GOODSON

Tools and Supplies for Engine Builders

2018



From the **President's** Desk

Change is inevitable. Sometimes change is good; sometimes change is not so good. Throughout Goodson's 73 year history, we've seen lots



Roger Schumacher, Goodson President

of change, but one thing has been constant — the way we treat you, our customers.

2018 marks the beginning of my tenure as company president. This is a challenge I am been looking forward to for a while. I promise, that while I may do some things a little different than my predecessors, how you, our customers, are treated will never change. We will continue to ship same-day, introduce new products annually, shape and size grinding wheels in-house, offer outstanding technical service and much more.

Thank you for your past business; we look forward to serving you with Full Service ... FAST!

Do You Have The Next New Product?

Here at Goodson we pride ourselves on releasing new and innovative products each and every year. How do we do it you ask? Simple... we listen to you, and by listening we learn where you have obstacles, or road blocks that slow you down or prevent you from doing a machining operation simply because the tool you need does not exist. We also look to you the professional engine builder because you see things before we do and some of our best new products have come right out the machine shop.

We have several ways to compensate you when you do have the "next new product" idea. We can have you manufacture the product it and sell that tool directly to Goodson. We can make the tool and pay you a royalty, or we will buy the idea from you and then later determine whether it has the ability to fulfill that need in the engine shop. So I am asking you right now.....do you have the next great idea? We want to know about it. Call or email Dave Monyhan because we know the next "great" new product is being developed right now in your shop.

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 quarantee 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.

Goodson Techxperts™ on staff to help you

When you have questions about product applications, tooling interchangeability,

machining procedures, extending tool life, engine specs or any other technical topic, give the Goodson Tech Services Department a call.





A note from the Sales Manager

Over the last couple of years Goodson has positioned itself to be even stronger in its ability to service "you" our valued customer by acquiring various companies. It was just a couple of years ago that RADIAC became a brand and the Radiac products have

David P. Monyhan, National Sales Manager

greatly increased our ability to supply you with a variety of quality abrasives for all the different machines in your shop, especially for cam and crankshaft grinding. Also Goodson acquired the "seat grinding" division of Kwik-Way and now produces all of the seat grinding guns, stone holders and heavy duty dresser. Most recently Goodson released the "extended nose" aircraft seat grinding guns to service the Lycoming, and Continental piston driven airplane engines. Currently Goodson is dimensionally correct to service most all engines from lawn-mowers to land-movers. Our commitment to you is unchallenged, we will continue to EARN your business, with the correctly dimensional products to full fill your machining and abrasive needs as we continue to grow. It is because of YOU that Goodson is able to do this.



Goodson Is Known By The Companies It Keeps American Made

It's an old adage, that a person is known by the company they keep. Well that's true for companies as well.

At Goodson, we strive to have the best quality products in stock for you, our valued customers. Sometimes Goodson will make mistakes and sometimes the vendors get behind with orders and don't ship on time. All companies have these issues each

and every day. At Goodson, we deal with these issues immediately and make every effort to make things right. After all, you have a choice of where to spend your shop supply dollars and we want to assure you that we are here to EARN that business.

In this year's catalog, you'll notice that Goodson now offers Kibblewhite Hard Parts for V-Twin engines. It was our ability to serve you better that made the decision for us.

Kibblewhite hard parts are made in America and will be in stock when you need them.















RAPIDEX

/LINDER HEAD REBUILDING

CLEANING, SEMBLY & SAFETY

SHORT BLOCK
REBUILDING

CRANKSHAFT/ FLYWHEEL GRINDING

MISCELLANEOUS TOOLS & SUPPLIES

BRAKE SERVICE TOOLING A rapid-use index of product categories

Cylinder Head R	Rebuilding
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Pilots	1-3
Valve Seat Work	4-22
Valve Refacing	23-25
Reamers	26-27
Valve Guide Resizing	28-30
Valve Guide Replacement	31-35
Valve Seal Work	36
Valve Spring Work	37-43
Cylinder Head Resurfacing	44-47
Crack Detection & Repair	48-53
Porting & Polishing	58-60
	0011

Cleaning, Assembly & Safety

Parts Storage & Organizers	61, 69
Wire Wheels & Brushes	62-63
Cleaning	62-69
Parts Baskets	68
Last Blast Paint & Metal Markers	70
Assembly Lubes	71
Assembly Lubes	72

Index Falls between pages 72 and 73

Coolants & Lubricants73

Short Block Rebuilding

Cylinder Boring & Honing	74-81
Boring Bar Tooling & Supplies	74-75
Honing Stones	76-81
Rod Honing	82-83
Rod & Piston Work	
Lifter Bore Tooling	91
Camshaft Work	92-93

Crankshaft/Flywheel Grinding

Crankshaft Grinding Wheels	94-95
Crankshaft Grinding & Polishing	96-100
Flywheel Grinding	102-104

Miscellaneous Tools

Diamond Dresser Tools	106-10
Machine Replacement Parts	108-109

Brake Service Tooling

Brake Tips & Holders	110-111
Brake Lathe Silencers	112
Brake Lathe Replacement Parts	113-115
Brake Lathe Mounting Adaptors	116

