80 / .150"	GPL-2240-G
4.5mm / .177"	9.0 / .355"	4.30 / .170"	GPL-2245-G
5.0mm / .196"	9.0 / .355	4.75 / .187"	GPL-2250-G
5.5mm / .217"	10.5 / .412"	5.21 / .205"	GPL-2255-G
6.0mm / .230"	9.1 / .358"	5.72 / .225"	GPL-2258-G
6.0mm / .236"	10.5 / .412"	5.72 / .225"	GPL-2260-G



- · Drive guides in from the shoulder instead of from the top
- Installing drivers have the proper recess to drive guides in for the correct installed height
- Remove / Install guides faster no measuring necessary
- · For most standard pneumatic tools

	Installer	Order No.	Remover	Order No.
Application	Major/ Coun	ter Bore ID	Shank/Pilot	OD
Cummins	.752" / .503"	DVG-Ci	.595" / .450"	DVG-CR
Cummins 8.3. 6CT	.552" /	DVG-8.3	.491" / .304"	DVG-71R
Caterpillar 3116	.515" / .475"	DVG-3116	.491" / .304"	DVG-71R
Caterpillar 3126	.633" / .506"	DVG-3126	.595" / .354"	DVG-3468R
Detroit GMC 53	.502" / .421"	DVG-53i	.491" / .246"	DVG-53R
Detroit GMC 71/92			.491" / .304"	DVG-71R
International DT 466			.595" / .354"	DVG-3468R

Counterbore — ID Major

CYLINDER HEAD

Iron-Clad Guarantee





Install guides to same height every time!

Locking Nut (AVG-2) and installation sleeve have flats for positive lock and release adjustment. Adjustable installation sleeve Driver Body (AVG-1) (AVG-3) adjusts from 0" to 11/4" guide height and fits guides to .700" OD.

Adjustable Powered Valve **Guide Driver With** Replaceable Pilots

- 4140 CRS heat treated to 40-45 Rc
- · Standardize the correct installed height on one guide then repeat it on all others
- Screw-in pilots with 5/16" 18 threads 61/2" overall length

Description	Order No.	Includ	les	
Standard Valve Guid	AVG-STD		•	
Metric Valve Guide D	Priver Kit	AVG-MM	•	
Pneumatic Body Only	/ 5/8"-18 thread	AVG-1	Х	X
Installation Sleeve		AVG-3	Х	X
Locking Nut		AVG-2	Х	X
Replaceable	Diameter			
Pilots 🔀	.312"	AVG-312		X
	.343"	AVG-343		X
	.372"	AVG-372		X
	.437"	AVG-437		X
	5.0mm	AVG-5MM	Х	
Use thread	5.5mm	AVG-55MM		
locker on pilot to	6.0mm	AVG-6MM	Х	
resist loosening	7.0mm	AVG-7MM	Х	
while in use.	8.0mm	AVG-8MM	Х	
	9.0mm	AVG-9MM		



Watch for the Made In America symbol throughout the catalog

This symbol indicates products manufactured within the United States. We are proud to feature products made by US manufacturers, including many right in our own back yard of Winona, Minnesota.

Valve Guide OD Machining Tool

"We work hard to have the right stock at the right price at the right time

Nancy, Goodson Inventory Fulfillment Manager, 28 years of service

so you get your orders on time."

- Faces the guide top to the correct size
- · Sizes the guide OD for press-on seals
- · Chamfers the top to prevent seal damage
- Cutters & pilots are interchangeable and chuck into any drill press, portable drill or seat & guide machine

Individual Cutters							
Guide	Guide OD						
.415"	10.5	VSC-415					
.428"	10.8	VSC-428					
.475"	12.1	VSC-475					
.495"	12.6	VSC-495					
.500"	12.7	VSC-500					
.530"	13.5	VSC-530					
.562"	14.3	VSC-562					
.625"	15.9	VSC-625					

Pilots						
Guide	ID	Order No.				
.275"	7.0	VP-7MM				
.312"	7.9	VP-312				
.343"	8.7	VP-343				
.375"	9.5	VP-375				

Cutter	Cutter and Pilot Assemblies						
Guide	OD	Pilot S	Size	Order No.			
.415"	10.5	.312"	7.9	VSC-415312			
.420"	10.7	.312"	7.9	VSC-420312			
.428"	10.9	.312"	7.9	VSC-428312			
.475"	12.1	.312"	7.9	VSC-475312			
.475"	12.1	.343"	8.7	VSC-475343			
.500"	12.7	.275"	7.0	VSC-500275			
.500"	12.7	.312"	7.9	VSC-500312			
.500"	12.7	.343"	8.7	VSC-500343			
.500"	12.7	.375"	9.5	VSC-500375			
.530"	13.5	.312"	7.9	VSC-530312			
.530"	13.5	.343"	8.7	VSC-530343			
.530"	13.5	.375"	9.5	VSC-530375			
.562"	14.3	.343"	8.7	VSC-562343			
.562"	14.3	.375"	9.5	VSC-562375			
.625"	15.9	.375"	9.5	VSC-625375			



Right Hand Rotation Only.

For best results, keep your RPM about the same as your hone RPM, use the same rate of speed and number of strokes per minute.

Ultra-Finish Plateau Valve Guide Soft Hones

- Use AFTER guide honing to remove microscopic peaks and scuffs without enlarging the guide ID
- · Abrasive impregnated nylon bristles
- Use with liberal amounts of honing oil
- Not interchangeable with Flex-Hones®
- Use with your portable drill or seat and guide machine

	Hole Di	ameter	Hone	Head	Overall	
	in	mm	Dia.	Length	Length	Order No.
	.2187"	5.5	.241"	1.00"	4.00"	UF-5.5MM
l	.2500"	6.4	.275"	1.25"	4.50"	UF-6.4MM
	.2813"	7.0	.309"	1.25"	4.50"	UF-7MM
l	.3125"	8.0	.343"	1.25"	4.50"	UF-8MM
	.3437"	9.0	.378"	1.25"	4.50"	UF-9MM
	.3750"	10.0	.413"	1.25"	4.50"	UF-10MM

NOTE: Larger size Ultra-Finish hones on page 92

Use with Knurlube

Knurling Arbors

- · Piloted for positive centering
- Use by hand or with electric drill & speed reducer
- Not for use on chilled, hardened or bronze guides

Inch	mm	Order No.
.236"	6.00	WKA-6MM-G
.275"	7.00	WKA-7MM-G
.312"	7.92	WKA-312-G
.343"	8.71	WKA-343-G
.375"	9.53	WKA-375-G
1 Qua	rt Knurlube (946.6mL)	WLB-47-G

Electric Drill Drive Adaptors For Knurling Arbors and/or Reamers

Use WSR-41-3-G (1/4" sq.) and WSR-41-4-G (3/16" sq.) include the WSR-41-7-G (%" drill adaptor). Clamp %" drive in drill to drive reamers directly.

Description	Order No.
A Drill Adaptor for 3/8" drill	WSR-41-7-G
B ¼" Adaptor for arbors/reamers larger than .281"	WSR-41-3-G
C ¾6" Adaptor for arbors/reamers .281" or smaller	WSR-41-4-G
D Slip on Adaptor (converts WSR-41-3-G to .1875")	WSR-41-5-G

Knurlube

- High pressure lube prevents tool damage
- Extends knurler life by reducing friction and arbor

Size		Order No.
8 oz. / 236.6mL	\$12.49	WLB-46-G
32 oz. / 946 4ml	20.99	WLB-47-G

Bronze Reaming



· Extends reamer life

· Improves valve guide finish

GOODSON

BW-303A-G

Size		Order No.
16 oz. / 473.2mL	\$11.99	BW-303-G
32 oz. / 946.4mL	18.99	BW-303A-G
1 Gal. / 1.893L	41.99	BW-305-G



Valve Guide OD Knurling Tool

- Enlarge guides to fit bore
- · Ideal for rare metric sizes and aluminum heads with damaged guide bores
- · Works on most materials, except chilled or hardened guides

Description	Order No.	
Complete Tool	VGK-25	
Replacement Knurling Wheel	VGK-25W	
Replacement Knurling Rollers (2)	VGK-25R	



Hold guide firmly in Vise, Drill Press or Seat & Guide machine; tighten the knurler and turn it around the guide by hand. Increase OD up to .002"

The more guides you buy, the more you save

Buy 25 - 50 guides, save 10% off jobber. Buy 51+ guides, save 15% off jobber (mix & match sizes)

Harley valve guides on page 134

Cast Iron False Valve Guides

Unive	Universal Applications						
ID	OD	Leng	gth	Order No.			
.312"	.439"	2.28	1"	CIG-312			
.342"	.502"	3.06	2"	CIG-342			
.372"	.502"	2.75	0"	CIG-372			
.343"	.564"	2.75	0"	OG-343			
.373"	.564"	2.75	0"	OG-373			
24 Val	ve 7mm C	ummin	s Diesel (.	511" seal surface) see tooling, page 30			
	ID	OD	Length	Order No.			
Intake	.275"	.502"	1.940"	CIG-3021			

Exhaust	.275"	.502"	2.020"			CIG-3022
Ford 6.0L	. (.513'	' x .659	" seal sur	face) se	e tooling, page 30	
	.275"	.4395'	2.332"			CIG-3055
			0		000 5/0 00	0.0

7.3 Powerstroke Use with Core Drill Reamer CDR-563-CB, page .3146" .5652" 2.440"

Manganese Bronze False Valve Guides

Univer	Universal Applications					
ID	OD	Length	Order No.			
.311"	.439"	3.062"	BVG-311			
.343"	.502"	2.375"	BVG-343			
.372"	.502"	2.375"	BVG-372			

Cast Iron and Manganese Bronze Valve Guides for Harley-Davidson on page 134

Universal Repair Guides

- · Unfinished ID ready to be reamed with Goodson's exclusive carbide reamers (page 31)
- · Manganese bronze

ID	OD	Length	Order No.
7.0mm	.740"	2.700"	UVBG-7MM
.308"	.740"	2.700"	UVBG-308
.341"	.740"	2.700"	UVBG-341
.372"	.740"	2.700"	UVBG-372



Guides from your friends at Goodson

Goodson offers the complete line of QualCast Products for High Performance, Standard Duty and Heavy Duty vehicle engines. Visit the QualCast section of the Goodson website for listings.

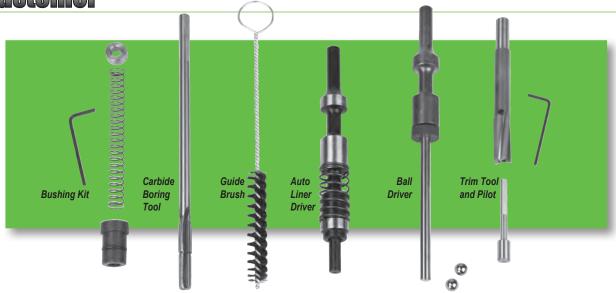
Scan the code below with your smart phone or other device for fast access to the QualCast Valve Guide listings on the Goodson website





"I have been using your products for over 30 years and have never had an issue. Your phone staff is friendly and helpful; my parts are packaged perfectly and the quality of your products is excellent. Keep up the good work."

– Brad Mattei, Mattei's Cycle Supply, New Orleans, LA, Goodson Customer Since 1990



6.0mm to 3/8" Bronze-Liner Installation Tool Kits

Phosphor-Bronze is an ideal valve guide material – it's more durable than cast iron, conducts heat away faster and retains lubrication better to reduce wear. Install rugged, thin-wall (.030") Bronze-Liners in cast iron or aluminum heads to repair guides and deliver performance better than new! Plus, Bronze-Liners install quickly with simple tools. If a Bronze-Liner ever wears out, you can quickly and easily replace it with a new one to restore performance. **Removal Tools, page 39.**

Kits include ▼	6.0mm Guide	s	7.0mm Guide	S	5/16" Guides	
Master Tool Kits		CL-6MM		CL-7MM		CL-312
Carbide Boring Tool		CL-2024C		CL-2007C		CL-2005C
Bushing Kit		CL-2003		CL-2001		CL-2000
Ball Driver		CL-4452P		CL-4446P		CL-4444P
Carbide Sizing	.2370"	CL-5237	.2770"	CL-5277	.3125"	CL-53125
Balls	.2380"	CL-5238	.2780"	CL-5278	.3130"	CL-5313
Auto-Driver		CL-3600		CL-3507		CL-3500
Trim Tool	.402" OD	CL-5602	.500" OD	CL-5600	.500" OD	CL-5600
Trim Tool Pilot		CL-5634		CL-5626		CL-5620
Guide Brush		GVP-10N		WCB-44		WCB-44

When Working By Hand, Kits Require Seat Centering Cones - See Chart Below

Kits include ▼	8.0mm Guides	11/32" Guides	3/8" Guides
Master Tool Kits	CL-8MM	CL-343	CL-375
Carbide Boring Tool	CL-2008C	CL-2012C	CL-2014C
Bushing Kit	CL-2000	CL-2000	CL-2000
Ball Driver	CL-4444P	CL-4444P	CL-4444P
Carbide Sizing	.3160" CL-5316	.3440" CL-5344	.3750" CL-5375
Balls	.3170" CL-5317	.3445" CL-53445	.3760" CL-5376
Auto-Driver	CL-3500	CL-3504	CL-3506
Trim Tool	.500" OD CL-5600	.500" OD CL-5600	.500" OD CL-5600
Trim Tool Pilot	CL-5620	CL-5622	CL-5624
Guide Brush	WCB-44	WCB-44	WCB-44



This is NOT a one-size-fits-all tool. If you have a cone that is too small for the seat it could slip through the opening. If you have one that's too large, the side of the combustion chamber could interfere or you won't have enough of the cone in the seat area for it to be stable and centered.

60° Seat Centering Cones

- · Center firmly in the valve seat
- Cones feature a .625" ID
- Steel construction
- Use the Seat Centering Cones with the Master Tool Kits (above) for proper alignment of the reamer and guide bore

Descripti	on	Order No.	
7 Piece K	it	CL-6500	_
Nominal	Range		
1"	0.970"-0.730"	CL-6310	Х
11/4"	1.230"-0.740"	CL-6308	X
1½"	1.475"-0.805"	CL-6306	X
13/4"	1.730"-0.860"	CL-6304	X
2"	1.950"-0.875"	CL-6302	X
21/4"	2.230"-1.000"	CL-6300	X
21/2"	2.550"-1.875"	CL-6312	X

Stripe helps you quickly

Rounded nose design

makes installation fast and easy

Dimples inside

promote

oil retention

identify the round nose end

CL-5870

Bronze-Liners & Tooling

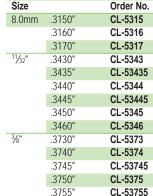
Buy 3 or more sizing balls (any combination) and save 10% off jobber

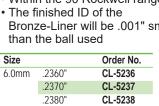
Carbide Sizing Balls

- Finished to .00008" roundness
- Within the 90 Rockwell range
- Bronze-Liner will be .001" smaller

Size		Order No.
6.0mm	.2360"	CL-5236
	.2370"	CL-5237
	.2380"	CL-5238
7.0mm	.2760"	CL-5276
	.2770"	CL-5277
	.2780"	CL-5278
5/16"	.3125"	CL-53125
	.3130"	CL-5313
	.3140"	CL-5314

Size		Order No.
8.0mm	.3150"	CL-5315
	.3160"	CL-5316
	.3170"	CL-5317
11/32"	.3430"	CL-5343
	.3435"	CL-53435
	.3440"	CL-5344
	.3445"	CL-53445
	.3450"	CL-5345
	.3460"	CL-5346
3/8"	.3730"	CL-5373
	.3740"	CL-5374
	.3745"	CL-53745
	.3750"	CL-5375
	.3755"	CL-53755
	.3760"	CL-5376





	.2770"	CL-5277
	.2780"	CL-5278
5/16"	.3125"	CL-53125
	.3130"	CL-5313
	.3140"	CL-5314



Always be sure to hold your hand under the cylinder head to catch the carbide ball as it comes out of the guide.

Removal Tool

Small Hole Gauge Set

replacement

Remove bronze liners without damaging the bore

	 _	
Description		Order No.
6.0mm		CL-7352
7.0mm		CL-7344
⁵ ⁄ ₁₆ "		CL-7310
8.0mm		CL-7320
11/32"		CL-7330
3/8"		CL-7340

• See if rebuilding or replacing is

 Check guide bosses for proper interference fit during

Check and maintain correct

stem-to-guide ID clearance

· 4-piece set has combined

range of .125" to .500"

With storage pouch

• Order No. SHG-4

needed by checking guide wear

Universal **Driver Tool**

- · Fits all removal tools at left and is designed to work with your air hammer
- .401" ID 4.75 OAL
- Order No. CL-7333

Phosphor-Bronze liners outlast original guides and are easy to replace

Thin-Wall .030" **Bronze-Liners**

- · Outlast original guides
- · Dimples promotes oil retention
- Rounded nose design makes installation quick and easy
- · Stripe helps you identify rounded end
- Phosphor-bronze



NOTE: 5.0 & 5.5mm Guides do NOT interchange with COMPETITION COMPETITORS' guides. You MUST use our tooling with

	Line	r Size	Box of 16	Box of 100
Guide Size	OD	Length	Order No.	Order No.
5.0mm	+.030"	2.00"	CL-500	CL-500A
5.5mm	+.030"	2.50"	CL-550	CL-550A
6.0mm	+.030"	2.50"	CL-600	CL-600A
7.0mm	+.030"	2.50"	CL-700	CL-700A
.312"	+.030"	2.50"	CL-1220	CL-1220A
8.0mm	+.030"	2.50"	CL-1420	CL-1420A
.343"	+.030"	3.00"	CL-1640	CL-1640A
.375"	+.030"	3.00"	CL-1830	CL-1830A
Oversize OD	Bronze I	_iners		
.343" +.002"	+.032"	2.50"	CL-1640-2	CL-1640-2A
.375" +.002"	+.032"	3.00"	CL-1820-2	CL-1820-2A
.375" +.004"	+.032"	3.00"	CL-1820-4	CL-1820-4A

Chamfer Tool & T-Wrench

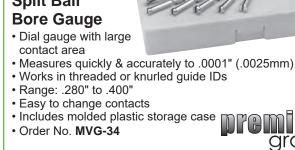
Use these optional accessories to remove any burrs that may be created when trimming the liner to length

Description	Order No.
Chamfer Tool	CL-5800
T-Wrench	CL-5870



Mitutoyo

Split Ball **Bore Gauge**



Secure Online Ordering 24/7 at www.goodson.com

full service

"If any of our products aren't satisfactory, we want you to send it back. We have a no hassle return policy. Just send it back, freight pre-paid within 30 days and we'll exchange it, fix it or credit your account for the amount of the purchase.

- Kayla, Goodson Customer Service, I year of service

Valve Seal Puller

- .810" tool dia.
- Fits Multi-Valve Engines
- · Lifts from the bottom of the seal
- Works within the confines of lifter bucket bores
- · Fingers grip seal for fast, easy removal
- · Works on most domestic and import vehicles
- · New and improved seal puller with stronger 3 jaw pulling action

Description	Order No.
Valve Seal Puller	VSP-323
Replacement Shaft	VSP-323-4
Replacement O-Ring	VSP-323-5
Replacement Jaw Set (3 Pc.)	VSP-323-3
Replacement Jaw Sleeve	VSP-323-1
Black Split Sleeve	VSP-323-2

Parts are interchangeable with VSP-320





Goodson now offers the full line of QualCast Products.

Whatever you're looking for, you can find it online at www.goodson.com!

- Valves
- Valve Guides
- · Valve Spring Inserts
- Valve Lifters
- Rocker Components
- Push Rods
- · And a whole lot more!
- Valve Seat Inserts
- Valve Springs
- · Valve Keepers (cotters, keys)
- Valve Stem Seals
- Injector Components
- Freeze Plugs

You'll find products for High Performance, Light Duty, Standard Duty and Heavy Duty.

Products ship directly from QualCast's Nashville location to your door. Visit the QualCast section on the Goodson website today or Call 1-800-533-8010.



- · Works on OHC and in-line engines with recessed springs
- · Long, serrated jaws reach into confined areas and grip seals firmly
- · Heat-treated steel with easy-grip handles
- Order No. VSP-823



sized for

Exhaust

Intake & Exhaust Valve Stem Seals for 24 Valve, 7mm **Cummins Diesel**



- Fit 7mm valve stems
- OD measures .511"
- Sold in packs of 12

•	
Application	Order No.
Intake	CVS-59i
Exhaust	CVS-59E

Intake

Calibrated Test Spring

- Check Spring Tester Accuracy
- · Highest-quality spring steel
- · Calibrated to show pressure at a specified compressed height (includes calibration certificate)
- Order No. VST-95



Height Indicator

- · Measure compressed spring height when testing pressure
- · Ideal for high performance and checking identical springs
- For Rimac® and other spring testers
- Height Scale displays inches and metric
- Includes Dial Indicator, and Mounting Kit (additional dial indicators on page 127)
- Order No. VST-25



Valve Spring Testing

Protective rubber boot keeps the mechanism debris-free

Over-center cam action holds springs at desired height for repeatable accuracy

Ergonomically designed T-Handle Grip conforms to your hand for firm control



Analog Valve Spring Tester

- 5" diameter Ashcroft analog pressure gauge with 600 lb. (272kG) capacity in 10 lb. (4.54kG) increments
- Platform handles springs up to 2" diameter x 4½" OAL
 - Vertical height adjustments in 3/4" increments
- Adjustable pressing anvil for fine-tuning open and closed pressures for height measurement
- T-Handle conforms to the operator's grip for firm control
- Calibrated, sealed hydraulic load cell
- Over-center cam action holds spring at the desired height
- Rubber protective boot keeps the mechanism debris-free
- Base features four ¹/₁₆" mounting holes to bolt it to the bench
- Order No. VST-60G

TECHNICAL SPECS:

UNIT WEIGHT: 19½ lbs

FOOTPRINT: 8½" sq.

HEIGHT: 28" with handle fully extended

Platform handles springs up to 2" diameter and 4.5" OAL

Base includes four 5/16" holes for securely mounting the Valve Spring Tester to your bench

Vertical scale shows

inches on

the other

one side and

millimeters on

Easy to read 5" diameter Ashcroft-quality analog pressure gauge shows both pounds and kilograms with 600 pound capacity





Easy-to-use Travel Stop with adjustable set screws lets you set an exact position, allowing repeated testing at a desired height. Two set screws allow you to adjust for installed spring height and max lift (near coil bind).

Arbor style handle makes compressing springs fast and easy





Protect Your Valuable Valve Spring Tester with this Cover!

- Measures 10"x14"x18"
- · Same cover fits either Spring Tester
- Heavy-weight, breathable black
 Sun-Dura® fabric won't hold in moisture
- Order No. GMC-VST

More Machine Covers on page 25

Intercomp[®] Digital Arbor Valve Spring Tester

- 1,500 lb / 680.4 kg load cell in 1 lb. increments
- · Force units switchable from pounds to kilograms
- Billet 6061 T-6 Aluminum construction
- Digital travel readout at .001"/inch or .01/mm
- 5" travel capacity 2.0" diameter spring pads
- Easy to read backlit screen
- Operates on 9V battery (included)
- Adjustable stop to repeatedly check springs at the same heights
- Order No. VST-2000

For routine calibration of spring testers, return tester to Goodson. Call for details, 1-800-533-8010.

... another satisfied



Pneumatic Head: Adjustable to 25° in either direction for canted valves



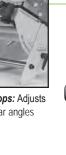
Head Support: Table adjusts 45° to the front and 30° to the rear



Wilmer Shank, Brandywine, WV, Goodson customer since 2008

Positive Stops: Adjusts front and rear angles





"I am retired, still tinkering. You have preserved my account. I appreciate still having access to the

Goodson

parts. You are doing a great job of customer service and please continue to print a catalog."



Quick Release Knob: Allows fast positioning to opposite cam bank



Speed Knobs: Allows quick positioning of workpiece

Pneumatic Valve Spring Press

· Pneumatic valve support holds valve closed as you compress the spring

Foot Pedal:

Easy, hands-free operation

- · Adjustable stainless steel plate won't damage the head
- 28mm Valve Spring Adaptor (CF-502) is standard with unit (other sizes are available) • Measures 28"L x 24"W x 26"H
- · Ideal for use on heads with recessed springs · For aluminum and cast iron heads
- Ships fully assembled Replacement Parts Available



Adjustable Pneumatic Valve Spring Compressor

- Develops up to 325 lbs. of force with 130 PSI
- For springs from 3/4" to 13/4" dia.
- CNC-machined 6061 T6 aircraft-quality aluminum frame is adjustable in 1/4" increments
- · Includes adjustable jaws (CF-44)
- · Stainless steel cylinder with viton grade seals
- 2" cylinder travel Fingertip controls Full 1 year warranty

2 dymiadi davor i mgorap domadio	r an r your warranty
Description	Order No.
Valve Spring Compressor	CF-2002
Replacement Parts and Accessories	
Valve Spring Adaptor Jaw Set	CF-44
¹ / ₄ " Green Air Line (lin. ft.)	CF-2001-AL
Air Control Needle Valve	CF-2001-NV
Intake / Exhaust Cartridge	CF-2003-C
Air Cylinder 2" Travel	CF-2001-AC
1/8" NPT L-Fitting	CF-2003-L

Diesel Adjustable Pneumatic Valve Spring Compressor

Slide Hammer:

A quick tap loosens

keepers for fast removal

- Develops up to 325 lbs. of force with 130 PSI
- For springs from 3/4" to 13/4" dia.

28'

· CNC-machined 6061 T6 aircraft-quality aluminum frame is adjustable in 1/4" increments

available To watch how-to set-up

and use the

Valve Spring Bench, scan the code below

Pneumatic

with your

device.

smart phone

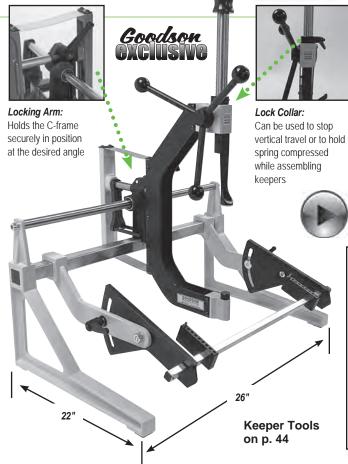
or other smart

GOODSON

- Includes adjustable jaws (CF-44)
- · Stainless steel cylinder with viton grade seals
- 2" cylinder travel Fingertip controls Full 1 year warranty

2 dylindor travor i ingortip dontrolo	I all I your wallality
Description	Order No.
Valve Spring Compressor	CF-2008
Replacement Parts and Accessories	
Valve Spring Adaptor Jaw Set	CF-44
¹ / ₄ " Green Air Line (lin. ft.)	CF-2001-AL
Air Control Needle Valve	CF-2001-NV
Intake / Exhaust Cartridge	CF-2003-C
Air Cylinder 2" Travel	CF-2001-AC
1/8" NPT L-Fitting	CF-2003-L

Valve Spring Compressors



Manual Valve Spring Bench

- Remove and install valve springs on heads with recessed springs
- Includes 28mm dia. spring adaptor (CF-502), other size spring adaptors also available (see chart below)
- Frame tilts up to 25° in either direction for canted valves
- Full cylinder head support is adjustable from 0 to 45°
- Integral slide hammer easily releases stuck keepers
- Replacement parts available
- Order No. CF-500

To watch how-to use the Manual Valve Spring Bench, scan the code at right with the camera on your smart phone or available other smart device.



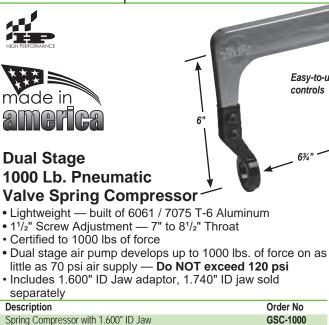
Spring Adaptors

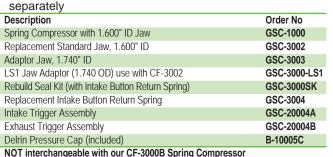
- Fit both manual (CF-500) and pneumatic (PSB-5000) spring benches
- 1/2" pin diameter

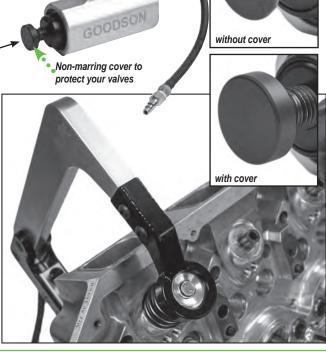
Easy-to-use controls

• Solid steel construction with replaceable nylon wear insert

Description F	Reach	Adaptor	Insert
18mm 4	1½" \$289.99	CF-518	CF-518-1
23mm 4	1½"	CF-501	CF-501-1
28mm 3	3½"	CF-502	CF-502-1
35mm 2	2½"	CF-503	insert not required









anywhere in the world. Kim, Goodson Export Sales Manager, 40 years of service

Manual Valve Spring Compressor

- · Weighs only 6 lbs
- · High leverage allows for easy, one-hand operation
- Covers a range from 10"H to 8"D
- Works with most L-head and valve-in-head engines
- Fits truck & tractor engines
- · Jaws adjust for different spring sizes

•	•	
Description		Order No.
Spring Compressor		CF-140
Replacement Jaw Set		CF-44
HD Replacement Jaw Set		CF-44HD

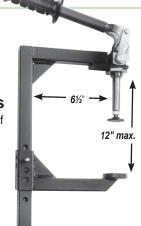




Manual Valve Spring Compressors

"You'll always get fast, reliable service from Goodson, even on international orders. We'll do whatever it takes to make sure you get your shop supplies as quickly and easily as possible.

- · Handle valve springs from a range of applications
- · Welded, gusseted all-steel construction takes plenty of abuse
- Plenty of leverage to compress valve springs
- Order No. CF-1500





small engine NUMBISHUI (S

Manual Valve Spring Compressor For Small Engines

- Steel construction
- 20lb. max. spring pressure
- Once you lock the compressor in position, your hands are free to work
- Includes 2 jaw sets small, for springs up to %" (22.2mm) and large, for springs up to 11/16" 27.0mm)
- \$30.99 Order No. CF-600

Valve Spring Compressor Adaptor

- Fits seat and guide machines or drill press
- Puts collet or drill press chuck behind adaptor
- Allows more room to remove or re-install valve keepers and associated components
- Fits ½" collet or Jacobs chuck (not included)

OD (m	m) Re	each (mm)	Order No.
3/4" (19	.1) 3 ³ /	4" (95.3)	CF-6
13/16" (2	20.6) 3 ³ /	4" (95.3)	CF-8
1" (25.	4) 3 ³ /	4" (95.3)	CF-10
11/4" (3	1.7) 3 ³ /	4" (95.3)	CF-12
1½" (3	8.1) 3^{3}	4" (95.3)	CF-15



CF-32

Keeper Installation Tools

- Spring-loaded plunger
- For single & multi-groove keepers
- Reaches keeper grooves located farther from the valve tip • Ideal for use with CF-500 (p. 43) and PSB-5000 (p. 42)

Size	Order No.
5mm / .2031"	VKI-5
6mm / .2344"	VKI-6
7mm / .2812"	VKI-7
8mm / .3125"	VKI-8
Replacement Rubber Sleeve	VKI-56
# The state of the	

Adaptors for **Deeply Recessed** Springs

- · Open top design gives easy access to keepers
- Durable, non-marring material
- Fit on Split-Jaw Spring Adaptors such as our CF-44 (below)

Description	OD	Height	Order No.
Small Metal Adaptor	26mm	4" (101.6mm)	\$ CF-32
Medium Nylon Adaptor	27mm	3" (76.2mm)	CF-24-G
Large Nylon Adaptor	32mm	3" (76.2mm)	CF-25-G



Description	OD	Height	Order No.
Small Metal Adaptor	26mm	4" (101.6mm)	\$ CF-32
Medium Nylon Adaptor	27mm	3" (76.2mm)	CF-24-G
Large Nylon Adaptor	32mm	3" (76.2mm)	CF-25-G



Best Keeper Tool

on the Market!

Keeper Magnet

- 65/16" long holder fits easily into deep bores
- · Powerful .170" diameter earth magnet holds keepers securely when removing or installing
- Order No. VKM-17



Valve Spring Adaptor Jaws

- Fit frames with double locking screws to secure jaws such as Goodson CF-2002, CF-2008 and CF-140
- Heavy duty jaws are non-adjustable (has a 1⁵/₅" max spring diameter)

1			,	
	Descr	ription		Order No.
	Stand	ard Dut	y 1.000"-1.875" (25.4-47.6mm) Range	CF-44
	Heavy	y Duty (ı	non-adjustable)	CF-44HD

CBN Cutter makes

quick work of virtually any bucket lifter

Air Powered Grinder uses standard shop air Micrometer Feed shows how much material you are removing

Bucket Lifter Grinder Assembly with FREE Grinder

- Machine just the bucket lifter!
- Fast and accurate
- Save time measure once, then remove the material from inside the Bucket Lifter instead of machining the stem height and finding the right VAD thickness or grinding the seat to meet your specs
- Micrometer feed shows how much material is being removed
- Confirm with dial indicator and bridge (included)
- Use right at your assembly station
- · Works with most Bucket Style Lifters, including those with VADs
- Complete Assembly includes Air Driver, CBN Cutter, Micrometer Feed Body. Dial Indicator and Indicator Base
- US Patent Number US 10456887

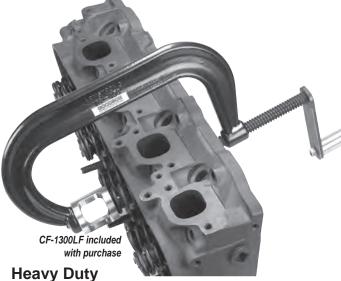
Description	Order No.
Complete Bucket Lifter Grinder Assembly	BLG-1000
Replacement CBN Cutter	BLG-1001
Replacement Dial Indicator	EDI-1

Use the Dial Indicator and Base to measure the valve contact point. Once determined, remove necessary material to set lash.





View our Tech Lab Tuesday video to see how easily you can adjust valve lash by machining the bucket lifters with the Bucket Lifter Grinder. Scan the code at left with the camera on your smart phone or other smart device for instant access.



Manual Valve Spring Compressor

- Drop forged steel frame
- Open receiver design allows for quick access to keepers
- Accommodates springs up to 1³/₄" diameter
- 81/2" throat 6" deep
- Compresses springs up to 1000 pounds

Description	Order No.
Manual Valve Spring Compressor	CF-1300
Small Receiver (OD: 1.625", ID: 1", Height: 2.156")	CF-1300SF
Large Receiver (OD: 2.0", ID: 1.197", Height: 2.25")	CF-1300LF



V-Twin On-the-Engine Valve Spring Compressor

Replace broken valve springs, install high performance valve springs, remove and replace valve guide seals all without disassembling the bike. Just remove the gas tank and get to work. Use on Sportster, Evolution, Twin-Cam and most aftermarket V-Twins. Kit includes valve spring compressor, adaptor for compressing beehive springs, valve seal driver/installer and head pressurizing hose. Order No. CF-HDIF

Same Day Shipping 45



"We work hard to get the right products in the right boxes and ship them to the right address every single time.

- Shawn, Goodson Shipping, 5 years of service



Small Chamfering Cones & Mandrels Make Deburring and Chamfering **Easy In Tight Spaces**

These mandrels are available in two diameters - 3/4" and $1\frac{1}{2}$ " diameters with a $\frac{1}{2}$ " shank to fit most portable drills. The small diameter fits easily into tight spaces such as Beehive Valve Springs (see page 132) or bolt holes. The mandrel is designed to support a 60° abrasive cone which is held securely by the retaining ring. One 80-grit cone is included with initial purchase.

Description		Order No.
¾" Dia. Mandrel		CC-34
¾" Dia. Abrasive Cones	80 grit	CC-35
	120 grit	CC-36
1½" Dia. Mandrel		CC-60
1½" Dia. Abrasive Cones	80 grit	CC-61
	120 grit	CC-62



3-D Fast Cut™ Adjustable Spring Pad Cutters on page 12



Valve Spring **Seat Cutters**

- Resize valve spring seats to maintain spring-to-valve concentricity or use to enlarge seats for over-size dual springs
- Requires special pilot see chart

Order No.

Carbide Tipped Cutter Bodies

(use VP pilots below)

H	-
feel	n fine

tech tips
from the techxperts™
must use these pilots with

You must use these pilots with the VSS and VSC cutters. The flat sides are necessary for a proper fit.

1.320"	.630"	VSS-1320
1.350"	.625"	VSS-1350
1.500"	.625"	VSS-1500
1.550"	.625"	VSS-1550
1.625"	.625"	VSS-1625
1.680"	.750"	VSS-1680HD
1.750"	.625"	VSS-1750

Hardened & Ground Pilots				
Guide II)	Order No.		
.275"	7.0	VP-7MM		
.312"	7.9	VP-312		
.343"	8.7	VP-343		
.375"	9.5	VP-375		

Universal Gel Lube

- Sprays on as a liquid and forms into a gel within seconds
- Penetrating formula blends freely with motor oil
- · Multiple uses, including cams, lifters, rocker arms, bearings, pistons/wrist pins, cylinders, etc.
- Provides lubrication for engines subjected to prolonged storage before initial start-up
- Aerosol*
- Order No. GL-8U

*Hazardous Goods Fees Will Apply if Shipped By Air



8 Piece Valve Train **Checking Spring Set**

- 1.250" OD
- · Spring Steel construction
- Essential for high-performance engine building and engine blueprinting
- Maintain a positive valve train position while checking valve to piston clearance
- Order No. VTS-8





- indicator clearance
- Use with our large-faced Dial Indicator to check valve tip height

Description				 Order No.	Incl.
Valve Stem Height G	auge Kit	w/Stand	b	VSH-KIT	•
Dial Indicator (2" trav	el, .001"	graduat	ions)	MDI-2	X
Dial Indicator (1" trav	el, .001"	graduat	ions)	EDI-1	
Measuring Bodies	OD	ID	OAL		
	.750"	.625"	3.830"	VSH-205	X
	.900"	.770"	2.840"	VSH-203	X
	.900"	.770"	3.840"	VSH-204	Х
	1.060"	.812"	2.840"	VSH-201	X
	1.250"	1.090"	3.300"	VSH-202	Х
Tool Stand				TS-5	Х
1" Checking Standard	t			MCS-1	

More dial indicators on page 127

100cc Glass Buret

Non-Serrated Valve Spring Booster Shims

- Won't compress
- · Shims meet or exceed OE specifications
- Maintain pressure and protect head from spring abrasion
- Made of prime quality cold rolled steel
- Support valve springs better than serrated shims
- Won't damage spring pad area on aluminum heads or cause lateral loads or harmonics
 Special Orders are available.



Positive fluid

	Size	50 count	50 count High Performance			100 count	
OD	ID	.060"	.030"	.015"	.060"	.030"	.015"
1.000"	0.688"				A-101	B-101	C-101
	0.765"				A-104	B-104	
1.100"	0.719"		HIGH PERFORMANCE			B-106	
1.218"	0.875"				A-105	B-105	
1.250"	0.625"	A-107-HP	B-107-HP	C-107-HP	A-107	B-107	C-107
	0.812"	A-203-HP	B-203-HP	C-203-HP	A-203	B-203	C-203
	0.875"				A-201	B-201	
1.360"	1.000"	A-102-HP	B-102-HP	C-102-HP	A-102	B-102	
1.375"	0.765"	A-301-HP	B-301-HP	C-301-HP		B-301	
1.438"	0.645"	A-306-HP	B-306-HP	C-306-HP			
1.439"	0.765"	A-305-HP	B-305-HP	C-305-HP			
1.480"	0.703"	A-303-HP	B-303-HP	C-303-HP	A-303	B-303	
1.500"	0.645"	A-306S-HP	B-306S-HP	C-306S-HP			
	1.031"	A-103-HP	B-103-HP	C-103-HP	A-103	B-103	
1.634"	0.643"	A-601-HP	B-601-HP	C-601-HP			

Clear acrylic

plate lets you

see when the

chamber

is full





Magnetic Head Bolt Washer & Valve Spring Shim Removal Tools

- Hollow design allows easy access over studs or head castings
- Powerful earth magnets grab firmly, letting you lift the washer or shim easily

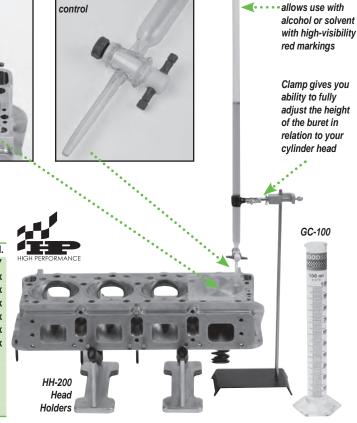
Description	Order No.	Incl.		
Magnetic Remover	MWR-SET	•		
Washer Removers	ID	OD		
	0.250"	0.625"	MWR-14	Х
	0.500"	0.865"	MWR-12	Х
	0.450"	0.812"	MWR-716	Х
Shim Remover	0.708"	1.355"	MVSR-2	X



Cylinder Head CC-ing Equipment

- Use glass buret with alcohol or solvent
- · Positive on/off fluid control valve
- Clear acrylic plate lets you see when the combustion chamber is full
- Mix Measuring Concentrate with water to make 1 gallon

Description	Order No.	Incl.
CC-Measurement Kit	CCB-KIT	\blacksquare
100cc Glass Buret	CCB-100	X
5" x 5" x 36" Acrylic Plate	GCB-3	X
Buret Cleaning Brush - 35½" OAL	GCB-BRUSH	X
Buret Stand	GCB-1	X
Buret Clamp	GCB-2	X
Funnel	CCB-FUNNEL	L x
Blue Measuring Liquid Concentrate (Yields 1 Gal.)	GCB-LIQUID	
4" Precision Cylinder Head Level	LEV-4	
Replacement Vial for 4" level	VGL-101	
100cc Glass Beaker	GC-100	
Universal Cylinder Head Holders (pair)	HH-200	





"Goodson accepts major credit cards, debit cards, bank drafts and personal checks. Call us for more information."

Bev, Goodson Accounting Manager - 40 years of service

PCD Inserts for Aluminum

- A must for shops committed to meeting today's strict surface finish requirements
- Fits machines with ¾" & ½" CBN holder
- ½" diameter inserts require shim*
- Use with Resurfacing Spray (HPS-16) for best results (below)

Titanium-Nitride Coated Goo		odson	Rad	diac		
Dia.	Thick.	Sided		Order No.		Order No.
3/8"	1/8"	Single		PCDS-375		
	1/8"	Single		GPCD-375		
1/2"	1/8"	Single				2379264*
	1/8"	Single		GPCD-500*		
1/2"	³ / ₁₆ "	Single		PCDS-500		
1/2"	3/16"	Single				2379265
1/2"	3/16"	Single w/sc	rew hole			2X6145
¹ / ₁₆ " Thick Carbide Shim*			CBN-500SHIM	ĺ		



Always cut with the dull finished side of the insert

CBN Cutter Inserts for Cast Iron

• Faster and cleaner than segments and wheels

Uncoated		Goodson			Uncoated	Radiac	
Dia.	Thick.	Sided		Order No.		Order No.	
¾"	1/8"	Single		GCBN-375			
1/2"	1/8"	Single		GCBN-500*			
	1/8"	Double	259.99	CBN-500D*		2X5299*	
	3/16"	Single		CBN-500S		2359233	
	3/16"	Solid				2359234	
	3/16"	Single Sided	ingle Sided with Screw Hole			2X6144	
	3/16"	Special Edge Prep for Diesel				2379268	
Titani	Titanium-Nitride Coated					No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, Original Property and Name of Stree	

		ao ooatoa			
Dia.	Thick.	Sided	Order No.		
%"	1/8"	Double	CBN-375D	1	
	1/8"	Single	CBN-375S	Æ	
	Uncoate	ed			
¾"	1/8"	Single	CBNS-38		
1/2"	3/16 "	Single	CBNS-12		
¹ / ₁₆ " T	hick Carb	oide Shim*	CBN-500SHIM		
*Shim required on DCM machine					
	,				



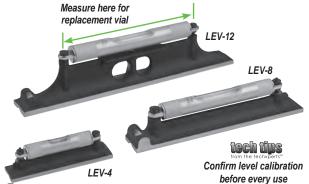
Cut using the dull finished side

CBN Super Abrasive For Cast Iron Diesel Heads

- Designed for cast diesel heads with hardened pre-cups • Won't chip
- Fits all overhead surfacers with ½" diameter insert capacity
- Will NOT work on standard cast heads

Standard Grade Cutters						
Dia.	Thick.	Sided		Order No.		
3/8"	¹ /8"	Single		GCBN-D375		
1/2"	1/8"	Single		GCBN-D500		
Premium	Grade Cutters					
Dia.	Thick.	Sided		Order No.		
1/2"	1/8"	Single		DRD-500		
1/16" Thick	1/16" Thick Carbide Shim CBN-500SHIM					

*NOTE: A 1/6" thick carbide shim must be used on DCM machines



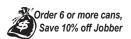
Starrett

Precision Levels & Vials

- Graduated vials with satin-chromed. brass protective covers that rotate to close tightly
- Base castings are seasoned, then precision machined and finished on a bearing surface • Replaceable vials
- Adjustable for precise calibration
- 1 division equals .0005" per inch
- Fits pilots from 6mm to .437"

'		1000
Description	Order No.	Replacement Vial
4" Valve Guide Level (3" vial)	VGL-100	VGL-101
4" Level (3" vial - nominal)	LEV-4	VGL-101
8" Level (6" vial - nominal)	LEV-8	LEV-8-1
12" Level (8" vial - nominal)	LEV-12	LEV-12-1

See goodson.com for level calibration instructions



High Performance Resurfacing Spray

- Prolongs cutter life
- · Enhances surface finish
- Refreshing scent
- 11 oz. Aerosol* can
- Order No. HPS-16
- * Hazardous Goods Fees Apply When Shipped By Air



Tool Bits For Van Norman 530, 570 Rotary **Broaches**

- Can be resharpened
- Order No. VN-65C



Carbide **Cutter Replacement Tips For Storm Vulcan Broach Style Surfacers**

Enlarged for clarity

VGL-100

(use with

your pilot

or find on

page 3)

OODSO

- Fits Storm Mill 85, 85B, 85BE, 85C, 85N and 280
- Order No. SV-85BE

AIS

Abrasive Industrial Supplies Need a Different Size

We can make the size you need. Specify grit, grain and size and we'll take it from there. Call **1-800-533-8010** for info!

or Grit or Material?

Cylinder Head Resurfacing Belts

A belt has three important parts: abrasive, bond and backing. Goodson belts are made for top performance and long life. Our belts also feature a unique splice that permits use in both directions for even longer wear; when worn one way, turn belt around to resurface more heads.

Abrasive: Match the abrasive to the workpiece (aluminum, cast iron or steel) and to your machine for the longest belt life.

See list of machines and belt sizes below to determine which belt(s) you need.

Silicon-Carbide 40-grit:

- Good-quality Black
- Primarily for cast iron but can resurface aluminum if extra care is used
- Down-pressure optional

Bond: Double-layer, heat-resistant resin holds abrasive firmly. Bond is so strong that grains wear out instead of loosening.

Silicon-Carbide 60-grit:

- Good-quality Black
- Primarily for cast iron but can resurface aluminum if extra care is used
- · Down-pressure optional

Silicon-Carbide 80-grit:

- Good-quality BlackDesigned especially to
- resurface aluminumDown-pressure not recommended

* Maria

to order

backing of any resurfacing belt.

Backing: Waterproof, poly-back belt

won't tear or fray. It's the toughest

Selection Guide: which abrasive works best on what materials...

CAST IRON

ALUMINUM

Zirconia-

Silicon-

Silicon-

Alumina (40g)

Carbide (40g)

Carbide (80g)

Buy 3 or 4 belts,

Buy 5 or more,

save 10% off jobber

save 15% off jobber

Zirconia-Alumina 40-grit:

Better-quality

Cylinder Head Resurfacing

- Blue
- Grains fracture under pressure to stay sharp
- For cast iron or steel
- Down-pressure recommended

Zirconia Alumina With Grind Aid - 40-grit:

- Premium-quality belt with pre-applied Grind Aid • Blue/Green
- Excels on severe applications
- Grains fracture under pressure to stay sharp
- · For stainless steel, alloy
- · Down-pressure required

Belt Size	Order No.	Order No.	Order No.	Order No.	Order No.
10" x 87"	SGS-10-87	SGS-10-87-60*	SGA-10-87*	SGB-10-87*	SGZ-10-87*
10" x 103"	SGS-10-103	SGS-10-103-60	SGA-10-103*	SGB-10-103	SGZ-10-103
11½" x 76"	SGS-11-76	SGS-11-76-60*	SGA-11-76	SGB-11-76	SGZ-11-76*
11½" x 79"	SGS-11-79	SGS-11-79-60	SGA-11-79	SGB-11-79	SGZ-11-79
11½" x 89"	SGS-11-89	SGS-11-89-60	SGA-11-89	SGB-11-89	SGZ-11-89
11%" x 91"	SGS-11-91	SGS-11-91-60	SGA-11-91	SGB-11-91	SGZ-11-91*
11%" x 101"	SGS-11-101	SGS-11-101-60*	SGA-11-101	SGB-11-101	SGZ-11-101*
14" x 86"	SGS-14-86	SGS-14-86-60	SGA-14-86	SGB-14-86	SGZ-14-86
14" x 103"	SGS-14-103	SGS-14-103-60	SGA-14-103	SGB-14-103	SGZ-14-103
14" x 107½"	SGS-14-107	SGS-14-107-60	SGA-14-107	SGB-14-107	SGZ-14-107
14" x 113½"	SGS-14-113	SGS-14-113-60	SGA-14-113	SGB-14-113	SGZ-14-113*
15" x 127½"	SGS-15-127	SGS-15-127-60	SGA-15-127	SGB-15-127	SGZ-15-127

Colors may vary due to manufacturing process. Guaranteed for 1 year from original purchase date.

Belts with * are made to order. Please allow

3 to 5 working days for delivery.

Belt/Machine Compatibility Belt Size from the techxperts™ Machine(s) 10" x 87" Rogers SB-1028, SF-1028, T&S Machine, Master Tool 1029 10" x 103' Rogers SF-1036, T&S Machine, Master Tool PS1036 11⁷/₈" x 76' Winona Van Norman BG-600 11⁷/₈" x 79" RMC, Peterson RG-1203 RMC-800, Serv-Equip PG-1229 11⁷/₈" x 89" 11⁷/8" x 91" Peterson RG-1234, Kansas Instruments 14" x 86" Automotive Craftsman 14" x 103" Master Tool 14" x 107' Kwik-Way 870 Master Surfacer 14" x 113¹/₂" Storm Vulcan/Anderson AB-1000A, Peterson PG-1400 15" x 127¹/₂" Storm Vulcan/Anderson AB-1540A, Anderson AB-1560, IDL HS-4350, Peterson PG-1500, Winona Van Norman BR-1500, BG-1515 & BG-1520



Semi-Synthetic Belt Resurfacer Coolant

- Rust-inhibiting
- For ALL belt resurfacers with a coolant sump
- Dilute 30 parts water to 1 part coolant

Size	Order No.
1 Gallon (3.79L)	SGB-10
5 Gallons (18.39L)	SGB-50



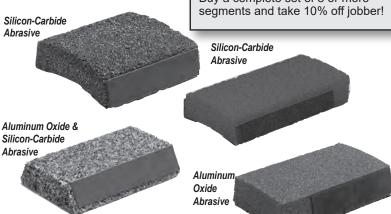


"We are committed to maintaining your privacy. Information about you and your business is never sold, rented or given to anyone outside of our company."

Sue, Goodson Office Manager - 37 years of service

SAVE!

Buy a complete set of 8 or more





Keys to Resurfacing

1 - Choose the correct abrasive

Use a speckled wheel segment to grind aluminum heads.

2 - Lubricate, Lubricate, Lubricate

Put a light coat of Grind Aid (GRA-10) on the abrasive to reduce aluminum build up. Speed up the travers and reduce the cut to .0005" to .0010" per pass.

3 - Dress for Success

Keep grains open by dressing often. Don't dress before the last pass, but be sure to apply Grind Aid liberally so the stone yields a finer surface finish.

4 - Keep heat build-up to a minimum

The greatest danger is heat build up that can cause scoring as aluminum transfers to the stone. Take shallow cuts and use plenty of lubrication to prevent this.

Resurfacing Wheel Segments

Segments are available in a variety of compositions.

Match the abrasive to the material for best results and longest life. Order segments in 8.10 or 12 piece sets

Width	Thickness	Length	Application	Abrasive	Color	1+	8+	Order No.
2.56"/65mm	0.98"/25mm	3.94"/100mm	Cast Iron & Aluminum	Silicon-Carbide	Black			GS-PBS
		Steel & Harder	ned Metals	Aluminum Oxide	White			GS-PBS-1
		Aluminum, Ca	st Iron,	Aluminum Oxide	Speckled			GS-PBS-2
		Hardened Iron	& Steel	and Silicon-Carbide				
		Steel & Harder	ned Metals	Aluminum Oxide	Ruby			GS-PBS-3
For Peterson/Peterson Berco 1055 AWL, RSC950 (std.), SYP320, -360, -1000, -1300, RSC1200, -1550, RPYS1500 models.								
For Winona Van Norman SM-2000, SM-4000/5000, MG-4000, SM-6000C/6000A and MG-3000/3850 models.								
	For Storm Vulo	can RT7Y Late (S	Serial No. 103152 and up) and	d RT 17Y Late (Serial No. 12	28697 and up) models.			
3.13"/79mm	0.81"/21mm	3.13"/79mm	Cast Iron & Aluminum	Silicon-Carbide	Black			GS-SVS
		Aluminum, Ca	st Iron,	Aluminum-Oxide	Speckled			GS-SVS-2
		Hardened Iron	& Steel	and Silicon-Carbide				
	For Peterson/F	Peterson Berco R	G-32, RTY, RG-35, RG-300/	900 models.				
For Storm Vulcan RT 7Y Early (Serial no. up to 103151) and RT 17Y Early (Serial no. up to 128696)								
1.97"/50mm	0.67"/17mm	3.62"/92mm	Cast Iron & Aluminum	Silicon-Carbide	Black			GS-RGS
	For Peterson/F	Peterson Berco R	G-32, RG-300/900 models.					
2.56"/65mm	0.79"/20mm	3.94"/100mm	Steel & Hardened Metals	Silicon-Carbide	Black			GS-KWS

Aluminum, Cast Iron, Aluminum-Oxide Speckled GS-KWS-2 and Silicon-Carbide Hardened Iron & Steel

For Kwik-Way 858 and 862 models



To maintain proper cutting action Goodson strongly recommends that you replace your cylinder head resurfacing segments in full sets. See your user's manual for wheel diameter and number of segments required. Due to manufacturing process colors may vary. Need help choosing the abrasive? Call the Goodson Techxperts™

Resurfacing Segments are guaranteed for 1 year from original purchase date

Import / Metric Cylinder Head Stud Stretchers • Save time, don't remove the studs

from a head for resurfacing • Put stud stretchers on two studs and leave the rest • Sold in pairs

Length	Thread	Order No.
3"	8mm x 1.25	SS-20
3¾"	8mm x 1.25	SS-30
3¾"	10mm x 1.25	SS-40





Surface Grinding Coolant for Segments and Single-Piece Wheels

Length

Synthetic

Thickness

- Water soluble
- Non-foaming Dilute 20:1

Size	Order No.
1 Gallon / 3.78 L	SGC-10
5 Gallons / 18.93 L	SGC-50



Cylinder Head Resurfacing

24 Grit Blanchard Grinder Wheels

- Includes gasket pad for mounting onto a Blanchard Grinder
- Also ideal for resurfacing clutch plates
- Wheel measures 11" x 5" x 9"
- Tape wound for added safety
- Excellent grade for most grinding conditions and metals
- Order No. **U69755**



The most complete abrasives program in the industry ...

1. Consistent high quality abrasives

Each Goodson resurfacer wheel is made to the highest standards of roundness, balance and strength. Extensive quality control, start-to-finish, lets us back our abrasives with our Iron-Clad Guarantee of total satisfaction.

2. Full inventory

Since we specialize in the distribution of abrasives to machine shops world wide we always carry an extensive inventory. Call Goodson, we have what you need on our shelves.

3. Same day shipping

We usually ship your order the same day that we receive it. Along with our huge inventory, our shipping speed ensures consistently faster delivery when you order from Goodson.

Single-piece Resurfacer Wheels

- · Meet or exceed OE standards established for general purpose grinding applications
- Silicon-Carbide abrasive Banding will wear off to expose more abrasive





Peterson			
Machine Model(s)	Size: dia. x height x face width	Grit	Order No.
All 14" Dry Grinders	14" x 1½" x 4" Plate	24	U342040 Radiae
All 14" Dry Grinders	14" x 1½" x 4" Plate	36	GS-48

Grinding Wheels are guaranteed for 1 year from original purchase date



NOTE: Plates are no longer painted, resulting in less warpage

	GS-545BL
! ,	

Kwik-Way			
Machine Model(s)	Size: dia. x height x face width	Grit	Order No.
545B,856,855-5,860	14" x 3" x 11/2" (Serrated) Plate	24	GS-545B
545BL,860A, L & T	16" x 3" x 11/2" (Serrated) Plate	24	GS-545BL

Grinding Wheels are guaranteed for 1 year from original purchase date











Grinding Wheel Dressers & Replacement Cutters

ressers & Replacement Cutters

Diamond Dresser Tools are available on pages 114-115

			•			Diami	,,,a <u> </u>	or 10010 are	available on pages 114 110
	Cutter As	ssemblies		Replacement Cutters					
Applications	OD	W	Order No.	Pieces	Washers	OD	ID	Thick	Order No.
Peterson (12mm shaft) •••••	• • • • • •	• • • • • • • •	•••••	8 stars	3	2.375"	1.500"	.093"	GS-17
					1 w/locking tangs	1.750"	1.500"	.060"	
WVN SM2000, 4000, 5000,	1.250"	0.978"	FG-1165-G	7 stars	none	1.250"	0.313"	.095"	FG-1161-G
6000C, 6000A, MG3000, 3850)								
Peterson & DCM	2.375"	2.262"	FG-1070A-G	5 stars		2.375"	1.132"	.1375"	FG-1070-G
Hand held			FG-1045-G	1 stone	none	1.500"	0.313"	.6250"	FG-1044-G
Desmond-Style Dresser for wh	neels to 10)"	GS-0	4 blades	, 2 spacers		0.250"		GS-00
				4 blades	, 2 spacers		0.500"		GS-11

Iron-Clad Guarantee 51

- Janet, Goodson Marketing Manager, 22 years of service



ASSEMBLY & SAFETY

& SUPPLIES

full service

Scan the code at right with your smart phone or other smart device to watch Magnetic Particle Inspection on the Goodson website.



MMP-100 Ergonomic handle design for less operator fatigue.

Articulating legs adjust to a wide range of angles, allowing you to test uneven surfaces with ease

MMP-210

Magnetic Crack Detection Units

Articulating legs conform to virtually any surface configuration

 Designed for one-person operation • Lightweight • No transformer box to drag around • 230V units feature a pigtail on the cord • Easy to access switches • Full 1-Year Manufacturer's Warranty for Repair • 50% duty cycle (example: 2 minutes on, 2 minutes off) • Produce a strong AC magnetic field

Description	Order No.
115V Electronic Crack Detector with 10# Pull	MMP-100
115V Heavy Duty Electronic Crack Detector with 22# Pull	MMP-210
230V Electronic Crack Detector with 10# Pull	MMP-100S



Physical: 7%" x 91/4" x 21/8"

Max. Span: 12" (304.8mm)

across poles

Voltage: 115V (MMP-100) 230V (MMP-100S)

Line Current: 4 amp (MMP-100)

3 amp (MMP-100S)

Weight: 6.5 lb (2.95 kg) Cord: 10' L, 3-wire



MMP-210

Physical: 101/2" x 11" x 23/4"

266 x 280 x 70mm

Max. Span: 18" (457mm) across

poles

Voltage: 115V (MMP-210)

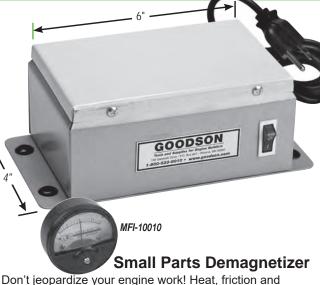
230V (MMP-210S)

Line Current: 8 amp (MMP-210)

3 amp (MMP-210S)

Weight: 13 lb (5.9 kg) Cord: 10' L, 3-wire

MM-301-1



magnetic particle inspection can cause magnetism to build up in your engine components. If not removed, it will attract ferrous materials in engine lubrication and may cause premature engine failure. This easy to use table demagnetizer is a fast and easy way to ensure that all residual magnetism is eliminated from engine components. Use with the optional Magnetic Field Indicator (MFi-10010) to be sure all remaining magnetism has been fully eliminated.

<u> </u>	
Description	Order No.
Small Parts Demagnetizer	SPD-46
Magnetic Field Indicator	MFi-10010

Magnetic Powder Applicators

MM-301

· A quick & easy method for distributing magnetic powder

WCD-266-G

Description	Order No.
Atomizer Assembly for small areas (1 oz.)	MM-301
Applicator Bulb for large areas	WCD-266-G
Replacement Bulb for Atomizer Jar	MM-301-1

· Works with all dry magnets

Color/Size	1 lb.	5 lb.	25 lb.
White/Gray	WCD-100-G	WCD-500-G	WCD-2500-G
Yellow	WCD-101-G	WCD-501-G	WCD-2501-G
Red	WCD-103-G	WCD-503-G	WCD-2503-G

GOODSON

GCR

WIGO available

Scan the code below with your smart phone or other smart device to view our **Chemical Crack Detection** Video on the Goodson

website





Alumni-Chek

 Find surface cracks on aluminum & cast iron without electricity or spe

without electricity or special lights

 Ideal for aluminum, but also works on brass, cast-iron, steel, carbide, and Stellite
 Even the tiniest cracks show as bright red
 Complete kit includes Cleaner, Penetrant, Developer and Shop Towels (also available separately)

Description	Order No.	Incl.
Complete Kit	AC-KIT*	•
Cleaner Aerosol*	AC-1*	X
Penetrant Aerosol*	AC-2*	Х
Developer Aerosol*	AC-3*	X
5 Towels	WST-5	X
Mix or match Cleaner, Penetrant & Developer to make a	3 1/	
case of 12 and SAVE 10% OFF Jobber!	4	
*Hazardous Goods Fees Apply When Shipped By Air		



Maxxeon® WorkStar® 364 USB Rechargeable UV Leak Detection Pen/Inspection Light

- 3.7V 570mAh, 2.1 Wh Lithium battery with USB charger
- Run time: 35 min. continuous, 2 hr. intermittent operation
- Use with Goodson Glow for crack detection
- Easily adjustable beam to suit application
- Drop tested to 6 feet
- Order No. DFL-364

Magnetic Crack Detection Spray

- Use with your magnetic crack inspection unit
- Applies quckly and easily just spray it on the area you want to check
- Glows under black-light
- 16 oz. Aerosol* can
- Order No. MFA-16



tech tips

from the techxperts™

Step 1: Spray cleaner evenly on the surface and allow it to dry completely.

Step 2: Spray on Penetrant. Allow to saturate for 5 minutes. Wipe off excess to avoid false readings.

Step 3: Spray on thin layers of developer to build up a uniform powdery film.

Step 4: Flaws and cracks will glow brightly when viewed under the black light (Applies only to Goodson Glow).



GOODSON Glow Crack Detection Sprays

- Easily detect surface cracks that could easily be missed with just visual inspection
- Cracks & flaws glow brightly under black light after treatment with Cleaner, Penetrant and Developer

Description	Order No.
Goodson Glo Cleaner Aerosol*	GLO-1*
Goodson Glo Penetrant Aerosol*	GLO-2*
Goodson Glo Developer Aerosol*	GLO-3*
Mix or match Cleaner, Penetrant & Developer to make a	4 2/
case of 12 and SAVE 10% OFF Jobber.	

Crack Detection Powder & Oil Carrier

*Hazardous Goods Fees Apply When Shipped By Air

- For wet method crack detection
- Mix powder with oil carrier
- Use with Ultra Violet Inspection Light to view results

	Size	Order No.
Powder	4 oz. / 113.4g	GCR-14A-4
	1 lb. / 453.6g	GCR-14A
Oil Carrier	5 Gallons / 18.93L	GCR-50



Magnetic Crack Detection Oil

- Oil impregnated with magnetic powder (GCR-14A, GCR-14A-4) to glow under black-light
- Low viscosity oil flows into small cracks • Oil clarity makes cracks easier to see • Aerosol Spray is pre-mixed oil and carrier
- Order No. MFA-50

*Hazardous Goodson Fees Apply When Shipped By Air



Pistol Grip Vacuum Tester

- Lightweight only 1.9 lbs. without the plate
- Pulls and holds up to 24" vacuum on as little as 90 PSI Quick coupling Robinair fittings
- Easy to reach controls for single-handed operation • Hard-anodized billet aluminum
- Tester includes one 4.75" vacuum plate and hose kit with filter

TIOOO TIIL WILL	1 111101			
Description		Order No.		
Pistol Grip Vacuum Tester Kit		DVC-2011	Incl.	
Optional Vacuum Plates				
Robinair Fitting Replacement Plate Set		DVC-7KIT	▼	
2.00" (50.8mm dia.)		DVC-2	Х	
3.00" (76.2mm dia.)		DVC-3	Х	
4.75" (120.7mm dia.)		DVC-475	Х	Х
6.00" (152.4mm dia.)		DVC-6	Х	
2"x3" (50.8x76.2mm)		DVC-23	Х	
3"x4" (76.2x101.6mm)		DVC-34	Х	
Plate Lube 8 oz. (236.6 mL)		DVC-PL	Х	
Parts & Accessories				
Pressure Gauge		DVC-GAUGE		
Flexible Hose Kit w/3' Air Line (optional)		DVC-2011-HK	•	
⅓" NPT "L" Fitting		CF-2003-L	Х	X
1/8" NPT Female Coupling		LDP-AR-6	Х	X
Inline Air Filter		DVC-FILTER	Х	X
½" x ¼" Straight Fitting		DVC-SF	X	X
Nipple Coupling		DVC-1N	Х	X
Air Line	lineal foot price	CF-2001-AL	Х	X
Robinair Fitting		DVC-SN		
1/8" NPT Male Coupling		DVC-1M		
6 Pc. Replacement Foam Set (1 of each si	ze)	FOAM-KIT		
Replacement Foam Mat - 11" x 31" x 3/8"		DVC-1131		



available

with your smart phone or other device to view

the product video.

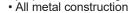
Sioux-Style Replacement Vacuum Tester Parts

- For Sioux[™] 1630K Tester no longer made
- · Closed cell foam for an exceptional seal

Closed Cell Idalii	ioi aii exceptionai sea	
Sioux-Style Replacement Plates for the 1630K Tester		
Size	OE No.	Order No.
2" / 50.8mm dia.	1630-2	SVT-2
3" / 76.2mm dia.	1630-3	SVT-3
4.75" / 120.7mm dia.	1630-4	SVT-475
6" / 152.4mm dia.	1630-6	SVT-6
2"x3" / 50.8 x76.2mm		SVT-23
3x4" / 76.2 x101.6mm		SVT-34
Replacement Parts for	the 1630K Tester	
Replacement Fitting		DVC-SX
Replacement Gauge		1630-GAUGE

Heavy Duty Manual Vacuum Tester

 A steady reading of 25" (63.5cm) indicates proper valve seating



- 4¾" plate, fittings and plate lube included
- · DVC Plates (above) will fit this tester

Description	Order No.
Manual Vacuum Tester	DVC-101-HD
Replacement 4.75" Plate	DVC-475
Plate Lube - 8 oz. (236.6 mL)	DVC-PL

Vacuum Testing



Vacuum testing is the fastest method for testing valve to seat integrity. Simply

assemble your machined cylinder head and install the spark plugs. Use a reliable vacuum source producing approximately 24" HG on the vacuum gauge and a closed cell foam test plate with a through fitting to draw down or evacuate the combustion chamber.

Once you've reached 24" HG on the gauge and close the vacuum to the chamber. Watch the gauge for a drop in vacuum. It should hold steady confirming that you have achieved valve to seat mating.

Coat the face of your closed cell foam test plate with Plate Lube (**DVC-PL**) to condition the foam. This produces a soft, yielding material that will fill minor head surface blemishes or imperfections.









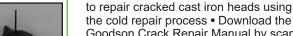
Trego Electric Vacuum Tester

- · Check valve to seat seal right on the bench or in the engine compartment — no special set up is required
- This unit is equipped with a vacuum piston pump and generates up to 850 Mbar of vacuum • Reads in PSI
- A built-in pressure control knob allows you to control vacuum settings accurately • 115V, 60Hz, 67W motor
- Dimensions: 9⁷/₈"L x 6³/₄"W x 4¹/₂"H

Description		Order No.	Incl.
Electric Vacuum Tester		VT-KIT	•
2.00" (50.8mm dia.)		DVC-2	Х
3.00" (76.2mm dia.)		DVC-3	Х
4.75" (120.7mm dia.)		DVC-475	Х
6.00" (152.4mm dia.)		DVC-6	Х
2"x3" (50.8x76.2mm)		DVC-23	Х
3"x4" (76.2x101.6mm)		DVC-34	Х
Plate Lube 8 oz. (236.6 mL)		DVC-PL	Х
1/4" Air Line (6')	priced by lineal foot	CF-2001-AL	. х
Inline Air Filter		DVC-FILTE	R x
1/4" NPT Female Coupling		LDP-AR-6	Х

Jet Valve Eliminator Kit

- · Some Mitsubishi/Chrysler 2.6L heads had jet valves while some didn't
- This kit lets you use a jet valve equipped head in place of one without
- 11mm diameter, 1.0 pitch threaded plugs replace entire valve body assembly
- Easier than welding the holes closed
- Package of 4 converts one 2.6L head
- Order No. JVE-26



the cold repair process . Download the Goodson Crack Repair Manual by scanning code at right with the camera on your smart phone or other smart device



Order No.	Incl.
CRK-150	•
CRP-235	1
CRD-235	1
CRR-235	1
CRT-235	2
CR-SAW	1
CR-BLADE	1
CTF-14	1
AWS-16	1
CRS-16	1
	CRK-150 CRP-235 CRD-235 CRR-235 CRT-235 CRT-SAW CR-BLADE CTF-14 AWS-16

*Hazardous Goods Fees Apply When Shipped By Air

Threaded Crack Repair Plugs

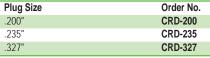
• Iron • Tapered • Threaded plugs

Cast to rigid specifications

0 0.01 10		
Plug Size	Qty.	Order No.
.200" x 15/16"	100	CRP-200
.200" x ½"	100	CRP-201
.235" x 15/4"	100	CRP-235
.327" x 1¾"	50	CRP-327

High Speed Steel Drills

• 118° points for fast chip removal





Tapered Reamers

· High Speed Steel

Plug Size	Order No.
.200"	Not Required
.235"	CRR-235
.327"	CRR-327

High strength steel machined to match plug taper & thread

Plug Size	Order No.
.200"	CRT-200
.235"	CRT-235
227"	CDT 207

Tapered	ıaps
■ High strongs	th stoo

Plug Size	Order No.
.200"	CRT-200
.235"	CRT-235
.327"	CRT-327



"At Goodson, we're always on the lookout for new or improved tools that make engine rebuilding easier. If you have a tool you think we'd be interested in, give us a call."

- Richard, Goodson Product Manager, 24 years of service

shown actual size





melted center reveals overheating



Heat Tabs

- · Provides visual evidence of engine overheating
- · Special heat sensitive metal centers melt and fall out when engine exceeds the melting point of the tab
- 100 Heat Tabs per package
- Attach to heads with Heat Tab Adhesive (below)

Description	Melting Point	Order No.
Round Heat Tabs	255-260° F / 124-127° C	RHT-100
Round Irontite Heat Tabs	255-260° F / 124-127° C	HT-100RD
Round Diesel Heat Tabs	225-235° F / 107-110° C	DHT-100
Heat Tab Adhesive (3 oz./8	88.7mL tube)	HTA-3

Leak **Detection Mat**

- · Commercial-grade Neoprene
- Resists petroleum products, abrasion, swelling, sunlight and aging
- Repair worn mats or make custom leak detection plates
- Measures 3' x 4' x 3/16" thick
- Order No. LDP-34MAT

Seal-AII™

- · Seals pin holes, porosity and small cracks in heads & blocks
- · Penetrates and seals
- · Out-performs ceramics
- · Bonds with existing rust & corrosion to prevent spread
- Heat at 175°-200°F (79.4°-93.3°C) for 4 hours to cure
- Not for use on assembled engines
- 32 oz. (46 mL)
- Order No. CPS-32



Fluid Weld®

- · For cast iron or aluminum heads and blocks
- · Use as a sealant for threaded or press-fit parts like valve guides and seats, threaded crack repair plugs. replacement studs, etc.
- · Seals small cracks · Non-toxic
- Non-flammable
- NOT for use on assembled engines

 Withstands temperatures to 3000°F 	West 20,500
Size	Order No.
2 oz. (59 mL)	FW-2
8.8 oz. (260 mL)	FW-88

All Weather Seal

- · Seals intakes & head gasket leaks
- Seals cracks in cylinder heads & engine blocks
- Prevents anti-freeze from seeping through gaskets and hoses
- · Lubricates water pump seals
- Mixes with all anti-freeze and coolant
- · Works in less than 5 minutes
- · Fast-acting, non-corrosive, non-clogging
- · Can be used with coolant or anti-freeze
- 16 oz./455 mL Order No. AWS-16



Rust Inhibitor for Pressure Testing

- · Clear fluid inhibits rust and does not discolor or cloud the test tank solution
- Lets you see better to pressure test
- Biocide and anti-rust additives extend tank solution life while preventing corrosion
- · Synthetic formula
- Mix 20:1 with water
- · Yields 20 gallons
- Order No. PRI-10



Ceramic Motor Seal

- · Permanently seals leaking head gaskets, cracked heads and blocks (aluminum or
- · Coats the engine to inhibit rust formation and salt water corrosion during normal operation
- Seals porous castings in the cooling system
- Stops coolant leaks
- · Not compatible with any anti-freeze or coolant, follow instructions on package
- Promotes heat dissipation for added power
- 16 oz./455 mL
- Order No. CRS-16



S-373P Pilot shown installed

Rocker Arm Stud Conversion Kit

 Convert pressed-in rocker arm studs to threaded studs

· Remove stud. face stud boss. then drill and tap the stud hole

· Use with a seat and guide machine

Description	Order No.	Incl.
Conversion Kit	S-450-KIT	•
Stud Boss Facer	S-450-F	X
3/8" Drill Bit	S-373D	Х
¼6" x 14 Thread Tap	S-437T	X
3/8" Pilot	S-373P	1
2 Pc. Tap Guide	S-350G	



S-350G



• 360° stand holds head securely in position

Misc. Cylinder Head

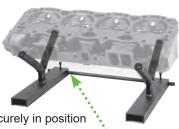
Tie-rod to prevent tipping

· Slip-resistant neoprene covered rails

· Fits domestic, foreign, truck & motorcycle heads

• 3-piece set

• Order No. HH-450



Set screws hold the two pieces firmly in place

Man	ual Ro	ocker
Arm	Stud	Puller

- Heavy-duty ball bearing action
- Creates less stress and friction
- Fits 5/16" (7.9mm) and 3/8" (9.53mm) threaded studs
- Not recommended for use on thermally cleaned heads

Description	Order No.
Complete Stud Puller	SP-600
Drive Nut	SP-601
Puller Body	SP-602
%₀" and %" Mandrel	SP-603
Thrust Bearing	SP-604
	·



- (15/16" socket removes, 11/16" installs)
- Requires only 3/4" clearance to adjacent studs
- · Hardened 3-jaw clamping system
- Internal taper support
- 1½" dia. x 2¾" long ¼" ½" range

Description		Order No.
Universal Stud Extrac	tor	PSR-500
Replacement Parts	Jaws	PSR-JAWS
	Spring Set	PSR-3S
	Snap Ring	PSR-SR

Universal Threaded Stud Extractor

• Use with your pneumatic impact tools & sockets

For threaded studs only

- · Hollow body allows long studs to extend through the tool

Description		Order No.
Universal Stud Extrac	tor	PSR-500
Replacement Parts	Jaws	PSR-JAWS
	Spring Set	PSR-3S
	Snap Ring	PSR-SR

Torque-Angle Indicator

- When torque is given as degrees of turn past a certain ft./lb., use this gauge to show degrees
- · Hold metal base with one hand
- · Plastic dial turns as you tighten
- Fits between a socket-driven extension and the socket
- 1/2" square drive
- Order No. TQR-4554







- · Sturdy, durable, lightweight aluminum construction
- Slip-resistant neoprene covered rails
- · Place heads quickly into any position and rotate them easily through 360°
- · Requires no bolts, clamps or adaptors
- 2 piece set Order No. HH-200



Measuring & Inspection Stand

- Length adjusts up to 23"
- · Rotate work to view or measure
- · Solid aluminum frame with self lubricating, corrosion and chemical-resistant wear surfaces
- Order No. PMIS-30

Order 6 or more, Save 10% off jobber

Spray Assembly Lube

- Ideal for lubricating parts to ease assembly
- · Eliminates critical initial run-in of new and rebuilt high-performance engine components
- Spray on bearings, crankshafts, pistons, rings, etc.
- 11 oz. Aerosol* can Order No. SAL-11
- * Hazardous Goods Fees Apply If Shipped By Air





We pride ourselves on getting orders to you quickly. We stock a wide variety of products in our warehouse and we use most shipping carriers so you can receive your order in 3 days or less.

Shawn K, Goodson Shipping, 3 years of service

43 Piece **Deluxe Porting Kit**

- Professional grade porting supplies
- Packed in a clear plastic storage case

09			-	-
333	8 30	00	_	
3	2 8	90	_	
00	98	366	-	
George	40.1511			

Description			Order No. In	cl.
48 Pc. Kit			DPK-100	▼
Replacement Abrasives	Grit	Kit Qty.		
Flap Wheels - 1"x1"x1/4"	120	2	AFW-1-120	X
Cross Buffs 3 Ply, 11/2"	Med.	2	CB-15M-HD	Х
	Very Fine	2	CB-15VF-HD	X
Cross Buff/Flapwheel Man	drel	1	CB-MANDREL	Х
1/4" Dia. Straight	40	2	SCR-250-40	Х
Cartridge Rolls	80	5	SCR-250-80	X
3/8" Dia. Straight	40	2	SCR-375-40	Х
Cartridge Rolls	80	5	SCR-375-80	X
3/4" Dia. Straight	40	2	SCR-750-40	X
Cartridge Rolls	80	2	SCR-750-80	X
1/2" Dia. Half Tapered	40	2	HTR-500-40	Х
Cartridge Rolls	80	5	HTR-500-80	X
5/8" Dia. Full Tapered	40	2	FTR-625-40	Х
Cartridge Rolls	80	5	FTR-625-80	X
Cartridge Roll Mandrel	2 ³ / ₄ " Long	1	CR-275	X
	4" Long	1	CR-40	X
Mounted Points - 3/8" x 3/4"	60	1	GM-B52	X
¹¹ / ₁₆ " x 1	1/4" 60	1	GM-12	Х

See next page for replacement abrasives

small engine

40 Piece **Small Engine**

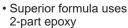


- Professional grade porting supplies
- Packed in a clear plastic storage case

Description				Order No. In	ncl.
40 Pc. Kit				SEPK-5	•
Replacement Abr	asives	Grit	Kit Qty.		
Flap Wheels - 1"x"	1"x ¹ / ₄ "	120	2	AFW-1-120	Х
Cross Buffs 2 Ply	3/4"	Very Fine	2	CB-75VF	Х
	1"	Medium	2	CB-1M	Х
		Very Fine	2	CB-1VF	X
	1 ¹ / ₂ "	Very Fine	2	CB-15VF	Х
Cross Buff/Flapwh	eel Man	drel	1	CB-MANDREL	_ X
3/8" Dia. Straight		80	4	SCR-375-80	Х
Cartridge Rolls		120	4	SCR-375-120	X
		320	4	SCR-375-320	Х
3/8" Half Tapered Cartridge Rolls 80		4	HTR-375-80	Х	
3/8" Full Tapered		80	4	FTR-375-80	Х
Cartridge Rolls		120	4	FTR-375-120	X
1" x 2 Yds. Abrasiv	ve Roll	120	1	UR-1-120	Х
		320	1	UR-1-320	X
Cartridge Roll Mar	ndrel	2 ³ / ₄ " Long	1	CR-275	Х
		4" Long	1	CR-40	X

See next page for replacement abrasives

Intake Port Reshaping



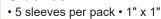
- · Won't shrink when dry
- · Mix ratio is 1:1 by weight
- · Mix and knead the parts together by hand until the yellow and black colors have combined to make a uniform olive green color
- Working time at 70°F: Golfball size mix: 40 minutes max.; Baseball size mix: 30 minutes max.
- Cure time at 70°F: full hardness in 6 to 8 hours
- · Once cured, forms a hard coating resistant to abrasion, impact, water, chemicals and solvents
- NOT for use in contact with potable water or exhaust ports
- · Can be milled or machined
- Withstands temperatures up to 500°F/ 260°C
- · Kit includes epoxy, gloves and mixing sticks
- Yields 16 oz./453.6g of material
- 24 month shelf-life
- Order No. PRK-99



Adhesion of PRK-99 will be only as good as the cleanliness and soundness of the substrate. Remove all dirt, oil and grease. Soda blasting is acceptable. Scraping,

wire brushing and other manual cleaning methods may also work. Do NOT use a petroleum-based cleaner before using PRK-99, it will prohibit adhesion.

Quick Change Mandrels & **Abrasive** Sleeves



• Mandrel has 1/4" shaft

Description	Grit	Order No.
Mandrel		GMS-101
Sleeves	40	GMS-140
5 Pack	60	GMS-160

Variable Speed Control Vary tool speed from

200 to 25,000 RPM Control switch with

3 settings - Variable Speed, OFF and Full Speed

Speed control dial

• 311/2" long grounded cord with standard US plug • Fuse protected · Built in grounded control outlet

- Not compatible with brushless motors
- Order No. GEO-SC

NOTE: Extreme caution must be used when porting & polishing. Be sure to wear safety glasses.

- 1" x 50 yards
- Easy to use ... just unroll and tear to length
- Use with butterfly mandrels at right

Grit	Order No.
60	UR-1-60
80	UR-1-80
100	UR-1-100
120	UR-1-120
180	UR-1-180
320	UR-1-320

Crocus Cloth

- Must be used with Lapping Oil
- Great for final touch-ups on cranks, rod pins, valve stems, cams, etc.
- · Use with slotted mandrels at right

Description O	rder No.
Description	idei ito.
1" x 50 yd. Roll U	R-1-CROCUS
4 oz. Lapping Oil LI	P-LO-4
8 oz. Lapping Oil LI	P-LO-8

Slotted Butterfly Mandrels

· Use with roll abrasives such as those at left • Several lengths available

Length	Order No.
3"	BM-3
6"	BM-6
8"	BM-8

Quality

Order No.

CB-75VF **CB-75M**

CB-1VF

CB-1M

CB-15VF

CB-15M

Cross

Buffs[®]

· Aluminum-Oxide • Box of 10 Grit Dia.

V. Fine

Med. V. Fine

Med.

Med.

V. Fine

Want a different abrasive? We can make it in-house. Contact us for more information!