Measuring Tools

Dial Bore Gauges	118-119
Micrometers	120
Caliners & Dial Indicators	121

V-Twin & Metric Hard Parts

Seats & Seat Inserts	123
Valve Guides	124
Replacement Valves	125
Valve Springs	. 126-127

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

Aircraft Extended Nose Seat Grinding Motor • Heavy Duty Electric Motor • Extended drive unit allows easy access to aircraft

 Extended drive unit allows easy access to aircraft engines including 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

		 , -	
De	scription	Order No.	
110V Extended Nose U	nit	GL-XL110	
220V Extended Nose U	nit	SGL-XL220	

Aviation Valve Seat Grinding Kits

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

Description			Order No.	Inclu	des
110V Aviation Valve Seat Grinding Kit			SAV-110-KIT		1
220V Aviation Valve Seat Grinding Kit			SAV-220-KIT	▼	
110V Extended Drive Unit			SGL-XL110)
220V Extended Drive Unit			SGL-XL220	Х	
Heavy Duty Valve Seat Wheel Dresser			031-1900-02	X)
Includes .375" Top Dressing Stand Pilot			031-0202-55		
Replacement Dresser Diamond			G-18		
.375" Sioux-Style Stone Holders (NEW!)			SX-375	2	2
Heavy Duty Plastic Storage Box			SG-CASE	X	
Stone Removal Tool			SX-SRT	Х	
Leather Vibration Reducers (3 Pack)			SHW-3	X	
Bounce Spring Set			BSS-100	Х	
.375" Bushing Set			3D-DB7	X	
375" Top High Speed Steel Tapered Pilots	.343" Dia.		AP-5343		
	.344" Dia.		AP-5344		
	.345" Dia.		AP-5345		
American Made	.375" Dia.		AP-5375	X	
\\\ America	.376" Dia.		AP-5376	X	
	.377" Dia.		AP-5377		
	.406" Dia.		AP-5406		
	.407" Dia.		AP-5407		
	.408" Dia.		AP-5408		
	.436" Dia.		AP-5436		
	.437" Dia.		AP-5437	X	
	.438" Dia.		AP-5438	X	
	.439" Dia.		AP-5439	X	
	.498" Dia.		AP-5498		
	.499" Dia.		AP-5499		
	.500" Dia.		AP-5500	X	
	.501" Dia.		AP-5501	X	
	.502" Dia.		AP-5502	X	
General Purpose Valve Seat Stones	30°	1-3/4" Dia.	SX-1430-GP	X	ı
	45°	1-3/4" Dia	SX-1445-GP	X	
	30°	2-1/2" Dia.	SX-2030-GP	X	
	45°	2-1/2" Dia.	SX-2045-GP	X	
Cool Blue Valve Seat Stones	00°	1-3/4" Dia.	SX-1400-CB	Х	
	00°	2-1/2" Dia.	SX-2000-CB	X	
inishing Valve Seat Stones	30°	1-3/4" Dia.	SX-1430-F	Х	Ī
	45°	1-3/4" Dia.	SX-1445-F	X	
	30°	2-1/2" Dia.	SX-2030-F	X	
	45°	2-1/2" Dia.	SX-2045-F	Х	



.375" Top Pilot Spline Drive Valve Seat Stone Holder

- 11/16 x 16 thread
- Use your Sioux Style stones with your .375" Top Pilots
- Order No. SX-375

Extended
Reach
Valve Seat
Run-Out
Gauge for .375"
Top Pilots

- Hardened guide bushings and contact point
- Quick thumb-screw set-up
- Jeweled bearing indicator reads to ± .050" with .001" precision
- Range: 1.00" to 2.50"
- OAL: 11³/₄"

• Order No. VSG-375-XL



Introducing: The GOODSON Custom Spring Bench



1 SPRING

AT A TIME

We've built these Spring Benches to our Customers' Specific Requirements.

Let Goodson Build One for You!

Every bench is custom made to YOUR needs for YOUR production lines. Do you work on a specific

head or do a specific task over and over?
Let Goodson help you do your job faster
and easier.

Contact Goodson With Your Specs Today!





8 SPRINGS AT A TIME

16 SPRINGS

AT A TIME



3-D Fast Cut™ System Honda Clone Kit

 Fits a 1" ball head driver • Kit includes everything you need to machine your Honda Race Kart Engines such as 6.5HP Honda GX200 or X Clone DUCAR Box Stock Motor

More Ball Head Drivers on page 4

Niore Ball Head Drivers on page 4							
Description	Order No.						
Honda Cone Kit	3 D-CLONE-KIT ▼						
3D Ball Head for .236"/6mm Pilot	(2.56"L) 3D-BH236						
Cutter Tips 45°/1.0mm	FT-5043A-HD						
45°/1.4mm	IFT-4524A-HD						
Tip Holder .550"984" R	ange 3DH-1999M						
Bounce Springs Short 1.0	50" / 26.7mm 3D-BS1						
.340" ID Medium 1.5	40" / 39.2 mm 3D-BS3						
.420" OD Long 2.5	50" / 64.8 mm 3D-BS2						
Bounce Spring Bushing (1)	3D-BB1						
Bounce Spring Spacer 22	nm long 3D-BB2						
.2170" Carbide Pilot .23	6" Top PCT-2170M						
Valve Guide Level (3" vial)	VGL-100						
3-D Fast Cut™ Accessories							
Replacement 2.5mm Hex Key	3D-2.5						
Replacement Screws for Ball Hea	3 D-BH1032						
Cutter Blade Mounting Screw	FT-SCREW						
Blade Wrench	FT-WRENCH						
Tool Setting Fixture	3D-TSFA						
Bridgeport & DCM Ball Head Driv	er 3D-3/4SS						