Replacement Abrasive Packs and Mandrels



Replaceable Roll Lock Discs

10 per pack.				
Dia.	Order No.			
2" Medium	RSCD-2M			
Coarse	RSCD-2C			
3" Medium	RSCD-3M			
Coarse	RSCD-3C			
Disc Holder	Order No.			
2" Dia.	RLH-2			
3" Dia.	RLH-3			



Aluminum Machining Aid

- Designed for aluminum
- For porting & polishing with cartridge rolls, rotary files, emery cloth or Cross Buffs® • Safe for cast iron
- 32 oz./946.4mL
- Order No. PF-32

HazMat shipping charges apply when shipped by air

Straight Cartridge Rolls

- 1½" long, ½" hole
- Fully glued Box of 50

i ui	iy giaca	DOX OF SO
Dia.	Grit	Order No.
1/4"	40	SCR-250-40
	80	SCR-250-80
	120	SCR-250-120
3/8"	40	SCR-375-40
	80	SCR-375-80
	120	SCR-375-120
	320	SCR-375-320
1/2"	40	SCR-500-40
	60	SCR-500-60
	80	SCR-500-80
	100	SCR-500-100
	120	SCR-500-120
3/4"	40	SCR-750-40
	80	SCR-750-80
	120	SCR-750-120

Half-Tapered **Cartridge Rolls**

- 1½" long, 1/8" hole
- Fully glued Box of 50

	, ,	
Dia.	Grit	Order No.
3/8"	40	HTR-375-40
	80	HTR-375-80
1/2"	40	HTR-500-40
	80	HTR-500-80

Full-Tapered Cartridge Rolls

• 1½" long, 1/8" hole

	.,			
	• Ful	ly glue	d • Box of 50	
	Dia.	Grit	Order No.	
	3/8"	40	FTR-375-40	
		80	FTR-375-80	
		120	FTR-375-120	
		320	FTR-375-320	
	1/2"	40	FTR-500-40	
		60	FTR-500-60	
		80	FTR-500-80	
•		120	FTR-500-120	
	5/8"	40	FTR-625-40	
		80	FTR-625-80	

3-Ply		
11/4"	Med.	CB-125M-HD
1½"	V. Fine	CB-15VF-HD
	Med.	CB-15M-HD
	80 6 題	

Flapwheels

- 1" wide, 1/4" x 20 threaded
- · Aluminum-Oxide · 1 each

Dia.	Grit	Order No.
1%"	80	APK-7
1"	120	AFW-1-120
2"	120	AFW-2-120
3"	120	AFW-3-120



Cross Buff® / Flap Wheel Mandrel

· Use with Cross Buffs & Flap Wheels

40010	
Description	Order No.
4" Mandrel	CB-MANDREL
Set Screw (3)	CB-SCREW

Mirrored Safety Glasses

Use with straight and tapered

cartridge rolls • 1/8" pilot x 1/4" dia.

Order No.

CR-275

CR-40

CR-60

CRM-8H

CRM-10H

CRM-12H

Roll Mandrels

OAL

23/4"

4"

6"

8"

10'

12"

- Wrap-around design
- Tinted lenses provide sun glare protection Universal bridge • Polycarbonate lenses • Do not use as welders helpers • Order No. PGL-21

NOTE: Extreme caution must be used when porting & polishing. Be sure to wear safety glasses.

Iron-Clad Guarantee 59

full service

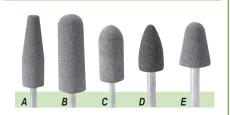
"We do our best to get our inventory on the shelves; professionally and correctly packaged and ready for when you need it."

— Shane, Goodson Receiving Supervisor, 6 years of service



1/4" Shank Carbide FR-45-C Rotary Double Cut Files

Dia.	Length	Shank	Order No.
1/2 "	11//8"	1.1"	FR-34-C
1/4"	1"	1.0"	FR-45-C







1/4" Shank Mounted Points

• Aluminum-Oxide abrasive is ideal for roughing cast iron • 1½" shank length

_	Di-	Land	011	Onder No
	Dia.	Length	Grit	Order No.
Α	3/4"	21/2"	60	GM-1
В	7/8"	23/4"	60	GM-3
С	7/8"	1"	60	GM-11
D	¹¹ / ₁₆ "	11/4"	60	GM-12
Ε	3/4"	11//8"	60	GM-5
F	1/4"	11/16"	60	GM-15
G	3/4"	1"	60	GM-23
Н	1"	1"	60	GM-25
1	5/8"	5/8"	60	GM-26
J	1¾"	1"	60	GM-31
K	1"	1"	60	GM-38
L	3/4"	3/4"	40	GM-40
M	3/8"	3/4"	60	GM-B52
Ν	1½"	11/16"	60	GM-236



Stay Safe:

Always ensure your burr shank is well inserted into your collet and clamped down tightly.

Keep pressure light and keep the burr moving focusing on the highest material first.

Ensure your work is secured tightly to your work

Don't snag or jam your burr into your work.

Wear eye protection as a minimum, but better still, use a full shield for your face.



6" Long 1/4" Dia. Shank Open Fluted Rotary Files for Aluminum

- Carbide burrs
- Open flute design gives better chip discharge

	Dia.	Length	Order No.
Α	1/2"	1"	LAFR-34
В	3/8"	3/4"	LAFR-45
С	1/2"	⁷ /16"	LAFR-55
D	1/2"	7/8"	LAFR-70
Ε	1/2"	1"	LAFR-93
F	3/8"	11/16"	LAFR-121



6" Long Shank Double Cut

Carbide Rotary Files

• 1/4" diameter shank

	Dia.	Length	Order No.	Incl.
Co	mplete	5 Pc. Kit	LFR-KIT	•
Α	1/2"	1½"	LFR-34C	X
В	1/4"	1/2"	LFR-45C	X
С	1/2"	1/2"	LFR-55C	х
D	1/2"	11/16"	LFR-46C	Х
Е	1/2"	1¾6"	LFR-141C	х

Save when you

buy the kit!



1/4" Carbide Rotary Files

- · Nose design reduces back-gouging
- 1/4" shank Shanks 4" long except MRT-56C at 6" long

			<u> </u>
	Dia.	Lgth.	Order No.
Α	.375"	1.000"	MSH-34C
В	.437"	.875"	MSE-44C
С	.500"	.975"	MRT-54C
D	.500"	1.000"	MRT-56C

	Dia.	Lgth.	Order No.
Ε	.500"	.880"	MSE-54C
F	.500"	1.000"	MSF-54C
G	.500"	1.245"	MSH-54C



Bifocal Magnifying Safety Glasses

- Safety glasses and cheaters all in one
 Anti-fog lenses
- Do not use as welders helpers

Diopter	Order No.
1.00	BSG-100
1.25	BSG-125
1.50	BSG-150



Mirrored Safety Glasses

- · Wrap-around design
- Tinted lenses provide sun glare protection
- Universal bridge
- Polycarbonate lenses
- Do not use as welders helpers
- Order No. PGL-21

483/4"

dimensional Dual Overhead Cam Cylinder Head **Organizer Tray**

- Store valves, springs, retainers, keepers, valve lash adjusters & camshafts • Keep valve lash adjusters from getting mixed up and changing valve adjustment
- Heavy duty construction
- · Oil and solvent resistant
- Measures: 23¹/₄" x 26¹/₂" x 2"H
- Order No. DOHC-1



261/2

10% off jobber,

Mix or match trays to make quantities



Stackable Cylinder Head Organizer Trays

- · Store valves, springs, retainers and keepers in order of assembly • Impervious to oil and most solvents
- Measures 28" x 121/2" x 3"H
- Order No. SHO-8



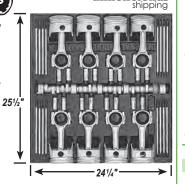
Valve Train Tray For 4, 6 or 8-Cylinder **OHV Engines**

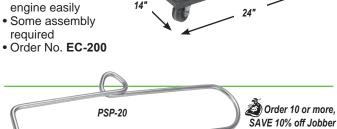
- Heavy duty construction
- Keeps push rods, rockers, 231/4 lifters, etc. in order
- 64 compartments
- Measures:
- 117/8"W x 231/4"L x 13/4" H
- Order No. VTO-80



Ford/Chevy Small **Block Organizer Tray**

- · Store pistons, rods, lifters, push rods & camshafts
- Formed compartments keep engine components securely in place
- Measures: 24¹/₄" x 25¹/₂" x 1¹/₂"D
- Order No. iEO-80





Parts Storage

Organizer Safety Pins **Keep Part Sets Together**

Fop tray features 1" deep

lip to keep parts from

Solid steel hangers

hold piston rods and

moving the engine

Heavy duty casters make

Engine

Storage Cart An efficient space-saver · Heavy-duty casters Holds all engine parts off the floor

from tear-down to reassembly in less than 4 square feet · Move the whole

rolling off

crankshafts

and cart easy

Parts Safety Pin • Organize valve springs, rods, etc., from disassembly to cleaning to reassembly

RSP-10

Rod & Cap Mini Pin • Keep connecting rods & rod caps together to prevent mix-ups

Description	Order No.
Parts Safety Pin (3¾" x 12")	PSP-20
Rod & Cap Mini Pin (3/4" x 4")	RSP-10

Parts Tags & Marker

- · Won't tear or wash off
- Tough enough to go through a jet wash or hot tank
- Includes 2 Super-Permanent markers with specially formulated ink to withstand

most chemicals and extreme heat and steam up to 500°F

Description Order No. IDT-1000 1000 Parts tags, with 2 markers Super-Permanent Marker only IDT-MARKER



- Heavy wire ties

• Tag dimensions: 31/2"L x 5/8"W with 5/32" hole for wire tie



Brass or Steel Shim Stock Assortment Packs

- A handy assortment 4" x 6" each (120 sq. in.)
- One each of .001", .002", .003", .005", .010" thick

Description	Order No.
Brass	SSB-50
Steel	SSS-51







Premium Tapered Reamer

· Use by hand or with a

• 5/8" x 11 thread outside,

7/16" x 14 thread inside

• Order No. EMP-34

powered driver to deburr or enlarge tapered holes for valve guides, bolt hole chamfering and more • Use in 1/2" chuck at approximately 40 RPM for best results • OAL: 53/4"

- Flute length: 33/4" Small End: 1/8" dia. Large End: 1/2" dia.
- Degree of Taper: 2.86° Hardened and tempered steel with precision ground cutting edges • For steel, brass, aluminum, plastic, wood and more
- Order No. TR-216-1



Description	Order No.	Incl.
Stud Boss Facer	SBF-5587	•
Stud Boss Facer Tip (each) for SBF-5587 only	SBF-5587T	X
Stud Boss Facer Screw (each)	SBF-5587S	Х
Replacement Stud Boss Facer ¾" Pilot (optional)	SBF-5587P	



15/16" diameter

.060'

radius

Replaceable carbide blades

Head Bolt Spot Facer

- · Spot face head bolt seat parallel to new deck surface after angle
- Allows proper head bolt torquing
- Cutting tip radius matches OE design to avoid stress points and cracks • .468" shank with flat
- Use with 7/16" Pilot below
- · High Speed Steel construction

Description	Order No.
Spot Facer	HBF-15
7/6" Pilot	GFP-437



- Required when using the Van Norman VN 530 / 570 or Storm-Vulcan 850 Storm-Mill Rotary Broaches
- Two plate set Includes fasteners
- Order No. VN-VOR





Chevy Conversion Plate Set

- · Convert early model, 6-bolt heads for late model, 7-bolt applications
- Works with stock exhaust systems
- · Use the standard exhaust manifold gasket or seal with High-Temp Silicone
- Order No. CHC-10

shipping

Parts Storage & Cleaning

Organize, Clean **And Store Small Parts With** GOODSON

Small Parts Baskets

- · Galvanized, welded 1/4" mesh
- Withstands most solvents
- · Not for use in caustics



Medium **Basket** with Lid

- 41/2" dia. x 7" L
- Order No. PWB-4



Single Basket with Handle

- 8.75" OD x 8.5" H
- · Lid & clip sold separately/
- Order No. PWB-10

Single Basket with Lid, Clip & Handle

- 8.75" OD x 8.5" H
- Order No. PWB-15



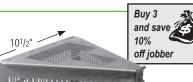


- Lid & Clip
- For PWB-10
- Order No. PWB-10L

Clip Only



diameter





- Triangle-shaped Sit side by side on Jet Wash table
- Fit more baskets in the machine to clean faster
- Order No. JWB-6







Engine & Parts Storage Bags

- Rugged, 3-mil thickness resists tearing
- Engine bags feature 4-mil thickness for extra strength
- Protects your professional work
- Waterproof Protect finished work from damage
- Jumbo engine bags are extra-strong and big enough to fit complete engines
- Jumbo head bags fit the largest heads
- · Ideal for storing heads, cranks, blocks, etc.

Description	Size	Thickness	Qty.	Order No.
Heads, Cranks	16" x 37"	3-mil	100	BC-15
			10	BC-15-10PK
Jumbo Head	17" x 44"	3-mil	100	BC-17
			10	BC-17-10PK
Box-Style	27"x18"x36	5" 3-mil	50	BE-20
			10	BE-20-10PK
Jumbo Engine	44" x 52"	4-mil	50	BE-44
(Imprinted)			10	BE-44-10PK

Shrink Wrap

- · Easy-to-use
- High-clarity film
- Keep machined surfaces clean
- · Protects from dirt, dust and moisture
- · No need to stock several bag sizes

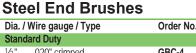
Size	Order No.
5" x 1000' w/ Extended Core	SW-5
18" x 1500' with 3" core	SW-18





- Nitrile exterior with diamond grip pattern
- Flock lined Won't swell 13" long
- · Safe for solvents · Sold as pairs

Size	Order No.
Large	PWG-SOL-L
X-Large	PWG-SOL-XL
XX-Large	PWG-SOL-XXL



Dia. /	wile gauge / Type	Oraci No.
Stand	ard Duty	
1/2"	.020" crimped	GBC-4
3/4"	.020" crimped	GBC-6
1"	.020" crimped	GBC-10
11/2"	.020" crimped	GBC-14
13/4"	.012" crimped	NH-16
23/4"	.012" crimped	NH-26
13/4"	.014" galv. for alum.	ANH-16
23/4"	.014" galv. for alum.	ANH-26
Ultra I	Outy (listed left to right)	
1/2"	.014" crimped	GBC-4A
11/8"	.020" knotted, 11/4"L	GBC-12
11/8"	.020" knotted, 7/8"L	GBC-12HD
3/4"	.020" knotted	NH-6



GBC-6

GBC-4

GBC-10



GBC-14

ANH-16





NH-26 ANH-26

Engine Prep Brushes

g	
Application	Order No.
For small feed hole in block	After Marie
1/4" x 2" x 10", nylon	OB-1
For Block Oil Return Line	Alle Miles
5∕16" x 21⁄2" x 12", nylon	OB-2
Like OB-2 but more flexible	1997
5/16" x 21/2" x 12", nylon	OB-2A
For Block Oil Return Lines	Miller
3/8" x 21/2" x 12", nylon	OB-3
For diesel injector	100
13/4" brush, stainless	DIB-1
For lifter bores	LDD 400
1" x 3" x 14", nylon	LBB-100

Nylon Bristle Oil Gallery Brushes

•		
Desc.	Order No.	
5-pc. Kit	OGB-KIT	•
3/8" x 3" x 34"	OGB-38	X
½" x 2½" x 34"	OGB-42	X
5⁄8" x 3" x 34"	OGB-5	X
³ / ₄ " x 3" x 34"	OGB-7	X
3/4" x 3" x 40"	OGB-8	X

1/4" Shank Steel Brushes

DEB-2

Dia. Wire Gauge Grade Ord	der No.			
1/4" .012", 6" long Economy DER	B-1			
	B-2			
Flare Brush use to remove carbon from engine ports				
½" ball, 5/16" cable Ultra-duty DER	B-3			
Port Brush as brush wears cut back spring for new wire				
,	B-4			
/-	B-5			
Cup Brush 5/8"-11 NC - fits standard 41/2" angle grinder				
3" .014" twisted Ultra-duty WC	CB-30			
4" .014" twisted Ultra-duty WC	CB-40			

Order 10 or more brushes, (any combination) take 10% off jobber



Manual Guide Cleaning Brush

- 1/2" Dia. Nylon bristles
- OAL: 8¾"
- Order No. **WCB-44**

Round Fiber Parts Brush

- 11" long Nylon bristles
- Plastic Handle
- Order No. **PCB-348**

Nylon **Lifter Bore Brushes**

Dia.	Job	Order No.
7/8"		LBB-875
1"		LBB-100
1 ¹ /8"		LBB-1125



Nylor	n Bore Wash	ing Brushes
Dia.	Length	Order No.
2"	36"	CBB-200
21/4"	36"	CBB-225
21/2"	36"	CBB-250
23/4"	12"	CWB-27W
3½"	18½"	CWB-35
4"	18½"	CWB-40
4½"	18½"	CWB-45
5"	18½"	CWB-50

Flow Through **Parts Washing Brush**

- 24" long hose slides over discharge nozzle on parts washer
- Order No. PWB-FLO-1

Valve Guide Brushes

		Steel	Brushes	Nylon	Brushes
	Size	OAL	Order No.	OAL	Order No.
	5/16" x 21/2"	91/2"	GVP-1	12"	GVP-1N
	11/32" x 21/2"	91/2"	GVP-2	12"	GVP-2N
	3/8" x 21/2"	91/2"	GVP-3	12"	GVP-3N
	½" x 2½"	91/2"	GVP-4	12"	GVP-4N
	½" x 2½"			101/2"	GVP-5N
	%16" x 21/2"			101/2"	GVP-6N
	3mm x 11/4"			8"	GVP-7N
)	4mm x 11/4"			8"	GVP-8N
	5mm x 11/4"			8"	GVP-9N
	6mm x 11/4"	8"	GVP-10S	8"	GVP-10N
	7mm x 11/4"	8"	GVP-11S	8"	GVP-11N

Nylon **Pushrod Brush**

Steel Wire

Desc.

3-pc. Kit

1/4" x 3" x 24"

3/8" x 3" x 24"

5/8" x 3" x 24"

Oil Gallery Brushes

Order No.

OGB-2

OGB-3

OGB-SK ▼ OGB-1

X

5 Pc. **Nylon**

Valve

Guide

Brush Set

· Complete set

includes 5 popular

nylon brush sizes

• From 5/16" to 1/2" dia.

• Order No. GVP-SET

- · Clean the inside diameter of your pushrods with this brush
- Fits pushrods as small as .080" ID
- 12" overall length
- Order No. PRB-80



Order 10 or more brushes, (any combination) take 10% off jobber

Radial Wire Brushes

- American made oil tempered high carbon steel wire
- High density for faster cleaning and longer life
- Excellent balance
 ½" 5/8" arbor

Size	Wire	Duty	Order No.
	.014" Crimped		ADA-6
7" x 1/8"	.014" Crimped	Heavy	DA-7
6" x 1/16"	.016" Twisted	Super	TS-6
8" x 3/4"	.016" Twisted	Super	TS-8
6" x ⁷ /16"	.023" Knotted	Ultra	QTC-6



Super Scraper™

- · Remove gaskets, carbon, rust, paint, etc.
- Precision-ground solid carbide-tipped, doubleedged blade lasts longer than plain steel
- Nickel-chrome ½" thick steel shank • For all metals including aluminum

Width	Order No.	Incl.
3 Pc. Set	SS-SET	•
5 / "	SS-4U625	Х
11/4"	SS-4U	Х
2"	SS-4U2	Х



BRM

Super Heavy Duty Double-Fill Cylinder Block Washing Brushes

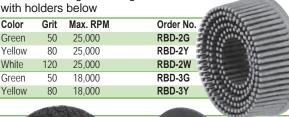
- · Highly aggressive
- Long lasting
- .050" Nylon bristles

Diameter	Order No.
4" (101.6mm)	CWB-40DF
4 ¹ / ₂ " (114.3mm)	CWB-45DF

3M™ Roloc™ Bristle Discs

- Effective on cast iron, yet safe for aluminum
- · Less aggressive than wire wheels
- · Abrasive grains embedded in flexible plastic bristles that break down exposing new grain
- · Bristles flex to maintain contact with contoured surfaces for faster, more thorough cleaning
- Use with holders below

Size	Color	Grit	Max. RPM	Order No.
2"	Green	50	25,000	RBD-2G
	Yellow	80	25,000	RBD-2Y
	White	120	25,000	RBD-2W
3"	Green	50	18,000	RBD-3G
	Yellow	80	18,000	RBD-3Y





Surface Conditioning Discs

Use with holders at right

	oo wiiii iiola	oro at rigint
Dia		Order No.
2"	Medium	RSCD-2M
	Coarse	RSCD-2C
3"	Medium	RSCD-3M
	Coarse	RSCD-3C



Roloc-Type Holders

- Use with Surface Conditioning Discs (left) and Bristle Discs (above)
- Threaded

Size	Order No.
2"	RLH-2
3"	RLH-3

Engine Rebuild Brush Kit

- Includes the brushes you'll need for an average engine job
- · A great starting place, then add more brushes as you need them • Replacement brushes available

Description	Order No.	
Standard Brush Kit - 10 Pc. Kit	BG-KIT	•
4" Nylon Cylinder Washing Brush	CWB-40	X
11/32" Nylon Valve Guide Brush	GVP-2N	X
¾ " Nylon Valve Guide Brush	GVP-3N	X
Lifter Bore Brush	LBB-100	X
Small Nylon Feed Hole Brush	OB-1	X
Block Oil Return Line Brush	OB-2	Х
3/8" Oil Gallery Brush	OGB-38	X
½" Oil Gallery Brush	OGB-42	X
%" Oil Gallery Brush	OGB-5	X
Round Fiber Parts Brush	PCB-348	Х

Disposable Assembly Wipes

- · Blue. low lint wipes
- Pop-up box
- Hard-wearing
- Tear-resistant
- · Ideal for a multitude of uses at the shop, at the track, even at home! • 100 per box
- Order No. AW-100B



"Did you know that Goodson still ships orders COD? If you prefer not to use a credit card or set up an open account, you can still order from Goodson. Ask us about COD."

- Wendy, Goodson Accounting, 36 years of service





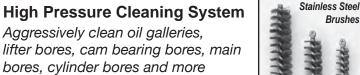
Water Pressure Button - 110°F Max Air Pressure Button 125PSI Max

Stainless Steel wand will not corrode

Threaded to make brush changes quick & easy

Air/Water outlet holes are drilled in a spiral pattern to create a swirling motion to enhance the wand's cleaning power.





bores, cylinder bores and more

· Ergonomically designed pistol grip with easy to reach controls

· Incorporates the aggressive cleaning action of a stainless steel brush with the hydro action of a specially designed water manifold to be used with your shop air to quickly and easily clean the oil gallery holes in gas and diesel engines

Stainless steel brushes are standard with the kits

Do NOT use with caustics • 110°F max water temp.

Description	Order No.	Incl	
36" Cleaning Wand Kit	HPOG-1000		▼
18" Cleaning Wand Kit	HPOG-1018	▼	
36" Cleaning Wand	HPOG-W36		X
18" Cleaning Wand	HPOG-W18	X	
3/8" Stainless Steel Cleaning Brush	HPOG-375	X	X
1/2" Stainless Steel Cleaning Brush	HPOG-500	Х	X
5/8" Stainless Steel Cleaning Brush	HPOG-625	X	X
8-32 Thread Adaptor	HPOG-832ADF	X	X

device to scan the code at right for instant access.



Scan the code at right with your smart phone or other smart device for fast access to the product video on the Goodson website







Defoaming Agent Stops Foaming In Coolants

- For jet washers, air-agitated hot tanks and coolant sumps
- Highly concentrated start with 1 ounce in 50 gallons

Size	Order No.
8 oz. / 236.6mL	D-FOAM-10
1 gallon / 3.78L	D-FOAM-128





Micro Biostat

- · Controls bacteria and fungus in coolant reservoirs
- Treat at 1 oz. per 5 gallons of capacity
- Operate machine for 30 minutes then empty the reservoir
- Refill with coolant and treat 1 oz. per 10 gallons
- Re-treat every 10 days to 2 weeks as needed so it can't happen again
- 16 oz. / 473.2mL bottle
- Order No. GBP-20

Stay Up-To-Date With Your Friends At Goodson!

We're On Social Media Are You?



Facebook







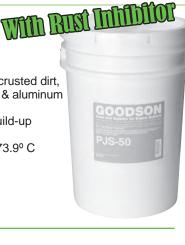


Pro Jet Spray Cleaning Powder

- Heavy-duty Non-caustic
- · Penetrates to emulsify encrusted dirt, grease and oil on cast iron & aluminum
- Won't foam excessively
- Additives prevent scale build-up in jet spray components
- Use to maximum 165° F/ 73.9° C

GOODSON

- Mix ratio: 4 oz. powder to 1 gallon of water • pH: 12
- 40 lb. / 18.14 kg pail
- Order No. PJS-50





Concentrated Hot Tank Detergent Powders For Non-Ferrous Parts

- · Safe on aluminum & sensitive metals, rubber & plastic parts
- Removes heavy grease and oil
- 50 lb. pail pH: 12.85
- Mix ratio: 1/4 lb. powder to 1 gallon of water
- Order No. D-AL50

pH Test Strips

- Easy to use 100 tests per package
- Use the handy guide on the box to determine pH between 0 and 14
- Order No. HT-PH





Pay attention to the mix ratio on cleaning products!

It's important that you start mixing on the weak side and work your way up. An overly strong concentration is just as ineffective as an overly weak mixture. Use pH Test Strips to check the concentration.

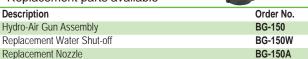


Water Shut-Off Valve

Hydro-Air Gun

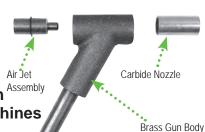
- · Hold by the air supply hose
- Use with hot or cold water
- The grip stays cool even
- when spraying hot water Maintenance free design
- · Compact for reaching into tight areas

Replacement parts available





67



Glass Bead Gun for Smaller Machines

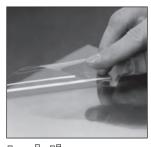
... another

- Solid brass body
- Fits Trinco, Econoline, etc.
- Includes Gun Body, Nozzle and Air Jet Assembly
- Replacement parts available

·	
Description	Order No.
Complete Gun For Smaller Machines	GB-113
Replacement Parts	
Gun body only	GB-111
Carbide nozzle 19.05mm OD, 7.94mm ID	GB-204
Air jet assembly 3.97mm ID, 25 CFM	GB-330

Glass Bead Cabinet Window Film

- · Protects the inside of glass bead cabinet windows
- Save time and money replace the film rather than the glass • 24" x 10' roll
- Order No. GB-FILM

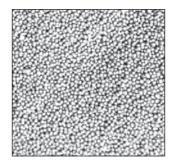




For best results, attach film to cabinet window with ordinary double-faced tape (not included).

Glass Beads

- · Clean parts thoroughly without removing material
- 50 lb. bag Size #8
- Safe for ferrous & non-ferrous materials
- Order No. GB-CM



ARMEX® Maintenance XL Formula Soda Blast Cleaning Media

- 270 micron / 70 Grit Formula
- Use to strip clean almost any car surface including, steel, aluminum, Fiberglas® and plastics
- Ideal for blocks, heads and intake manifolds
- Dissolves in warm water, minimizing particle ingression that can block fuel lines and passageways
- Won't damage the surface you're cleaning
- Non-toxic and non-hazardous with a pH of 8.2
- 50 lb. / 22.7 kG bags
- Order No. SMB-170



- Aluminum body
- Fits Zero, Blast-It-All, Winona Van Norman, etc.
- Includes .313" ID ceramic nozzle

Description	Order No.
Complete Gun For Larger Machines	GB-100
Replacement Parts	
Gun body only	GB-101
Barbed Brass fitting	GB-04
Nozzle holding nut (not included in rebuild kit)	GB-54

Data del 179		0.4	-	1.	1	_
Rebuild Kits		Order No.	II	nclu	ıae	S
.250" ID		GB-4-OK				\blacksquare
.313" ID		GB-5-OK			▼	
.375" ID		GB-6-OK		•		
.437" ID		GB-7-OK	▼			
Ceramic Nozzles	.250" ID	GB-74				X
%" OD x 1%"	.313" ID	GB-75			X	
	.375" ID	GB-76		X		
	.437" ID	GB-77	X			
Replacement Orifices	#4	GB-64				X
	#5	GB-65			X	
	#6	GB-66		X		
	#7	GB-67	X			
Orifice Lock Nut		GB-52	X	X	X	X
O-Ring		GB-53	X	X	X	X



- 30" overall length
- For ports up to 10" diameter
- Durable cloth-lined Neoprene glove with nylon sleeve
- Sleeve design makes attaching glove to your machine, faster and easier • Clamp sold separately

Port Size	Description	Order No.
Up to 8"	Single: left-hand glove	GB-654-G
(20.32 cm)	Single: right-hand glove	GB-655-G
	Pair: one right-hand & one left-hand	GB-660-G
	Pair+: one right-hand, two left-hand	GB-663-G
Up to 10"	Single: left-hand glove	GB-754-G
(25.4 cm)	Single: right-hand glove	GB-755-G
	Pair: one right-hand & one left-hand	GB-770-G
8" and 10"	Replacement Clamp: fits both port sizes	GB-CLAMP

SAFETY TIP: NEVER point the Glass Bead Gun at the cabinet window or your co-workers!

Cleaning Media

For Parts Tumblers



Ceramic Diagonals (20 lb.) For soft materials such as brass and aluminum. 5/16" dia., 5/8" long Order No. PTM-20CR



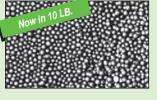
Steel Diagonals (20 lb.) Ideal for valves. 5/16" dia., 5/16" long Order No. PTM-20D

Parts Tumbler Solution

- Dilute 30:1 with water
- For best results, dry parts with compressed air • 1 gallon / 3.78L
- Order No. PT-SOL



Steel Shot, 170 grade (55 lb.) Ideal for cleaning cast iron heads. Diameter varies from .017" to .024". Order No. SS-CM



For Airless Blasters

Stainless Steel Shot, Conditioned Clean aluminum heads to look like new. Restores bright aluminum finish. Lasts longer than plain carbon steel shot. Diameter varies from .006" to .016".

Order No. SS-CS10



Stainless Steel Cut Wire Shot

Unconditioned. Clean cast iron or aluminum heads before and normalize after welding. Helps prevent surface corrosion after blasting. .020" Diameter. 10 lb. Order No. SS-CW10



Screws closed

Ideal for tumbling

Solvent resistant

• Order No. VK-15

tightly

• 1/4" holes

keepers

PVC

See Pages 130 for Keepers

Valve Stem

Protectors

See Page

Valve Stems

135 for

- Protects against parts tumbler damage
- · Slips on and off easily
- 16 per package
- Order No. VSP-16



Replacement Gears For Sioux™ 710 Parts Tumbler

 Replaces discontinued Sioux™ parts

Description	Order No
Steel Gear	271
Fiber Gear	19275

Hot Tank Gloves

Resistant

Gloves, p. 95

Heat

- One size fits most
- Sold in pairs
- Neoprene fully coated with knit lining
- Shoulder length features eyelets & strings at tops to prevent slipping

Description	Order No.
Gauntlet Length (14" long)	HTG-200
Elbow Length (18½" long)	HTG-200E
Shoulder Length (34½" long)	HTG-200L

Cloth **Shop Apron**

- Bib-style apron
- Heavy duty black fabric
- Several handy pockets



Full Length Neoprene Shop Apron

- Protects from caustics, steam, grease and oil
- Order No. HTA-300

Hot Tank Gloves (above)



Steel Parts Tumbler Basket

- Fits Goodson, K.I., Axe, RMC, and Peterson
- 8" x 12" x 12"
- Order No. PT-BASKET

"I enjoy doing business with Goodson. The website is easy to navigate and

Mix or Match to SAVE!

Order 12 or more cans, save 10% off Jobber



Last Blast Spray Paint

- Quick-dry formula lets you handle parts in minutes
- Pigment won't smudge AND resist abrasion, corrosion and most solvents
- · Paint heads, blocks and parts just like OE
- Withstands heat up to 250°F/121.1°C
- 12 oz. cans
- · Last Blast restores an original look to all types of cast iron
- · Aluminum Last Blast makes aluminum heads and parts look new
- Color Last Blast paint heads and parts in popular, factory colors
- Hi-Temp Last Blast Withstands continuous heat up to 1200°F.
 Heat at 450°F for 1 hour to create a professional, durable finish

Color	Order No.	
Cast Iron Gray	LB-1*	
Aluminum Gray	ALB-1*	
GM Black (Gloss)	CLB-58*	
Chevy Orange	CLB-61*	
Ford Blue	CLB-60*	
Hi-Temp Cast Iron Gray	LB-1-HT*	
Hi-Temp Aluminum Gray	ALB-1-HT*	
Hi-Temp Black (Matte)	CLB-58-HT*	
Mix or Match Quantities to SAVEL Order 12 cans, save 10% off Johber		

Mix or Match Quantities to SAVE! Order 12 cans, save 10% off Jobbe

*Aerosol — Hazardous Goods Fees Apply When Shipped By Air



Industrial Metal Markers

- No shaking needed Quick dry
- Withstands oil, grease & surface contact • Won't lose its brilliance or legibility
- Medium point

Color	Order No.
Orange	MM-STD
Black	MM-010
Yellow	MM-030
White	MM-050
Green	MM-060
Red	MM-070
Blue	MM-080

Mix or Match Quantities to SAVE! Order 5 or more, save 10% off Jobber

2" Dispensing Pliers for Flexible Tubes

lor Last Blast

_B-61 yy Orange

- Maximizes the use of all the material in the tube due to its effective means of application
- Dispenses the thickest sealant through a very small opening, permitting better application control
- Reduces both cleanup time and the possibility of skin contact or other problems caused by excess material squeeze-out
- Order No. EB-416

e Hylomar®

Universal Gel Lube

- Sprays on as a liquid and forms into a gel within seconds
- Penetrating formula blends with motor oil
- Multiple uses, including cams, lifters, rocker arms, bearings, pistons/wrist pins, cylinders, valve springs, etc.
- Provides lubrication for engines subjected to prolonged storage before initial start-up
- 8 oz. Aerosol* can
- Order No. GL-8U

Order 6 or more, Save 10% off jobber

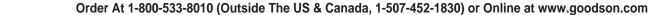


*Hazardous Goods Fees Will Apply if Shipped By Air

High-Performance Hylomar[®] Gasket Maker & Thread Sealer

- Maintains seal integrity up to 600°F / 315.5°C
- Polyol-based compound turns from a gel into flexible putty within minutes of application
- Non-hardening formula is impervious to oil, gasoline, glycol and other engine fluids
- Oxygen-sensor safe
- Seals gaps .01" or less
- 100 gram tube
- Order No. HBS-1





Order 6 or more, Save 10% off jobber



- · A light coat eases press fit
- Ideal for valve guides, piston pins, cylinder sleeves, etc.
- · Eliminates the scoring, gouging and galling of parts during press fitting
- 6 oz. / 177.4mL Aerosol*
- Order No. PFL-200

*Hazardous Goods Fees Apply When Shipped By Air





- · A light coat eases press fit
- Multiple applications
- Eliminates scoring, gouging and galling of parts during press fitting

<u> </u>	
Description	Order No.
Aerosol 7 oz. / 207 mL	B-200*
Brush Applicator 200 mL	B-200L
* Hazardaya Caada Easa Annly Mhan	

Hazardous Goods Fees Apply When Shipping By Air



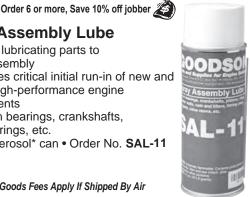
Extreme Pressure Lube

- Withstands pressures up to 50,000 PSI
- · Highly refined petroleum product
- · Contains no lead, graphite or minerals
- · Won't corrode fine surfaces or emulsify with cooling liquids
- · Surfaces stay lubed and protected
- In a grease form 4 fl. oz. / 118.29mL
- Order No. EPL-4

Spray Assembly Lube

- Ideal for lubricating parts to ease assembly
- · Eliminates critical initial run-in of new and rebuilt high-performance engine components
- · Spray on bearings, crankshafts, pistons, rings, etc.
- 11 oz. Aerosol* can Order No. SAL-11





First Lube **Engine Assembly Lube**

· Prevent dry engine start-ups

- after long-term storage
- · Contains Zinc and Moly
- Clings and forms a slick wall between moving parts
- Withstands start-up pressure
- · Compatible with all motor oils

·	
Size	Order No
8 oz. / 236.6mL	FL-10
1 gallon / 3.78L	FL-128

Blood Friction Master® Engine Assembly Lube

- Contains a low friction additive (PTFE) for dry start-ups
- Ideal for long-term storage
- Forms a slick wall between moving parts
- Clings until dissolved by oil
- · Withstands start-up pressure
- Compatible with all motor oils
- · Ideal for high performance

Size	Order No.
8 oz./236.6 mL w/brush	AL-22-8
1 gal./3.78 L w/pump	AL-22-10

GOODSON

SHAFT ASSEMBLY PASTE

GOODSO

FL-128

V-TWIN & METRIC HARD PARTS

Need Zinc?

Cam-Shield® Camshaft **Assembly Paste**

- Provides anti-wear protection for camshafts during break-in
- 2500 parts per million of Zinc • Use with mechanical and
- hydraulic camshafts & lifters
- For racing, street, classic, agricultural, diesel & marine camshafts
- 4 oz. / 118.29 mL Brush Top Jar
- Order No. CSAP-4

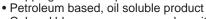


Mr. Race Oil® **Engine Assembly Gel**

- For all 4-stroke engines!
- An advanced engine assembly gel designed to stay in place for engine protection during storage, shipping and start-up time
- · Colored blue so you can see where it's applied
- 8 ounce jar Order No. EAG-8











Rust Shield Spray

- 2 formulas to choose from **Short Term (Indoor)**
- Non-sticky Lasts several weeks
- Wipes off with just a towel Long-Term (Outdoor)
- Thicker than short term
- Protects longer
- Requires a solvent to remove

rioquiros a sorrorit to romoro	
Formula	Order No.
Short Term	RS-16*
Long Term	RS-16-OD*

*Hazardous Goods Fees Apply When Shipped By Air

Rust **Proofing** Oil

- 1 Gallon / 3.78 L
- Apply full strength
- Creates a protective film
- · Washes off with standard solvents
- Brush or spray on
- Order No. RPO-10

Rust Shield for Shop Equipment

- Stops rust without causing rancidity
- Apply to machine parts

GOODSON

RS-128

- Mixes with coolant no need to remove before machining
- 1 Gallon / 3.78 L
- Order No. RS-128

Petroleum Based Rust Inhibitor

- Brush directly from can onto freshly-machined engine components
- · Protects iron, steel and aluminum
- · Soften with mineral oil to dip small parts
- Order No. RPC-2A



OOD



Universal **Coolant Magnet**

· Ideal for Honing Tanks, Flywheel Grinders.

Crankshaft Grinders, Head Surfacers and more

- Prevents metal swarf from passing into the coolant tank
- Cut or shape to fit machine bases and return ways
- Measures 3"x48" Can be trimmed to any size needed
- Order No. UCM-348

Ideal for Parts Washers

Snap Together Adjustable Coolant Hoses

- · Hoses hold any shape · Chemical Resistant
- Ideal for most common shop machines

GOODSON

RPO-10





Application: Most parts washers, wet-type seat grinders, valve refacers

Order No.: ACH-400



Size: 1/2" Hose Kit 16¹/₂" hose, ³/₈" & ¹/₂" NPT Includes: fittings, 1/4", 3/8" & 1/2" round nozzles

Application: Most cylinder hones and flywheel grinders

Order No.: ACH-600



Size: 1" Flare Nozzle for 1/4" Hose

Order No.: ACH-407

Size: 11/4" Flare Nozzle for 1/2" Hose

Order No.: ACH-807



Size: 21/2" Flare Nozzle for 1/2" Hose Order No.: ACH-809







Hose ID Lng.	Order No.

NPT	Hose ID	Order No.
1/4"	1/4"	ACH-406
3/8"	¹ /2"	ACH-804
1/2"	¹ / ₂ "	ACH-805

1/4" 11" ACH-4	No.
	01
¹ / ₂ " 11" ACH-8	01

Coolant & Solvent Pumps

170 Gal. **Per Hour** Pump

• HP: 1/125

• Capacity: 170 gal/hr. at 1" depth • Hi-temp Seals

Voltage: 115

• Size: 4" x 31/4" x 23/4" Order No. COP-166

Ideal for Flywheel Grinders 1200 Gal. Per Hour Pump • HP: 1/6

Capacity: 1200 gal/hr. at 1" depth

Voltage: 115

• Size: 7¾" x 61/6" x 45/16"

• Order No. **COP-1833**

Sludge Filter Bag

- Fits any machine with a coolant sump
- Replace costly OE filters with this economical, universal sock
- · Adds filtration to machines that don't have enough • 8" x 24" polyester knit sock
- Order No. SB-1



EPL-18



1/4" Replacement Fitting

1/8" Replacement Fitting

New design may affect pricing

Replacement Gauge

Mini Ball Valve



lots of length to work with

Replacement **PF Filter Cartridges**

8' long, 1/4" diameter hose gives you

• Cartridges remove grit, metal and dirt from honing oil

• Fit Sunnen® CK-10, CV-616, LBB-1810, PF-150 and CH-100 honing machines

		0	2000
Description	Application	Qty.	Order No.
Extra Fine	Oil Only	4 Pk.	PF-105-4
Fine	Oil Only	4 Pk.	PF-110-4
Extra Fine	Water Only	1 Pk.	PF-104
Fine (Fiberglass)	Water Only	1 Pk.	PF-160

Machine Capacities		
Mfr.	Machine	Capacity
Sunnen	LBB-1699	15 Gal.
	LBB-1660	15 Gal.
	LBB-1810	25 Gal.
	LBB-1803	25 Gal.
	EC-3500	32 Gal.
	ML-3500	32 Gal.
	ML-5000	32 Gal.
	ML-2000	28 Gal.
	CK-10	55 Gal.
	CV-616	55 Gal.
	SV-10	55 Gal.
	CK-21	63.5 Gal.

Machine Capacities		
Machine	Capacity	
H85AXY	70 Gal.	
H85A	70 Gal.	
H85AX	70 Gal.	
H86A	70 Gal.	
H86AX	70 Gal.	
H86AXY	70 Gal.	
	Machine H85AXY H85A H85AX H86A H86AX	



1" Thick Rod Hone Filter Mat

EPL-14

EPL-18

EPL-CG

EPL-MBV

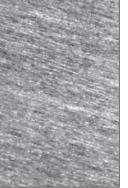
- Synthetic material
- · Traps abrasive particles & metal filings BEFORE they enter the storage tank
- Cushions parts to prevent damage
- Replace when clogged
- 1" (25.4mm) thick

Inches	Metric	Order No.
18" x 25"	45.7 x 63.5 cm	RH-MAT
26" x 40"	66.0 x 101.6 cm	RH-MAT-2
33" x 48"	83.8 x 121.9 cm	RH-MAT-3

Hone Cabinet Filter Paper

- · Reduce sump and filter clean-up
- Extend oil life
- Filter paper in the bottom of hone machine removes debris before oil enters the sump
- When full, dispose of properly
- 2 60" x 60" sheets (trim to fit)
- Order No. HN-FP







Coolants and Lubricants

We don't stock one type of coolant and claim that it suits all types of grinding, nor do we carry one type of oil and try to sell it for every application. Each of our coolants, lubricants and oils is formulated to deliver better results and longevity in its specific use. All of our coolants prolong the life of grinding wheels, retard corrosion and rancidity. Colors may vary. Note: Dilution ratio is water to coolant.

Grinding Coolants

All-Purpose Grinding Coolant

A synthetic water soluble coolant that "Licks Rust".

Size	Yield	Order No.
1 gal.(3.78L)	30 gallons	CGC-1288
5 gal.(18.9L)	150 gallons	CGC-5288

Crank & Cam Grinding Coolant

Synthetic, non-nitrate, high lubricity coolant. Dilute 20:1

Size	Yield	Order No.
1 gal.(3.78	3L) 20 gallons	CGC-10
5 gal.(18.9	L) 100 gallons	CGC-50

Multi-Duty Grinding Coolant

Medium-duty, low foaming, synthetic coolant with rust inhibitors. Safe for ferrous and non-ferrous metals alike. No nitrates, phenols, chlorine or sulfur. Dilute 30:1

Size	Yield	Order No.
1 gal.(3.78L)	30 gallons	GPC-10
5 gal.(18.9L)	150 gallons	GPC-50

Belt-Resurfacing Coolant

For all belt-type resurfacers with or without down-pressure. Dilute 30:1

Size	Yield	Order No.
1 gal.(3.78l	L) 30 gallons	SGB-10
5 gal.(18.9l	L) 150 gallons	SGB-50

Surface Grinding Coolant

Non-foaming, non-nitrate coolant for single-piece resurfacing wheels or segments. Dilute 20:1

Size	Yield	Order No.
1 gal.(3.78L)	20 gallons	SGC-10
5 gal.(18.9L)	100 gallons	SGC-50

Flywheel Grinding Coolant

Includes a synthetic rust inhibitor that prevents rancidity. For all flywheel grinders. Dilute 30:1

Size	Yield	Order No.
1 gal.(3.78L)	30 gallons	FG-1101-G
5 gal.(18.9L)	150 gallons	FG-1102-G

Grinding & Honing Oils (Not Water Soluble)

Cylinder Honing Oil (Clear)

Ideal for portable hones and all makes of automotive honing machines. Mixes readily with other brands (including Sunnen®).

GOODS

Size	Order No.
1 gal.(3.78L)	HO-10
5 gal.(18.9L)	HO-50
55 gallons	HO-550

Sunnen® Mineral Based Honing Oil

Formulated for general purpose automotive machine shop honing. Compatible with most popular honing machines.

Size	Order No.
5 gal. (18.9L)	MAN-845

Valve Grinding Oil (Light Yellow)

Universal valve grinding oil extends wheel life. Mineral based. Prevents rancidity, foaming & deposits

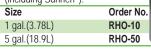
Size	Order No.
1 gal.(3.78L)	VGO-10
5 gal (18 9L)	VGO-50



Rod Honing Oil (Dark Brown)

Keeps stones clean & free-cutting during rod reconditioning, pin fitting and other honing jobs. Will mix with other brands

(including Sunnen®).	
Size	Order No.
1 gal.(3.78L)	RHO-10



Specially formulated to withstand the cutting

pressures created when using our Diamond Valve

Order No.

B-OHD

DHO-10 **DHO-50**

Diamond Honing Oil (Brown)

Guide Honing System.

8 oz.(236.6mL)

1 gal.(3.78L)

5 gal.(18.9L)

Size

Sunnen® Honing Oil Concentrate

Formulated for general purpose automotive machine

shop honing. Compatible with most popular honing machines. Add your own Mineral Oil. Mix Ratio: 10:1 for MAN-845 or 2:1 for MB-30

NOTE: Cannot be shipped to California Order No. Size MAN-C 5 gal. (18.9L)



Severe Duty Valve Grinding Oil (Brown)

For grinding titanium, Inconel®, stainless steel and stellite valves Includes additives to improve cutting performance under pressure.

Size	Order No.
1 gal.(3.78L)	VGO-SD10
5 gal.(18.9L)	VGO-SD50



Sunnen® Mineral Based Multi-Purpose Honing Oil

High performance lubricity agents with sulfur extreme-pressure additives Won't weld or tear the work-piece.

For metals from	aluminum to zircomun
Size	Order No.
5 gal. (18.9L)	MB-30

Titanium Valve Grinding Aid Mix ratio of 1:4. Add to mineral based

valve grinding oils. Improves finish on titanium, stainless steel and stellite valves

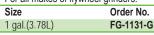
treatment,	otan nooo	0.000.	arra	otomico	
Size				Order	No.
32 oz.(94	6.6mL)			VGA-T	32



Machine Lubricants

Flywheel Grinder Table Lubricant

Helps extend flywheel grinder life. This high-pressure oil is designed to lubricate table bearings and ways. For all makes of flywheel grinders.





Adhesive oil formulated to provide extended lubrication and rust protection for machine-tool ways.

Size	Order No
1 gal.(3.78L)	WO-50



Rust Shield for Shop Equipment

Prevents rust and won't cause rancidity. Protective film mixes with coolant so you don't have to clean it off before using the machine.

Size	Order No.
1 gal.(3.78L)	RS-128



3-D Fast Cut™	All Teel Broke Lethe Penlesement Tine 117	Cross Food Cheer Coor 120
3-D Fast Cut™ Starter Kits	All Tool Brake Lathe Replacement Tips 117	Cross Feed Shear Gear
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California Proposition 65

WARNING: Cancer and Reproductive Harm - www. P65Warnings.ca.gov

"Proposition 65 requires businesses to provide warnings to Californians about significant exposures to chemicals that cause cancer, birth defects or other reproductive harm."

Due to recent regulatory changes in California, we must now warn you that many of the materials commonly used to manufacture our products contain chemicals known to the state of California to cause cancer and reproductive harm.

A complete list of materials requiring the Prop 65 warning can be found at https://www.p65warnings.ca.gov.

WARNING: Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/products/passenger-vehicle.

If you need additional information about any specific products sold by Goodson, please check our website or contact the Goodson Techxperts for details. Call 1-800-533-8010.

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Us	e the space below to record your most frequently ordered items.
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Policies

Pricing:

Prices are subject to change without notice. There is no minimum order. Orders are billed at the prices in effect at the time of shipping. Discounts are not available on Sunnen* products.

Shipping:

Goodson makes every effort to ship orders the same day they are received. Due to carrier cut-off times, orders received after 2:00 pm (central time), on weekends or holidays may not ship until the next business day.



You have several choices of shipping methods. Cost of shipping is based on total weight or package dimensions and the distance from our warehouse. Goodson is not responsible for weather related shipping delays.

- STANDARD: Unless otherwise requested, we ship items up to 100 pounds and up to 130" in combined width, length and height by US Postal Service, UPS or FedEx services. Items over the weight or size limit must go by common carrier.
- EXPRESS: We can ship most items by air to arrive in your choice of 1, 2 or 3 days. Aerosol products, however, require a HazMat fee when shipped by air.

Upon receipt of your order, please inspect all cartons immediately for damaged or missing products BEFORE signing for the merchandise. Any packages received in a damaged condition should be rejected and/ or noted at the time of delivery. If items are missing or damaged, please contact Goodson within 3 business days.

Freight Allowance:

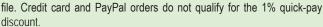
For open account orders shipped ground within the USA, you may deduct the freight charges on any **JOBBER** net invoice of **\$800** or more if you pay within 30 days (including Internet orders). However, Glass Beads, Steel Shot, Tumbler Media, Machines, Equipment, Bulk Liquids, Cleaning Detergents and Crankwheels are not included (shipped F.O.B. Winona, MN). Hazardous Materials, Dangerous Goods and Dimensional Shipping fees may apply on certain items. Please call to inquire.

Open Account Terms:

- A 1% discount is given on merchandise if payment is made within 15 days from invoice date. This discount applies to the merchandise amount only (not the total amount) on the invoice (not a statement). The discount amount is shown in the lower left hand corner of the invoice. This discount does not apply to statement payments and does not apply to credit card or PayPal orders.
- 2) Balances not paid in full within 30 days are subject to a finance charge of 1.5% per month (18% per year).

Credit & Debit Card Orders:

Goodson accepts MasterCard, Visa, American Express, Discover Card and PayPal. For your security, credit card numbers are NOT kept on



Check Acceptance:

In the unlikely event that your check is returned for insufficient or held funds, we will debit your checking account electronically for the face amount of the check plus the service fee allowed by your state's law. This allows us to resolve the problem without turning you over to a collection agency and harming your credit rating. The transaction will appear on your bank statement and no one will have to contact you about payment.

Returns:

You may return any item, except special orders and HazMat* items, within 60 days. We will do our best to correct any problems or to send a replacement. If an item was damaged through mis-use or modification, Goodson will not accept it as a return. Credits will only be issued after it is determined that the part is resellable or it is deemed defective.

To return an item, please follow these easy steps:

- Enclose a note explaining why you're returning the product. For faster processing, be sure to include your name and account number (you'll find this on your invoice)
- 2. Ship the item freight prepaid within 60 days from invoice date to

Goodson Tools & Supplies for Engine Builders ATTN: Returns 156 Galewski Drive Winona, MN 55987

For best results, please ship return merchandise by a trackable shipping method. Keep your shipping receipt as it may be necessary to track the package if it is lost in transit. A 10% restocking fee may apply on returns unless the problem was the fault of Goodson. If so, the restocking fee is waived and shipping costs are reimbursed.

ABRASIVES WARRANTY: Abrasives have a shelf-life, therefore, all abrasives are warranted against manufacturing defects for 1 year from the date of original purchase.

*HAZMAT ITEMS: Only businesses certified to ship Hazardous Goods can ship such items. To return a HazMat item to Goodson, please call us at 1-800-533-8010 for shipping recommendations.

Privacy Policy:

All information that Goodson collects from its customers through purchases, credit applications or other transactions is kept private and is not disclosed to anyone except as permitted or required by law. Goodson will not sell or trade this information to anyone. Goodson will limit employee access to customers' private information to only those employees who need to know the information to

provide products and services to you. Goodson maintains internal safeguards to protect our customer's non-public information. Please visit our website to read our privacy policy at https://goodson.com/pages/privacy-policy or scan the code at right to be directed to the page.



International Sales:

All items shipped F.O.B. Winona, MN, USA. To find a distributor near

you, visit www.goodson.com

Goodson currently has stocking distributors in:

- · Austria · Australia · Belgium
- Canada Chile Colombia
- · Costa Rica · Ecuador
- El Salvador Finland
- France Germany
- Guatemala Honduras Ireland Italy Mexico Netherlands
- New Zealand Norway Poland Spain Suriname Sweden
- Switzerland Taiwan Turkey United Kingdom

Resharpening & Resetting:

Goodson offers Resetting & Resharpening services for the following:

- Diamond Dressers
 CBN & PCD Resurfacing Cutters
- Valve Seat Cutter Blades Rotary Broach Tool Bits for Van Norman Get more information and pricing by calling **1-800-533-8010**.

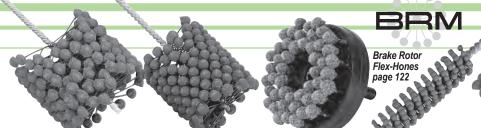












Flex-Hones® For Any Type And Size Of Cylinder

Abrasive globules each have independent suspension
 Self-centering
 Self-aligning
 Self-compensating for wear
 Applications are interchangeable, select bore size
 Right Hand rotation only

240 Grit Silicon-Carbide Valve Guide Flex-Hones®

 Ideal for all materials including cast iron, bronze, phosphor bronze and aluminum

Size mm		OAL	Order No. In	cl.	
	6 Pc	. Kit		VGF-KIT	•
	11/64"	4.5	6"	VGF-4.5MM	
	13/64"	5.0	8"	VGF-5MM	
	⁷ / ₃₂ "	5.5	8"	VGF-5.5MM	
	1/4"	6.4	8"	VGF-6.4MM	X
	9/32"	7.0	8"	VGF-7MM	X
	⁵ /16"	8.0	8"	VGF-8MM	X
	11/32"	9.0	8"	VGF-9MM	X
	3/8"	10.0	8"	VGF-10MM	X
	⁷ /16"	11.0	8"	VGF-11MM	X
	15/32"	12.0	8"	VGF-12MM	
	33/64"	13.0	8"	VGF-13MM	
	9/16"	14.0	8"	VGF-14MM	
	19/32"	15.0	8"	VGF-15MM	

400 Grit Diamond Valve Guide Flex-Hones®

 Ideal for heat treated steel, high nickel stainless steel, chromes or plated bores, MMX aluminum alloys, ceramics and carbides

	oarbiaoo				
Order No.	OAL	Size mm			
VGFD-6.4MM	8"	1/4" 6.4			
VGFD-7MM	8"	⁹ / ₃₂ " 7.0			
VGFD-8MM	8"	5/16" 8.0			
VGFD-9MM	8"	¹¹ / ₃₂ " 9.0			
VGFD-10MM	8"	³ / ₈ " 10.0			



Order 3 or more Flex-Hones® (mix & match) and save 10% off jobber

120 Grit Silicon-Carbide Flex-Hones®

• Ideal for all materials including cast iron, bronze, phosphor bronze and aluminum

• When ordering heavy-duty, order on cylinder size

			Standard		Heavy-Duty
Size	mm	OAL	Order No.	OAL	Order No.
2"	50.8	8"	BG-210		
21/4"	57.2	8"	BG-225		
21/2"	63.5	8"	BG-250		
23/4"	69.8	8"	BG-275		
3"	76.2	8"	BG-300	13 ¹ / ₂ "	BGD-300
31/4"	82.6	13 ¹ / ₂ "	BG-325	13 ¹ /2"	BGD-325
31/2"	88.9	13 ¹ / ₂ "	BG-350	13 ¹ / ₂ "	BGD-350
3¾"	95.3	13 ¹ / ₂ "	BG-375	13 ¹ /2"	BGD-375
4"	101.6			13 ¹ / ₂ "	BGD-400
41/8"	104.8	13 ¹ / ₂ "	BG-418		
41/4"	107.9			13 ¹ / ₂ "	BGD-425
43/8"	111.1	13 ¹ / ₂ "	BG-438		
41/2"	114.3			13 ¹ / ₂ "	BGD-450
45/8"	117.5	13 ¹ / ₂ "	BG-462		
5½"	139.7			17 ¹ /2"	BGD-550
6"	152.4			17 ¹ /2"	BGD-600
61/2"	165.1			17 ¹ /2"	BGD-650

180 Grit Silicon-Carbide Flex-Hones®

 Ideal for all materials including cast iron, bronze, phosphor bronze and aluminum

 Sizes with extra-long shanks are ideal for cam bearings

		aring	Standard	Extra-Lor	ng Shank*
Size	mm	OAL	Order No.	OAL	Order No.
5/8"	15.9	8"	BH-625		
3/4"	19.1	8"	BH-750		
¹³ / ₁₆ "	20.6	8"	BH-820		
7/8"	22.2	8"	BH-875		
1"	25.4	8"	BH-1000		
11//8"	28.6	8"	BH-1125		
11/4"	31.8	8"	BH-1250		
1¾"	34.9	8"	BH-1375		
1½"	38.1	8"	BH-1500		
1%"	41.3	8"	BH-1625		
13/4"	44.5	8"	BH-1750	17 ¹ /2"	CBF-175*
2"	50.8	8"	BH-2000	17 ¹ /2"	CBF-200*
21/4"	57.2	8"	BH-2250	17 ¹ /2"	CBF-225*
21/2"	63.5	8"	BH-2500	17 ¹ /2"	CBF-250*
23/4"	69.8	8"	BH-2750	17 ¹ /2"	CBF-275*
*CRF	flov-l	nonas i	nclude an extender &	ninnle for OAI	of 171/a"

*CBF flex-hones include an extender & nipple for OAL of 171/2"

320 Grit Standard Duty Silicon-Carbide Flex-Hones®

• Ideal for all materials

Size	mm	OAL	Order No.
11/4"	31.8	8"	BG-125320
21/4"	57.2	8"	BG-225320
3"	76.2	8"	BG-300320
31/4"	82.6	13 ¹ / ₂ "	BG-325320
31/2"	88.9	13 ¹ / ₂ "	BG-350320
33/4"	95.3	13 ¹ / ₂ "	BG-375320
.,		13 ¹ / ₂ "	BG-418320
43/8" 1	11.1	13 ¹ / ₂ "	BG-438320
45/8" 1	17.5	13 ¹ / ₂ "	BG-462320

320 Grit Heavy Duty Silicon-Carbide Flex-Hones®

Ideal for all materials

Size mm OAL	Order No.
4" 101.6 13 ¹ / ₂ "	BGD-400320
4¼" 107.9 13 ¹ / ₂ "	BGD-425320
4½" 114.3 13½"	BGD-450320

240 Grit Aluminum-Oxide Flex-Hones®

 Ideal for hard surfaces such as Nicasil and hardened steel

Size	mm	OAL	Order No.
21/4"	57.2	8"	BA-225240
23/8"	60.2	8"	BA-237240
21/2"	63.5	8"	BA-250240
25/8"	66.8	8"	BA-262240
23/4"	69.8	8"	BA-275240
3"	76.2	8"	BA-300240
31/4"	82.6	13 ¹ / ₂ "	BA-325240
31/2"	88.9	13 ¹ / ₂ "	BA-350240
33/4"	95.3	13 ¹ / ₂ "	BA-375240
41/8" 1	104.8	13 ¹ / ₂ "	BA-418240
45/8" 1	117.5	13 ¹ / ₂ "	BA-462240

RIGHT HAND ROTATION ONLY! For best results, always use with an ample flow of honing oil

MY VGS'

... another









V

WINONA VAN NORMAN, VAN NORMAN, PETERSON, KANSAS INSTRUMENTS

PETERSON, KANSAS INSTRUMENTS						
1-EDGE CUTTER BIT						
Fits Model Numbers	Type	Bit Dia.				
777 000 005 044 075	CI	1711				

Fits Model Numbers	Туре	Bit Dia.	Order No.
777, 900, 905, 944, 965	General	1/4"	VN-1
777S, 777S4, 944S, CB11,	General	3/8"	VGS-1
BC22XL, PK447S	Hard Sleeves	3/8"	VGS-2
	Sleeve Cutter	3/8"	VGS-3
888, 999	General	7/16"	VN-360
Original Van Norman Fits Model Numbers	Туре	Bit Dia.	Order No.
Fits Model Mullipels	rype	Dit Dia.	Order No.

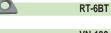
1115, 9445	Hard Sieeves	78	777-179
HOLDERS FOR 6-EDGE TIPS -	Use RT-6B and RT-6BT	(each holder	r includes one tip)
Fits Model Numbers	Length	Height	Order No.
777, 900, 905, 944, 965	11//8"	3/4"	VN-135
7770 77704 0440	0.11	12 / 11	1/11/100

777S, 777S4, 944S 2" 13/46" **VN-122**Bore Range: 2.65" to 4.50"

Standard Carbide Replacement Cutter Tip Titanium Coated Carbide Replacement Tip MISCELLANEOUS PARTS

Fits 6-Edge Holders Above Bit Scr

ZTEW







RT-6B

enlarged

KWIK-WAY

1-EDGE CUTTER BIT FOR OF H	OLDERS					
Fits Model Numbers	Type	Bit Dia.	Order No.			
F, FT, FL, FN, FR, FS,	Rough	5/16"	KWL-R			
FW, FWS, FWSII, FX	Finish	⁵ ⁄16"	KWL-F			
Models After 1770	Sleeve Cutter	5/16"	KWL-C			
HOLDER FOR 6-EDGE TIPS - Uses RT-6B or RT-6BT Tips (each holder includes one tip)						
Fits Model Numbers	Length	Height	Order No.			

 $\begin{tabular}{lll} Fits Model Numbers & Length & Height & Order No. \\ FL, FN, FR, FS, FT, FW & 2\%6" & 5\%6" & KWL-116 \\ Standard Carbide Replacement Cutter Tip & RT-6B \\ \hline Titanium Coated Carbide Replacement Cutter Tip & RT-6BT \\ \hline \end{tabular}$

PETERSON-BERCO

1-EDGE CUTTER BIT FOR OE HOLDE			
Fits Model Numbers	Length	Bit Dia.	Order No.
ACP-151-A, ACP-151-BL,			
SCP-151-P	13/4"	10mm	PB-151

ROTTLER

1-EDGE CUTTER BIT FOR OE HO	LDERS						
Fits Model Numbers	Length	Bit Dia.	Order No.				
All Bars	1¾"	¹¹ / ₃₂ "	RL-1				
Sleeve Cutter for All Bars	1¾"	¹¹ / ₃₂ "	RL-1C				
HOLDER WITH 3-EDGE TIP - Inclu	HOLDER WITH 3-EDGE TIP - Includes one RL-2T Tip						
Fits Model Numbers	Length	Bit Dia.	Order No.				
All Bars (holder includes one tip)	11/4"	¹¹ / ₃₂ "	RL-2H RL-				
Replacement Screw for RL-2H			RL-2S				
Replacement Cutter Tip			RL-2T				

STORM-VULCAN

1-EDGE CUTTER BIT FOR OE HOLDERS					
Fits Model Numbers	Length	Bit Dia.	Order No.		
NS, BCG, BCT, 220, 260	3/4"	⁵ ∕₁6"	S-1		

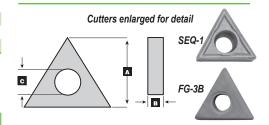


1-Edge Replaceable Type Tool holder with separate bit. Excellent cutting yet economical. Resharpen the cutter bit many times. When no longer usable, replace only the bit.



6-Edge Replaceable TypeLowest-cost choice. Holders take 6-edge, replaceable tips. When one edge wears, turn to new surface. Never need to resharpen – just replace the tip.

Looking for Something Not Listed? Contact Goodson For Special Order Boring Bar Holders or Other Tooling 1-800-533-8010

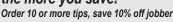


Replacement Tips & Parts

Fit most boring bar holders

			0				
Α	В	С	Edges		Order No.		
Standard Carbide							
.358"	.097"	.108"	3		SEQ-1		
.345"	.094"	.140"	6		RT-6B		
.360"	.094"	.124"	3		FG-3B		
.327"	.094"	.140"	3		RL-2T		
Titanium Coated							
.345"	.094"	.140"	6	\$	RT-6BT		

The more you buy, the more you save!



Van Norman, Peterson or Kansas Instruments OE Catspaw Screws For 777S or PK-447S & 944S

Description	Order No.
Catspaw Screws (1 each)	
For #1 Shoe (0.625"L)	800-114
For #2 Shoe (0.740"L)	800-115
For #3, 4 & 5 Shoe (0.940"L)	800-116



Fine Lapping Oil

- A light lap oil coat cools and lubricates
- Use with a variety of applications including diamond laps (below) and crocus cloth (p. 59)

Descrip	tion			Order No.
Very Fin	e Lap Oil (4	fl. oz.)		LP-LO-4
Very Fin	e Lap Oil (8	fl. oz.)		LP-LO-8



LP-KW

Diamond Laps

- A light lap oil coat cools and lubricates
- Remove carbide build-up with lint-free cloth and Dressing Stick while lap rotates

Machine	OD	ID	Order No.
Rottler	1¾"	1/4"	LP-RFA
Kwik-Way	31/4"	1/2"	LP-KW
Dressing Stick			LP-DS

Other Diamond Laps available by Special Order

1 lb. Roll Copper or Stainless Steel O-Ring Wire

- Copper wire is .0403" diameter
- Stainless steel wire is .0410" diameter

10 10 110	alalliotoi	
Description		Order No.
Copper		OWC-0403
Stainless Stee	el	OWS-041

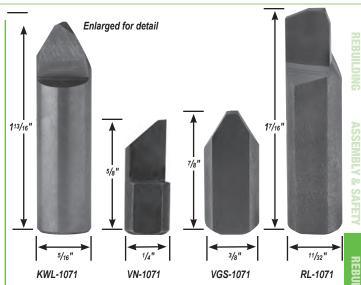


Conversion Calculator

We've tried to convert as many SAE measurements to Metric (and vise versa) as possible. In some cases there hasn't been enough room.

If you need to convert a measurement, here are the formulas:

Starting Measurement	Conversion Formula	Converted Measurement
Inches (in)	Inches x 25.4	Millimeters (mm)
Feet (ft)	Feet x .3048	Meters (m)
Millimeters (mm)	Millimeters ÷ 25.4	Inches (in)
Fahrenheit (F)	(5÷9) x (F - 32)	Celsius (C)
Celsius (C)	(9÷5) x (C + 32)	Fahrenheit (F)



Solid Carbide Formula One Single Pass Boring Tools

- Greater fracture resistance than most carbide bits
- Ideal for hard alloys or interrupted cuts in automotive, high performance, marine, motorcycle and diesel engines

Description	Order No.
Kwik-Way ⁵ /16" x 1 ¹³ /64"L	KWL-1071
Van Norman 1/4" x 5/8"L	VN-1071
Van Norman ³ / ₈ " x ⁷ / ₈ "L	VGS-1071
Rottler 11/32" x 17/16"L	RL-1071

Tensioner Stop Block for Chrysler 2.7 DOHC



- Eliminate broken timing chains, bent valves and chain backlash
- For VIN code R, U & V
- Mechanically supports hydraulic adjusters
- Use with plunger screw or bottom plate tensioners
- For NEW Chain Tensioners
- Order No. DT-27



Boring Bar O-Ring Cutter Replaceable Tool Bits

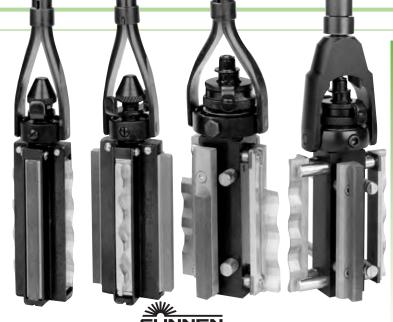
- Cut grooves for O-rings to enhance gasket sealing for high-performance engines
- Machines a groove .037" wide 1/4" Shank
- Fit Winona Van Norman, VN, Peterson, KI, Kwik-Way
 & Rottler Holders (available by special order)

Description	Application	Order No.
Tool Bits	Standard	KWVN-57
	Premium	KWVN-57C6



To avoid breakage, use the standard cutter on cast iron blocks only and the Premium cutter on hard blocks. *CAUTION:* Avoid column drop as this will break the tips as well.

- 1 Extend the range of your hone with the Master Holder and Stone Supports on the bottom of page 87
- 2 Use with 1/2" non-pistol grip drill (5/8" drill for AN-815 & GH-2555)
- 3 Heavy Duty units can also be used in manual hone cabinets



SUNNEN Portable Cylinder Hone Mandrels (stones sold separately)

Shaft extensions available.

	Junior Midget	Midget	Junior	Standard	Heavy-Duty	Heavy-Duty
Brand	Sunnen®	Sunnen®	Sunnen®	Sunnen®	Sunnen®	Goodson
Honing Range	1.25" - 1.75"	1.75" - 2.00"	2.00" - 2.60"	2.50" - 5.50"	2.50" - 5.50"	2.50" - 5.50"
Drive Shank	2.00" (incl.)	2.00" (incl.)	2.00" (incl.)	2.00" (incl.)	6.00" (incl.)	6.00" (incl.)
Drive Extension	12.00" (incl.)					
Thread	1/16" - 14	1/16" - 14	7/16" - 14	7/16" - 14	5⁄8" - 11	½" - 11
Order No.	SNJ-10	SN-75	JN-95	AN-112	AN-815	GH-2555

NOTE: Goodson is authorized to ship Sunnen® products only within the Americas

WorldwideShipping

Goodson

Water Based Diamond Honing Coolant

- · Suitable for diamond honing on cast iron blocks
- · Greatly reduces heat buildup in the block during honing
- Reduces amount of block cleaning after honing
- · Disposal of used coolant is easy and more environmentally friendly than conventional honing oils
- 5 gallons makes up to 55 gallons of coolant
- Order No. DHC-50



Clear Mineral Based Honing Oil

- Helps keep stones clean and free-cutting
- Ideal for portable hones and all makes of automotive honing machines
- · Mixes easily with other brands, including Sunnen®
- Not water soluble

Size	Order No.
1 Gal./3.78L	HO-10
5 Gal./18.9L	HO-50



Honing Stones

• Ideal f	for Cast Iro	n			SUNNEN
Grit	Range		Finish		Order No.
For Sunn	en [®] Junior Mic	dget Hone (S	SNJ-10) 3	Stones & N	o Wipers
150 Grit	1.25" - 1.44"	31.8-36.6	45 Ra		SNJ1-J45
	1.42" - 1.60"	36.1-40.6	45 Ra		SNJ2-J45
	1.58" - 1.77"	40.1-44.9	45 Ra		SNJ3-J45
400 Grit	1.25" - 1.44"	31.8-36.6	8 Ra		SNJ1-J87
	1.42" - 1.60"	36.1-40.6	8 Ra		SNJ2-J87
	1.58" - 1.77"	40.1-44.9	8 Ra		SNJ3-J87
For Sunn	en [®] Midget Ho	ne (SN-75)	2 Stones	& 2 Wipers	
70 Grit	1.75" - 2.00"	44.5-50.8	120 Ra	SN-100	S18-J17
150 Grit	1.75" - 2.00"	44.5-50.8	45 Ra	SN-200	S18-J45
220 Grit	1.75" - 2.00"	44.5-50.8	32 Ra	SN-300	S18-J55
280 Grit	1.75" - 2.00"	44.5-50.8	20 Ra	SN-500	S18-J65
400Grit	1.75" - 2.00"	44.5-50.8	8 Ra		S18-J87
For Sunn	en [®] Junior Ho	ne (JN-95)	2 Stones 8	& 2 Wipers	
70 Grit	2.00" - 2.20"	50.8-55.9	120 Ra	JN-100	T20-J17
	2.20" - 2.40"	55.9-60.9	120 Ra	JN-101	U22-J17
	2.40" - 2.60"	60.9-66.0	120 Ra	JN-102	V24-J17
150 Grit	2.00" - 2.20"	50.8-55.9	45 Ra	JN-200	T20-J45
	2.20" - 2.40"	55.9-60.9	45 Ra	JN-201	U22-J45
	2.40" - 2.60"	60.9-66.0	45 Ra	JN-202	V24-J45
220 Grit	2.00" - 2.20"	50.8-55.9	32 Ra	JN-300	T20-J55
	2.20" - 2.40"	55.9-60.9	32 Ra	JN-301	U22-J55
280 Grit	2.00" - 2.20"	50.8-55.9	20 Ra	JN-500	T20-J65
	2.20" - 2.40"	55.9-60.9	20 Ra	JN-501	U22-J65
	2.40" - 2.60"	60.9-66.0	20 Ra	JN-502	V24-J65
400 Grit	2.00" - 2.20"	50.8-55.9	8 Ra		T20-J87
	2.20" - 2.40"	55.9-60.9	8 Ra		U22-J87
	2.40" - 2.60"	60.9-66.0	8 Ra		V24-J87



Goodson and Sunnen® Cylinder Honing Stones For all popular AN-style Hones and Hone Bodies

- Integral holder type Honing stone sets have 4 pieces: 2 holders with stones and 2 holders with aluminum wipers • Fit Sunnen® AN Standard, AN Heavy-Duty and Goodson GH-2555 hones • Use with honing oil
- Stones for Short or Blind Holes are 21% long; all other stones are 4" long
- Mix or Match 5 HN stones, Save 10% off jobber

E	Bore Range				SUNNEN®		GOODSON	
Grit	in	mm	Usage	Finish	Old Order No.	New Order No.	1+ 5+	Order No
70 Grit	2.5"-2.7"	63.5-68.6	Cast Iron	120 Ra	AN-115	G25-J17		HN-115S
Roughing	2.7"-4.1"	68.6-104.1	Cast Iron	120 Ra	AN-100	M27-J17		HN-100S
			Cast Iron	120 Ra				HN-100R
			Short/Blind	120 Ra	AN-100-71	M27-J17-71		HN-102S
			Harley / VW	120 Ra	AN-100F	AN-100F		HN-100F
	3.5"-5.5"	88.9-139.7	Cast Iron	120 Ra	AN-101	N37-J17		HN-101S
			Cast Iron	120 Ra				HN-101R
			Short/Blind	120 Ra	AN-101-71	N37-J17-71		HN-104S
			Hard Sleeves	55 Ra	AN-131	N37-J11		HN-131S
Use Master Holder	4.7"-15.0"	119.4-381	Cast Iron	120 Ra	AN-106	W47-J17		HN-106S
& Sleeve Support			Hard Sleeves	55 Ra	AN-136	W47-J11		HN-136S
150 Grit	2.5"-2.7"	63.5-68.6	Cast Iron	45 Ra	AN-215	G25-J45		HN-215S
Medium	2.7"-4.1"	68.6-104.1	Cast Iron	45 Ra	AN-200	M27-J45		HN-200S
	2.7	0010 10 111	Short/Blind	45 Ra	AN-200-71	M27-J45-71		HN-202S
			Hard Sleeves	30 Ra				HN-230S
	3.5"-5.5"	88.9-139.7	Cast Iron	45 Ra	AN-201	N37-J45		HN-201S
	0.0 0.0	00.7 137.7	Short/Blind	45 Ra	AN-201-71	N37-J45-71		HN-204S
			Hard Sleeves	30 Ra	AN-231	N37-J43		HN-231S
Use Master Holder	4.7"-15.0"	119.4-381.0	Cast Iron	45 Ra	AN-206	W47-J45		HN-206S
& Sleeve Support	4.7 -13.0	117.4-301.0	Hard Sleeves	30 Ra	AN-236	W47-J43		HN-236S
220 Grit	2.7"-4.1"	68.6-104.1	Cast Iron	32 Ra	AN-300	M27-J55		HN-300S
Finishing	2.7 -4.1	00.0-104.1	Short/Blind	32 Ra	AN-300-71	M27-J55-71		HN-302S
i ii iisi ii iy	3.5"-5.5"	88.9-139.7	Cast Iron	32 Ra	AN-301	N37-J55		HN-3025
	5.5 -5.5	00.7-137.7	Short/Blind	32 Ra	AN-301-71	N37-J55-71		HN-304S
Use Master Holder	4.7"-15.0"	119.4-381	Cast Iron	32 Ra	AN-306	W47-J55		HN-3045
& Sleeve Support	4.7 -13.0	117.4-301	Cast IIUII	JZ Na	AN-300	W47-333		HN-3003
280 Grit	2.5"-2.7"	63.5-68.6	Cast Iron	20 Ra	AN-515	G25-J65		HN-515S
Fine Finish	2.7"-4.1"	68.6-104.1	Cast Iron	20 Ra	AN-500	M27-J65		HN-500S
			Short/Blind	20 Ra	AN-500-71	M27-J65-71		HN-502S
			Hard Sleeves	12 Ra	AN-530	M27-J63		HN-530S
	3.5"-5.5"	88.9-139.7	Cast Iron	20 Ra	AN-501	N37-J65		HN-501S
			Short/Blind	20 Ra	AN-501-71	N37-J65-71		HN-504S
			Hard Sleeves	12 Ra				HN-531S
Use Master Holder	4.7"-15.0"	119.4-381.0	Hard Sleeves	12 Ra	AN-536	W47-J63		HN-536S
& Sleeve Support			Cast Iron	20 Ra	AN-506	W47-J65		HN-506S
400 Grit	2.5"-2.7"	63.5-68.6	Cast Iron	8 Ra		G25-J87		HN-615S
Extra Fine	2.7"-4.1"	68.6-104.1	Cast Iron	8 Ra		M27-J87		HN-600S
Finish			Hard Sleeves	5 Ra		M27-J85		HN-630S
-	3.5"-5.5"	88.9-139.7	Cast Iron	8 Ra		N37-J87		HN-601S
	2.2 0.0		Hard Sleeves	5 Ra		N37-J85		HN-631S
Cork	2.5"-3.3"	63.5-83.8	Cast Iron*	2-3 Ra		G25-C05	WE N	5510
Polishing	3.3"-4.2"	83.8-106.7	Cast Iron*	2-3 Ra		MM33-CO5	made in	
i onsining	4.0"-5.6"	101.6-142.2	Cast Iron*	2-3 Ra		NN40-C05		<u> </u>
#0 op .		- 2 Ra, Steel– 3 F		2-3 Na		14140-003	الالالالالا	91

Ruby Aluminum-Oxide abrasive for longer life in rough cutting use

SUNNEN Master Holder & Stone Supports

- Holds one 4" stone set
- Stones sold separately
- AN-365 requires use of AN-260
- Larger sizes available upon special order

Master Holder	
Dia. Range	Order No.
4.7"-7.0"	AN-355
6.0"-9.0"	AN-365
Stone Supports for AN-365	
6.0"-9.0"	AN-260

Note: Larger sizes available by special order.



AN-106

AN-365

Keyway Honing Stone Sets

another

• Two-stroke engines have intake and exhaust ports that interrupt the operation of your honing stone

 These stones allow the hone to pass the intake and exhaust ports while maintaining consistent pressure to remove material accurately and easily

• Use with any AN- or GH-series hone (p. 86)

 For Cas 	SUNNEN,				
Grit	Range	mm	Finish	Type	Order No.
150 Grit	2.5" - 3.3"	63.5 - 83.8	45 Ra	Alum.	GY25-J45
Medium	3.3" - 4.2"	83.8 - 106.7	45 Ra	Alum.	MY33-J45
280 Grit	2.5" - 3.3"	63.5 - 83.8	20 Ra	Brass	GY25-J65
Fine Finish	3.3" - 4.2"	83.8 - 106.7	20 Ra	Soft	MY33-J65
400 Grit	2.5" - 3.3"	63.5 - 83.8	8 Ra	Brass	GY25-J85
Extra Fine	3.3" - 4.2"	83.8 - 106.7	8 Ra	Soft	MY33-J85



for Sunnen Hone Machines

For Rod Honing Stones and Shoes see page 91

- Premium-quality replacements for all CV-616, and CK-10 hones equipped with Sunnen® Master Holder Sets
- Diameter Range: 4.125" 5.000" (104.8 127.0mm)
- Use with Master Holder Set CK-3045A (sold separately)
- 2 stones per set

Stones			Goodson - 1 Pair	Sunnen - 6 Pair
Use	Grit	Finish	Order No.	Order No.
Hard Blocks	70	60 Ra	GEHN-116	EHN-116
Hard Blocks	220	22-32 Ra	GEHN-512	EHN-512
Air Cooled Cyl	. 220	22-32 Ra	GEHN-518	EHN-518
Hard Blocks	70	60 Ra	GEHU-123	EHU-123
Roughing	70	60 Ra	GEHU-133	EHU-133
Hard Blocks	220	22-32 Ra	GEHU-518	EHU-518
Gen. Purp.	220	22-32 Ra	GEHU-525	EHU-525
Aluminum	220	30-36 Ra	GJHU-525	JHU-525
High Nickel	280	20-25 Ra	GJHU-623	JHU-623
Finishing	280	16-23 Ra	GJHU-625	JHU-625
High Nickel	400	7-14 Ra	GJHU-818	JHU-818
Aluminum	400	7-14 Ra	GJHU-820	JHU-820
Accessories	;		Qty.	Order No.
Sunnen® Mas	ster Ho	older Set	1	CK-3045A
Sunnen® Cer	ntering	Guide (incl	udes CK-3070) 1	CK-3090A
Sunnen® Gui	de Sh	oe & Screw :	Set 1	CK-3070
Sunnen® Gui	de Sh	oe & Screw :	Set (Brass) 1	CK-3120
Goodson We	ar Sh	oe	1	C-3070K
Goodson Sta	abilizin	g Shoe	2	C-3120K



Dart Blocks & Ductile Sleeves

- Recommended for Dart[™] Machinery
- Use with Sulfurated Rod Honing Oil (below)

Use with Sulfurated Rod Honling Oil (below)					
Description	Order No.				
Honing Stone Sets For Portable Tooling					
80 Grit	N37-A25				
220 Grit	N37-A55				
280 Grit	N37-J65				
400 Grit	MM33-J85				
For CK/CV Type Machines					
80 Grit Stone Set (6)	C30-A25				
150 Grit Stone Set (6)	C30-A45				
220 Grit Stone Set (6)	C30-A55				
280 Grit Stone Set (6)	C30-J65				
400 Grit Stone Set (6)	C30-J85				
Hardened Steel Guide Shoe (1)	CK-3570				
Delron® Guide Shoe (1)	CK-3070NY3X				
Goodson Brand Shoes For CK/CV Type Machines					
Hardened Steel Guide Shoe (1)	GCK-3570				
Delron® Guide Shoe (1)	GCK-3070NY3X				



For CK & CV Machines, **DO NOT** use Bronze Shoes. use Hardened Steel and Delron shoes above (1 of each)

Ultra-Finish Plateau Hones

SUNNEN.

- Abrasive impregnated nylon bristles
- · Ideal for rebuilding high-performance engines and engines with low-tension rings • Superior plateau finish so
 - rings will seal immediately Reduce break-in time
 - Allow closer tolerances
 1 Pair



- Fit AN- or GH- style hones
- Range: 3.78" to 4.68"
- Order No. MM-PHT-731

CV/CK Hone Heads

- Range: 3.10" to 5.00"
- Order No. C30-PHT-731

Sulfurated Honing Oil

· Includes additives for high pressure cutting

Size	Order No.
1 gal./3.78L	RHO-10
5 gal./18.9L	RHO-50







- Chamfer sharp edges for safe piston and ring installation
- Handles all diameter cylinders or sleeves
- Fits %" (9.53mm) or larger drill Kit (CC-100) includes mandrel and three 50 Grit Aluminum Oxide cones (CC-15)
- Due to manufacturing process, abrasive color may vary
- Aluminum-Oxide is a good general purpose abrasive suited for ferrous and non-ferrous metals
- Zirconium is a tough abrasive well suited for heavy stock removal on most metals

Description	Order No.	Incl.
3" Top Dia. Chamfering Cone Kit	CC-100	•
Replacement ¾" Drill Adaptor	CC-100-1	X
Aluminum Oxide Chamfering Cones (red)		
40 Grit	CC-14	
50 Grit	CC-15	X
80 Grit	CC-20	
Premium Zirconia Chamfering Cones (blue)		
50 Grit	CCZ-15	
80 Grit	CCZ-20	

Mix & Match 5 Cones for Quantity Discount; Save 10% off Jobber



- For deglazing Nicasil with a CV/CK Honing Machine
- Diameter Range:
- 3.0" 5.0" (76.2-127.0mm) in standard automotive head 2.6" 3.5" (66.0-88.9mm) in junior head
- 150 grit aluminum oxide abrasive
- 6 pairs per package
- Order No. EHU-412

Lisle®

Honing Stone Sets

- Clip-on style mounts in seconds
- 5" / 127mm stones and wipers
- Each set contains two stones and two felt wipers
- Use drv

Replaces		Order
Lisle® No.	Grit	No.
15500	80	HL-80
15510	180	HL-180
15520	280	HL-280
15590	500	HL-500





31/2"

- Large diameter cones chamfer the top of the cylinder to an exact 45° angle in one pass
- ½" (12.7mm) steel shank is permanently embedded in the cone base to ensure stability
- Cone height: 3½" (88.9mm)
- Kit includes mandrel & one 36-grit cone (CC-30)
- Due to manufacturing process, abrasive color may vary
- Aluminum-Oxide is a good general purpose abrasive suited for ferrous and non-ferrous metals
- Zirconium is a tough abrasive well suited for heavy stock removal on most metals

Description		Order No. I	ncl.	
5" Chamfering Cone	Kit		CC-130	\blacksquare
Chamfering Cones	Abrasive	Grit		
	Aluminum Oxide	36	CC-30	Х
	(red)	50	CC-50	
		80	CC-80	
	Premium	36	CCZ-36	
	Zirconia	50	CCZ-50	
	(blue)	80	CCZ-80	

Mix & Match 5 Cones for Quantity Discount; Save 10% off Jobber

SUNNEN.