Solid Carbide Single Pass Boring Tool for Kwik-Way

- Greater fracture resistance than most carbide bits • Ideal for hard alloys or interrupted cuts in automotive, high performance, marine, motorcycle and diesel engines
- Replaces OE Kwik-Way
- 5/16" diameter x 1.200 OAL

Description	Order No.
Single Pass Boring Tool	KWL-1071
Diamond Lap - 3 ¹ / ₄ " OD, ¹ / ₂ " ID	LP-KW
Lapping Oil - 4 oz. (118.3mL)	LP-LO-4
Dressing Stick	LP-DS



.375" Top Pilot Valve Seat Stone Holders

- Ball bearing stone holders
- Use your favorite valve seat stones with your .375" Top pilots • Two styles to choose from

Drive Style	Thread	Order No.
Spline (Star)	¹¹ / ₁₆ " x 16	SX-375
Hex	¹³ /16 x 13	KW-375



Ergonomically designed trigger and composite grip for unmatched user comfort

Available in hex drive and spline (star) drive units

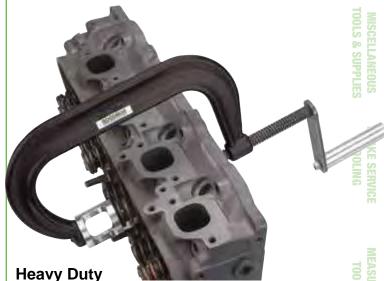
90° Angle High-Speed

Air Driver• 2 models available -

spline drive 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 ergonomically designed for unmatched user comfort
- Replaces the 1792AG Grinder

Description	Order No.
Sioux-Style (Spline Drive)	AG-SX90
Kwik-Way Style (Hex Drive)	AG-KW90



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 Replacement Foot	CF-1300SF
Large Replacement Foot	CF-1300LF

iron-clad guarantee NP-5

YLINDER HEAD REBUILDING

CLEANING, SEMBLY & SAFET

SHORT BLOCK
REBUILDING

CRANKSHAFT/ FLYWHEEL GRINDIN

TION C & CHIPPINE

"In addition to the wide selection of tools and supplies found in this catalog, we have access to hundreds of hard-to-find tools not shown due to their specialized nature.

If you're looking for a special tool, call us and we'll help you find it."

- Wendy, Goodson Purchasina, 31 years of service

SUNNEN

Valve Guide Gauge Set

- The only way to be sure clearance is correct is to GAUGE IT!
- Check 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

nent	s•	Dial	calibra	ted in	.0002"	increments	

components · Diai calibrated in .0002 increments								
Description				Order No.	Incl.			
Complete Valve Guid	P-310	•						
Valve Guide Gauge				P-300	X			
Setting Fixture				P-610A	X			
Valve Guide Probes	Size	Range in.	mm					
D.:!!.! V O	.236"	.244" to .264"	5.69 to 6.71	P-236				
Build Your Own	.250"	.238" to .278"	6.05 to 7.05	P-250				
Valve Guide Gauge	.281"	.269" to .309"	6.83 to 7.85	P-281				
Set! Order the	.312	.300" to .340"	7.62 to 8.64	P-312	X			
Valve Guide Gauge	.344"	.332" to .372"	8.43 to 9.45	P-344	X			
(P-300), Setting	.375"	.363" to .403"	9.22 to 10.24	P-375	X			
Fixture (P-610A)	.406"	.394" to .434"	10.01 to 11.02	P-406				
and the Valve	.438"	.426" to .466"	10.82 to 11.84	P-438				
Guide Probe you	.469"	.457" to .497"	11.61 to 12.62	P-469				
need.	.500"	.488" to .528"	12.40 to 13.41	P-500				



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

4 - Probe Extension

• Dial Bore Gauge diameter range: 0.054" to 0.535" (1.37 to 13.6mm)

Description			Order No.	
1-Small Diameter Dia	l Bore Gauge		GR-3000	
2-Adjustable Probes	Range in	mm		
	.165" to .189"	5.69 to 6.71	G-1180	
	.185" to .209"	6.05 to 7.05	G-1200	
	.205" to .228"	6.83 to 7.85	G-1220	
	.224" to .248"	7.62 to 8.64	G-1240	
	.244" to .268"	8.43 to 9.45	G-1260	
	.264" to .287"	9.22 to 10.24	G-1280	
	.283" to .307"	10.01 to 11.02	G-1300	
	.303" to .327"	10.82 to 11.84	G-1320	
	.323" to .346"	11.61 to 12.62	G-1340	
	.343" to .366"	12.40 to 13.41	G-1360	
	.362" to .386"	12.40 to 13.41	G-1380	
3-Transfer Pin (fits all	probes above)		G-2264	
4-Probe Extension			KZIX-3500	
Setting Fixture for .05	4" to 2.00" Ran	ge	SCF-502	
Size Setting Adaptor	CF-540			
				_





- · Contains no mineral oil, sulfur or chlorine
- Superior to conventional honing oils in reducing or eliminating workpiece temperature build-up
- Suitable as a grinding coolant or general purpose metal working fluid for both ferrous and non-ferrous parts
- Contains no dangerous nitrates, nitrites, PCBs, PTTBA, Mercurials or Phenols
- Has the ability to "self-clean" resulting in longer coolant life and consistent surface finish
- Two formulas to choose from
- SCC-205 is formulated for honing hardened steel using fine grit diamond plated tools or metal bond abrasives
- SCC-605 is formulated for honing cast iron
- 5 Gallon Pails

Description	Order No.
For Hardened Steel	SCC-205
For Cast Iron	SCC-605

Looking for a

SUNNEN item
that's not listed in the catalog?
Give Goodson a call.
We get weekly deliveries from Sunnen so we can special order whatever you need.

Ergonomically designed grip made of billet aluminum







36" Stainless Steel wand will not corrode

Threaded to make brush changes quick and easy

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

Connect the Water Connect the Air Select a Brush You're Set to Clean

3 Brush Sizes are standard with this kit — 5/8", 1/2" and 3/8" diameter



High Pressure Oil Gallery Cleaning System

Aggressively clean the oil galleries in most engines — Gas to Diesel, Stock to High-Performance

- Ergonomically designed handle
- Incorporates the aggressive cleaning action of a stainless steel wire brush with the hydro action of a specially designed water manifold to be used in conjunction with your shop air to quickly and easily clean the oil gallery holes in gas and diesel engines
- Standard Kit includes a 36"L cleaning wand with pistol grip air/water manifold and 3 brushes (3/8", 1/2" & 5/8" dia.)

Description	Order No.	Incl.
Standard Kit	HPOG-1000	•
³/8" Cleaning Brush	HPOG-375	X
¹ / ₂ " Cleaning Brush	HPOG-500	X
5/8" Cleaning Brush	HPOG-625	X
36" Cleaning Wand	HPOG-W36	X
18" Cleaning Wand (optional)	HPOG-W18	





High Pressure
Oil Gallery
Cleaning System
Operating
Procedure

- 1 Choose the correct size stainless steel brush. Sizes to choose from are: $^3/_8$ ", $^1/_2$ " and $^5/_8$ ". Other sizes can be special ordered.
- 2 Attach the brush to the end of the wand using the threaded end. Hand tighten only. Do not over-tighten.
- 3 Connect to a hot or cold water source. Be sure not to exceed 110°F (43.3°C).

- 4 Connect to an air source. 125 PSI max.
- 5 Lay the engine block horizontally and insert the cleaning brush into the bore you are going to clean. Move the wand back and forth to loosen the grime and build-up in the oil gallery.
- 6 Press the trigger for the water to flush the oil gallery. The wand design creates a vortex to loosen and blast debris from the oil gallery. If using hot water, use gloves to protect yourself from burns.
- 7 Add air pressure to finish the cleaning process and force any residual water and debris from the oil gallery.
- 8 Repeat steps 5 to 7 for each oil gallery.

NOTE: You can use any combination of brush, water and air that suits your application.





Black Diamond™ Replacement Valves for Milwaukee-Eight™ Heads

• Black Nitroneg Stems

• One-piece forged stainless steel valves impregnated by a special German process to improve wear properties and reduce friction

Provide resistance to corrosion and wear superior to hard chromium and electrolysis nickel plating

Туре	Head	Stem	Tulip		Overall	Black Diamond ^T
	Diameter	Dia.	Radius	Angle	Length	Triple Groove
Intake	1.571" (39.90mm)	0.2347"	0.235"	10°	4.015"	20-21012
Intake	1.591" (40.40mm)	0.2347"	0.235"	10°	4.015"	20-21015
Intake	1.630" (41.40mm)	0.2347"	0.235"	10°	4.055"	20-21013
Exhaust	1.264" (32.11mm)	0.2342"	0.460"	24°	4.050"	20-21016
Exhaust	1.184" (32.11mm)	0.2342"	0.460"	24°	4.050"	20-21017

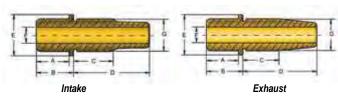
20-21000 Titanium Retainers



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
- Kits include 8 Retainers, 8 Springs and 8 Basewashers
- Kit 20-21200 does NOT require Basewashers, it is compatible with OE seals or Order No. 71046 (below)

Max	Installed	Seat	Open	@	, ,
Lift	Height	Pressure	Pressure	Lift	Order No.
.465"	1.410"	80 lbs.	212 lbs.	.465"	20-21000
.465"	1.410"	80 lbs.	212 lbs.	.465"	20-21050
.550"	1.550"	104 lbs.	230 lbs.	.550"	20-21200