Honing Stones for Nicasil

- Deglaze Nicasil cylinders with portable hones
- Aluminum-Oxide abrasive
- Resizing cylinders requires diamond abrasive

Stones for SNJ-10 Portable Hones			
Inch	Order No.		
1.418"-1.604"	SNJ2-A43		
	SNJ2-J63		
1.580"-1.770"	SNJ3-A43		
	SN 13- 163		

Stones for AN & G	H Style Hones
Inch	Order No.
2.5"-3.3"	GG25-A43
3.3"-4.2"	MM33-A43
4.0"-5.6"	NN40-A43

Order 3 or more Flex-Hones® (mix & match) and save 10% off jobber

Standard Duty 240 Grit Aluminum Oxide Flex-Hones®

Inch	mm	Order No.
21/4"	57.2	BA-225240
23/8"	60.2	BA-237240
21/2"	63.5	BA-250240
25/8"	66.5	BA-262240
23/4"	69.8	BA-275240
3"	76.2	BA-300240

For Nicasil

Inch	mm	Order No.
31/4"	82.5	BA-325240
3½"	88.9	BA-350240
3¾"	95.3	BA-375240
41/8"	104.8	BA-418240
45/8"	117.5	BA-462240

More Flex-Hones® on page 83

Stones

Replacement Parts

For CR-Series Mandrels

pairs while Goodson honing

stones are sold individually

Honing Stones for Manual Honing'

Sunnen honing stones are sold as

Stones &

Our tech staff can help you solve problems fast. Call us with questions about product applications, machining processes, longer tool life, improving efficiency and any other technical topic. We're here to help.

Paul, Goodson Customer & Tech Service - 4 years of service

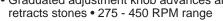


Guide

Shoes

Mandrel Driver for Portable Use of CR-, PL- and ML-Series Hones

- Ideal for spindle bushings mounted on axles and other jobs that can't be taken to the honing machine
- For holes 3/4"/19.05mm ID and larger, where length is at least 3 times the diameter
- ID Range: .744" 3.875"/19mm 98mm
- Graduated adjustment knob advances and
- Use with any ½"/12.7mm drill or larger
- Order No. GGN-150



Rod Honing Oil

- · Includes additives for high pressure cutting
- Keeps stones clean and free-cutting during rod reconditioning, pin fitting and other honing applications
- Will mix with other honing oils (including Sunnen®)

Size	Order No.
1 gal./3.78L	RHO-10
5 gal./18.9L	RHO-50



		Sunnen	Goodson		
Fit Mandrels	Finish	Order No.	Order No.		
CR-1450 to 1750	Medium	CR-2			
	Fine	CR-4			
CR-1900 & Larger	Aluminum/				
	Titanium	CR-9			
	Roughing	CR-10	HC-10		
	Medium	CR-12	HC-12		
	Fine	CR-14	HC-14		
For Power Hone	Roughing	CR-10N			
Guide Shoes (2 per	r box)				
CR-1450 to 1750	Die Cast	CR-40D			
CR-1900 & larger	Die Cast	CR-50D			
	Bronze	CR-50B			
Wedge & Wedge P	lates				
CR-1450 to 1750	Wedge	CR-70			
	Small Plate	CR-75			
<u></u>	Large Plate	CR-85			
CR-1900 to 2500	Wedge	CR-100			
CR-1900 & Larger	Small Plate	CR-110			
	Large Plate	CR-120			
CR-2900	Wedge	CR-200			
Sunnen® Tension B	LN-1337A				
Sunnen® Shoe Clamps (4 + screws) for CR-1900 & larger CR-					



CK-192A

CK-234A

*Sunnen® honing stones include 2/box, Goodson include 1/box



Goodson Belts for Sunnen® Rod **Honing Machines**

• Top-quality belts for long life

tech tips

You must measure the belt you are replacing. Ordering is based on length, not machine model. If your belt size doesn't match one in the chart, order the next size down. For example, if your belt measures 72½", order the 70" Oil Pump Belt. Belts stretch over time so the shorter belt will fit.



Size	Order No.
Oil Pump Belts (.250" dia.)	
70"/1.78m	RHB-70
74"/1.88m	RHB-74
85"/2.16m	RHB-85
109"/2.77m	RHB-109
Flat Belts	
45½" x 5/8"/1155.7x15.9mm	RHFB-45
46½" x 5%"/1181.1x15.9mm	RHFB-46



Flat Belt

Replacement Fiber Planetary Gear Set

& SUPPLIES

KL-Series Connecting Rod Lifetime Honing Unit **Mandrel Adaptor**

- Mandrel Adaptor comes with retainer
- Order No. AK20-A







Zinc Alloy Guide Shoes Order No. Qty. Order No. Qty. For Sunnen® PL and ML Series Mandrel WC-D 2 1.355" - 1.500" 34.4-38.1mm WD-D 1.480" - 1.625" 37.6-41.3mm 2 1.730" - 2.000" 43.9-50.8mm WE-D 2

When cutting action of your honing stone slows down, a light stroke with the diamond dresser breaks the glaze and restores honing efficiency. Especially recommended for rod reconditioning. Consists of diamond stone on a sturdy metal holder with a chain for fastening it to the honing machine.



Diamond Stone Dresser

- Diamond stone on durable metal tool
- Order No. MAN-700



Rod & Cap **Grinding Wheels**

- Fits Sunnen® Rod and Cap Grinding Machines
- Recessed design
- Size: 6" x 2" x 1¹/₄" (152.4 x 50.8 x 31.8mm)
- Order No. GR-805



Rod & Cap **Grinding Wheels**



- For Sunnen® and other popular brand cap grinders
- Fits CRG 700, 750, 770, 780, 805 & 920K
- Softer than GR-805 6" x 2" x 11/4"
- Order No. F343793



SILICON

COMPOUND

NET WT. 450 gm

"If you need engine building tools and supplies, you need Goodson! We're dedicated to providing you with the best quality products, the best value and the best service in the

Sheila, Goodson Purchasing - I year of service

Right Hand Rotation Only.

For best results, keep your RPM about the same as your hone RPM, use the same rate of speed from the techxperts™ and number of strokes per minute.

Ultra-Finish Plateau Soft Hones

 Remove microscopic peaks and scuffs without enlarging bores • Use with a portable drill • Abrasive impregnated nylon bristles • Ideal for high-performance engine rebuilding and for engines that use low-tension rings

- Use after honing
- Gives a superior plateau finish so rings seal immediately, reducing break-in time
- Allows closer tolerances for improved compression, better oil control, lower emissions
- · For best results, use liberal amounts of honing oil (HO-50, pg. 86) • NOT interchangeable with Flex-Hones®

(, pg. 00)		· · · · · · · · · · · · · · · ·	igoabio i	11011 1 1070 1 101100
Hole Diam	eter Range	Hone	Head	Overall	
in	mm	Dia.	Length	Length	Order No.
.875"-1.00	" 22-25	1.250"	2.00"	10.00"	UF-100
1.00"-1.25	" 25-32	1.500"	2.00"	10.00"	UF-125
1.25"-1.75	" 32-45	2.000"	2.00"	10.00"	UF-175
1.75"-2.25	" 45-57	2.500"	2.00"	10.00"	UF-200
2.25"-2.75	" 57-70	3.000"	3.00"	10.00"	UF-250
2.50"-3.00	" 63-76	3.500"	4.00"	14.00"	UF-300
3.00"-3.50	" 76-89	4.000"	4.00"	14.00"	UF-350
3.50"-4.00	" 89-102	4.500"	4.00"	14.00"	UF-400
4.00"-4.50	" 102-114	5.000"	5.00"	14.00"	UF-450
4.50"-5.00	" 114-127	5.500	5.00"	14.00"	UF-500
Valve Gui	de Plateau H	ones on p	age 39		

Shoe

Hone High-Silicon Aluminum Alloy Blocks With Ease – **Honing Stones & Silicon Compound**

- Stones fit both the Sunnen® AN-112 and AN-815 and the Goodson GH-2555 Portable Honing Mandrels
- · Use each stone set progressively until the final bore size is achieved • For Hone Diameter: 3.3" to 4.2"

SUNNEN

- · To create the final condition, coat the felt set and the honed cylinder surface with the Silicon Compound (AN-30) and lap the cylinders
- · After completion, the cylinder will have a dull matte finish
- Piston and rings will ride on silicon instead of aluminum
- Silicon Compound 1 lb. / 450g

Description	Order No.
Roughing (280 grit)	MM33-J63
Finishing (400 grit)	MM33-J85
Polishing (600 grit)	MM33-CO5
Felt Set	MM33-FO5
Silicon Compound	AN-30

SUNNEN.

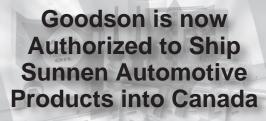
Mandrel Driver for Line Honing Machines

- For Sunnen® CH-100 & similar line honing machines
- Graduated adjustment knob advances and retracts honing stones
- Quick release lever allows hone removal and installation without resetting
- Stone pressure adjusts with dial
- Automatically advances stones during honing
- NOT for portable honing applications
- Order No. CH-75A

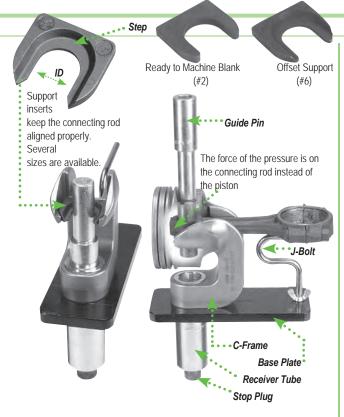
Line Hone Mandrels, Stones & Shoes

- For the Sunnen® CH-100. CHV-31, CH-20 & CH-40 Line Honing Machines
- · Hone unit includes 10 stones and 20 shoes (replacement stones & shoes available)
- Stones for Aluminum blocks (RY24-J45) are softer than those for cast iron (RY24-J49)
- · Additional hone units, stones and shoes are also available by special order

Descriptio	n			Order No.
			• • •	Order No.
Hone Unit	Diameter	Stone Length	Shipping	
	Range	Length	Weight	
	2.40" to 2.70"	33.75"	40 lbs	10RY-2400G
	2.70" to 3.00"	33.75"	45 lbs	10RY-2700G
	3.00" to 3.50"	33.75"	50 lbs	10RY-3000H
Replaceme	ent Stones — 5 p	er box (Require	s 10 stones)	
	Recommended	Application	Cast Iron	RY24-J49
			Aluminum	RY24-J45
Replaceme	ent Shoes — 10	per box (Require	es 20 shoes)	
	Fit 10RY-24000	& 10RY2700G		RG-D
	Fit 10RY-3000H	1		RH-D



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Piston Pin Removal Fixture

- Use to remove or install interference fit piston pins
- · Force of removal is against the piston pin and connecting rod – no pressure is exerted on the piston itself
- · Tooled to fit most popular engines with pin diameters of 0.859" through 1.087"
- Replacement Support Inserts & Guide Pins sold separately

For Small Block Chevy use Support Insert #1 or Offset #6, for Big from the techsperts** Block Chevy, use Support Insert #5, Support #2 is a blank, ready to be machined to your exact specifications.

Description		ID	Step	Order No.	Incl.
Complete Kit				PPE-7082	•
Replacement C-Fran	ne			PPE-302186	Х
Replacement	#1	0.945"	.100"	PPE-39889	Х
Support Inserts	#2	1.110"	.275"	PPE-39890	Х
A CONTRACTOR OF THE PARTY OF TH	#3	1.000"	.182"	PPE-39888	X
Chillian	#4	1.110"	.182"	PPE-39886	X
	#5	1.000"	.100"	PPE-39887	Х
	#6	0.945"	.100"	PPE-39822	X
Replacement Guide	Pins	0.859"		PPE-17940	X
100		0.897"		PPE-17936	X
		0.926"		PPE-17937	X
	20	0.970"		PPE-17938	X
.1100		0.992"		PPE-17939	X
ALCOM)		1.032"		PPE-17941	X
		1.055"		PPE-17942	X
	V .	1.087"		PPE-18729	X
Replacement Parts					
J" Bolt (Rear Suppor	t)			PPE-302224	X
Wing Nut				PPE-10588	X
1%"/30.2mm Stop PI	ug			PPE-17830D	X
Base Plate				PPE-17929	Х
Receiving Tube				PPE-17931B	X
Body Guide				PPE-17932B	X
5½"/139.7mm Spring				PPE-17934	X
Guide Pin Driver				PPE-17935	X
1%"/41.3mm Externa	l Spira	al Lock		PPE-17945	X





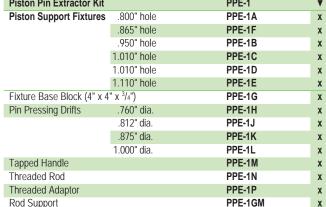
Universal Piston Pin Press-Out Tool

- Use with a shop press
- Top quality steel tooling
- · Standard set handles most applications
- · You can modify for individual needs

Description		Order No.	Incl.
Piston Pin Extractor Kit		PPE-1	▼
Piston Support Fixtures	.800" hole	PPE-1A	Х
	.865" hole	PPE-1F	Х
	.950" hole	PPE-1B	X
	1.010" hole	PPE-1C	Х
	1.010" hole	PPE-1D	X
	1.110" hole	PPE-1E	Х
Fixture Base Block (4" x 4	" X ³ / ₄ ")	PPE-1G	Х
Pin Pressing Drifts	.760" dia.	PPE-1H	Х
	.812" dia.	PPE-1J	X
	.875" dia.	PPE-1K	Х
	1.000" dia.	PPE-1L	X
Tapped Handle		PPE-1M	Х
Threaded Rod		PPE-1N	X
Threaded Adaptor		PPE-1P	Х
Rod Support		PPE-1GM	Х

Kit includes the rod support for tapered boss pistons

B-162



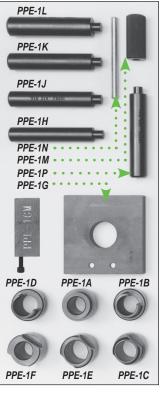
Rod Support for Sunnen® Pin Press Tooling • Remove late model connecting rods

from tapered boss pistons

GOODSON

· Aluminum construction prevents connecting rod damage • Fits B-162 Pin Press Reducina Rina

Description	Order No.
Rod Support	BRS-130
Pin Press Reducing Ring	B-162



BRS-130

— BRS-130

Standard Wrist Pin Bushing Driver sizes range from 25mm to 54mm. If we don't have the size you're looking for in the chart below, choose the next size up and turn it down on your lathe to the exact size you require. **Universal Tapered Pin Bushing Press Kit For** sized for

This press kit is specially designed to remove and replace tapered bushings in most common light to medium duty diesel applications. Don't spend time making a fixture that's dedicated to a single size. Our Tapered Pin Bushing Press Kit is ready to go when you receive it.

Light & Medium Duty Diesel Engines

Description	Order No.	Inclu	des
Complete Wrist Pin Bushing Press Kit	TB-KIT		•
Wrist Pin Press Base (select drivers below)	TB-BASE	•	X
Press Tube - Small (27x21x120mm)	TPT-SM	Х	
Press Tube - Large (30x31x110mm)	TPT-LG	х	
Wrist Pin Ring (50x5x20/26mm)	WPR-001	х	
Wrist Pin Parallels (2) 8x10x50mm	WPP-2	х	
Extended Mandrel (8½" long)	TB-MANDREL	х	
Wrist Pin Bushing Drivers sold by dimension, not application			
MM Nominal Actual Step			

Wrist Pin Bushing Drivers sold by dimension, not application						
	MM	Nominal	Actual	Step		
	25	1.000"	0.957"	0.063"	TBD-25	Х
	26	1.063"	0.990"	0.058"	TBD-26	Х
	27	1.060"	1.032"	0.067"	TBD-27	X
	28	1.100"	1.006"	0.055"	TBD-28	X
	30	1.180"	1.102"	0.075"	TBD-30	X
	31	1.220"	1.158"	0.090"	TBD-31	Х
	31	1.220"	1.198"	0.067"	TBD-31A	X
	32	1.260"	1.222"	0.078"	TBD-32	X
	33	1.300"	1.268"	0.068"	TBD-33	X
	34	1.340"	1.304"	0.073"	TBD-34	X
	36	1.420"	1.377"	0.075"	TBD-36	X
	38	1.500"	1.458"	0.076"	TBD-38	X
	40	1.570"	1.554"	0.068"	TBD-40	X
	42	1.650"	1.614"	0.097"	TBD-42	X
	45	1.770"	1.742"	0.089"	TBD-45	X
	46	1.810"	1.772"	0.108"	TBD-46	X
	50	1.970"	1.940"	0.083"	TBD-50	X
	52	2.050"	2.012"	0.114"	TBD-52	X
	54	2.130"	2.099"	0.081"	TBD-54	X
Goodson Pres	s Fit Lube	(6 oz. Aeros	sol can)		PFL-200*	
Deburring Too	l				DT-6	

*Hazardous Goods Fees Apply When Shipped Air



- edges, bolt holes, and much more
- DT-6 includes cutters for aluminum and

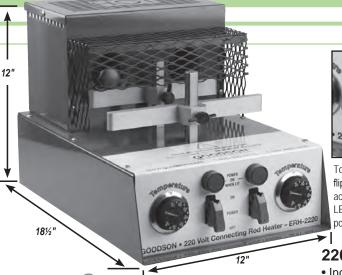
0001	
Description	Order No.
Deburring Tool	DT-6
Replacement Cutters	
Steel/Aluminum	DT-10
Cast Iron/Brass	DT-20



Gas Porting Tools for High Performance

- Virtually eliminate side ring clearance by drilling gas ports in your piston ring lands
- These tiny ports apply compression pressure directly to the back of the ring, pushing it against the cylinder wall with greater force while minimizing compression leakage
- · Gas ports work best with pistoncompression heights of 1.2" or less on engines running at high rpm (7,000 or higher)
- This simple tool kit take the guess-work out of gas porting and include everything you'll need to get started
- The complete kit includes: Drill Fixture, Depth Bushing and one Drill Bit US Patent No. US D617,664 S

Description	Order No.
Gas Porting Tool Kits	GPT-043
Gas Porting Tool Kits	GPT-062
.040" Drill Bits (5 Pack)	GPT-040-DB



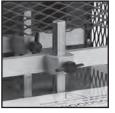


Toggle switches with flip-up covers to prevent accidental activation. LED lamps indicate when power is active.



Heating elements operate on separate thermostats.





Adjustable rod supports accommodate most automotive connecting rods.

220V, Single-Phase Electric Rod Heater

- Includes a digital timer and 450° temperature crayon
- Double wall insulated heat chamber with safety screen
- Vented top for better performance
- Powder-coated heavy-gauge steel housing for long life

Description	Order No.	Incl.
•		IIIOI.
220V, 50/60 Hz Single Phase Electric Rod Heater	ERH-2220	•
Digital Read-Out Timer (battery included)	ERH-TIMER	X
Replacement Toggle Switch (ea.)	ERH-SWITCH	
Replacement Toggle Switch Guard (ea.)	ERH-TSG	
Replacement Thermostat (ea.)	ERH-THERM	
Replacement Heater Coil (ea.)	ERH-COIL	
Replacement LED Light Assembly (ea.)	ERH-LED	
Replacement Bezel Knob (ea.)	ERH-KNOB	
Replacement Thumbscrew (ea.)	ERH-TST	
450° Melting Point Temperature Indicator Crayon	TIC-450	X
Piston Pin Installation Fixture	PIF-25	

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Gauntlet Style Heat & Flame Resistant Gloves

- Heavy lined red terrycloth • 13½" Long
- Safe to 450°F / 232.2°C
- Order No. **HFR-300**

Temperature Indicating Crayon • Mark the workpiece

- Mark the workpiece
 before heating
 Melts when tempers
- Melts when temperature is reached

Melting Point	Order
450°F / 232.22°C	TIC-450
500°F / 260.00°C	TIC-500
600°F / 315.56°C	TIC-600



Needs no warm-up time – start assembling rods and pistons almost immediately

- Heats piston pin ends so fast the rest of the rod stays cool
- · Minimal cool down time after assembly
- Ceramic lined enclosure contains flame to keep hands safe
- One knob controls the pilot and gas flow, another sets air flow for ideal combustion
- Burner lights easily with a striker (not included)
- · No heat coils to burn out or circuitry to fail
- Includes one 600°F Temperature Crayon (above)
- Propane model includes gas regulator and hose assembly
- Made to order contact Goodson for current pricing and delivery time

Description	mada	Order No.
Rod Heater for Propane	made	RH-50
Rod Heater for Natural Gas	to order	RH-50N



Band Ring Compressor Kits

Install rings safely and easily • Hardened steel for durability
 Trigger ratchet mechanism for tight compressions

		iechanisin ioi ti	grit compressions		
Descr	iption		Order No.	- II	ncl.
6 Pc. I	Band Ring Compre	essor Kit	GPS-98		•
9 Pc. I	Band Ring Compre	essor Kit	GPS-99	•	
Comp	ressing Pliers		GPS-98A	Х	X
Bands	Range in.	mm			
	1.875" - 2.125"	47.63-53.98	GPS-98Q		
	2.125" - 2.375"	53.98-60.33	GPS-98R	Х	
	2.375" - 2.625"	60.33-66.68	GPS-98S	Х	
	2.625" - 2.875"	66.68-73.03	GPS-98T	Х	
	2.875" - 3.125"	73.03-79.38	GPS-98B	Х	X
	3.125" - 3.375"	79.38-85.73	GPS-98C	х	X
	3.375" - 3.625"	85.76-92.08	GPS-98D	Х	X
	3.625" - 3.875"	92.08-98.43	GPS-98E	х	X
	3.875" - 4.125"	98.43-104.78	GPS-98F	Х	X
	4.125" - 4.375"	104.78-111.13	GPS-98G	Х	X
	4.500" - 4.750"	114.30-120.65	GPS-98H		
	4.750" - 5.000"	120.65-127.00	GPS-98I		
	5.000" - 5.250"	127.00-133.35	GPS-98J		
	5.250" - 5.500"	133.35-139.70	GPS-98N		

Rod Clamping Vise

another

- · Align rods and caps perfectly
- · Smooth jaws won't damage connecting rods like an ordinary vise
- Clamp rods firmly to align parting faces while torqueing rod bolts
- · Clamp in a vise or bolt to a workbench
- Order No. RCV-20





Rod Bolt Stretch Gauge • Accurate to .001"

- Features a 1½" dial gauge
- · Extra heavy-duty tension spring for repeatable accuracy
- For bolts from 1" to 21/2" long
- See more information on rod bolt stretch on page 123

Description	Order No.
Rod Bolt Stretch Gauge	RBSG-3
Optional Contact Point	ERBG-3T
Replacement Pointer	RBSG-P



Rod Bolt Boots

- Plastic boots protect crank journals & rod bolts during piston installation
- Save crank journals from rod bolt damage
- Don't risk your reputation for quality
- Reusable
- Set of 16
- Order No. RBP-16

Heavy-Duty Rod Bolt Installing Block

- Mount universal block in a vise to support rod while installing bolts
- Hardened aluminum won't slip
- If the top wears, you can restore it with a file or belt grinder
- · Ream holes larger to accommodate oversize bolts
- Order No. RB-50





ERBG-3T

RBSG-P

Piston Pin Installing Fixture

- Adjustable stops prevent over-centering rods
- Adjust the stop once and you're ready to assemble a full set of rods
- · Base is pre-drilled to mount to a workbench

from the techxperts

Sticks work great for

deburring the ends

of piston rings after

filing, or any part that

needs deburring. For

a finer finish, soak

the abrasive stick in

Lapping Oil (LP-LO-4).

Fine Abrasive

Order No. PIF-25

Piston Ring Expander

- · Remove and install most
- Tapered jaws
- 3/4" to 1/4" ring width
- Order No. PRE-500

Piston Installing Deadblow Hammer

- 1 piece design
- Specially formulated urethane compound is cut and split resistant
- Convex-faced, non-mushrooming material
- · Offset head
- Ideal for fast, mar-free piston installation
- Weighs 1.7 lbs./.77 kg
- Order No. PK-200



Fine Abrasive Stick · Radiused for easier ring

- deburring after end gapping 4" L x ½" radius / 101.6mm x 12.7mm
- Works on all types of rings
- Works on ring ID radii
- Order No. RS-103



- No more tedious filing and checking and filing and checking to get desired end gap; set it once and cut multiple rings
- Easy to read integral dial indicator and positive ring stop make repeatable precision quick and easy
- Fits 2½" to 5" / 63.5 to 127mm diameter rings
- Adjustable guide holds rings square to the cutting wheel
- Table pivots past cutting wheel
- No open ways to gather grinding dust that causes premature wear
- Handy knurled in-feed adjustment knob High torque motor

Description	Order No.
Powered Ring Filer 110V / 60 cycle w/o Deburring Wheel	PRF-812
Powered Ring Filer with Deburring Wheel 110V / 60 cycle	PRF-812DW
Powered Ring Filer with Deburring Wheel 220V / 50 cycle	PRF-822DW
Replacement Deburring Wheel	PRF-DW
2½" Replacement Grinding Wheel (60 grit) for pre-2008 models	PRF-1001
3" Replacement Grinding Wheel (60 grit)	PRF-1002
Replacement Diamond Dresser	PRF-812D
Replacement Table Spring	PRF-SPRING
Sun-Dura® Canvas Machine Cover	GMC-PRF



Stainless Steel Table



Eccentric adjusts quickly and easily



Positive ring stop



Diamond Dresser is securely held in place

by the ring clamping pin

Table pivots past grinding wheel



made in

Lighted

Rocker

Switch

wheel eliminates

the need to hand

hone or deburr

rings after filing

Also available WITHOUT deburring wheel

Manual Ring Grinder

- Produce end gap rings squarely
- · Heavy duty aluminum casting
- Precisely machined for long life
- Aluminum-Oxide wheel holds shape and produces clean precise cuts
- Includes1 grinding wheel (replacements available)
- Wheel measures 2" OD x 1/6" ID x 1/8" thick

Description	Order No.
Piston Ring Grinder	PRF-250
Renlacement Wheel	PRF-250W





 Universal design lets you grind almost any make, type or size of piston ring • Includes diamond abrasive wheel measuring 2" OD x 1/4" ID x 1/16" Thick

Description	Order No.
Universal Piston Ring Filer	PRF-500
Replacement Diamond Abrasive Wheel	PRF-870-DW

Rod Balancing Stand
 Ideal for static balancing parts
 Use to weigh rotating and reciprocating masses and record the information for dynamic balancing
 Heavy-duty steel construction

- Includes 1-2" (50.8mm) and 1-2.3" (58.4mm) support discs
 - Height adjustment for different rod sizes
- Order No. BS-201



- Scales feature automatic tare weight correction
- 1.0 Gram / 0.100 Ounce increments
- Operates on 9V battery (not included) or 110V converter (included) • Low battery indicator
- Order No. **BS-6100**



V-TWIN & METRIC

TOOLS & SUPPLIES

Special Orders Available

full service

Cheryl, Goodson IT/Order Fulfillment Manager - 28 years of service

for you, whether you order by phone or through our website."

Oil Gallery Plug Installer / Staker

- · Set depth and lock plug in a single step
- Arbor nose aligns cup plug, then follows with two 180° staker lugs to set depth and lock oil gallery plug securely in place
- Use with Oil Gallery Plugs below
- Order No. ST-SB



made in

Includes 1 Replaceable Blade

Technology has provided us with more efficient ways to give you, our customers, the quality of service you deserve! Our goal is to make ordering shop supplies faster & easier

Oil Filter Inspection Tool

- · Check for contaminants with every oil change
- Cut open the filter canister for inspection
- Fits 21/2" to 61/2" diameter filters
- Includes a single blade

Description	Order No.
Oil Filter Inspection Tool	FIT-1-G
Replacement Cutter Blade	FIT-W

Adjust size to fit filters from

21/2" to 61/2" diameters

Stud mounts in center

hole of the oil filter

Steel Oil Gallery Plugs

- · Replace lost or damaged originals
- 1/4" pipe plugs
- For use at the rear of Small Block Chevy oil galleries or other engines with similar size plugs
- 25 per box
- Order No. OP-250

Oil Pump **Pickup Tube Driver**

- For all GM pumps
- · Replace pickup tubes easily with a light mallet
- · Driver grips the pickup tube flare
- Gives control for fast alignment and installation

Application	Tube OD	Order No.
Small Block	5⁄8"/15.9mm	TI-25
Big Block	3/4"/19.1mm	TI-30

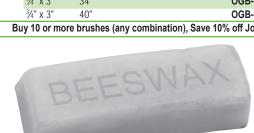


PPS-250

Oil Gallery Brushes

Steel Wir	е		Orde	er No. I	ncl.
3-pc. Kit	Size	Length	OGE	-SK	•
	½" x 3"	24"	OGE	i-1	X
	3/8" x 3"	24"	OGE	-2	X
	5⁄8" x 3"	24"	OGE	-3	X
Nylon Br	istle				
5-pc. Kit	Size	Length	OGE	-KIT	▼
	3/8" x 3"	34"	OGE	-38	X
	½" x 2½"	34"	OGE	-42	X
	5⁄8" x 3"	34"	OGE	-5	X
	³ / ₄ " x 3"	34"	OGE	-7	X
	³ / ₄ " x 3"	40"	OGE	8-8	X

Buy 10 or more brushes (any combination), Save 10% off Jobber



100% Natural Oil Gallery Beeswax

- Preheat the part to be removed, apply wax to its base, allow to cool and remove the part
- 100% natural beeswax
- Measures 1" x 3/4" x 3" Weighs 1 oz.
- Order No. BWS-1



Plug Removers

- · Power plugs out with an impact wrench
- Threaded plug inside prevents bit from backing into the holder
- · Hardened tool-steel holder with lifetime breakage guarantee (excludes bit)
- Tool-steel bit can be reground or replaced
- Set screw holds bit firmly in place
- 1/2" drive fits your impact wrenches
- Do NOT use with a breaker bar or ratchet

Description	Si	ze	Order No. I	Incl.
Plug Remover Kit	in	mm	PPS-KIT	•
Replacement Tool	3/16"	4.76	PPS-187	X
Tool includes	1/4"	6.35	PPS-250	X
bit (except	9/32"	7.14	PPS-281*	X
PPS-281)	5/16"	7.94	PPS-312	X
	3/8"	9.53	PPS-375	X
Replacement Bits	³ /16"	4.76	PPS-187B	
	1/4"	6.35	PPS-250B	
	5/16"	7.94	PPS-312B	
	3/8"	9.53	PPS-375B	

NOTE: *No bit is needed for PPS-281 (square socket).

... another satisfied

"Along with the slide hammer set, the lifter bore burnishing tool fixes tight lifter bores, even on assembled bottom ends quick and easy!! My last race motor build was going great until I noticed a few of my new lifters were real tight at the bottom of the bore. This tool resized the bores fast and accurate even

with the cam still in place. Due to the method of resizing, the entire block isn't contaminated with debris like a hone would do, and saves time and money."

- Grant Farmer, Grand Island, NY, Goodson Customer since 2018

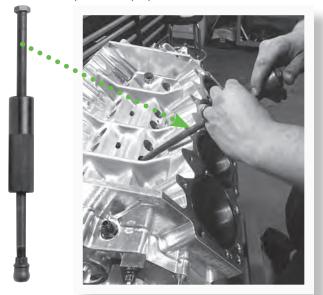


Photo courtesy Tim Wilkerson Racing

Lifter Bore **Burnishing Tools**

- Eliminate burrs caused by shot blasting
- · Drive the burnishing tool into the bore with a soft hammer then slide-hammer it back out
- 60 Rc burnishing balls deburr and correct out of round lifter bores quickly and easily
- · Won't oversize the bore
- · High Performance Sets include a FREE storage case

Description	Order No.	Inclu	des	_
1.0625" High Performance Set	LBB-625-KIT			\blacksquare
1.0000" High Performance Set	LBB-1000-KIT		▼	
Standard Burnishing Tool Set	LBB-1500	•		
14" Slide Shaft	GAO-1	Х		
15" Slide Shaft	LBB-1		Х	Х
Slide Hammer	GAO-2	Х	Х	Х
Lifter Bore Burnishing Balls				
0.8450" dia. (General Motors)	LBB-GM1	X		
0.8760" dia. (Ford)	LBB-F01	Х		
0.9060" dia. (Chrysler)	LBB-CR1	X		
1.0000" dia.	LBB-1.000		Х	
1.0010" dia.	LBB-1.001		Х	
1.0625" dia. HIGH PERFORMANCE	LBB-1.0625			X
1.0635" dia.	LBB-1.0635			X
Jam Nut	LBB-NUT	Х	Х	X
Lifter Bore Brushes.				
⁷ /8" (.875") dia.	LBB-875			
1" (1.00") dia.	LBB-100		Х	
1 ¹ / ₈ " (1.125") dia.	LBB-1125			X





Retainer for 6" Mandre



Truing Sleeve



6" Mandrel

6.75" Extended Mandrel

Honall Head

Adaptoi

Sunnen® Lifter Bore Hones

- · Restore bore size and finish after shot blasting
- · Install oversize lifters for high-performance
- · Stones work in cast iron bores or ones sleeved with brass or steel
- · Wide stones contact a large area giving better stability for hand honing
- · Cross oil ports without catching
- · Wedge-type adjustment is a simple, positive way to expand or contract the stone to the precise size needed
- Use a 3/8"(9.5mm) or 1/2"(12.7mm) hand-held electric or air drill at approx. 200 RPM
- Use with honing oil
- All parts MUST be ordered separately to make a complete unit



NOTE: Wedges may come with a tab that must be removed **BEFORE** using them with the P-180 Head



oompiete an	14	
Description		Order No
Honall Head		P-180
Adaptor		PAK20-A
Roughing Stone (28	30 Grit) 12/box	Y20-J67
Finishing Stone (40)		Y20-J87
Standard Lifter Bor	re Tooling (6" Reach)	
Mandrel	.838"869" Range	AAY20838BH6LH
	.869"900" Range	AAY20869BH6LH
Wedge		Y20-W-6LH
Retainer		LN-3688A-6LH
Truing Sleeve	.838"869" Range	S-838
	.869"900" Range	S-869
Extended Reach Li	fter Bore Tooling (6¾" Reach)	
Mandrel	.838"869" Range	AAY20838675LH
	.869"900" Range	AAY20869675LH
Wedge		Y20-W-675LH
Retainer		LN-3688A675LH
Truing Sleeve	.838"869" Range	S-838
	.869"900" Range	S-869

Goodson is authorized to ship Sunnen products only within the Americas



Rod Honing Oil

- · Includes additives for high pressure cutting
- · Keeps stones clean and free-cutting during rod reconditioning, pin fitting and other honing applications
- · Will mix with other honing oils (including Sunnen®)

Size	Order No.
1 Gal. (3.78L)	RHO-10
5 Gal. (18.9L)	RHO-50

"It's a pleasant surprise to deal with a company that obviously cares about customer service. Your website was easy to use and order feedback assuring. Keep up the good work."

- Norm Cameron, St. Petersburg, FL, Goodson customer since 2017

GOODSON

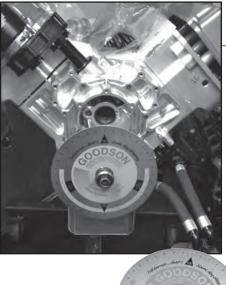
GOODSON

GOODSON

CBT-300 Cam Bearing Tool

Universal Cam Bearing Tool

- Remove and install hundreds of sizes of cam bearings with just four mandrels!
- Expanding Mandrels cover a 1.370"-2.250" range
- Adjusts instantly to under-size bearings so you can remove and install them from virtually any block
- Approximately 1/4" range for each size segment
- · Interchangeable with Dura-Bond



This is ... another satisfied those CLSTOMOF MUST have tools for the shop and trailer. We have needed our Goodson Degree wheel at the track a few times and in a few minutes we are done and ready to go! Thanks again for great equipment.

Dean Dubbin, DMP
 Awnings (NHRA Top
 Alcohol Dragster),
 Goodson customer
 since 2010

Degree Wheel

- Check cam timing, duration and overlap
- Degree wheel measures 11" / 279.4mm dia.
 with 1½"/47.6mm hole Complete kit includes the Degree Wheel, a ¾" ID mounting hub for mounting on cranks using ½6" to ¾" fasteners, a 1/2" hub and necessary fasteners Use hubs or turning tool to mount the wheel.

車

• Use with 1/2" drive ratchet

COC WILL 72 GIVE TOLOTOL		
Wheel / Adaptors	Order No.	Incl.
Automotive Degreeing Kit	DW-KIT-2	▼
Degree Wheel	DW-11	X

Description Order No. Incl. **Universal Cam Bearing Tool CBT-300** Replacement Segment with Sleeve Max Dia. 1.370" CBT-5M Х 1.682' CBT-6M X 1.875" CBT-7M X 2.250" CBT-8M Replacement Backing Plate Max Dia. 1.375' CBT-5W X CBT-6W 1.682' Х 1.885 CBT-7W X 2.250" CBT-8W Replacement Neoprene Sleeve 1.370" **CBT-5NS** Max Dia 1.682 **CBT-6NS** 1.875' **CBT-7NS** 2.250" **CBT-8NS** Drivers 5" (pictured at left) CBT-1B Length 24" CBT-2B 36" (pictured at left) CBT-3B CBT-4B Miscellaneous Replacement Parts 1.200" Expander with stud CBT-3E 15/8" Expander with stud CBT-4E CBT-1S ½"x13 Stud X 3" Guide Cone CBT-1C **CBT-300-WR** Steel Storage Rack Х INTERCHANGEABLE WITH DURA-BOND

Bearing Scraper

 Eliminate bearing high spots after installation to ensure correct oil clearance

- Solid hardwood handle
- 4" / 101.6mm blade with 3 cutting edges
- German steel blade
- Order No. BS-30

Lifting Sling • Lift up to 1800 lbs.

- afely and easily
 1" x 36" looped
- nylon webbing sling

 Do NOT use with
- caustics or temperatures exceeding 190°F
- Order No. LS-3



COOLS & SUPPLIES

Whether you're regrinding cores for stock applications or custom grinding for diesel and high performance, you can count on **Goodson Cam Grinding Wheels to deliver**

an excellent finish Goodson abrasives are second to none. We work with our manufacturers to get you the most ideal grain that's bonded to be free-cutting, yet still shed before loading up. Our Premium wheels are ideal for steel high performance camshafts of 55 to 65 Rc and for Stellite overlays. Goodson finishes all Camshaft Grinding Wheels to your specifications

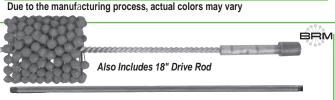
in-house for faster turn-around and delivery. Choose from the sizes below or custom order your cam wheel today!

Cam Grinding Wheels - WAA54-L5V1 - 54 Grit						
Diameter	W	idth	Ark	or	Order No.	
18"	3/4"	19mm	6"	152mm	E341420	
457mm	7/8"	22mm	6"	152mm	E335351	
D T o	1"	25mm	6"	152mm	E335352	
COLOG Abrasives	11/8"	29mm	6"	152mm	E335353	
TYROUT Company	11/4"	32mm	6"	152mm	E335354	
Cam Grind	ling W	heels - 4	3A602-K8	-V1 - 60 Grit		
18"	3/4"	19mm	6"	152mm	E342030	
457mm	7/8"	22mm	6"	152mm	E339945	
Radiac	1"	25mm	6"	152mm	E342031	
Abrasives	11/4"	32mm	6"	152mm	E348558	
Cam Grind	ling W	heels - 7	BL801 - 80) Grit		
18"	3/4"	19mm	6"	152mm	E416880	
457mm	7/8"	22mm	6"	152mm	E427392	

Cam Grinding Wheels - WAA100 - 100 Grit						
Diameter	W	idth	Arb	or	Order No.	
18"	3/4"	19mm	6"	152mm	E379225	
457mm	7/8"	22mm	6"	152mm	E397667 Abrasive	
	11/4"	32mm	6"	152mm	E416183	
Standard (Goods	on Cam G	Frinding V	Vheels - 100	Grit	
18"	3/4"	19mm	6"	152mm	GCC 18 x 0.750 x 6	
457mm	7/8"	22mm	6"	152mm	GCC 18 x 0.875 x 6	
NORTON	1"	25mm	6"	152mm	GCC 18 x 1.000 x 6	
	11/4"	32mm	6"	152mm	GCC 18 x 1.250 x 6	
Due to the		.f		antival anla		

Due to the manufacturing process, actual colors may vary

Ask about special order sizes, grits & grains



180 Grit Cam Bearing Flex-Hones®

• Silicon-Carbide globules laminated to high density nylon

• Includes 18" drive rod

Inch	mm	OAL	Order No.
13/4"	45	17 ¹ /2"	CBF-175
2"	51	17 ¹ /2"	CBF-200
21/4"	57	17 ¹ /2"	CBF-225
21/2"	64	17 ¹ /2"	CBF-250
23/4"	70	17 ¹ /2"	CBF-275

Order 3 or more (mix or match) to Save 10% off Jobber

Bore Washing Brushes

- · Clean tunnel housing bores and full-annular grooved area
- · Heavy, hand-driven shank

Bore Washing Brushes							
Dia.	Length	Order No.					
2"	36"	CBB-200					
21/4"	36"	CBB-225					
21/2"	36"	CBB-250					
23/4"	18½"	CWB-27W					
3½"	18½"	CWB-35					
4"	18½"	CWB-40					
4½"	18½"	CWB-45					
5"	18½"	CWB-50					
Order 10 or more (mix or match) to Save 10% off Jobber							



Cam & Crank **Grinding Coolant** · Semi synthetic

- Non-nitrite
- High-lubricity
- · Dilute 20 parts water to 1 part coolant

Size	Order No.
1 gallon (3.78L)	CGC-10
5 gallons (18.93L)	CGC-50

Professional Measuring & **Inspection Stand For Cranks & Cams**

- · Length adjusts up to 23" to fit journal spacing
- · Rotate work to view or measure
- · Solid aluminum frame with self-lubricating, corrosion and chemical-resistant wear surfaces
- Order No. PMIS-30



101

"The Mach-B division of Goodson offers many services such as ANSI compliant speed testing, balance testing, grinding wheel shaping, resizing and more. Find out more at Mach-B.com."