Milwaukee-Eight™ **Manganese Bronze Valve Guides**

			Intake				Manganese	Cast
Α	В	С	D	Е	F	G	Bronze	Iron
.480"	.545"	.540"	1.110"	.600"	.2347"	.4750"	20-21020M	20-21020C
						.4760"	20-21021M	20-21021C
						.4770"	20-21022M	20-21022C
						.4850"	20-21029M	20-21029C
			Exhaust	t			Manganese	Cast
Α	В	С	D	Ε	F	G	Bronze	Iron
.480"	.545"	.600"	1.110"	.600"	.2342"	.4750"	20-21030M	20-21030C
						.4760"	20-21031M	20-21031C
						.4770"	20-21032M	20-21032C
						.4850"	20-21039M	20-21039C

H.T. Steel Retainers



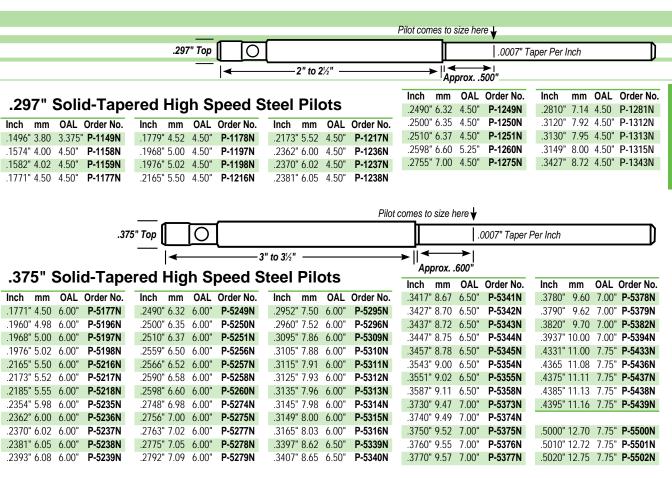


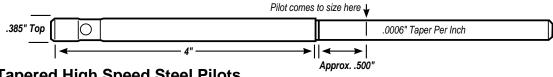
Milwaukee-Eight™ Tophat Valve Seal

- Designed to fit Milwaukee-Eight™ Valve Guides
- 6.0mm Stem Diameter
- 0.712" Overall Length 1.170" Seal OD
- For intake and exhaust 16 pack
- Order No. 71046

Look for additional Valve **Train Hard Parts for** Harley-Davidson **Applications** starting on page 123!

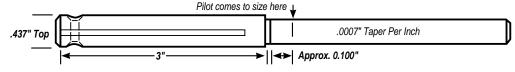






.385" Solid-Tapered High Speed Steel Pilots

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.
.2165"	5.50	7.50"	P-5216S	.2510	6.38	7.50"	P-5251S	.3130"	7.95	7.50"	P-5313S	.3450"	8.76	7.50"	P-5345S	.5000"	12.70	8.75"	P-5500S
.2173"	5.52	7.50"	P-5217S	.2598	6.60	7.50"	P-5260S	.3141"	7.98	7.50"	P-5314S	.3543"	9.00	7.50"	P-5354S	.5010"	12.73	8.75"	P-5501S
.2350"	5.97	7.50"	P-5235S	.2744	6.97	7.50"	P-5274S	.3149"	8.00	7.50"	P-5315S	.3550"	9.02	7.50"	P-5355S	.5020"	12.75	8.75"	P-5502S
.2362"	6.00	7.50"	P-5236S	.2755	' 7.00	7.50"	P-5275S	.3161"	8.03	7.50"	P-5316S	.3560"	9.04	7.50"	P-5356S				
.2370"	6.02	7.50"	P-5237S	.2763	7.02	7.50"	P-5276S	.3170"	8.05	7.50"	P-5317S	.3580"	9.09	7.50"	P-5358S				
.2381"	6.05	7.50"	P-5238S	.2771	7.04	7.50"	P-5277S	.3410"	8.66	7.50"	P-5341S	.3730"	9.47	7.50"	P-5373S				
.2500"	6.35	7.50"	P-5250S	.2779	7.06	7.50"	P-5278S	.3420"	8.68	7.50'	P-5342S	.3740"	9.50	7.50"	P-5374S				
				.3100	' 7.87	7.50"	P-5310S	.3430"	8.71	7.50'	P-5343S	.3750"	9.53	7.50"	P-5375S				
				.3125	' 7.94	7.50"	P-5312S	.3440"	8.73	7.50'	P-5344S	.3760"	9.55	7.50"	P-5376S				



.437" Solid-Tapered High Speed Steel Pilots

Inch mm OAL Order No.	Inch mm OAL	Order No.	Inch mr	m OAL	Order No.	Inch mn	n OAL	Order No.	Inch	mm	OAL	Order No.
.2160" 5.50 6.75" P-5216K	.2381" 6.05 6.75"	P-5238K	.3125" 7.9	94 6.75"	P-5312K	.3427" 8.7	0 6.75"	P-5342K	.3730	9.47	6.75"	P-5373K
.2170" 5.52 6.75" P-5218K	.2755" 7.00 6.75"	P-5275K	.3135" 7.9	96 6.75"	P-5313K	.3437" 8.7	3 6.75"	P-5343K	.3740	9.50	6.75"	P-5374K
.2354" 5.98 6.75" P-5235K	.2760" 7.02 6.75"	P-5276K	.3145" 7.9	98 6.75"	P-5314K	.3440" 8.7	4 8.00"	P-5344K	.3750	9.52	6.75"	P-5375K
.2362" 6.00 6.75" P-5236K	.2775" 7.05 6.75"	P-5277K	.3150" 8.0	0 6.75"	P-5315K	.3457" 8.7	8 6.75"	P-5345K				
<u>.2370" 6.02 6.75" P-5237K</u>	.2787" 7.08 6.75"	P-5279K	.3157" 8.0	02 6.75"	P-5316K	.3543" 9.0	0 6.75"	P-5354K				
	.3100" 7.88 6.75"	P-5310K	.3169" 8.0	05 6.75"	P-5317K	.3550" 9.0	3 6.75"	P-5355K				
	.3115" 7.90 6.75"	P-5311K	.3417" 8.6	68 6.75"	P-5341K	.3587" 9.0	9 6.75"	P-5358K				

same day shipping



.375" Top

0

.375" Top Expanding Pilots

2" to 3'

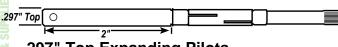
• Expand up to .020" (.51mm) • Includes Collet & Expander

Size	mm	Range	Pilot	Collet	Expander
.216"	5.50	.213"233"	P-5.5MMNX	P-216-COLLET	P-1216-EXP
.236"	6.00	.233"253"	P-6MMNX	P-6MM-COLLET	P-1236-EXP
.250"	6.35	.247"267"	P-250NX	P-250-COLLET	P-1250-EXP
.256"	6.50	.253"273"	P-6.5MMNX	P-65MM-COLLET	P-6.5MM-EXP
.275"	7.00	.272"292"	P-7MMNX	P-7MM-COLLET	P-7MM-EXP
.312	7.92	.309"329"	P-312NX	P-312-COLLET	P-343-EXP
.335"	8.50	.330"350"	P-8.5MMNX	P-343-COLLET	P-343-EXP
.343"	8.70	.340"360"	P-343NX	P-343-COLLET	P-343-EXP
.354"	9.00	.350"370"	P-9MMNX	P-375-COLLET	P-375-EXP
.375"	9.50	.372"392"	P-375NX	P-375-COLLET	P-375-EXP
.393"	10.00	.390"410"	P-10MMNX	P-10MM-COLLET	P-10MM-EXP
.437"	11.00	.430"450"	P-11MMNX	P-11MM-COLLET	P-11MM-EXP
.453"	11.50	.450"470"	P-453NX	P-11MM-COLLET	P-11MM-EXP
472"	12 00	469"- 489"	P-12MMNX	P-12MM-COLLET	P-12MM-FXP

.437" Тор 0 .437" Top Expanding Pilots

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

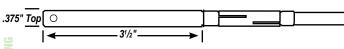
Size	mm	Range	Pilot	Collet	Expander
.236"	6.00	.233"253"	P-6MMKX	P-6MM-COLLET	P-1236-EXP
.275"	7.00	.272"292"	P-7MMKX	P-7MM-COLLET	P-7MM-EXP
.312	7.92	.309"329"	P-312KX	P-312-COLLET	P-343-EXP
.343"	8.70	.340"360"	P-343KX	P-343-COLLET	P-343-EXP
.375"	9.50	.372"392"	P-375KX	P-375-COLLET	P-375-EXP
.393"	10.00	.390"410"	P-10MMKX	P-10MM-COLLET	P-10MM-EXP
.437"	11.00	.430"450"	P-11MMKX	P-11MM-COLLET	P-11MM-EXP
452"	11.50	450" 470"	D_453KY	P-11MM-COLLET	D_11MM_EYD



.297" Top Expanding Pilots

• Expand up to .020" (.51mm) • Comes with Collet & Expander • High Speed Steel

	Size	mm	Range	Pilot	Collet	Expander	
	.2165"	5.50	.213"233"	P-1216NX	P-216-COLLET	P-1216-EXP	
	.2362"	6.00	.233"253"	P-1236NX	P-6MM-COLLET	P-1236-EXP	
	.2500"	6.35	.247"267"	P-1250NX	P-250-COLLET	P-1250-EXP	
۱	.2756	7.00	.275"294"	P-1275NX	P-275-COLLET	P-275-EXP	
	.2810"	7.14	.278"298"	P-1281NX	P-281-COLLET	P-1281-EXP	
	.3120"	7.92	.309"329"	P-1312NX	P-312-COLLET	P-1312-EXP	
	.3149"	8.00	.312"332"	P-1315NX	P-312-COLLET	P-1315-EXP	