- Jon, Goodson Production Manager, 41 years of service

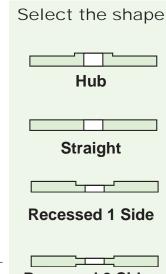
Goodson crankwheels are made-to-order in-house

Other sources stock finished wheels, which makes it virtually impossible to stock a full range of sizes. If they don't have what you need, they may charge more and delay your order for weeks. That's why Goodson makes every wheel to order. We always

have the right wheel because we take a Type 1 straight wheel, size it, shape it, speed test it and ship it.

For future reference write down your

Crank Wheel Number (s)



Recessed 2 Sides



Select your wheel grade:

WAA

Radiac

This new abrasive formulation from Tyrolit/ Radiac combines high-qualify components and an innovative bonding technology to produce a long-lived, cool grinding abrasive wheel. White and sintered aluminum-oxide. Stock removal rates can be

CSS ULTRA GCH

Superior Grade - 54 grit Better form holding ability, cuts cooler and needs less dressing. Use on crank journals with Rockwell hardness of 35 Rc or less. Use on crankshafts of cast or forged steel, Nodular iron. Ideal for large radii, thrust and plunge grinding. Great for high-performance.

NORTON

GCD

Premium Grade - 60 grit For harder materials. Good form holding ability; cuts cooler and needs less dressing. Grains yield faster, cooler grinding. Use on journals with Rockwell hardness of 35 Rc or more. Ideal for diesel, highperformance, industrial and billet steel.

Superior Grade - 54 grit

Excellent dimensional accuracy, corner radii and surface finish. For multiple applications including weld grinding. Ideal for grinding everything from cast iron to steel. Finishing and roughing wheel. Aluminum-oxide abrasive for light to medium stock removal.

Premium Grade

increased without sacrificing quality.

Increase coolant flow with Crankwheel Slotting

Slotting facilitates the flow of coolant to the thrust and radius areas of the crankshaft to prevent journal burning. Highly recommended for high performance and diesel crankshafts. Don't waste time waiting on other suppliers who outsource their crankwheels for slottling - Goodson has a shop full of equipment, so we slot wheels in house! Order No. SLOTTING

How to order:

If you have any questions please call 1-800-533-8010

in you have any questions, piease can 1-000-333-0010					
Grade D	Diameter (OD)	Face Width	Arbor Size (ID)	Machine	Shape
GCD - Premium av	Diameters are vailable from 18" to 6" in most grades.	Most sizes from ³ / ₄ " to 2 ⁵ / ₈ " (custom widths available).Be sure to include mounting surface thickness.	Arbor size of your grinder. Any arbor hole from 3" to 12".	Identify the make and model of your grinder.	Specify the shape for your grinder. We will need the diameter and depth of tapers, recesses and hubs.

Crankshaft Grinding Wheels

		Radiac	NO	RTON
	W/A	AA CSS	GCH	GCD
Dia.	Face Width	<i>"</i>		000
Fits Storm	Vulcan 14, 15			
18"	3/4"-1"		•	call
3" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
	149/64"-2"			
	Vulcan 15, 15 Special	, 1550, 1648		
20"	3/4"-1"			
3" Arbor	11/64"-11/4"			
	1 ¹⁷ / ₆₄ "-1 ¹ / ₂ " 1 ³³ / ₆₄ "-1 ³ / ₄ "			
	149/64"-2"			
Fite Kwik \	Nay / Lempco		T	
20"	3/4"-1"			
	11/64"-11/4"		T	
3 /4 / (100)	117/64"-11/2"			
	133/64"-13/4"		T	
	149/64"-2"			
Fits Kwik-	Nay / Lempco 539 & S	torm Vulcan 15A (e	arly)	
22"	3/4"-1"			
5" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
	149/64"-2"			
	son Berco 180			
22"	3/4"-1"			
8" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
Eite Storm	149%4"-2" Vulcan 15A (late), 15A	Special: DMC/Del	hi DEV 1200	
	Nay / Lempco KGA an		DDI KLX-1200	
24"	3/4"-1"	u ivico Selles		
5" Arbor	11/64"-11/4"		T	
3 7 11 1001	117/64"-11/2"			
	133/64"-13/4"		T	
	149/64"-2"			
Van Norm	an 438, 448, 460, 465;			
Winona Va	an Norman/Zanrosso C	G-210 (early); Stor	m Vulcan Scled	um 200
24"	3/4"-1"			
8" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
01 11 1	149/64"-2"			
Storm Vul				
25" E" Arbor	3/4"-1" 11/ 11/			
5" Arbor	1½4"-1¼" 1½4"-1½"			
	1 '764 - 1 /2 1 3 3 /64 " - 1 3 /4 "		T	
	149/64"-2"			
AMC K110	0; Peterson Berco 180,	225: Scledum 200	230: Van Norma	n 438
	165, 475, 476; Winona \			11 100,
26"	³ / ₄ "-1"	a Norman OO Z I	(.3.0), 30 040	
8" Arbor	11/64"-11/4"		1	
	117/64"-11/2"		1	
	133/64"-13/4"			
	149/64"-2"			
	21/ " 21/"			

		Mes	# Decover	NO	RTON
		WAA	CSS	GCH	GCD
Dia.	Face Width				
Schou 150	0/270, 1600, 26	50			
27½"	3/4"-1"				
8 ⁵⁵ / ₆₄ " Arbor	11/64"-11/4"				
	117/64"-11/2"				
	133/64"-13/4"				
	149/64"-2"				
	21/64"-21/4"				
	Berco 260; SV S				
	an 400, 438, 45	4, 475, 476, 6	66; RMC/Rob	bi REX-1500	
28"	3/4"-1"				
8" Arbor	11/64"-11/4"				
	117/64"-11/2"				
	133/64"-13/4"				
	149/64"-2"				
	2 ¹ / ₆₄ "-2 ¹ / ₄ " 2 ¹⁷ / ₆₄ "-2 ⁵ / ₈ "				
Seest MC6				T	
30"	³ / ₄ "-1"				
6" Arbor	11/64"-11/4"				
O AIDOI	133/64"-13/4"				
	1 49/64"-2"				
7anrosso I	Vito 280; Storm	Vulcan Scler	lum 270/280:		
	obi REX-1800, F		Idili 270/200,		
30"	3/4"-1"	TEN ZZOOL			
8" Arbor	11/64"-11/4"				
0 711001	117/64"-11/2"				
	133/64"-13/4"				
	149/64"-2"				
	21/64"-21/4"				
	217/64"-25/8"				
AMC 1400	, K1500, K1800); Van Normai	n 467, 477; Za	nrosso	
32"	3/4"-1"				
8" Arbor	11/64"-11/4"				
	117/64"-11/2"				
	133/64"-13/4"				
	149/64"-2"				
	21/64"-21/4"				
	217/64"-25/8"				
Peterson E	Berco 280, 300;	RMC Robbi	REX-1800RM;	REX-2200,	
	RM, REX-27001	RM, REX-310	0RM		
32"	3/4"-1"				
12" Arbor	11/64"-11/4"				
	117/64"-11/2"				
	133/64"-13/4"				
	149/64"-2"				
	21/64"-21/4"				
D	217/64"-25/8"	0. 1/.1	0 1 1 050	51101	
	Berco 300, 350;				
	(-2200M, 2700N	/I, 3 TOOM; Wi	nona van Norr	nan III	
36"	3/4"-1"				
12" Arbor	11/64"-11/4"				
	117/64"-11/2"				
	133/64"-13/4"				
	149/64"-2"				
	21/64"-21/4"				
	2 ¹⁷ / ₆₄ "-2 ⁵ / ₈ "	al middle -	alalina - d :	4a 045"	!== d 4 -
	NOTE: All whe	eel widths are	e delivered up	to .015" overs	ized to

allow for side dressing when mounting the wheel

Radiac

Due to the commodity-like nature of abrasive grinding wheels, prices may changes without notice. Please call us at **1-800-533-8010** or **1-507-452-1830** to confirm current pricing.

Iron-Clad Guarantee 103

REBUILDING

NORTON

GLEANING,
ASSEMBLY & SAFETY

SHORT BLOC

GRANKSHAFT/ Flywheel Grindin

TOOLS & SUPPLIES

TOOLING

IDER HEAD

CLEANING, SSEMBLY & SAFETY

SHORT BLO

CRANKSHAFT

E MISCELLANEOUS
TOOLS & SUPPLIES

BRAKE SERV

MEASURING

V-TWIN & METRIC

full service

"We're continually expanding our production department to provide more flexibility in grinding wheel shapes and profiles. Give us a call when you need something special."

- James, Goodson Production, 3 years of service



Crankshaft Journal Radius Gauge

- 16 radii ... 1/32" to 17/64"
- · Measure radii of reground journals quickly
- Blades are clearly marked in 1/64" increments
- · Use in holder or remove to use blades separately
- Order No. RG-16

Hardness Tester

- Calculate Rockwell Hardness quickly and accurately
- Range: 15 to 65 Rockwell on C-Scale
- Features a steel ball of precise weight and shape which is dropped from an exact height to yield an accurate Rc reading
- Check overheated or repaired crankshaft journals to confirm correct hardness
- · Also use on flywheels
- Weighs just 4 oz. 91/4" long
- · Includes case & instructions
- Order No. HT-45RC

Hand-Held Dressing Sticks

 Keep your crankshaft grinding wheels cutting clean

GG-112

DS-NOR

Hard Silicon-Carbide

- 1" x 1" x 6"
- · Use to deglaze wheel side
- Removes material with light pressure
- Order No. GG-112

Dense Granular Norbide

- 3/16" x 1/2" x 3" Long lasting
- For fine tuning radius and side relieving wheels
- Order No. DS-NOR

Starrett

Universal 12"L Quick-Set Crankshaft Grinder Dial Indicator

- 3/8" diameter shaft 12" long
- .125" travel, .050" per revolution
- Rotating, lockable bezel graduated in .001" from -.025" to + .025"
- Order No. MDI-12



More Dial Indicators on page 127

ach-R

Mach-B Grinding Wheel Shaping & Resizing



From routine grinding wheel shaping and sizing to emergency work, *Mach-B Can Do That!*

Mach-B Grinding Wheel Shaping & Resizing specializes in:

- Custom Grinding Wheel Shaping
- Custom Grinding Wheel Sizing
- Reducing Outside Diameters
- Increasing Inside Diameters
- ANSI Compliant Speed Testing
- Static Balance Testing
- · Standard and Custom Profiles
- Grinding Wheel Slotting

Turn to Mach-B and Goodson for Fast Turnaround. Visit www.mach-b.com for more information.



Goodson has several videos available related to Camshaft & Crankshaft Grinding. To access them on our website, simply scan the appropriate code with your smart phone or other smart device.

Crankshaft Grinding Wheel Selection





Grinding Wheel Slotting



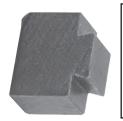




Eliptibur Tool

- · Fastest, safest way to chamfer crank oil holes
- · Simplify deburring and chamfering of angularly drilled holes on cylindrical surfaces
- Easily produces a chamfer of relative uniformity and depth
- · Self-centering, spring loaded pilot
- · Includes one replaceable blade
- For 30Rc or softer crankshafts

Description	Order No.
Eliptibur Tool (1 blade included)	EBT-15
Replacement Blade	EBT-15B
Replacement Pilot	EBT-15N



Need Steady Rest Shoes?

Email or fax the design and dimensions for what you need.

Crankshaft Grinder Steady Rest Shoes for Peterson-Berco

- · Use same shoe for upper and lower replacement
- 5/16" thick
- Order No. RBE-200



Create a relief in the block for rod #2 at the pan rail area using your normal process.



Place the arbor in main saddles 1 & 2, keeping the flange nearest to the pointer against #2.



Rotate the arbor and adjust the pointer until the tapered end passes freely through the relief with a minimum of clearance.

when building a Stroker Engine!



Lock the pointer in position with the set screw and check the clearance.



Once satisfied, scribe a line on the pointer opposite the set screw.

Stroker Mimic™

- · Lightweight and easy to use
- Eliminates the need to repeatedly install and remove the crankshaft, pistons, rod assembly and the necessary bearings when clearancing a block for a stroker crank
- Once the Stroker Mimic[™] has been set to a particular crank, rod and piston combination, the tool can be marked or measured for future reference
- Order No. SM-350



Reluctor Ring Installation Tool



All steel construction features 2 indexing dowels to properly align the reluctor ring when installing it on the crankshaft. Designed to fit Generation III (LS1, LS6) and Generation IV (LS 2, LS3, LS7) engines. Aligns GM sensor rings (12559353, 12586768). US Patent No. 7,716,827.



The 8mm indexing dowel is attached to the fixture by an exterior tang. It can be adjusted for depth to accommodate a variety of popular flange widths. This dowel fits into the only 8mm hole on the reluctor wheel.



The internal indexing dowel pin is designed to fit into the dowel pin hole on the crankshaft. It is adjustable to fit different depths. The combination of dowel pins gives very precise alignment of the reluctor wheel and crankshaft.

Description	Order No.
Reluctor Ring Installation Tool	RRJ-350
Temperature Indicating Crayon (450° F/232°C)	TIC-450

Heat reluctor ring to 450°F (232°C) then slide it onto the casting. Be sure to deburr all components before beginning assembly. Any sharp edges will cause the reluctor ring to catch on the casting, making assembly impossible.



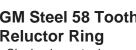
GM Steel 58 Tooth Reluctor Ring

- · Single piece steel
- Fits LS2, LS3 & LS7
- Order No. RR-58T



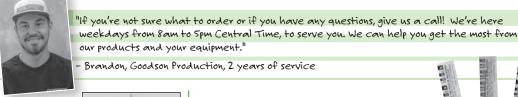
24 Tooth **Billet Steel** Reluctor Ring

- For LS1 & LS6 Engines
- · Single piece
- Order No. RR-24T



105





our products and your equipment."

Brandon, Goodson Production, 2 years of service

Stroke Checker

- · Accurately measure strokes up to 6"
- · Works with any precision caliper to accurately measure crankshaft strokes
- · Measures strokes up to 6" with an accuracy of .001"
- Rigid, hard-anodized aluminum frame is fully adjustable
- Fits almost any crankshaft
- Order No. CSG-1

See page 127 for our selection of calipers



Plastigage

- · Accurately measure bearing clearance
- · Color coded by size
- · Put a piece on rod or main bearing and torque the cap
- · Remove and inspect width of crushed Plastigage shows clearance
- · Use at the workbench or in the vehicle

10 per pack

. o po. pao.:	(A) (1)
Clearance Range	Order No.
.001" to .003" (.025 to .076mm)	PG-GREEN
.002" to .006" (.051 to .152mm)	PG-RED
.004" to .009" (.102 to .229mm)	PG-BLUE
10pk. Assortment : 5 Green, 3 Red, 2 Blue	PG-10PK

Heavy Duty Steel Stamps

- · For hard materials
- Order in sets

	Nun	nber Sets	
Figure	Shank		Order No.
1/8"	⁵ ∕16"		SFH-1/8
³ /16"	3/8"		SFH-3/16

Special and custom orders are available, call 1-800-533-8010

Crankshaft Straightening Peening Tool

- Designed for narrow journals on some new-style V6 crankshafts
- · Peen crankshafts in the radius area of damaged journals to straighten
- Long-shank
- · Offset-radius face
- 10" long 0.0625" radius
- 0.125" diameter

Description	Order No.
Peening Tool	CPT-062
Safety Glasses	PGL-21



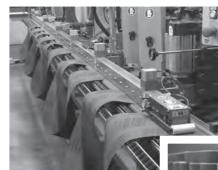
protective gear.

Sanding, Grinding, Polishing Belts **Made to Order In-House**

To provide you better service and save you money, Goodson bought an abrasive converting company in 2017. Since then, we've added equipment and personnel and we're cranking out abrasive belts for a wide range of industries. Abrasive Industrial Supplies is operated as a division of Goodson and our feet are still firmly placed in the automotive market.

Almost every abrasive belt shown in the Goodson catalog is manufactured by Abrasive Industrial Supplies (AIS) but that's just the beginning. We know you use belts on machines other than cylinder head resurfacers and crankshaft polishers and we're ready to meet those supply needs too.

Contact your Customer Service Representative today to get current pricing. Have AIS make something great for you!









Includes 1 each of:

- Grind Aid,
- · Polishing Rouge,
- Abrasive Dresser and
- 5-Pack of our most popular 72" belts
- Order No. CP-KIT



Grind Aid

- Cools and lubricates
- Reduces loading-up and grain fracturing
- Belts produce a better finish and last up to twice as long
- · Use only on cloth-back belts such as those shown on pages 108 & 109
- Order No. GRA-10

Polishing Rouge

- · Produces high luster finish
- Use with light pressure, for cork or fine grit polishing to finish crank journals perfectly
- · Hard, dry compound becomes viscous with heat
- White 16 oz. / 454 g
- Order No. CPR-16





- Prolongs belt life
- Hold at 45° angle on moving belt to remove foreign material
- · Restores cutting ability of grains
- 2" x 2" x 4" / 51 x 51 x 102mm
- Order No. ACB-224



Check out the 72" Crankshaft Polisher in action! available Polishing episode of Tech Lab Tuesday.



Shown with flanged rollers

To keep motor operating efficiently, clean regularly with compressed air. Not recommended for use on chrome-plated items, which can damage the motor.

> Includes 5 of our most popular 72" Belts (PCP-72PAK)

Extend the life of your polishing belts by releasing the tension when not in use.

Crankshaft Polisher

• Flex resistant steel frame

Weighs 15 lbs. (6.8 kg)









- 1" non • 1/2 HP
- Specif

· Crowned rollers keep snug belt running true

• 110V,

72" 110V

minal = 1.625" P motor design ify flanged or u , 60Hz Motor	ed fo	r high RPM i	not heavy loads	PCP-2F
Width				PCP-2F
Actual	HP	Max. RPM	Order No.	

Roller Width					P	CP.	·2F
Nominal Actual	HP	Max. RPM	Order No.				
1"/25mm 1.625"/41mm	1/2	10,000	PCP-1072				
2"/51mm 2.625"/67mm	1/2	10,000	PCP-1072-2				
Replacement Parts and Re	ollers			lr	ıclu	des	S
Flanged Roller Sets	1"		PCP-1				▼
(3 piece set)	2"		PCP-2			•	
Unflanged Roller Sets	1"		PCP-1S		▼		
(3 piece set)	2"		PCP-2S	•			
Flanged Drive Roller	1"		PCP-1D		1		1
Fits %" shaft - 1 ea.	2"		PCP-2D	1		1	
Flanged Roller Assembly	1"		PCP-1F				2
¾" x 16 thread - 1 ea.	2"		PCP-2F			2	
Unflanged Roller Assembly	1"		PCP-1-1EA		2		
3/4" x 16 thread - 1 ea.	2"		PCP-2-EA	2			
Bearing - 1 ea.			PCP-BRG				
Replacement Switch			PCP-SWITCH-72				
Replacement 110V, 60Hz Mo		ound housing)	PCP-MOTOR-RS				
Retrofit Motor Adaptor (round to square		uare housing)	PCP-RFK				
Retrofit Motor Adaptor (square to round hou			PCP-RFK2				
Replacement Motor Brush	Set (1 F	air)	PCP-BRUSH-72				

- Josh, Abrasive Industrial Supplies Belt Technician, 2 years of service

Ever wonder why Goodson offers so many crankshaft available Tech Lab Tuesday video polishing belts? Watch the

in which we explain the method behind our madness. Scan the code below with your smart phone or other smart device for instant

10% off jobber

Order 5 or more boxes of crank

polishing belts (any combination)

access to the video.

SAVE

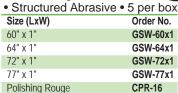


- · Ideal for hand polishing of high-performance crankshafts
- Non-directional polish
- · Won't remove material
- Aluminum oxide abrasive
- Measures: 3/4"x10' 1 Per Box
- Order No. GFR-750

Premium Ceramic **Micro**

Polishing Belts Use with Polishing rouge to g

achieve high luster finish





Crankshaft Polishing Belt Sample Pack

These sample packs include our most popular belts. Contents may vary.

Long	Wide	Qty.	Order No.
64"	1"	5	PCP-64PAK
72"	1"	5	PCP-72PAK
72"	2"	2	PCP-72PAK-2

240 to 600 Grit Premium Ruby **Aluminum-Oxide Crankshaft Polishing Belts**

- · Ruby Aluminum-Oxide abrasive specifically for use on metal
- Closed coat J-weight cloth backing with high strength joint
- Phenolic resin-over-resin bond

full service

- Polish better and outlast other standard polishing belts
- Color may vary due to manufacturing process

Belts with * are made to order. Please allow 3 to 5 working days for delivery.



		STRAIGHT EDGE	(10 nor hov)	_	
	***	STRAIGHT-EDGE		400.0 1:	
L	W	240 Grit	320 Grit	400 Grit	600 Grit
60"	3/4"	R60x ³ / ₄ x240	R60x ³ / ₄ x320*	R60x ³ / ₄ x400	R60x ³ / ₄ x600
	1"	R60x1x240*	R60x1x320	R60x1x400	R60x1x600
	1 ¹ / ₄ "	R60x1 ¹ / ₄ x240*	R60x1 ¹ / ₄ x320*	R60x1 ¹ / ₄ x400*	R60x1 ¹ / ₄ x600*
	1 ¹ / ₂ "	R60x1 ¹ /2x240*	R60x1 ¹ / ₂ x320*	R60x1 ¹ / ₂ x400*	R60x1 ¹ /2x600*
	1 ³ / ₄ "	R60x1 ³ / ₄ x240*	R60x1 ³ / ₄ x320*	R60x1 ³ / ₄ x400*	R60x13/4x600*
	2"	R60x2x240*	R60x2x320*	R60x2x400	R60x2x600*
64"	3/4"	R64x3/4x240	R64x ³ / ₄ x320	R64x3/4x400	R64x ³ / ₄ x600
	1"	R64x1x240	R64x1x320	R64x1x400	R64x1x600
	1 ¹ / ₄ "	R64x1 ¹ / ₄ x240*	R64x1 ¹ / ₄ x320*	R64x1 ¹ / ₄ x400	R64x1 ¹ / ₄ x600*
	1 ¹ / ₂ "	R64x1 ¹ /2x240*	R64x1 ¹ / ₂ x320*	R64x1 ¹ / ₂ x400	R64x1 ¹ /2x600
	1 ³ / ₄ "	R64x1 ³ / ₄ x240*	R64x1 ³ / ₄ x320	R64x1 ³ / ₄ x400*	R64x13/4x600*
	2"	R64x2x240	R64x2x320	R64x2x400*	R64x2x600
72"	3/4"	R72x3/4x240	R72x3/4x320	R72x3/4x400	R72x3/4x600
	1"	R72x1x240	R72x1x320	R72x1x400	R72x1x600
	1 ¹ / ₄ "	R72x1 ¹ / ₄ x240*	R72x1 ¹ / ₄ x320	R72x1 ¹ / ₄ x400*	R72x1 ¹ / ₄ x600*
	1 ¹ / ₂ "	R72x1 ¹ /2x240*	R72x1 ¹ / ₂ x320	R72x1 ¹ / ₂ x400	R72x1 ¹ /2x600
	1 ³ / ₄ "	R72x1 ³ / ₄ x240*	R72x13/4x320	R72x13/4x400*	R72x13/4x600
	2"	R72x2x240*	R72x2x320*	R72x2x400	R72x2x600
77"	3/4"	R77x ³ / ₄ x240*	R77x3/4x320*	R77x¾x400*	R77x¾x600*
	1"	R77x1x240*	R77x1x320	R77x1x400	R77x1x600
	1 ¹ / ₄ "	R77x1 ¹ / ₄ x240*	R77x1 ¹ / ₄ x320*	R77x1 ¹ / ₄ x400*	R77x1 ¹ / ₄ x600
	1 ¹ / ₂ "	R77x1 ¹ /2x240*	R77x1 ¹ / ₂ x320	R77x1 ¹ / ₂ x400	R77x1 ¹ / ₂ x600*
	1 ³ / ₄ "	R77x1 ³ / ₄ x240*	R77x1 ³ / ₄ x320*	R77x1 ³ / ₄ x400*	R77x13/4x600*
	2"	R77x2x240*	R77x2x320*	R77x2x400*	R77x2x600*

All abrasives are guaranteed for 1 year from the original purchase date

& SUPPLIES

Blue 800 Grit Crankshaft^{*} **Polishing Belts** With Scrum Back

- · Film substrate with aluminum-oxide abrasive
- 10 belts per box
- · High quality joint with scrum back
- · Highly flexible and long lasting

Size	Order No.
60" x ³ / ₄ "	BF-60X3/4X800
60" x 1"	BF-60X1X800
64" x ³ / ₄ "	BF-64X3/4X800
64" x 1"	BF-64X1X800
72" x ³ / ₄ "	BF-72X3/4X800
72" x 1"	BF-72X1X800
77" x 1"	BF-77X1X800

Crank Welding Plug Rods

- 3 diameters available
- Each rod is 121/2" long and cuts off easily
- · Sharpen ends with your existing pencil sharpener
- 5 Crank Welding Plug Rods per pack

.250"	CWPR-250
.312"	CWPR-312
.375"	CWPR-375



10 Belts Per Box

240, 320 & 400 Grit Standard Polishing Belts



Belts with
* are made
to order.
Please
allow 3 to 5
working days

for delivery.

- US CAMI Grade aluminum-oxide abrasive
- 2-layer glue bond Fast break-in
- Use with Polishing Rouge (CPR-16) for better finish
- Highly flexible J-Weight cloth backing
- · Less aggressive belts for polishing



		STANDARD STRAIGHT-	EDGE (10 per box)	
	Width	240 grit	320 grit	400 grit
60"	3/4"	60x ³ /4x240	60x3/4x320	60x3/4x400
	1"	60x1x240	60x1x320	60x1x400
	11/4"	60x1 ¹ / ₄ x240*	60x1 ¹ / ₄ x320*	60x1 ¹ / ₄ x400
	1½"	60x1½x240*	60x1½x320*	60x1½x400*
	13/4"	60x13/4x240*	60x13/4x320*	60x13/4x400*
	2"	60x2x240*	60x2x320*	60x2x400*
64"	3/4"	64x ³ /4x240	64x3/4x320	64x3/4x400
	1"	64x1x240	64x1x320	64x1x400
	11/4"	64x1 ¹ / ₄ x240*	64x1 ¹ / ₄ x320*	64x1 ¹ / ₄ x400*
	1½"	64x1½x240*	64x1½x320*	64x1½x400*
	13/4"	64x13/4x240*	64x13/4x320	64x13/4x400*
	2"	64x2x240*	64x2x320*	64x2x400*
70"	3/4"	70x3/4x240*	70x3/4x320	70x3/4x400
	1"	70x1x240	70x1x320	70x1x400
	11/4"	70x1 ¹ / ₄ x240	70x1 ¹ / ₄ x320	70x1 ¹ / ₄ x400*
	1½"	70x1½x240*	70x1½x320*	70x1½x400*
	13/4"	70x13/4x240*	70x13/4x320*	70x13/4x400*
	2"	70x2x240*	70x2x320*	70x2x400*
72"	3/4"	72x ³ /4x240	72x3/4x320	72x3/4x400
	1"	72x1x240	72x1x320	72x1x400
	11/4"	72x1 ¹ / ₄ x240	72x1 ¹ / ₄ x320*	72x1 ¹ / ₄ x400*
	1½"	72x1½x240*	72x1½x320	72x1½x400*
	13/4"	72x13/4x240	72x13/4x320*	72x13/4x400
	2"	72x2x240	72x2x320	72x2x400
77"	3/4"	77x ³ /4x240*	77x3/4x320	77x3/4x400*
	1"	77x1x240	77x1x320	77x1x400
	11/4"	77x1 ¹ / ₄ x240*	77x1 ¹ / ₄ x320*	77x1 ¹ / ₄ x400*
	1½"	77x1½x240*	77x1½x320	77x1½x400*
	13/4"	77x13/4x240*	77x13/4x320*	77x13/4x400*
	2"	77x2x240*	77x2x320	77x2x400

All abrasives are guaranteed for 1 year from the original purchase date

SAVE 10% off jobber!

Order 5 or more boxes of crank polishing belts (any combination)



Standard Scalloped Edge Crankshaft Polishing Belts

- 10 per box 320 grit 1" wide
- Ideal for radius polishing
- Double layer urea glue bond CAMI grade polishing belts

Length		Order No.
64"		S64x1x320
72"		S72x1x320



Fine Finish

- Gold Aluminum-oxide Flexible, woven blue backing **Very** aggressive
- Phenolic Resin-Over-Resin bond
- Sharper grains cut faster without sacrificing finish • Use with Grind Aid (GRA-10) or Polishing Rouge (CPR-16) for cooler polishing or grinding



Fine Finish (10 per box)					
Length	Width		320 grit	400 grit	
60"	1"		G-60x1x320	G-60x1x400	
64"	1"		G-64x1x320	G-64x1x400	
72"	1"		G-72x1x320	G-72x1x400	
77"	1"		G-77x1x320	G-77x1x400	

Scotch-Brite Style Micro Finish

• Rigid, 3-dimensional back • Resin bond • Aluminum-oxide abrasive • Non-directional Satin finish

• Use with Grind Aid (GRA-10)

000.		a (0 10110)					
Micro-Finish (1 per box)							
Length	Width	Order No.					
60"	3/4"	GFB-60 x 3/4					
	1"	GFB-60 x 1					
64"	3/4"	GFB-64 x 3/4					
	1"	GFB-64 x 1					
70"	3/4"	GFB-70 x 3/4					
	1"	GFB-70 x 1					
72"	3/4"	GFB-72 x 3/4					
	1"	GFB-72 x 1					
77"	1"	GFB-77 x 1					
91"	1"	GFB-91 x 1					



Scotch-Brite Style Super-Micro Finish

- Produces a mirror-like non-directional finish
- Resin bond Silicon-Carbide abrasive
- For final Satin finish Use with Grind Aid (GRA-10)

Super-Mi	cro Finish (1 per box	k)
Length	Width	Order No.
60"	34"	SGFB-60 x 3/4
	1"	SGFB-60 x 1
64"	3/4"	SGFB-64 x 3/4
	1"	SGFB-64 x 1
70"	3/4"	SGFB-70 x 3/4
	1"	SGFB-70 x 1
72"	34"	SGFB-72 x 3/4
	1"	SGFB-72 x 1
77"	34"	SGFB-77 x 3/4
	1"	SGFB-77 x 1



800 Grit Abrasive Cork Super-Fine Finish

Won't disturb polished radii

• Silicon-carbide • Use with Polishing Rouge (CPR-16) for High Luster finish

Abrasive	Cork (1 per box)
Length	Width	Order No.
64"	3/4"	CPB-64-3/4
	1"	CPB-64-1
70"	3/4"	CPB-70-3/4
	1"	CPB-70-1
72"	3/4"	CPB-72-3/4
	1"	CPB-72-1
77"	3/4"	CPB-77-3/4
	1"	CPB-77-1



Need A Size You Don't See? Give Us A Call; We Make Most Belts In-House!

REBUILDING

SSEMBLY & SAFETY



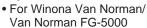
another

FG-3B

"Goodson was able to help me select the right grinding stones for our racing clutch and flywheel program. Their support and technical advice is always available to keep our program on the right track.

- Johnny Ahten, Johnny Ahten Racing - Goodson customers since 2005

Flywheel Radius Cutter Tip Holder



• Holder measures 1.5"L with a .312" dia. shank

Includes 1 indexable FG-3B cutter tip

morado i machabic i c	J OB Gattor tip
Description	Order No.
Tip Holder	FG-5011
Replacement Tip	FG-3B







Flywheel Cutter Tip For Winona Van Norman 570 Rotary Broach

- 3-edge carbide cutting tip for use with the special flywheel attachment
- Order VN-FW

Flywheel Grinder **Bolt** Adaptors





FG-LOCK

- Replace shoulder bolts with standard hardware
- Low-cost adaptor converts any ½" or ¾6" bolt to a ¾" ID
- Includes countersunk adaptor with bolts for extra clearance

Fits	Size	Order No.
DCM, Peterson, KW	½" x 13	FG-DCP-KIT
WVN	⁷ ∕16" x 14	FG-AB-KIT
WVN Table Insert	OD: 1/8" x 11, ID: 1/16" x 14	FG-LOCK

Flywheel Grinding Coolant

- Formula eliminates rancid coolant
- Synthetic inhibitors
- Dilute 30:1 (water:coolant)

	~,
Size	Order No.
1 Gal. / 3.78L	FG-1101-G
5 Gal. / 18.8L	FG-1102-G

Flywheel Depth Gauge with Dial Indicator

· Measure flywheel before and after grinding to maintain proper depth specifications

• Gauge Assembly includes Dial Indicator, Bar & Magnets

 Spindle Extensions sold separately

Description		Order No.
Gauge Asser	mbly	FGG-12
Spindle	1.5"	DIS-1.5
Extensions	2.5"	DIS-2.5
	3.0"	DIS-3.0



Magnetic feet adjust to flywheel diameter



Flywheel Grinder Table Lubricant

- · Extend flywheel grinder life
- High pressure oil designed to lubricate table bearings and ways
- For all makes of flywheel grinders
- 1 Gal. (3.78L)
- Order No. FG-1131-G









FG-1045-G





Grinding Wheel Dressers & Replacement Cutters

Diamond Dresser Tools are available on pages 114 & 115 Cutter Assemblies Replacement Cutters

	Cutter A	Socilibiles				1/6	piaceille	iii Gullei 3	
Applications	OD	W	Order No.	Pieces	Washers	OD	ID	Thick	Order No.
Peterson (12mm shaft) ••••	• • • • • • •	•••••	•••••	8 stars	3	2.375"	1.50"	.093"	GS-17
					1 w/locking tangs	1.75"	1.50"	.060"	
WVN SM2000, 4000, 5000,	1.250"	.978"	FG-1165-G	7 stars	none	1.25"	0.313"	.095"	FG-1161-G
6000C, 6000A, MG3000, 385	0								
Peterson & DCM	2.375"	2.262"	FG-1070A-G	5 stars		2.375"	1.132"	.1375"	FG-1070-G
Hand held			FG-1045-G	1 stone	none	1.50"	0.313"	.6250"	FG-1044-G
Desmond-Style Dresser for w	heels to 10)"	GS-0	4 blades	, 2 spacers		0.250"		GS-00
				4 blades	, 2 spacers		0.500"		GS-11

Petroleum Based grease-based compound Petroleum based valve facilitates precise mating between valve seats and valves • Use with any powered or manual valve · The higher the number, the finer the grit

Size	Grit	Jobber	Order No.
2 oz. / 56.7g	400 Grit		VLC-2-400
	600 Grit		VLC-2-600
	800 Grit		VLC-2-800
	1200 Grit		VLC-2-1200

More lapping compounds on page 17



Valve Lapping Compound · Silicon-carbide,

lapping compound

lapping tools

Put a dab of valve lapping compound on a dowel pin that just won't come out, then use your puller to extract it. The grit in the lapping compound gives you more grip so you can successfully pull stubborn dowels.

Pin Pal Puller

- · Remove dowels fast
- Adjusts to pull all sizes of dowels
- · Locking pliers with special hardened jaws hold firm while 4 lb. slide hammer forces dowels out
- · Also pulls pressed-in hollow tubes or frozen shafts
- · Rugged steel construction

Description	Order No.
Complete Tool	GA-300
Replacement Jaws	GA-300E-R





- Wrap-around design
- Tinted lenses provide sun glare protection
- Universal bridge
- Polycarbonate lenses
- · Do not use as welders helpers
- Order No. PGL-21

Heavy Metal

An essential component when balancing rods & pistons to crankshafts to ensure proper engine operation. Contains 90% Tungsten

HEAVY METAL – TUNGSTEN 90%								
Hole	Press Fit	1.0" Long		1	I.2" Long			
in	+ in/mm	Grams	Order No.	Grams	Order No.			
1/2"	.002"/.05	57	HM-57	65	HM-72			
3/4"	.002"/.05	122	HM-122	147	HM-162			
7/8"	.002"/.05	169	HM-169	198	HM-198			
1"	.002"/.05	227	HM-227	265	HM-265			

NOTE: Due to market fluctuations, heavy metal prices are subject to change without notice. Please confirm pricing when ordering.

from the techxperts™

It is essential, when pulling a dowel, that the tightening sleeve is installed with the flared end toward the collet. This will allow the tightening sleeve to slide over the collet, locking it to the dowel you are removing. Also, be sure to select the correct collet size for the dowel you are removing.



 Slide hammer action removes stubborn dowels

- · Use on blocks, heads, flywheels, etc.
- · Split collets grip firmly without causing damage
- A high-quality tool that lets you reuse dowel pins
- Choose from SAE or Metric kits
- All items also sold separately

All licins also sold separately								
Descrip	tion		Order No.	In	ıcl.			
Standar	d Kit		GA-600		•			
Metric K	(it		GA-600M	▼				
Slide Sh	naft (14" L	_)	GAO-1	Х	Х			
Slide Ha	ammer	GAO-2	х	Х				
Tighten	ing Sleev	GAO-3	Х	Х				
Gripping	g Collets							
OD	ID	mm						
1"	.1575"	4.00	GAO-22	Х				
1"	.1875"	4.76	GAO-4					
1"	.1969"	5.00	GAO-13	Х				
1"	.2362"	6.00	GAO-14	Х				
1"	.2500"	6.35	GAO-5		X			
1"	.2756"	7.00	GAO-26					
1"	.3125"	7.94	GAO-6		X			
1"	.3150"	8.00	GAO-10	Х				
1"	.3750"	9.53	GAO-7		X			
1"	.3937"	10.00	GAO-23					
1"	.4375"	11.11	GAO-8		X			
1"	.4724"	12.00	GAO-24					
1"	.5000"	12.70	GAO-9					
1"	.6250"	15.88	GAO-20					
Remova	al Basin		GAO-21	X	X			

Parts are stamped for easy identification & reordering

Removal Basin GAO-21

available

Scan the code below

on your smart phone

or other smart device

to watch our How-

To video on Dowel

Slide

Hammer

GAO-2

Tightening

Slide Shaft GAO-1 1/2"-20 NF thread Gripping Collets (see

chart)

Sleeve

GAO-3

Pulling.

For Best Results.. **Choose The Right Flywheel Stone From** Goodson

Goodson stones feature 50% more usable abrasive and much stronger construction, yet sell at prices comparable to ordinary stones. With Goodson stones you'll get longer wheel life and lower-cost flywheel grinding.

Cast Iron:

Cast Iron (soft) flywheels need to be ground with harder stones. Experiment to find the best stone. A starting point is the FGW-57, our best all-around stone for Cast Iron.

Cast Steel:

Cast Steel (medium) flywheels require medium-hard stones. The FGW-65 is our best all-around stone for Cast Steel.

Billet Steel:

Billet Steel (very hard) flywheels need to be ground with softer stones. Our best all-around stone for Billet Steel is the FGW-50-2. It's our most friable and free-cutting, requiring minimal dressing.

10% off jobber! Order 5 or more flywheel grinding stones (any combination)



- · Many flywheel grinders have lower mounting flanges that won't fit inside 3" and 4" diameter flared-cup stones
- Use this adaptor to avoid damage when mounting small stones
- Fits most small diameter stones
- Order No. FG-FLANGE

Goodson carries a wide selection of available flywheel grinding stones. Watch as we unpack the reasons why in our Tech Lab Tuesday video "Choosing the Right Flywheel Stone." Scan the code at right with your smart phone or other smart device for



Coolant on pages 74 and 110

Silicon-Carbide Abrasive

CAST IRON (Passenger cars, light trucks)

A B	C Arbor	Description	Order No.
6" 41/2"	25/8" 11/4"	Harder than FGW-57, lasts longer, black	FGW-67
6" 41/2"	25/8" 11/4"	Best all-around for cast iron, black	FGW-57
6" —	21/2" 11/4"	Straight-sided FGW-57, black	FGW-57S
6" 41/2"	2%" 11/4"	Softer than FGW-57, grinds faster, black	FGW-47
6" 43/4"	21/4" 11/4"	Silicon-carbide, ideal for top fuel, black	FGW-37
6" 43/4"	21/8" 11/4"	Silicon-carbide, softer, finer grit than FGW-37	FGW-37F
4" 3"	2" 11/4"	Small diameter FGW-57, black	FGW-61
4" 3"	2" 11/4"	Small diameter FGW-37, black	FGW-374
3" —	2" 11/4"	Straight-sided green silicon-carbide, premium	FGW-93

Silicon-Carbide/Aluminum-Oxide Combination

CAST STEEL (Industrial, agricultural, OTR trucks)

_				— (, e.g., e.g., e., e., e.,		
Α	В	С	Arbor	Description	Order No.	
6"	41/2"	2"	11/4"	Harder than FGW-65 lasts longer, lt. gray	FGW-53	
6"	41/2"	25/8'	11/4"	Best all-around for Cast Steel, speckled	FGW-65	4
6"	41/2"	25/8'	11/4"	Slightly softer than FGW-65, black	FGW-495	EH/GEGEWACE
4"	3"	2"	11/4"	Small diameter FGW-65, speckled	FGW-69	
6"	41/5"	25/8'	11/4"	Softer than FGW-65, grinds faster, black	FGW-49	

Aluminum-Oxide Abrasive

BILLET STEEL (Import vehicles, high-performance)

Α	В	С	Arbor	Description	Order No.
6"	41/2"	25/8"	11/4"	Harder, ruby stone, lasts longer	FGW-64
6"	41/2"	25/8"	11/4"	Harder, pink stone, lasts longer	FGW-62-1
6"	41/2"	21/2'	11/4"	Harder than FGW-50-2	FGW-50
6"	41/2"	21/2'	11/4"	Best all-around for Billet Steel	FGW-50-2
4"	31/2"	11/2'	11/4"	Harder, pink stone, lasts longer	FGW-63-1
4"	3"	2"	11/4"	Taller than FGW-56, more abrasive, white	FGW-306
4"	31/2"	11/2"	11/4"	Premium	FGW-56P
4"	31/2"	11/2"	11/4"	Small diameter, off white	FGW-56
3"	21/4"	11/4"	3/4"	Small diameter, light gray	FGW-59
3"	_	2"	11/4"	Straight-sided sugar white stone	FGW-92
				NOTE: Due to manufacturing process, colors may vary.	

All abrasives are guaranteed for 1 year from original purchase date.

A TYROLIT Company

Use a 3/8" Cap Screw & Washer to mount 2" & 3" Diameter CBN Flywheel Grinding Wheels to Your Flywheel Grinder



FlyMaster® CBN Super Abrasive Flywheel Grinding Wheels

• For cast iron • Light to heavy applications

Α	В	C A	rbor		Shape	Grit	Order No.
2"	2"	0.4"	3/8"		Straight	100	CBN-200
3"	3"	0.4"	3/8"		Straight	100	CBN-300
2"	1 ³ / ₈ "	7/8"	3/8"		Cup	100	2H0998
3"	2"	1 ¹ / ₄ "	1 ¹ / ₄ "		Cup	100	261453
33/4"	25/8"	$1^{1}/_{2}$ "	1 ¹ / ₄ "	##=	Cup	100	2371052
33/4"	25/8"	1½"	1 ¹ / ₄ "		Cup	60	34296362
5"	33/4"	$1^{3}/_{4}$ "	1 ¹ / ₄ "	24m	Cup	100	2379270
6"	45/8"	1%"	1 ¹ / ₄ "	24m	Cup	100	2367275*
6"	45/8"	11/8"	1 ¹ / ₄ "		Cup	60	2G7480
CBN	Dres	sing S	tick ¹ /2"	x ¹ / ₂ " x 6"			DS-CBN

*Most popular application

Order 5 or more Flywheel Grinding Stones (any combination) and SAVE 10% off Jobber

Flywheel Grinding **Stones**

Four Abrasive formulas to choose from

SILICON-CARBIDE ABRASIVE
Ductile Iron, Cast Iron & Steel (Black)

Α	В	С	Arbor	Hardness	Shape	Order No.
3"	21/2"	11/2"	11/4"	Med. Hard	Flared	U364512
4"	3"	2"	11/4"	Med. Soft	Flared	U335369
6"	41/2"	21/2"	11/4"	Med. Soft	Flared	U324495
6"	41/2"	21/2"	11/4"	Med. Hard	Flared	U335376
6"	41/2"	21/2"	11/4"	Hard	Flared	U335377
6"	4½"	21/2"	11/4"	Med. Soft	Flared	U357854
6"	4½"	21/2"	11/4"	Med. Hard	Flared	U343805

EXTENDED LIFE CERAMIC

Α	В	С	Arbor	Hardness	Shape	Order No.
6"	41/2"	3"	11/4"	Med. Hard	Flared	U370095

ALUMINUM-OXIDE ABRASIVE

Mild Steel & Hardened Steel (White)

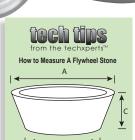
Α	В	С	Arbor	Hardness	Shape	Order No.
6"	4½"	21/2"	11/4"	Soft	Flared	F342636

ALUMINUM-OXIDE ABRASIVE

Light to Medium Stock Removal on Steel, Cast Iron & Ductile Iron (Ruby)

Α	В	С	Arbor	Hardness	Shape	Order No.
4"	3"	2"	11/4"	Medium	Flared	F348769
6"	41/2"	21/2"	11/4"	Soft	Flared	F372039
6"	41/2"	21/2"	11/4"	Med. Soft	Flared	F348771
6"	4½"	21/2"	11/4"	Medium	Flared	F348772
6"	4½"	21/2"	11/4"	Hard	Flared	F348773

Colors may vary due to the manufacturing process





Never dress your Superabrasive with the dresser attachment on your machine. Use our CBN dressing stick for best results.



· For hard, spray coated floaters and flywheels

· Not for use on cast iron or steel flywheels

• A = 6" | B = $4^{5}/8$ " | C = $1^{7}/8$ " | Arbor = $1^{1}/4$ "

• Order No. 2E5742



Big Brute™ Flywheel Grinding Stone

- Medium-Hard Silicon Carbide abrasive formula • Extra beefy for better grinding
- Measurements: A = 6" | B = 43/4" | C = 3" | Arbor = $1^{1}/_{4}$ " (see graphic above)
- Order No. **U69693**

TOOLS & SUPPLIES

V-TWIN & METRIC

Diamond Dresser Tools shown at approximately full size G-1L G-2 **SOURS & SUPPLIES** G-9 G-11 G-13P G-15 G-17 G-18 G-19 G-25 G-27 Diamond: Selected for very high point definition. A sharper diamond cuts ... faster and gives a superior finish. Matrix: Matrix material is bronze or copper-based for a tight hold on the diamond & high heat transfer Holder: Cold rolled steel. Threaded types have precision threads over a long distance to screw easily into tool holders and support cutting point firmly to prevent vibration. Diamonds are stamped for easy identification and re-ordering **Premium Diamond Resetting Service:** V-TWIN & METRIC Send your worn premium diamonds to Goodson for fast resetting. HARD PARTS Prices quoted upon request. Reset when wear facets exceed % on a % to % carat diamond and 1/8" on a 1 carat or larger. G-80 G-30 G-32A G-33

made in america

A diamond tool is only as good as the diamond itself. GOODSON diamonds are furnished by the most respected supplier in the U.S. Each is subjected to a microscopic examination by experts and must meet strict standards to be accepted. This rigorous inspection and careful control during manufacturing assures consistent high quality. Our diamond tools deliver the highest levels of performance and longevity.

In addition to our standard diamond tools, GOODSON stocks a wide selection of Premium Quality Diamonds. These diamonds last longer and improve wheel performance. They stay sharp longer and have more points so they can be reset more times. Because of this quality, they will dress harder wheels and wheels will need to be dressed less frequently. If you don't see the diamond you need in a premium quality, call 1-800-533-8010 for a special order.

	Machine	Description	Carat	Standard	Premium
Valve Refacers	B&D, Skil, Sioux™, Thor, VanDorn, WVN	3/8" x 15/8"	1/5	G-1	G-1P
	Kwik-Way, Tobin Arp (S&D)	5/16" x 21/2"	1/5	G-3	
	Kwik-Way, Valve Master (1714)	1/2" x 31/4" 20NF	1/5	G-4	
	Sioux™ (1713, 1715), IDL, WVN (CG50, CG80)	3/6" x 23/4" 24NF	1/5	G-5	G-5P
	IDL, WVN (CG50, CG80)	3/8" x 31/4" 24NF	1/5	G-80	
	US	7∕16" x 2"	1/5	G-6	
	Skil (Talent)	5/16" x 21/4" 18NC	1/5	G-9	
	Kwik-Way	7/16" x 23/4" 20NF	1/5	G-17	G-17P
Valve Seat Grinders	B&D, S&D, Van Dorn	3/8" x 21/4" 24NF	1/5	G-2	
	Kwik-Way	½" x 3¼" 20NF	1/5	G-4	
	Sioux [™] (1715), K-W (NSG), Thor	3/8" x 23/4" 24NF	1/5	G-5	G-5P
	Hall HD (13-1938P), Skil, Snap-On, B&D	5/16" x 21/4" 24NF	1/5	G-8	G-8P
	KO Lee, Skil	5/16" x 21/4" 18NC	1/5	G-9	
	Sioux [™] Heavy Duty (1715B, 1719)	3/8" hex RH thread	1/5	G-11	
	Goodson Universal Wheel Dresser	8mm x 1.25mm	1/5		G-13P
	Sioux™ Heavy Duty (1715A)	3/8" x 23/4" 24NF	1/2	G-15	
	Kwik-Way Heavy Duty Wheel Dresser	½" x 3" 20NF	1/5	G-18	G-18P
Clutch Grinders	Lempco AC, NAC, VAC & Do-ALL	7/16" x 2"	1/5	G-6	
Piston Grinders	Van Norman 75, 76 & Relio	3⁄8" x 15⁄8"	1/5	G-1	G-1P
	Storm-Vulcan D-3	⁷ ∕16" x 2"	1/5	G-6	
Drum Lathes	Van Norman (all except 302, 302H)	3⁄8" x 15⁄8"	1/5	G-1	G-1P
	Barret, V.N. 302, 302H	3⁄8" x 3"	1/5	G-1L	
	Lempco	⁷ ∕16" x 2"	1/5	G-6	
	Ammco 5000	½" x 1½"	1/5	G-19	
Rod Grinders	Sunnen® Rod & Cap Grinder (CRG-500)	3⁄8" x 15⁄8"	1/5	G-1	G-1P
	Storm-Vulcan No. 65 Rod Grinder	½" x 3¼" 20NF	1/5	G-4	
Crank & Cam Grinders	Storm-Vulcan 14, 15, 15A, 15C, 75, 75A	½" x 3"	3/4	G-25	
		½" x 3"	1	G-25A	
_	Scledum	10mm x 15/8"	3/4	G-27	
	Winona Van Norman/Zanrosso,	7/16" x 11/4", 5%" head	3/4	G-30	
	Lempco, Landis	7/16" x 11/4", 5%" head	1	G-30A	
	Berco	tapered, step type	1	G-32A	G-32AP
	Berco	tapered, step type	11/2	G-32B	
	Storm-Vulcan, WVN CG210, 250, 280	1/2" x 2" 70° radius dress	3/4	G-33	
Flywheel Grinder	Kwik-Way 796	⁷ ∕16" x 2"	1/5	G-6	



- Set tool at a proper angle. Position at 10° to 15° from surface. Smaller angles blunt the diamond. Larger angles may cause the wheel to remove matrix material.
- Prevent vibration in the holder. Any looseness in the tool holder will allow vibration of the tool resulting in poor finish on the wheel.
- 3. Turn coolant on before dressing. Wheels used wet should be dressed wet. To keep diamond cool, turn coolant on before starting to dress. (If wheel is dressed dry, air-cool diamond between cuts but don't quench with water.)
- 4. Start at highest point. Wheels often wear unevenly & may have high & low spots. Set tool to dress high spots first, feed in about .001" per pass until done. This prevents overheating & damage.
- 5. Use steady travel. Uneven travel causes an uneven finish. The best rate is found by experiment, but whatever the rate of travel, it must be even.
- **6. Turn the tool in the holder.** Turn the tool often to expose new diamond surface to the wheel.
- **7. Don't bump or drop diamond.** They are hard but brittle, and can be harmed if dropped or bumped.

CAUTION: Grinding Wheel must never touch the matrix or holder.



Spark Plug Thread Chaser/Burnisher

- · Ideal for spark plug hole cleaning
- Re-forms the original material by burnishing, not cutting, and won't create new chips to clean out
- Order No. SPB-14

Burr Buster

- · Use on air float tables, seat & guide machines, beds of crankshaft grinders and flywheel grinder tables
- Deburrs gasket surfaces on heads, blocks, manifolds, etc.
- 120 grit premium grade abrasive
- 1½" x 2¾" x 9"
- Order No. BB-9

Premium Tapered Reamer

- · Use by hand or with a powered driver to deburr or enlarge tapered holes for valve guides, bolt hole chamfering, and more • Degree of Taper: 2.86°
- Use in ½" chuck at approx. 40 RPM
- OAL: 53/4" Flute Length: 33/4"
- Small End: 1/8" dia.
- Large End: 1/2" dia.
- Order No. TR-216-1

Maxxeon® WorkStar® 364 USB Rechargeable UV Leak Detection Pen/Inspection Light

- 3.7V Lithium battery with USB charger
- Run time: 35 min. continuous, 2 hr. intermittent operation
- Use with Goodson Glow or Magnetic Crack Detection Oil (page 53) • Dust-tight, waterproof to 3 feet

Rechargeable LED Pen/Inspection Light • No batteries to replace! Includes Micro USB charger

• 40 minute continuous or 2-hour intermittent operation

Easily adjustable beam to suit application

Maxxeon® WorkStar® 360

• 3X zoom provides 160 lumens on low • 1X zoom provides 260 lumens on high

- Drop tested to 6 feet
- Order No. DFL-364



- 40 and 60 grit for general grinding
- 100 grit for sharpening carbide tools
- Includes bushings to reduce arbor hole from ¾" to ½" PLUS a %" bushing adaptor

Size	Grit	Jobb	er Order No.							
		*****	ei Oldelivo.							
General Pu	General Purpose Wheels: For steel and cast iron									
6" x ¾"	60	\$	GG-666							
6" x 1"	60		GG-686							
8" x 1"	60		GG-886							
Green Grit	Green Grit Wheels: For sharpening carbide tools									
6" x ½"	100		GGC-641							
6" x ³ / ₄ "	100		GGC-661							
6" x 1"	100		GGC-681							





Grinding Wheel Star Dressers

Description	Order No.
Desmond-Style Hand Dresser for Wheels to 10" Dia.	GS-0
Replacement Cutter Sets	
4 Blades, 2 Spacers, 1/4" ID for GS-0 dresser	GS-00
4 Blades, 2 Spacers, 1/2" ID for GS-1 dresser	GS-11
	4500

Maxxeon® WorkStar® 810 CYCLOPS Rechargeable LED **Work Light**

Dust-tight, waterproof to 3 feet

• Drop tested to 6 feet • Order No. DFL-360

- Puts the light right where you need it • Drop tested to 6'
- · Li-ion battery with USB charger
- 3 light settings
- · Magnetic base attaches the light to your machine
- · Water resistant, do not immerse
- Order No. DFL-810



Deburring Wheels for Bench Grinders Medium-hard wheels are better suited

- for heat sensitive materials
- · Use to clean and polish white metal
- · Buff and Blend Wheels deliver the same results as a wire brush but are much safer to work with

	Description	Size	Qty.	Jobber	Order No.
	Medium-Hard Deburring Wheel	6" x 1" x 1"	1		SCW-68M
l	Buff and Blend Wheels	6" x ½" x 1"	5		BBD-65

RT-VNP-L

.127"

POS

Hole:

Rake

Hole:

Rake:

.117"

POS

Hole:

Rake:









Buy 3 or More 10-Packs (mix & match), SAVE 10% off Jobber



RT-A





RT-VNP-R





RT-360

RT-312





Solid Carbide These standard

grade, solid carbide cutting tips are parallel ground for resurfacing cast iron drums and rotors.

Honed Edge **Carbide**

Parallel & peripheral ground. Honed edges deliver a better finish on cast iron and composite rotors.

Titanium

Premium grade titanium coated carbide. Parallel and peripheral ground for ultimate performance on cast iron & composite rotors.

ASSEMBLY & SAFETY

FLYWHEEL GRINDING

TOOLS & SUPPLIES

10 Pack Brake Lathe Replacement Tips

Machine	Model(s)	OE No.	Edges	Rake	Screws	Order No.	Order No.	Order No.
Ammco	700, 710, OTC Lathes, 1000, 2002, 3000,	6914	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
	4000, 4100, 7000, 7500, 7700							
	3850 smaller (1/64") radius	6918	3	Pos	Yes	RT-3AS-10	RT-3AS-H-10	RT-3AS-T-10
	larger (1/32") radius	7681	3	Pos	Yes	RT-3A-10	RT-3A-H-10	RT-3A-T-10
Twin	6900,6950 negative rake (std.)	6914	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
Cutters:	positive rake (standard) 1/64" (finer finish)	6918	3	Pos	Yes	RT-3AS-10	RT-3AS-H-10	RT-3AS-T-10
	positive rake (modified) 1/32" (more durable)	7681	3	Pos	Yes	RT-3A-10	RT-3A-H-10	RT-3A-T-10
	7900	6914	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
Ammco HD	5000, 6000, 6002	5677	3	Pos	No	RT-373-10		
Accu-Turn	All combination disc/drum lathes	433796	3	Pos	Yes	RT-AC-10	RT-AC-H-10	RT-AC-T-10
	On-The-Car Lathes	878051	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
All-Tool	747	3331	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
Bean	B-401, B-410, B-501, B-601	90487	3	Pos	Yes	RT-FMC-10	RT-FMC-H-10	RT-FMC-T-1
Bear	1410,1466,1467,1468, 1469, 1478 2264	,72265,772834	6	Neg	Yes	RT-B-10		
	10-1430, 10-1435	W136	6	Neg	No	RT-HF-10		
FMC	600, 601, 700, 701, RotoTruer	90487	3	Pos	Yes	RT-FMC-10	RT-FMC-H-10	RT-FMC-T-1
	505, On-The-Car Lathe	91212	3	Pos	Yes	RT-KW-10	RT-KW-H-10	RT-KW-T-10
Hoffman	660	3331	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
Hunter	BL300 On-The-Car Lathe	221580-2	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
	BL-500, BL-501, BL-505	6918	3	Pos	Yes	RT-3AS-10	RT-3AS-H-10	RT-3AS-T-10
	BL-500	221-678-3	3	Pos	Yes	RT-HNT-10		
Kwik-Way	CBL, NCL, SDL Kwik-Lathe OTC Lathe	109-1092-23	3	Pos	Yes	RT-KW-10	RT-KW-H-10	RT-KW-T-10
	Lightening Lathe	109-1092-45	3	Pos	Yes			RT-KWL-T-1
Performance	6600,7200,7100, 7600	3331	6	Neg	Yes	RT-A-10	RT-A-H-10	RT-A-T-10
Pro-Cut	On-The-Car Lathe	50-701, 50-742	3	Pos	Yes	RT-VBG-10	RT-VBG-H-10	RT-VBG-T-1
RJ West	Perfect 400, 1115HD	W139	3	Pos	Yes	RT-AC-10	RT-AC-H-10	RT-AC-T-10
RTI	BRC35 On-The-Car Lathe	91212	3	Pos	Yes	RT-3A-10	RT-3A-H-10	RT-3A-T-10
Snap-On	YA282,YA277,YA278, YA180 OTC Lathe	109-1092-23	3	Pos	Yes	RT-KW-10	RT-KW-H-10	RT-KW-T-10
Van	204, 204D, 205, 205DC, 415, 243XV	29687	3	Pos	No	RT-VN-10	RT-VN-H-10	RT-VN-T-10
Norman	Smaller (1/64") radius		3	Pos	No	RT-VNS-10		
and Rels	204, 304, 405	29005	6	Neg	No	RT-VNA-10		
	303,304,305,404,405,V22	304-7167	2	Pos	No	RT-VNP-L-10		
	204,205,205DR,300,302,333,243,243XV	302-7167	2	Pos	No	RT-VNP-R-10		RT-VNP-RT-
	Rels 2000 rotor	45016, 45021	3	Pos	Yes	RT-RL-10		
VBG	On-The-Car Lathe	50-701	3	Pos	Yes	RT-VBG-10	RT-VBG-H-10	RT-VBG-T-1
Round Tips W	/ith Hole R	T-312,RT-312T	360°	Pos	Yes	RT-312		RT-312T
	Fits RJH and CT Holders	CT10	360°	Pos	No	RT-360-10		

NOTE: The table above shows the original equipment cutting tips for Ammco machines. Most of them use negative-rake tool systems. However, some Ammco machines (especially the 4000 and 7000-series) have been modified in the field by using the TAM-25968 and TAM-25969 positive-rake tool holders (see next page).

If your machine is shown above to have 6-edge tips but has 3-edge tips, it has been modified – please order our R1-3A or R1-3AS series tips.																			
RT-A		RT-3A		RT-AC		RT-HNT	'	RT-VN		RT-B		RT-VNA		0.		T	г!	70	1) [
Height:	.350"	Height:	.343"	Height:	.445"	Height:	.312"	Height:	.545"	Height:	.343"	Height:	.535"	Cu	ШЛ	na		\leftarrow	
Thick:	.095"	Thick:	.093"	Thick:	.131"	Thick:	.103"	Thick:	.125"	Thick:	.105"	Thick:	.188"					HOLE SI	ZE
Hole:	.135"	Hole:	.133"	Hole:	.145"	Hole:	.127"	Hole:	N/A	Hole:	.130"	Hole:	.148"	\/I <i>e</i>	علاذ	Sure	em?	ents	5
Rake:	NEG	Rake:	POS	Rake:	POS	Rake:	POS	Rake:	POS	Rake:	NEG	Rake:	NEG	1010	Juc		<i>-</i>	J1100	
RT-3AS		RT-373		RT-KW		RT-VBG	ì	RT-FMC	;	RT-VNS		RT-RL		RT-VNP	-L / -R	RT-360		RT-312	
Height:	.357"	Height:	.625"	Height:	.358"	Height:	.344"	Height:	.452"	Height:	.547"	Height:	.421"	Height:	.902"	Diamete	er:.311"	Diamete	r:.311"
Thick:	.104"	Thick:	.125"	Thick:	.101"	Thick:	.098"	Thick:	.125"	Thick:	.121"	Thick:	.130"	Thick:	.100"	Thick:	.100"	Thick:	.100"

.090"

POS

Hole:

Rake:

N/A Hole:

POS

Rake:

.147"

POS

Hole:

Rake:

Hole:

Rake:

.124"

POS

.100" .150" POS **V-TWIN & METRIC**

Hole:

Rake:

.125"

POS

N/A Hole:

POS

Rake:

N/A Hole:

POS

Rake:

Tip Holder for Drums

Fits **Ammco** 1000, 2002, 3000, 4000, 4100, 7500 & 7700; All Tool 747; Hoffman 660; Performance 6600, 7200, 7100 & 7600

Dimensions: 1/2" x 3/8" x 21/4" Replaces OE No. 9872 Orientation: Right

Use Tips: RT-A Series (includes 1)

Order No. TAM-41R



- Mike, Goodson Purchasing - 6 years of service

"Goodson products must meet rigorous quality control standards. We test them on a

regular basis to ensure you get the best tools, tooling and supplies."

Tip Holder for Rotors

Fits **Ammco** 3000, 3850, 4000, 4100, 7000 & 6900. 6950 Twin Cutters; All Tool 747; Performance 6600, 7200, 7100, 7600; Hoffman 660

Dimensions: 3/8" x 3/8" x 17/8' Replaces OE No. 10701, 10702 Use Tips: RT-A Series (includes 1)

Left: Order No. TAM-702 Right: Order No. TAM-701



Tip Holder for Rotors

Fits Ammco 3000, 3850, 4000, 4100, 7000 & 6900, 6950 Twin Cutters

Dimensions: 3/8" x 3/8" x 17/8" Replaces OE No. 25968, 25969

Use Tips: RT-3A or RT-3AS (includes 1)

Left: Order No. TAM-25969

Right: Order No. TAM-25968

Tip Holder

for Drums & Rotors

Fits Kwik-Way CBL, NCL, SDL; Snap-On Y282, Y277, Y278, 180

Dimensions: 3/8" x 3/8" x 21/2" Replaces OE No. 109-1091-02, 109-1091-00

Use Tips: RT-KW Series (includes 1)

Left: Order No. TKW-85L Right: Order No. TKW-84R



L-1A L-1L L-1S R-1 R-4

Left Hand Cutting Tools

Brazed Carbide Brake Lathe Tools

· Fit most popular brake drum lathes

Size	Application		Order No.
%" sq. x 2½"	Replaces Bean 43-46L; Bear 23211;		L-1
	Star CB-8; VN 302-7272 for 303, 304	, 304H	
5⁄8" sq. x 4"	Replaces Ammco 5725, for 5000;		L-1A
	Star CB-30; VN "Big Brute" for 310-4	04 Hardspots	
%" sq. x 3½"	Extra long L-1 for small dia. drums		L-1L
¾" sq. x 2½"	Master carbide-tipped with 7° rake ar	ngle	L-1\$
Right Hand Cutt	ing Tools		
Size	Application		Order No.
% " sq. x 2½"	Replaces Bean 43-46R; Bear 20718;		R-1
	Star LB-16; VN 302-7171 for 204, 30		
	302, 302H, 333, 243XV; and Barrett	& Lempco	
¾ " sq. x 2½"	Master carbide-tipped with 7° rake ar	ngle	R-1S
⅓ " sq. x 4"	Replaces Bear 24034, Star CB-35	R-4	
Hardspot	t Cutters		4
Left Hand			
Size	Use Order No.		
3/8" x 1/2" x 23/8"	Drums	L-5	
Right Hand			
Size	Use Jobbe	er Order No.	ALCOHOL: MICH.

R-5

Don't buy a new brake låthe ... expand your existing one to handle rotors up to 15

Lead Screw **Bushing**

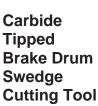
- Easy installation
- Increases lathe capacity to 15"
- Ideal for machining large rotors common on SUVs and large pick-ups
- Fits Ammco 3000 and 4000 Brake Lathes
- Order No. LSB-78529



Brake Shoe Grinding **Sleeves**

 Aluminum-Oxide abrasive

ID	Length	Grit	Order No.
3"	5¼"	40	AS-2
3"	6%"	40	AS-4



- · Hard-to-find tool cuts wheel stud swedges to remove and replace pressed-in wheel studs
- Use with a drill press or mill
- For 1/2" stud
- Order No. ST-500

3/8" x 1/2" x 23/8"

Drums



- Longer lasting than rubber
- Neoprene material resists deterioration associated with standard rubber belts
- 7 sound deadening weights
- Measures: 34" L x 5/8" W x 3/16" Thick
- Order No. GT-6030N



- · Live rubber strap with 7 sound deadening weights
- For vented rotors
- Measures: 34"L \times 5/8"W \times 3/16" thick
- Order No. CE-8



Rubber **Brake Lathe** CE-5S **Tube Silencers** for Vented Rotors

CE-5

- 9/16" OD rubber tube with internal sound dampeners
- · 2 sizes to choose from

Diameter	Weights	Order No.
9"	6	CE-5
8"	4	CE-5S

Magnetic Strap Brake Lathe Silencer for **Non-Vented Rotors**

- Measures 48"L x 1/4" wide
- Eliminates silencer wandering on solid. non-vented rotors
- Order No. CE-10



Spring Silencer For Vented Rotors

- For 6" to 9" rotors
- · Metal spring with internal sound dampeners
- Order No. CE-13



Rubber **Band Brake Lathe Silencers for** Non-Vented Rotors

• Neoprene rubber gasket type bands for thin solid rotors . Both sizes are

5/16" wide x 3/16" thick

Diameter	Order No.
6 ¹ /2"	CE-11
91/4"	CE-12



Rubber Tube Brake Lathe Silencer for Non-Vented Rotors

- For 6" to 9" solid rotors
- Order No. CE-7



- Heavy non-asbestos pucks provide the mass needed to dampen vibration
- Sold as a pair
- Fits Ammco 7075 silencer
- Order No. CE-9



Clamp-On Brake Lathe Silencers For Vented & Non-Vented Rotors

- Follows the cut to absorb vibrations where they start
- Outlast plastic pads, rubber straps and bands

Application	Order No.
For Bench Model Brake Lathes	CE-6
For On-The-Car Brake Lathes	CE-26

Premium Rubber Brake Lathe Silencers for Brake Drums

Premium live rubber straps

 Two sizes to c 		
Application	Size	Order No.
Passenger Cars	62"L x 2 ⁷ /8"W x ¹ /8" Thick	CE-1
Trucks	78"L x 2 ⁷ / ₈ "W x ¹ / ₈ " Thick	CE-2

BRAKE SERVICE

Iron-Clad Guarantee

Replacement **Work Light**

- 30" adjustable arm
- %" round mounting end
- Uses up to 100W standard base bulb (not included)
- Easily accessible switch
- Fits most Ammco models

2.25"OAL

 Order No. GT-7963 Jobber \$102.99



Replacement Switch for **Ammco Brake** Lathes

- Easy to install
- · Fits most models
- Order No. GT-7893



1" Arbor Nut For Ammco

- 7/8" x 9 LH thread
- Fits Ammco 2002, 3000, 4000,4100, 7000, 7700 and 3850 models
- Order No. GT-3102

1" Arbor Nut For All But Ammco

- 1" x 9 LH thread
- Fits AccuTurn 433701, All Tool 747, FMC 601, 701 & 702, Hunter, Van Norman/Rels 204, 243
- Order No. GT-20442N

Brake Lathe Centering **Spring**

- Fits any 1" arbor brake lathe
- 1.687" ID
- 1.927" OD

1" Arbor for Ammco

• Fits Ammco 2002, 3000 4000, 4100, 7000, 7500 & 7700 models

• 7/8" x 9 LH thread

Precision ground

Factory checked for

run-out of less than

stress relieved tool

steel • For drums &

rotors up to 125 lbs.

Order No. GT-3101

.001" • Heat treated,

- 4.000" OAL
- Order No. GT-3110



fasteners



1HP Motor for

Ammco Brake Lathes

7000, 7500 & 7700 models

• Fits 3000, 4000, 4100,

• 208 / 230 / 115V • 60Hz

• 1725 RPM • Shaft: .625"

· Includes motor plate and

Order No. GT-2165

Mounting Spacers

• Fit all 1" arbor brake lathes Length Jobber Order No. 1/2" GT-3125 GT-9492 Flexible



Brass Wear Inserts For Ammco

enlarged to show detail

Sold individually

Cold individually	
Dia. x Lgth.	Order No.
³⁄₁6" x ¹⁄8"	GT-3141
¹⁹ / ₆₄ " x ¹ / ₄ "	GT-3142
(most popular)	
1/4" X 19/64"	GT-9836



Replacement Seals For Ammco

Application	OD	Order No.
Feed Screw	1.25"	3163
Spindle	3.55"	3164



Replacement Screw for Twin Cutter Tool **Bit Holders**

- Square Head Screw
- Order No. GT-9249



Small Ammco **Replacement Parts**

•	
Description	Order No.
Locking Knob	6854
Cross Feed Shear Gear	
with C-Clip	7996

GT-25913

GT-11227

Х



Ammco Rotor & Drum Feed Screw Bushings

	J -
Description	Order No.
Rotor Feed Bushing (early)	GT-10868
Rotor Feed Bushing (late)	GT-10868X
Drum Feed Bushing (all)	GT-4670
Lead Screw Bushing Adaptor	LSB-78529



GT-4670





Nut Assembly (must be used with 6½" Stud)

61/2" Stud



Pastelub™ Synthetic **High Temp Brake Lubricant**

- OE recommended High pressure resistant
- Recommended for the backs of brake pads
- Not for use on friction surfaces
- 2400°F Ultra high-temperatures range
- Patented "real synthetic" Swiss formula won't melt, rub or wash off brake parts • Gray • Net wt. 7 oz.
- No silicone or petroleum to weaken the carrier base
- Order No. **BPL-2400**



Ceramlub-2800™ **Extreme High Temperature Lubricant**

- Use on brake caliper slides, etc.
- Contains ceramic pressure solids and high concentrations of anti-corrosive agents
- · Specifically designed for use on caliper slides, rubber seals & O-Rinas
- A great complement to Pastelub™ Hi-Temp Lubricant
- Purple Net wt. 7 oz.
- Order No. CBL-2800



Buy a case of 12 (any combination BPL-2400, CBL-2800), SAVE 10% off jobber

Heavy Duty Brake Lathe Centering Cones

• For brake lathes with 1" dia. arbors

Large Dia.: 5.125" Small Dia.: 3.750" Order No.: **GT-5053**

Large Dia.: 5.500" Small Dia.: 4.500" Order No.: **GT-5052** Large Dia.: 6.125" Small Dia.: 5.000" Order No.: **GT-5054**

When using bell clamps and centering cones always be sure they are clean and free of any dirt or rust. Keep a light coating of oil on them to prevent rusting.

Never use a cone or a bell clamp for anything other than mounting a brake rotor or drum onto the brake lathe. Always use the largest bell clamp that will fit the rotor or drum for the best support.



Automotive Brake Lathe Bell Clamps

• For brake lathes with 1" dia. arbors

OD Size:	4.500"	OD Size:	5.700"	
Arbor Size:	1.000"	Arbor Size:	1.000"	
Order No.:	GT-9490	Order No.:	GT-3123	

Heavy Duty Brake Lathe Bell Clamps

• For brake lathes with 1" dia, arbors

OD Size:	6.500"	OD Size:	7.750"
Arbor Size:	1.000"	Arbor Size:	1.000"
Order No.:	GT-5055	Order No.:	GT-5056

Heavy Duty Brake Lathe Spring

- Use to exert extra pressure
- Measures 2.515"OD x 2.217" ID x 4"L
- Order No. GT-5059



Drive Pulleys & Belts for Ammco

- Fit Ammco 3000, 4000, 4100, 7000 & 7100
- Serpentine design runs guieter and increases arbor speed by 175RPMs • Virtually eliminates vibration



New-Style (Serpentine)

Description	Order No
Pulley Set	GT-5001
(Includes 201/4" belt & 2	pulleys)
20¼" Belt	GT-5002
19" Belt	GT-5003

Original-Style (V-belt) Replacements

Description	Order No.
25" Belt	GT-3161
(replaces OE 3161)	
24" Belt	GT-10241
(replaces OE 10241)	
(replaces OE 10241)	



Install the drive pulley with the pin toward the right angle drive. The roll-pins drive against each other. A nylon sleeve prevents metal to metal contact.

Don't buy a new brake lathe ... expand your existing one to handle rotors up to 15"

Lead Screw Bushing

- Easy installation
- Increases lathe capacity to 15"
- · Ideal for machining large rotors common on SUVs and large pick-ups
- Fits Ammco 3000 and 4000 Brake Lathes
- Order No. LSB-78529



Brian, Goodson Receiving, 32 years of service

Screw Feed Boot # 3086 Boot #3085

Cross Feed

Boot #3087

@GOODTOO

Rubber is the standard boot material on most brake lathes • Use with a %" variable speed drill at 600-1000 RPM

Description

· Zirconium abrasive

"We pride ourselves on packaging our products carefully and professionally. We want

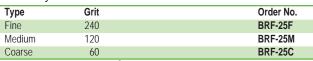
Brake Rotor Flex-Hones® · Provide a non-directional finish

• Use dry

you to receive your order quickly and in good condition."

See page 85 for

more Flex-Hones®



GT-433157

Assorted Accu-Turn Replacement Parts

GT-433156

Order No.

GT-433156

GT-433157 GT-433647

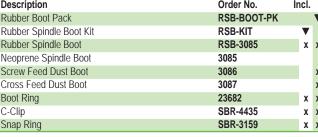
GT-433646

Order 3 or more Flex-Hones® (any combination) to Save 10% off Jobber!

Replacement **Boot Packs**

- Keep extra boots on hand for routine maintenance or emergency replacement
- Fits Ammco 3000, 4000, 4100 7000 7700

4100, 7000, 7700			
Description	Order No.	Incl.	
Rubber Boot Pack	RSB-BOOT-PK		•
Rubber Spindle Boot Kit	RSB-KIT	•	
Rubber Spindle Boot	RSB-3085	Х	X
Neoprene Spindle Boot	3085		
Screw Feed Dust Boot	3086		X
Cross Feed Dust Boot	3087		X
Boot Ring	23682	Х	X
C-Clip	SBR-4435	Х	X
Snap Ring	SBR-3159	X	X





Get step by step instructions on replacing brake lathe boots

Check out the blog post (with pictures) on our website. Use your smart phone or other smart device to scan the code at left for instant access to the post.



BRAKE SERVICE













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Drum Feed Bushing (not shown) (coarse thread)

GT-433647

Rotor Feed Screw Assembly (1/2" 20TPI)

Drum Feed Screw Assembly (½" 13TPI)

Rotor Feed Bushing (fine thread)

Rotor Feed Screws & Nuts For FMC & Bean

Description	Order No.
Rotor Feed Screw	GT-90071
Rotor Feed Nut	GT-90077



Brake Drum Grinding Wheels

- Aluminum-Oxide abrasive
- For Van Norman / Rels 204, 300, 302, 303, 333 & 404 Drum Grinders
- Size: 3" x 1/2" x 1"
- OE No.: 8522
- Shape: Recessed
- Order No. GDV-304



GOODSON

Precision Straight Edges

- 2 sizes to choose from
- Accuracy .0005" per foot
- Precision ground one edge
- .375" thick high quality heat-treated steel construction
- Each straight edge is pre-drilled for easy wall storage

Description	Order No.
24" straightedge, 1 precision edge	DIS-24
36" straightedge, 1 precision edge	DIS-36



connecting rods, you need to check the rod bolt stretch by performing a series of torquing and loosening and recording the readings.

Here's how:

- 1. Torque the bolts to 15 foot pounds and measure the stretch. Record the reading, then loosen the bolts.
- 2. Repeat at 15 foot pounds and record the reading.
- 3. Repeat, increasing to 30 foot pounds, record the reading.
- 4. Repeat, increasing to 60 foot pounds, record the reading.
- 5. Repeat at 60 foot pounds and record the reading.

Each time you loosen the bolts, measure to be sure that the rod bolts have returned to within .001" of the starting size. If you have a greater variation, get rid of the rod bolts and start with new ones.

When you're conducting final assembly, be sure you use the stretch specified by your rod manufacturer. Attach a rod bolt stretch gauge to the connecting rod bolt and zero it. Use an extra-long box wrench to tighten until the proper stretch is achieved.

26" Round Warp Gauge

- Use with feeler gauges (below)
- 3/4" diameter tool steel
- Includes anti-roll collar and eye bolt allowing you to hang it for safe, convenient storage
- Order No. EWG-100



12" Feeler Gauges

- Measure pistonto-wall clearance when honing, to find ring end gap and to check cylinder heads with a straight-edge
- Also useful for shimming while straightening heads and for machine set-ups

	Order No.	
lete Kit	FE-KIT	▼
.0015"	FE-0015	Х
.0020"	FE-002	X
.0030"	FE-003	X
.0040"	FE-004	Х
.0050"	FE-005	X
.0060"	FE-006	Х
.0070"	FE-007	Х
.0080"	FE-008	X
.0090"	FE-009	Х
.0100"	FE-010	Х
.0150"	FE-015	X
.0200"	FE-020	Х
	.0030" .0040" .0050" .0060" .0070" .0080" .0090" .0100"	blete Kit FE-KIT .0015" FE-0015 .0020" FE-002 .0030" FE-003 .0040" FE-004 .0050" FE-005 .0060" FE-006 .0070" FE-007 .0080" FE-008 .0090" FE-009 .0100" FE-010 .0150" FE-015



- Measures quickly & accurately to .0001"
- · Works in threaded or knurled guide IDs
- Range: .280"-.400" Easy to change contacts
- Order No. MVG-34

Small Hole Gauge Set

- See if rebuilding or replacing is needed by checking guide wear
- Check guide bosses for proper interference fit during replacement
- Check and maintain correct stem-to-guide ID clearance
- 4-piece set has combined range of .125" to .500"
- With storage pouch
- Order No. SHG-4

Iron-Clad Guarantee



- lock by twisting handle Insert into bore and release
- plunger it will expand to fit • Lock again and remove
 - · Measure with a micrometer
 - Double plunger design for consistent measuring
 - Long-lasting finish
 - Size range: 5/6" 6"
 - Order No. MTG-6



123

"From the time we answer the phone to when you receive your aelivery, our goal is to get it right the first time and every time."

Paige, Goodson Customer Service, 5 years of service

Order No. Incl.







Sunnen® AG-Series Precision Gauge

- Dial reads directly in "tenths" (.0001")
- · Checks rod journal bore for distortion
- Measures size instantly
- Wear-compensated gauge points for permanent accuracy

AG-210

- Rugged construction all moving parts are enclosed in the housing
- Includes Point Sets listed below (optional sets are available, call for information)

Description	Order No.
.375" - 3.375" (9.5 - 85.7mm) Range Gauge	AG-300
Standard Point Set (.720" - 1.530" Range)	AG-210
Medium Point Set (1.50" - 2.25" Range)	AG-620
Large Point Set (1.932" - 2.687" Range)	AG-630
Sun-Dura® Gauge Cover (8"L x 8"H x 4"D)	GMC-AG300

Point sets will only fit AG-gauges higher than Serial No. 4000

Valve Guide Gauge Set

full service

Build Your Own Valve Guide Gauge Set! Order the Valve Guide Gauge (P-300), Setting Fixture (P-610A) and

the Valve Guide

Probe you

need.

Description

- The only way to be sure clearance is correct is to gauge it
- Checks all types of guides for size and roundness FAST
- Set up and measure valve guide IDs quickly and easily
- Complete set includes gauge, 3 probes (.312", .344" and .375"), hex wrench, setting fixture and metal storage case with spaces for all components
- Dial calibrated in .0002" increments

					Description
▼.	0 ▼	P-310	Set	te Valve Guide Gauge	Complete
X	0 x	P-300		Guide Gauge	Valve Gui
X	0A x	P-610A		Fixture	Setting Fix
				Guide Probes	Valve Gui
			mm	Range in.	Size
	86	P-236	5.69 to 6.71	.224" to .264"	.236"
	60	P-250	6.05 to 7.05	.238" to .278"	.250"
	31	P-281	6.83 to 7.85	.269" to .309"	.281"
X	2 x	P-312	7.62 to 8.64	.300" to .340"	.312
X	14 x	P-344	8.43 to 9.45	.332" to .372"	.344"
X	'5 x	P-375	9.22 to 10.24	.363" to .403"	.375"
	16	P-406	10.01 to 11.02	.394" to .434"	.406"
	8	P-438	10.82 to 11.84	.426" to .466"	.438"
	9	P-469	11.61 to 12.62	.457" to .497"	.469"
	0	P-500	12.40 to 13.41	.488" to .528"	.500"
	75 06 88 89	P-375 P-406 P-438 P-469	9.22 to 10.24 10.01 to 11.02 10.82 to 11.84 11.61 to 12.62	.363" to .403" .394" to .434" .426" to .466" .457" to .497"	.375" .406" .438" .469"

WARNING: Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/products/passenger-vehicle.

Distributor Depth Gauge

Working on a Big Block or Small Block Chevy with a distributor? Avoid problem wear and potential failure caused by a distributor that fits too deep. This easy to use gauge measures the depth of engagement allowing you to compensate to create adequate clearance. Kit comes complete with a .500" diameter adaptor. An optional .491" shaft is also available.

Description	Order No.
Distributor Depth Gauge Kit	DDG-05
.491" Shaft	DDG-491

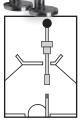


Fig. 1 Insert depth gauge in place of distributor. Bottom out in oil pump drive.

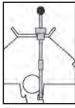


Fig 2. Push down on the top collar, making contact with manifold.

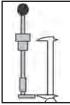


Fig. 3 Remove depth gauge from engine. Install adaptor in distributor tool. Measure and record depth.

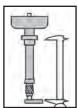


Fig. 4 Install adaptor in distributor drive. Measure as before and compare. Shim as needed to create clearance.