.375" Extended Length **Expanding Pilots**

• Expand up to .020" (.51mm) • Comes with Collet & Expander • High Speed Steel

Size	mm	Range	Pilot	Collet	Expander	
.3120"	7.92	.309"329"	P-312NXL	P-312L-COL	P-343-EXP	
.3430"	8.71	.340"360"	P-343NXL	P-343L-COL	P-343-EXP	
.3750"	9.52	.372"392"	P-375NXL	P-375L-COL	P-375-EXP	
.4060"	10.31	.403"423"	P-406NXL	P-406L-COL	P-10MM-EXP	
.4527"	11.50	.450"470"	P-453NXL	P-453L-COL	P-453-EXP	
.4724"	12.00	.469"489"	P-12MMNXL	P-12MML-COL	P-12MM-EXP	
.5000"	12.70	.497"517"	P-500NXL	P-500L-COL	P-12MM-EXP	

.385" Top Expanding Pilots

.385" Тор

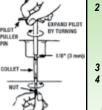
• Expand up to .020" (.51mm) • Includes Collet & Expander

Size	mm	Range	Pilot	Collet	Expander
.236"	6.00	.233"253"	P-6MMSX	P-6MM-COLLET	P-1236-EXP
.250"	6.35	.247"267"	P-250SX	P-250-COLLET	P-1250-EXP
.256"	6.50	.253"273"	P-6.5MMSX	P-65MM-COLLET	P-6.5MM-EXP
.275"	7.00	.272"292"	P-7MMSX	P-7MM-COLLET	P-7MM-EXP
.281"	7.10	.278"298"	P-281SX	P-281-COLLET	P-281-EXP
.295"	7.50	.290"310"	P-7.5MMSX	P-281-COLLET	P-281-EXP
.312	7.92	.309"329"	P-312SX	P-312-COLLET	P-343-EXP
.335"	8.50	.330"350"	P-8.5MMSX	P-343-COLLET	P-343-EXP
.343"	8.70	.340"360"	P-343SX	P-343-COLLET	P-343-EXP
.354"	9.00	.350"370"	P-9MMSX	P-375-COLLET	P-375-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-11MM-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



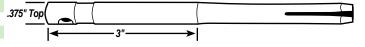
Setting your expanding pilot

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 1/8" above the valve guide **4** Turn the pilot while holding 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)



.375" Top Leveling Split Pilots

- Centers deep in the valve guide
- Includes a groove for bearing-style stone holders
- Compensates for wear up to .010"
- Replace KO Lee

Size	Range	mm	OAL	Order No.
5.0mm	.193"203"	4.90-5.84	5.25"	P-5MM-VNX
5.5mm	.213"223"	5.41-5.66	5.00"	P-5.5MM-VNX
6.0mm	.233"243"	5.91-6.17	5.00"	P-6MM-VNX
0.250"	.247"257"	6.27-6.52	5.25"	P-250-VNX
7.0mm	.273"283"	6.93-7.18	5.25"	P-7MM-VNX
0.312"	.299"319"	7.59-8.10	5.25"	P-312-VNX
8.0mm	.312"322"	7.92-8.17	5.25"	P-8MM-VNX
0.343"	.340"350"	8.63-8.88	5.25"	P-343-VNX
9.0mm	.351"361"	8.91-9.16	5.25"	P-9MM-VNX
0.375"	.372"382"	9.44-9.70	6.00"	P-375-VNX
0.437"	.434"444"	11.02-11.27	6.25"	P-437-VNX

- Pilot comes to size here

→ | Approx. .400'

.236 Top \bigcirc \bigcirc \bigcirc Pilot comes to size here

.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.
.1559"	3.96	PCT-1560M
.1566"	3.98	PCT-1570M
.1575"	4.00	PCT-1575M
.1578"	4.01	PCT-1580M
.1759"	4.47	PCT-1760M
.1771"	4.50	PCT-1770M
.1779"	4.52	PCT-1780M
.1960"	4.98	PCT-1960M



Order No.	mm	Inch
PCT-2560M	6.50	.2560"
PCT-2570M	6.53	.2570"
PCT-2580M	6.55	.2578"
PCT-2590M	6.58	.2590"
PCT-2600M	6.60	.2598"
PCT-2756M	7.00	.2756"
PCT-2760M	7.01	.2759"
PCT-2765M	7.02	.2763"
PCT-2770M	7.04	.2771"

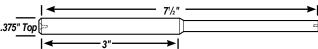


.375" Top Tapered Carbide Pilots

Inch n	nm	Order No.	Inch	mm	Order No.	Inch	mm	Order No.
.1575" 4	.00	PCT-1575	.2370"	6.02	PCT-2370	.3150	8.00	PCT-3150
.1771" 4	.50	PCT-1770	.2598"	6.60	PCT-2600	.3422	" 8.70	PCT-3420
.1968" 5	.00	PCT-1970	.2756"	7.00	PCT-2756	.3433	" 8.72	PCT-3430
.2165" 5	.50	PCT-2165	.2759"	7.01	PCT-2760	.3440	" 8.73	PCT-3440
.2173" 5	.52	PCT-2170	.2763"	7.02	PCT-2765	.3728	" 9.47	PCT-3730
.2355" 5	.98	PCT-2355	.2771"	7.04	PCT-2770	.3740	" 9.50	PCT-3740
.2362" 6	.00	PCT-2362	.3122"	7.93	PCT-3120	.3750	9.52	PCT-3750

tech tips

When choosing a pilot, first decide if you need a "live" pilot (one which turns with the tooling) or "dead" pilot (one which remains stationary in the bore). Choose the top size, then the guide bore size.