Sunnen® Dial Bore Gauges

Sunnen® Dial Bore Gauges

- Standard Sunnen® Dial Bore Gauges read out in tenths
- Also available in five-tenths and metric (special order)
- Diameter ranges from .495" to 6.000" (see chart for gauge ranges)
- All models below feature all-carbide gauging points, wear-proof ball crank and adjustable centralizers
- Includes molded storage case with all tools and wrenches required for setup and adjustment

GA-4141

- · Measures to within .200" of the bottom of a blind bore
- · Carbide balls replaceable in the indicating fingers only
- · Set with SCF-502 Setting Fixture
- · Non-retractable gauge

GR-6241

- · Measures to within .270" of the bottom of a blind bore
- · Carbide balls replaceable in the indicating fingers only
- · Set with SCF-502 Setting Fixture
- · Retractable gauge

GR-9241

- · Measures to within .335" of the bottom of a blind bore
- · Carbide balls replaceable in indicating fingers and extension points
- Set with SCF-502 Setting Fixture
- Retractable gauge

GA-2121 / GA-2125 / GR-2121 / GR-2241 / GR-2245

- · Measures to within .500" of the bottom of a blind bore
- · Carbide balls replaceable in indicating fingers and extension points • Use CF-1126 Setting Fixture
- · Non-retractable gauge

	Diamete	r Range	Max Gaugi	ng Depth	Overall Le	ngth	.0001" Reading	.0005" Reading
	in	mm	in	mm	in	mm	Order No.	Order No.
Ī	.495" to .750"	12.6 to 19.0	7.00"	175	11.8125"	302	GA-4141	special
	.740" to 1.19"	18.9 to 30.2	12.00"	300	17.6875"	451	GR-6241	
	1.18" to .2.00"	30.0 to 50.8	12.00"	300	17.75"	452	GR-9241	Order
	2.00" to 6.00"	50.0 to 150.0	12.00"	300	17.00"	432	GA-2121	GA-2125
	2.00" to 6.00"	50.0 to 150.0	12.00"	300	17.00"	432	GR-2121	
	2.00" to 6.00"	50.0 to 150.0	24.00"	600	29.00"	737	GR-2241	GR-2245

Small Diameter Dial Bore Gauge & Accessories

- Dial Bore Gauge assembly consists of .0001" (.002mm) reading indicator, probe retractor and probe retainer bushing in a reinforced nylon insulating shroud

CF-1126 shown

with GR-2121

Description			Order No.	
1-Small Diameter Dial Bore G	Sauge		GR-3000	32101
2-Adjustable Probes	Range in	mm		of the second
How to Order:	.165" to .189"	4.191 to 4.800	G-1180	7,0
	.185" to .209"	4.699 to 5.308	G-1200	and the same of th
1 - Gauge	.205" to .228"	5.207 to 5.791	G-1220	
2 - Probe	.224" to .248"	5.689 to 6.299	G-1240	2 / 5
	.244" to .268"	6.198 to 6.807	G-1260	
3 - Transfer	.264" to .287"	6.706 to 7.290	G-1280	
Pin	.283" to .307"	7.188 to 7.798	G-1300	
4 Ducks	.303" to .327"	7.696 to 8.306	G-1320	
4 - Probe	.323" to .346"	8.204 to 8.788	G-1340	nocial
Extension	.343" to .366"	8.712 to 9.296	G-1360	special
	.362" to .386"	9.195 to 9.804	G-1380	
3-Transfer Pin (fits all probes	above)		G-2264	
4-Probe Extension		•	KZIX-3500	

SCF-502 with

GR-3000 Gauge



Carbide indicating points are long wearing and

Shock-Shield

protects dial

jarring to assure

accurate reliable

from hand

heat and

readings.

All standard

Adjustable centralizers for

proper centering

diameter range. One twist adjusts gauge tension so head goes into and out of any size hole smoothly. Patented wear-proof ball crank assures repeatability over a long life.

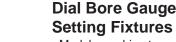
over the entire

Sunnen Dial Bore

READING. Metric and .0005" readouts are also available (special order). Dial can be indexed 90° for easy reading at any angle.

Gauges are TENTH

Indexable Centralizer **Points**



- Models combine to cover a continuous range of .054" to 8" in .0001" increments
- CF-540 Size Setting Heavy stress-relieved cast iron bases
- Adaptor shown with Lapped carbide micrometer anvils
 - Built-in magnifier
 - Each setting fixture includes a master calibrating ring
 - Size Setting Adaptor centers gauge probes between parallel reference surfaces on SCF-502 Setting Fixture

Range	Order No.		
.054" to 2.00"	SCF-502		
Size Setting Adaptor	CF-540		
2.00" to 8.00"	CF-1126		
Gauges & Setting Fixtures Sold Separately			



SCF-502 shown

with GR-6241



Dial Bore Gauge Set

- Rugged bore gauge with protected dial
- Carbide tipped contact points

0.7" to 1.5" Range

case • Order No. FBG-7

Cylinder Dial Bore Gauge Set

• Graduations: 0.0005" • Self-centering • Insulated grip

• Chrome plated handle • Includes extension holder and

• Carbide anvils • Easy to read gauge

• Measure cylinders up to 9.5" deep

- .0001" (.001mm) graduations Indication stability: .00008"
- Accuracy: .0002" Shoe can be rotated for a fresh wear surface • Sets up with a standard micrometer (see page 128)

		,
Range	Description	Order No.
2.0"-6.0"	11 anvils and 4 spacers	MMCB-06
Replacement Spacers	.020"	MMCB-06-020
for anvils 2" & larger	.040"	MMCB-06-040
	.080"	MMCB-06-080
	.120"	MMCB-06-120
Replacement Lens		MMCB-06LENS
Replacement Dial Indica	itor	MMCB-06IND
Replacement Dial Cover	•	MMCB-06COVER



- Includes: .050" travel indicator, 3 spacers (.100", .050" and .020"), 11 anvils and storage case
- Use for precise bore measurements
- Bore depth: 6" Range: 2" to 6"

Description	Order No.
Dial Bore Gauge	EBG-265
11 Piece Replacement Spacer Set	EBG-ANVILS



· Includes: extension holder and fitted case

• Range: 35 to 160mm • Graduations: 0.01mm

• Order No. MCBG-160



Internal Electronic Caliper

- · Ideal for measuring mating port runners and bowl diameters
- Hardened contact surfaces
- Robust housing with large LCD display
- Range: 0.5" to 6.0" Reading: .01" (.3mm)
- · Spring loaded locking nut
- Order No. IEC-56



- Measure cylinders up to 9.5" deep Graduations: 0.0005"
- Self-centering Insulated grip Chrome plated handle
- Includes extension holder and case
- Order No. FBG-146



Valve Seat Height Gauge

Confirm seat height to fire deck location

Includes Dial

- Adjusts for all popular seat diameters
- Accurate to .001"
- Seat contact probe aligns on valve seat while gauge rides along the fire deck
- Pilot aligns in valve guide (pilot sold separately)
- · Adjustable to fit popular seat diameters from .750" to 3.00'

Description	Fits Pilot	Order No.
Valve Seat Height Gauge Kit	.375"	VSHG-375
Replacement Dial Indicator		EDI-1



12" Direct Reading Dial Caliper

- .001" single revolution Hardened measuring face
- Precision Ground Micro-lapped for accuracy
- · Adjusting slide for fine adjustment
- Take inside, iutside and iepth measurements
- · Satin Chrome finish with engraved graduations
- Clamp for repetitive readings Accurate to .001" per 6"
- Covered Rack Deluxe fitted case
- Order No. EDC-12



6" Direct Reading Dial Caliper

- Four way measurement outside, inside, depth and step
- · Hardened stainless steel with satin chrome finish
- Precision ground and lapped measuring surfaces
- Reads direct to .001" or with .100" graduations on beam
- Adjustable bezel with lock Thumb roll with lock
- 1% jaw length Large easy to read dial
- Covered rack Deluxe fitted case
- Order No. MDC-03



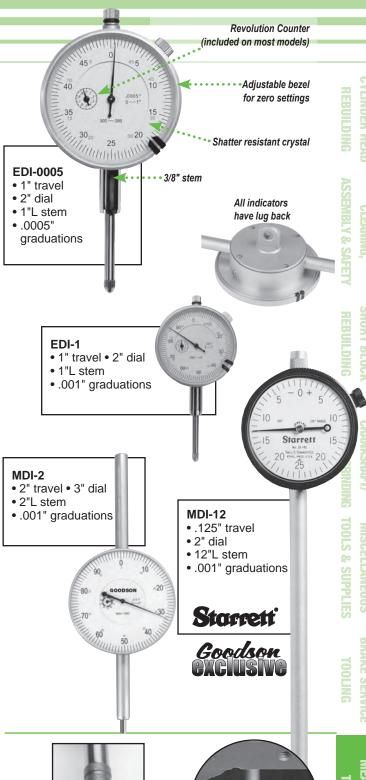
6" Digital Caliper

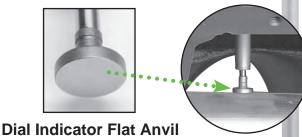
- Accuracy: .0008" under 4" length / .0012" over 4" length
- .0005" (.01mm) resolution Automatic floating zero
- Used to take inside and outside measurements
- Direct inch/metric conversion
- Large, high-contrast LCD display
- On/Off Button Deluxe fitted case

Description	Order No.
Digital Caliper	EEDC-06
Replacement Battery	EDC-06B



- Precision manufactured with 6 to 8 pounds of magnetic pull yet slides smoothly over the piston dome and deck
- Should only be used with dial indicators (sold separately) in upright position perpendicular to the ground
- Order No. MDBS-2





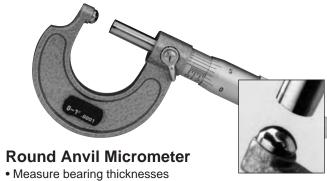
- Use with dial indicator (sold separately) to make full contact on surface to be measured
- Especially useful when measuring deep inside blocks in combination with our magnetic deck stand (MDBS-2 at left)
- Order No. MDI-12A



Premium Micrometers

- Precision ground carbide anvil parallel to within .0001"
- .0001" graduations
- Set includes wood storage case

Description	Range	Order No.	Incl.
Micrometer Set	(wood storage case)	EMS-06	•
Individual Micrometers	0"-1" (no standard)	EMIC-01	X
	1"-2"	EMIC-12	Х
Each Micrometer	2"-3"	EMIC-23	X
includes a Standard,	3"-4"	EMIC-34	Х
Spanner Wrench & Case	4"-5"	EMIC-45	X
(except EMIC-01)	5"-6"	EMIC-56	Х



- Ratchet spindle 0-1" range Precise to .0001"
- Order No MIC-01-B

Checking Standards

- Use to set up dial indicators in special application gauging and to check micrometer accuracy
- Made of hardened, ground and lapped tool steel
- Meet or exceed federal accuracy specifications

Length	Order No.
1"	MCS-1
2"	MCS-2
3"	MCS-3



Micrometer Stand

- · Heavy cast iron construction
- Use to hold micrometers, standards or just about anything you need an extra hand for
- Swivel head and padded jaws won't damage expensive measuring tools
- Order No. MIC-FIX



Read more about it on our blog. Scan the code with your smart phone or other smart device for quick access.







Milwaukee-Eight™ **Double Head Plate**

- · Easily mount and machine two Milwaukee-Eight™ cylinder heads at the same time
- The unique design perfectly aligns the centerline of valve guides providing repeatable accuracy from head to head, speeding up your machine work
- · Heavy enough for cutting and installing guides and seats
- Use with your seat and guide machine, Bridgeport-type mill or CNC
- Measures 12" x 26" x 11/4" thick Blackened Aluminum construction
- Order No. HHP-M8



Below: View of the underside

of the plate with heads

mounted

Pan/Shovel **Spring Seat Cutting Tool**

- · Convert Pan & early Shovel to late style Shovel easily to attain higher lift
- Spacer stops the cutter at the correct height for uniform spring spacing
- Use with lower spring collars or stock late style lower spring collars (1980-1984) • OD: 1.680" • ID: 0.750"

Description	Order No.
Spring Seat Cutting Tool	VSS-1680HD
.375" Spring Pad Pilot	VP-375



Keeper Installation Tools

- Spring-loaded plunger
- For single & multi-groove keepers
- Reaches keeper grooves located farther from the valve tip • Ideal for use with CF-500 (p. 43) and PSB-5000 (p. 42)

Λä				
	Size	Jobber	Order No.	
	5mm / .2031"		VKI-5	
	6mm / .2344"		VKI-6	
	7mm / .2812"		VKI-7	
١	8mm / .3125"		VKI-8	
	Replacement Rubber Sleeve		VKI-56	

Guide Driver for Reduced Diameter Top Valve Guides

The guide top fits into the groove between the driver and the bushing to center and drive the guide into place. Puts pressure on the step top of the guide, not the seal area. Required for installing 20-2120 & 20-2130 series guides on page 134.

Order No. VGD-315420

.421" Valve Seal Cutter

- Evo/Twin Cam
- Will shorten and re-chamfer the guide top, increasing seal-to-retainer clearance for higher lift camshafts
- Can also be used to modify .530" guides to .421" guides
- Guide OD: .421" Pilot Size: .312"
- Use with 71010 seal (page 133)
- Order No. VSC-420312



V-Twin On-the-Engine Valve Spring Compressor

Replace broken valve springs, install high performance valve springs, remove and replace valve guide seals all without disassembling the bike – just remove the gas tank and get to work. Use on Sportster, Evolution, Twin-Cam and most aftermarket V-Twins. Kit includes valve spring compressor, adaptor for compressing beehive springs, valve seal driver/installer and head pressurizing hose. Order No. CF-HDIF





.415" Lift **Panhead** 1948 to 1965 Valve Spring Kit for 3/8" Valve Stems

- OE Replacement
- Fits Intake Valve 20-4257 and Exhaust Valve 20-4195
- Heat-treated and shot peened for long life Kits include 4 Retainers, 4 Springs, 4 Keepers & 4 Base Washers

Max	Installed		Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.415"	1.375"	129 lbs.	272 lbs.	.415"	20-20430

.600" Lift Evolution™ 1984 to 1999 Valve Spring Kit For 5/16" Valve Stems



- Heat-treated and shot peened for long life
- Lightweight Racing Kits include 4 Retainers, 4 Springs, 4 Keepers & 4 Base Washers
- Use with Intake Valve 20-4171 & Exhaust Valve 20-4170

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.600"	1.810"	163 lbs.	361 lbs.	.600"	20-20132

.655" Lift Evolution™ 1984 to 1999 Valve Spring Kit For 5/16" Valve Stems · Springs heat-treated and

- shot peened for long life
- Lightweight Racing Kits include 4 Retainers, 4 Springs, 4 Keepers and 4 Base Washers
- Use with Intake Valve 20-4171 & Exhaust Valve 20-4170

	Height		Open Pressure	@ Lift	Order No.
.655"	1.860"	190 lbs.	465 lbs.	.655"	20-20081



Spring Kit Replacement Keepers

• 4 Sets per pack • 8 pair included in Milwaukee-Eight Kit

Fits	Stem Dia.	Keeper Angle	Bead Height	OAL	Minor Dia.	Order No.
Pan/Shovel	.375"	15°		.305"	.403"	51005-4
Evolution	.310"	15°	.220"	.365"	.360"	51003-4
20-21300	.310"	7°	.190"	.380"	.380"	51014-4
20-21500	.310"	9°	.155"	.345"	.398"	51031-4
20-21400	.275"	7°		.290"	.345"	51016-4
20-21550	.275"	9°	.300"	.345"		51030-4
MilwEight	.236"	7º		.200"		51029-8

.600" Lift Shovelhead™ 1966 to 1977

Valve Spring Kit For 3/8" Valve Stems

- Lightweight Racing Kits include 4 Retainers, 4 Springs, 4 Keepers and 4 Base Washers • Lightweight, hard anodized 7075T-6 Retainers offset .070" for taller installed height • Base Washers counter-bored for a .665" OD seal
- Use with Intake Valve 20-4194 & Exhaust Valve 20-4195

		Installed Height		Open Pressure	@ Lift	Order No.
ı	.600"	1.510"	150 lbs.	385 lbs.	.600"	20-2110

.600" Lift Shovelhead™ 1966 to 1977

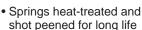


Valve Spring Kit For 3/8" Valve Stems

- Springs heat-treated and shot peened for long life
- Lightweight Racing Kits include 4 Steel Retainers, 4 Springs, 4 Keepers and 4 Base Washers
- Use with Intake Valve 20-4194 & Exhaust Valve 20-4195

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.600"	1.510"	150 lbs.	385 lbs.	.600"	20-20450

.415" Lift Shovelhead™ 1966 to 1977 Valve Spring Kit For 3/8" Valve Stems



- OE Replacement Kit includes 4 Steel Retainers, 4 Springs,4 Keepers and 4 Base Washers
- Use with Intake Valve 20-4194 & Exhaust Valve 20-4195

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.415"	1.375"	129 lbs.	272 lbs.	.415"	20-20435

Compression Release Valves

- 2 per pack
- 10 x 1.0mm thread
- High temperature resistant knobs
- Shorter thread section makes installation easier with less drilling than required with OE-style



Application	Length	Thread	Order No.
Evolution	1.400"	.350"L	20-21250
Twin Cam	1.730"	.350"L	20-21255
OE Replacement	1.750"	.500"L	20-21260

bblewhir .610" Max Lift **Beehive** Valve Spring Set for 5/16" Valves · Advanced spring design with special attention to cam and

- spring harmonics, stress, mass and operating RPM
- Premium grade, super clean ground chrome silicon wire
- Kits include 4 Retainers, 4 Springs, 4 Keepers and 4 Base Washers • Supersedes HVS-6000S

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.610"	1.860"	175 lbs.	400 lbs.	.610"	20-21300

.660" Max Lift **Beehive Valve** Spring Sets for 5/16" Valves

- 9º taper Advanced spring design with special attention to cam and spring harmonics, stress, mass & operating RPM
- Premium grade, super clean ground chrome silicon wire
- Kits include 4 Retainers, 4 Springs, 4 Keepers and 4 Base Washers • Supersedes HVS-6500S

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.660"	1.860"	178 lbs.	371 lbs.	.660"	20-21500

.610" Max Lift Beehive Valve **Spring Sets** for 7mm Valves

- Advanced spring design
- Premium grade, super clean ground chrome silicon wire
- Kits include 4 Retainers, 4 Springs, 4 Keepers 4 Viton Seals and 4 Base Washers • Supersedes HVS-6000-7SG

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.610"	1.860"	175 lbs.	400 lbs.	.610"	20-21400

.660" Max Lift **Beehive Valve Spring Sets** for 7mm Valves

- 9º taper
- Advanced spring design
- Premium grade, super clean ground chrome silicon wire
- Kits include 4 Retainers, 4 Springs, 4 Keepers, 4 Viton Seals and 4 Base Washers • Supersedes HVS-6500-7SG

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.660"	1.860"	178 lbs.	371 lbs.	.660"	20-21550

Evolution™ (04-99), Evo Sportster™ 883cc (96-03) XL[™] 1100cc (86-87), Evo Sportster[™] 1200cc (88-20), Twin Cam™ 88" (99-04) & Buell™ XB9-XB-12 (03-10)





- Retainers designed for optimum rocker cover clearance

Includes 4 heavy-duty 9º high-temperature steel keepers, 4 springs, 4 retainers and 4 base washers

Max Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift	Order No.
Fit 5/16" Valve S	Stems High Temperature Ste	el Retainers and BaseW	/ashers Seals Sold S	eparately	
.650"	1.860"	185 lbs.	440 lbs.	.650"	20-21650
.675"	1.860"	185 lbs.	450 lbs.	.675"	20-21600
Fit 7mm Valve S	Stems High Temperature Ste	el Retainers and BaseW	lashers Seals Include	ed	
650"	1.860"	185 lbs.	440 lbs.	.650"	20-23500
675"	1.860"	185 lbs.	450 lbs.	.675"	20-23600
it 7mm Valve S	Stems Titanium Retainers an	d High Temperature Ste	eel BaseWashers Sea	ls Included	
650"	1.860"	185 lbs.	440 lbs.	.650"	20-23550
675"	1.860"	185 lbs.	450 lbs.	.675"	20-23650

Same Day Shipping 131

"Just received my order — two days earlier than expected. Thanks for expediting my satisfied order so I can complete the job for my customer."

- Marvin Davenport, Davenport Racing - Goodson Customer since 2014

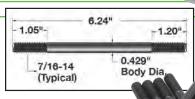
White Diamond® Hard Chrome Replacement Valves for Milwaukee-Eight™ Heads

- 1-piece forged with White Diamond® hard chrome stems for impervious wear resistance
- Inconel® 751 exhaust valves designed to outperform in the most extreme forced induction or racing applications

· Flow bench tested to optimize intake and exhaust profiles

Type	Head Dia.	Stem Dia.	Radius	Angle	OAL	Order No.	Material	Supersedes
Intake	1.614" (41.00mm)	0.2347"	0.235"	15°	4.035"	20-21060H	Chrome	
Intake	1.630" (41.40mm)	0.2347"	0.235"	10°	4.055"	20-21009H	Chrome	20-21009
Intake	1.654" (42.01mm)	0.2347"	0.235"	15°	4.032"	20-21061H	Chrome	20-21014
Exhaust	1.264" (32.11mm)	0.2342"	0.460"	24°	4.050"	20-21016H	Chrome	20-21016
Exhaust	1.284" (32.61mm)	0.2342"	0.460"	24°	4.050"	20-21017H	Chrome	20-21017
Exhaust	1.299" (32.99mm)	0.2342"	0.395"	0°	4.055"	20-21062K	Chrome	







 Includes 8 progressively wound ovate wire Beehive Springs, 8 Retainers, 8 Tophat Seals and 8 Spring Bases

Uvale	WILE DECLI	ve opinigo,	o itelalileis,	o ropnat	Seals and 6 Spring bases			
Max	Installed	Seat	Open	@				
Lift	Height	Pressure	Pressure	Lift	Order No.			
Titanium	Retainers							
.625"	1.500"	85 lbs.	280 lbs.	.625"	20-21800			
Heat Tre	Heat Treated Steel Retainers							
.625"	1.500"	85 lbs.	280 lbs.	.625"	20-21850			

Milwaukee-Eight™ **High-Temp Steel** Cylinder Studs

- Heat treated 180,000 PSI aircraft alloy steel • Centerless ground to remove material imperfections • Rolled threads
- Black oxide treated for enhanced corrosion resistance • Compatible with factory nuts • Reusable
- Order No. 20-21040

Milwaukee-Eight™ Beehive Valve Spring Kits

 Advanced spring design with special attention to cam and spring harmonics, stress, mass and operating RPM • Premium-grade, super clean ground chrome silicon wire • Heat-treated and shot peened for long life

.550" Max Lift

.465" Max Lift **Beehive Valve Spring Kit** With Titanium Retainers

- Includes 8 retainers, 8 springs and 8 base washers
- Installed Height: 1.410"
- Seat Pressure: 80 lbs.
- Open Pressure: 212 lbs. at .465"
- Order No. 20-21000

.465" Max Lift **Beehive Valve Spring Kit** With Heat Treated Steel Retainers

- Includes 8 retainers, 8 springs and 8 base washers
- Installed Height: 1.410"
- Seat Pressure: 80 lbs.
- Open Pressure: 212 lbs. at .465"
- Order No. 20-21050

Beehive Valve Spring Kit With Titanium Retainers

- Supersedes #20-21200
- Includes 8 retainers, springs, base washers and viton tophat seals
- Installed Height: 1.550"
- Seat Pressure: 85 lbs.
- Open Pressure: 257 lbs. at .550"
- Order No. 20-21205 (supersedes 20-21200)



Solid Viton Seals With Metal Jacket & Choker Spring

• 16 P	er Pac	kage				
Stem	OAL	Seal	Α	D	Order	
Dia.		OD			No.	Supersedes
7.0mm	0.510"	0.665"	0.560"	0.375"	71028	HVS-7MM
.312"	0.412"	0.566"	0.420"	0.275"	71010	HVS-421
.312"	0.514"	0.671"	0.530"	0.330"	71045	HVS-531
375"	0.516"	0.661"	0.562"	0.375"	71011	



Solid Viton Seals With Metal Jacket & Integral Spring Base

• 16 Per Package

• Spring Shoulder Diameter: 0.970"

Stem	OAL	Seal	Α	С	Order	
Dia.		OD			No.	Supersedes
7.0mm	0.974"	1.457"	0.560"	0.700"	71030	HV-7MMOE



Milwaukee-Eight™ **Tophat Valve Seal**

• 16 F	er Pac	kage			
Stem	OAL	Seal	Α	С	Order
Dia.		OD			No. Supersedes
6 0mm	0.712"	1 170"			71046-16 ——



OE Style Seals Solid Teflon With Metal Jacket

16 Day Dooksas

16 Pe	rPack	age				
Stem	OAL	Seal	Α	D	Order	
Dia.		OD			No.	Supersedes
.312"	0.385"	0.565"	0.420"	0.315"	71032	HSS-420
.312"	0.375"	0.630"	0.530"	0.295"	71033	HSS-530312
.343"	0.375"	0.630"	0.530"	0.365"	71034	HSS-530343
.375"	0.375"	0.660"	0.562"	0.315"	71035	HSS-562
.375"	0.400"	0.720"	0.625"	0.310"	71036	HSS-625

Need something not listed here?

We can order just about anything in the Kibblewhite catalog for you.

Call us at 1-800-533-8010 for more information.

Valve Seat Inserts

- For Harley-Davidson®
- Easy to machine
- · Effectively dissipate heat for consistent valve sealing
- · Hardness increases during engine break-in
- Radiused for easy installation

Radiused for easy installation									
Replacement '	Replacement Valve Seats For Shovel Head 1200 & 1340								
Application	OD	ID	Thick	Order No. Supersed	des				
Exhaust	1.944"	1.575"	.400"	10-HC493 HVS-194	4				
Intake	2.135"	1.750"	.400"	10-HC542 HVS-213	5				
Oversize Seat	s For Sh	ovel, Evo	lution, Twin	Cam & M8 - machining required	ı				
	OD	ID	Thick	Order No. Supersed	des				
	1.630"	1.180"	.385"	10-HC414 HVS-163	0				
Fits M8	1.757"	1.410"	.430"	10-HC447 HVS-175	7				
	1.882"	1.520"	.410"	10-HC478 HVS-188	2				
	2.008"	1.610"	.440"	10-HC510 HVS-200	8				
	2.040"	1.700"	.425"	10-HC518 HVS-204	0				
	2.070"	1.610"	.460"	10-HC526 HVS-207	0				
	2.132"	1.800"	.460"	10-HC541 HVS-213	2				
	2.163"	1.750"	.455"	10-HC549 HVS-216	3				
For Iron Head	Sportste	er							
Application	OD	ID	Thick	Order No. Supersed	des				
Exhaust	1.757"	1.371"	.315"	10-HC446 HVS-1757	S				
Intake	2.068"	1.750"	.315"	10-HC525 HVS-206	8				
Universal Rep	air Seat								
	OD	ID	Thick	Order No. Supersed	des				
Powdered	1.339"	1.024"	.375"	10-SC340 MVS-42					
Metal	1.693"	1.299"	.434"	10-SC430 MVS-58					
	1.819"	1.375"	.450"	10-HC462 HVS-182	0				
	1.945"	1.500"	.450"	10-HC494 HVS-194	5				
	2.257"	1.870"	.450"	10-HC573 HVS-225	7				
	Nickel Chrome Valve Seats on Page 16								

When installing seats preheat head to 400° and freeze the seat for easier installation. Press fit .006" to .008".



6061-T6 Aluminum Seal Drivers

These installation tools for OE style seals are manufactured from high strength 6061-T6 Aluminum for increased durability when compared to plastic installers.

Application	Color	Fits Seal Up To	Order No.
Evolution	Red	0.575"	20-20830
Pan/Shovelhead 74"	Black	0.673"	20-20833
Ironhead Sportster	White	0.638"	20-20832
Shovelhead 80"	Blue	0.758"	20-20831
	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,

- John Bursick, Harts Machine Service, Cecil, OH, Goodson Customer since 1997

ASSEMBLY & SAFETY

Intake Exhaust .480" ".600"

Milwaukee-Eight™ Valve Guides

• Use with 6mm seals (71046 or OF)

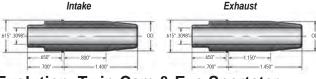
			ais (1 104		
	Inta	ke		Manganese	Cast
OD	ID	OAL	Size	Bronze	Iron
.4750"	.2347"	1.655"	Std.	20-21020M	
.4760"			+.001"	20-21021M	
.4770"			+.002"	20-21022M	20-21022C
.4850"			+.010"	20-21029M	20-21029C
	Exha	ust		Manganese	Cast
OD	Exha ID	ust OAL	Size	Manganese Bronze	Cast Iron
			Size Std.	· ·	
	ID	OAL		Bronze	Iron
.4750"	ID	OAL	Std.	Bronze 20-21030M	Iron 20-21030C
.4750" .4760"	ID	OAL	Std. +.001"	Bronze 20-21030M 20-21031M	Iron 20-21030C 20-21031C

	.685"702"			Exhaust		
1 +	~	7	11			
.615".2760"		OD	.615".2755"-	OD		
.685"—	.702"		.685"—	920"		
735	1.305"	-	.735	1.305"		

Twin Cam & Evo Sportster w/ 7mm Valves

• Use with 71028 (0.562") Viton Seals

	Inta	ke		Manganese	Cast	
OD	ID	OAL	Size	Bronze	Iron	Supersedes
.5625"	.2760"	2.040"	Std.	20-20690M		HVG-6600
.5635"			+.001"	20-20691M		HVG-6601
.5645"			+.002"	20-20692M		HVG-6602
.5725"			+.010"	20-20699M		
	Exha	ust		Manganese	Cast	
OD	ID Exha	oAL	Size	Manganese Bronze	Cast Iron	Supersedes
	ID		Size Std.			Supersedes HVG-6700
	ID	OAL		Bronze		
.5620"	ID	OAL	Std.	Bronze 20-20700M		HVG-6700



Evolution, Twin-Cam & Evo Sportster With 5/16"Valves (.420" Guide Top)

• Use with 71010 Viton Seals or 71032 OE Style Seals

	Inta	ke		Manganese	Cast	
OD	ID	OAL	Size	Bronze	Iron	Supersedes
.5620"	.3098"	2.100"	Std.	20-2120M	20-2120C	
.5630"			+.001"	20-2121M	20-2121C	HVG-5600S
.5640"			+.002"	20-2122M	20-2122C	HVG-5601S
.5720"			+.010"	20-2129M	20-2129C	
	Exha	nust		Manganese	Cast	
OD	ID	OAL	Size	Bronze	Iron	Supersedes
.5620"	.3098"	2.150"	Std.	20-2130M	20-2130C	
.5630"			+.001"	20-2131M	20-2131C	HVG-5700S
.5640"			+.002"	20-2132M	20-2132C	HVG-5701S
.5720"			+.010"	20-2139M	20-2139C	

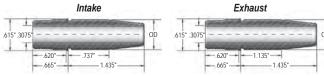




Sportster (1970-1983)

• Use with 71033 (intake) & 71034 (exhaust) OE-Style Seals

	Intake		Mangane	ese Cast	
OD I	D OA	AL Size	Bronze	Iron	Supersedes
.5650" .30)85" 1.7	70" Std.		20-2320C	HVG-5100C
.5660"		+.001		20-2321C	HVG-5101C
.5670"		+.002		20-2322C	HVG-5102C
.5750"		+.010)" ——	20-2329C	
	Exhaust		Mangane	ese Cast	
OD I	D OA	AL Size	Bronze	Iron	Supersedes
.5650" .33	375" 1.7	70" Std.		20-2330C	HVG-5200C
.5660"		+.001		20-2331C	HVG-5201C
.5670"		+.002		20-2332C	HVG-5202C
.5750"		+.010)" ——	20-2339C	



Evolution, Twin-Cam & Evo Sportster With 5/16" Valves (.530" Top Guides)

• Use with 71045 Viton Seals

	Inta	ke		Manganese	Cast	
OD	ID	OAL	Size	Bronze	Iron	Supersedes
.5625"	.3075"	2.100"	Std.	20-20860M		HVG-5600
.5635"			+.001"	20-20861M		HVG-5601
.5645"			+.002"	20-20862M		HVG-5602
.5725"			+.010"	20-20869M		
	Exha	ust		Manganese	Cast	
OD	ID	OAL	Size	Bronze	Iron	Supersedes
.5625"	.3096"	2.100"	Std.	20-20870M		HVG-5700
.5635"			+.001"	20-20871M		HVG-5701
.5645"			+.002"	20-20872M		HVG-5702
.5725"			+.010"	20-20879M		
MSRP	/ Jobbe	r				

Shovel Head 80" (78-83)

• Use with 71036 OE Style Seals

				000.0		
Intake or Exhaust			Manganese	Cast		
OD	ID	OAL	Size	Bronze	Iron	Supersedes
.6250'	.3745"	1.910"	Std.	20-2050M	20-2050C	HVG-5400
.6260'			+.001"	20-2051M	20-2051C	HVG-5401
.6270'	'		+.002"	20-2052M	20-2052C	HVG-5402
.6500'			+.025"		20-50HSC	

Shovel & Pan Heads

• Use with 71011 Viton seals or 71035 OF Style Seals

01 / 1033 01	L Otyle Seals		
Intake or Ex	haust	Manganese	Cast
OD ID (OAL Size	Bronze	Iron
.5650" .3760" 1	.900" Std.	20-2020M	20-2020C
.5660"	+.001"	20-2021M	20-2021C
.5670"	+.002"	20-2022M	20-2022C
.5680"	+.003"	20-2023M	20-2023C
.5750"	+.010"	20-2029M	20-2029C

High Performance Valves



Black Diamond™ & White Diamond® Valves for Harley-Davidson® Engines



• Light and strong with optimum airflow A combination of stress analysis and flow bench testing for optimally balanced valve mass, strength and airflow characteristics.

• Black Diamond™ Valves One piece forged stainless steel valves impregnated by a special German process to improve wear properties and reduce friction. Provides resistance to corrosion and superior wear.

• Chrome Diamond® Valves One piece forged with White Diamond® hard chrome stems. Inconel® 751 exhaust valves are designed to perform even in the most extreme conditions.

Application	Туре	Head	Stem	Tulip		Overall		
		Diameter	Diameter	Radius		Length	Order No.	Supersedes
/lilwaukee-Eight	Intake	1.571" (39.90mm)	0.2347"	0.235"	10°	4.015"	20-21012H	20-21012
	Intake	1.614" (41.00mm)	0.2347"	0.235"	15°	4.035"	20-21060H	
	Intake	1.630" (41.40mm)	0.2347"	0.235"	10°	4.055"	20-21009H	
	Intake	1.654" (42.01mm)	0.2347"	0.235"	15°	4.032"	20-21061H	20-21014
	Exhaust	1.264" (32.11mm)	0.2342"	0.460"	24°	4.050"	20-21016H	20-21016
	Exhaust	1.284" (32.61mm)	0.2342"	0.460"	24°	4.050"	20-21017H	20-21017
Pan Head 1948-1965	Intake	1.750" (44.45mm)	0.3765"	0.234"	23°	3.800"	20-4257	
Black Diamond™	Exhaust	1.750" (44.45mm)	0.3760"	0.234"	29°	3.820"	20-4195	
Sportster 1957-1969	Intake	1.825" (46.36mm)	0.3090"	0.375"	23°	3.562"	20-4258	
	Exhaust	1.570" (39.88mm)	0.3384"	0.236"	29°	3.512"	20-4197	HEV-3
	Exhaust	1.630" (41.40mm)	0.3384"	0.236"	29°	3.512"	20-4197-1	
Sportster 1970-1983	Intake	1.935" (49.15mm)	0.3090"	0.256"	23°	3.620"	20-4196	HEV-5
	Intake	1.950" (49.53mm)	0.3090"	0.256"	23°	3.690"	20-4167	
	Intake	2.000" (50.80mm)	0.3090"	0.256"	23°	3.620"	20-4196-1	
	Exhaust	1.570" (39.88mm)	0.3384"	0.236"	29°	3.512"	20-4197	HEV-3
	Exhaust	1.630" (41.40mm)	0.3384"	0.236"	29°	3.512"	20-4197-1	
Shovelhead 74" & 80"	Intake	1.950" (49.53mm)	0.3765"	0.234"	23°	3.885"	20-4194	HEV-9
1966-1983	Intake	2.000" (50.80mm)	0.3765"	0.234"	23°	3.885"	20-4256	
	Exhaust	1.750" (44.45mm)	0.3760"	0.234"	29°	3.810"	20-4195	HEV-7
	Exhaust	1.812" (46.02mm)	0.3760"	0.234"	29°	3.820"	20-4195-1	
Shovelhead 74" & 80"	Intake	1.950" (49.53mm)	0.3780"	0.234"	23°	3.885"	20-4294	
66-83 "Fat Stem"	Exhaust	1.750" (44.45mm)	0.3775"	0.234"	29°	3.810"	20-4295	
Evolution 1984-1999	Intake	1.840" (46.74mm)	0.3100"	0.236"	23°	4.445"	20-4171	
	Intake	1.990" (50.55mm)	0.3108"	0.675"	25°	4.440"	20-20905	HBV-1990
	Intake	1.940" (49.28mm)	0.3108"	0.675"	25°	4.440"	20-20910	HBV-1940
	Intake	1.900" (48.26mm)	0.3108"	0.675"	25°	4.440"	20-20915	HBV-1900
		1.900" (48.26mm)	0.3100"	0.344"	28°	4.420"	20-4171R	HBV-1900S
	Intake	2.150" (54.61mm)	0.3108"	0.550"	24°	4.480"	20-20900	HCV-2150
	Exhaust	1.615" (41.02mm)	0.3096"	0.236"	29°	4.525"	20-4170	HEV-10
) 1.630" (41.40mm)	0.3096"	0.500"	40°	4.525"	20-4170R	
	Exhaust	1.650" (41.91mm)	0.3106"	0.750"	25°	4.515"	20-20920	HBV-1650
	Exhaust	1.610" (40.89mm)	0.3106"	0.750"	25°	4.510"	20-20925	HBV-1610D
	Exhaust	1.585" (40.26mm)	0.3106"	0.750"	25°	4.505"	20-20923	HBV-1610D
Evo Sportstor	Intake	1.715" (43.56mm)	0.3100"	0.736"	23°	4.550"	20-20930	HBV-1720
Evo Sportster 883 to 1200 88 - 03	Exhaust	1.715 (43.56HIII) 1.480" (37.59mm)	0.3100	0.236	40°	4.625"	20-2010	1101-1720
Twin Cam 88"-103"		, ,			1.700"R			
1 Win Cam 88"-103" 2005-2017	Intake Intake	1.805" (45.85mm)	0.2760" 0.2760"	0.413" 0.344"	1.700 R 28°	4.420" 4.420"	20-20322 20-20323R	HBV-1810-7
2003-2017	Exhaust	1.900" (48.26mm)	0.2755"	0.344	28°	4.420 4.520"	20-20323R 20-20325	
		1.575" (40.00mm)						
DIIA VDOTM	Exhaust	1.630" (41.40mm)	0.2755"	0.500"	34°	4.520"	20-20326R	
Buell® XB9™	Intake	1.805" (45.85mm)	0.2760"	0.344"	28°	4.525"	20-20260	
2003-2007	Intake	1.900" (48.26mm)	0.2760"	0.344"	28°	4.500"	20-20262	
Twin Cam, Sportster	Intake	1.980" (50.29mm)	0.2757"	0.290"	23°	4.455"	20-20935	HBV-1980-7
& Buell®	Intake	1.900" (48.26mm)	0.2757"	0.475"	24°	4.445"	20-20940	HBV-1900-7
Triple Groove	Exhaust	1.610" (40.89mm)	0.2755"	0.595"	25°	4.545"	20-20945	HBV-1610-7
F D' . T	Exhaust	1.575" (40.05mm)	0.2755"	0.595"	25°	4.560"	20-20950	HBV-1575-7
Evo, Big Twin	Intake	2.020" (51.31mm)	0.3108"	0.670"	25°	4.440"	20-20990	HBV-2020A
& Twin Cam	Exhaust	1.700" (43.18mm)	0.3106"	0.600"	25°	4.535"	20-20960	HBV-1700A
S&S [®] , Screaming	Intake	2.020" (51.31mm)	0.3108"	0.645"	25°	4.510"	20-20965	HBV-2020S
Eagle & Ultima®	Exhaust	1.610" (40.89mm)	0.3106"	0.750"	25°	4.565"	20-20970	HBV-1610S
SE® / JIMS®	Exhaust	2.100" (53.34mm)	0.3108"	0.560"	24°	4.475"	20-20955	HBV-2100
Blank Valves	Black	2.100" (53.34mm)	0.3108"		24°	5.700"	20-20980	HBV-1700B0
Ready to Machine	Chrome	1.700" (43.18mm)	0.3106"		25°	5.700"	20-20985	HCV-2100B
To Your Specs	Chrome	2.200" (55.88mm)	0.3108"		25°	5.700"	20-20975	HCV-2200B0

REBUILDING

GLEANING,
ASSEMBLY & SAFETY

SHORT BLOCK

GRANKSHAFT/
FLYWHEEL GRINDING

TOOLS & SUPPLIES

RAPIDEX

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- Turns your index finger into a powerful tool
- Holds any small magnetic part securely
- · Complete jobs faster with less effort
- No more cuts from installing and retrieving metal parts
- One size fits most

83

• Order No. RW-MAG



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RW-GR-CAP One-Size-Fits -Most Snap-Back Cap

Description	Color	Sizes	Order No.
Pre-Shrunk Cotton T-Shirts	White	Medium	RW-GTW-M
		Large	RW-GTW-L
		X-Large	RW-GTW-XL
		XX-Large	RW-GTW-XXL
	Black	Medium	RW-GTB-M
		Large	RW-GTB-L
		X-Large	RW-GTB-XL
		XX-Large	RW-GTB-XXL
Snap Back Cap	Black	adjustable	RW-GR-CAP
Flex-Fit Cap	Black	Small/Medium	RW-CAP-M
	Black	Large/X-Large	RW-CAP-L
Shop Apron	Black	n/a	CA-100
Can Cooler	Black	n/a	RW-CC
Magnetic Finger Glove		n/a	RW-MAG



Watch for this symbol throughout the catalog

We know pictures often tell the story better than words so we are making videos for many of the products in the Goodson product line. The symbol above indicates that there is a video available for that product. Where space allows we are including a QR code that will take you directly to the video. All you need to do is point your smartphone camera at the code and the link will open.



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