.375" Top Serdi-Style (Live) Straight Carbide Pilots

- For applications where the pilot must turn with the tooling
- Solid carbide construction
- Due to the brittle nature of carbide, Goodson can only warranty these carbide pilots for size

Inch	mm	Order No.	Inch	mm	Order No.	Inch	$\boldsymbol{m}\boldsymbol{m}$	Order No.
.1571"	3.99	PCS-399	.2600"	6.61	PCS-661	.3157"	8.02	PCS-802
.1767"	4.49	PCS-449	.2752"	6.99	PCS-699	.3425"	8.70	PCS-870
.1771"	4.50	PCS-450	.2756"	7.00	PCS-700	.3433"	8.72	PCS-872
.1960"	4.98	PCS-498	.2760"	7.01	PCS-701	.3437"	8.73	PCS-873
.1964"	4.99	PCS-499	.2764"	7.02	PCS-702	.3440"	8.74	PCS-874
.1968"	5.00	PCS-500	.2768"	7.03	PCS-703	.3720"	9.45	PCS-945
.2157"	5.48	PCS-548	.2771"	7.04	PCS-704	.3724"	9.46	PCS-946
.2161"	5.49	PCS-549	.3110"	7.90	PCS-790	.3728"	9.47	PCS-947
.2165"	5.50	PCS-550	.3114"	7.91	PCS-791	.3732"	9.48	PCS-948
.2354"	5.98	PCS-598	.3118"	7.92	PCS-792	.3736"	9.49	PCS-949
.2358"	5.99	PCS-599	.3122"	7.93	PCS-793	.3744"	9.51	PCS-951
.2362"	6.00	PCS-600	.3130"	7.95	PCS-795	.3748"	9.52	PCS-952
.2368"	6.01	PCS-601	.3146"	7.99	PCS-799			
.2559"	6.50	PCS-650	.3150"	8.00	PCS-800			
.2594"	6.59	PCS-659	.3154"	8.01	PCS-801			



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

The short answer is, "They're needed."

To expand on that ... The pilot is possibly the most important tool you can have. Without the right size pilot, you won't be able to do accurate work

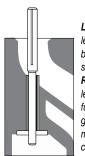
Most of us probably think of that in terms of Top and Bottom Size, but there's another dimension that's becoming more important every day. The pilot's top length.

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 while still being fully seated in the guide in order to perform top quality seat work.

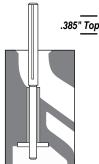


Extended Length .375" Top Solid-Tapered High Speed Steel Pilots

Inch	mm	Order No.	Inch	mm	Order No.	Inch	mm	Order No.
.2165"	5.50	P-5217NL	.3115"	7.91	P-5311NL	.3447"	8.75	P-5344NL
.2173"	5.52	P-5218NL	.3125"	7.93	P-5312NL	.3457"	8.78	P-5345NL
.2362"	6.00	P-5236NL	.3135"	7.95	P-5313NL	.3730"	9.47	P-5373NL
.2370"	6.02	P-5237NL	.3145"	7.98	P-5314NL	.3740"	9.50	P-5374NL
.2598"	6.60	P-5260NL	.3150"	8.00	P-5315NL	.3750"	9.52	P-5375NL
.2606"	6.62	P-5261NL	.3157"	8.02	P-5316NL	.3760"	9.55	P-5376NL
.2755"	7.00	P-5275NL	.3417"	8.68	P-5341NL	.3820"	9.70	P-5382NL
.2756"	7.01	P-5276NL	.3427"	8.70	P-5342NL			
.3105"	7.88	P-5310NL	.3437"	8.73	P-5343NL			



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 .385" Top Solid-Tapered High Speed Steel Pilots

Inch mm	.385" Top	Inch mm	.385" Top	Inch mm	.385" Top
.2756" 7.00	P-5276SL	.3125" 7.93	P-5312SL	.3460" 8.79	P-5346SL
.2795" 7.10	P-5279SL	.3447" 8.75	P-5344SL	.3720" 9.45	P-5372SL
				.3730" 9.47	P-5373SL

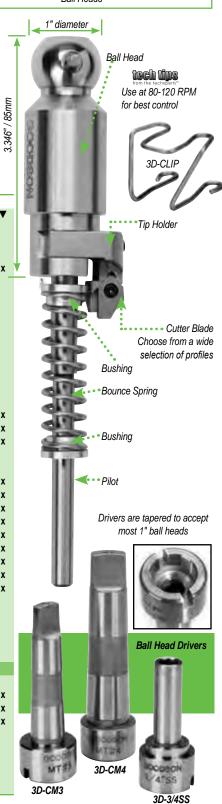




3-D Fast Cut™ Starter Kits

- 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 6-9
- Fully compatible with most popular 3-angle cutting systems including Kwik-Way, Peterson, Rottler, Serdi, Sunnen, T&S, Winona Van Norman, Newen, etc.

Description	Fits Pilot	Order No.		nclu	ıdes	;
Complete Starter Kits	.375" / 9.53mm	3D-375-KIT				\blacksquare
(see page 1 for	.385" / 9.78mm	3D-385-KIT			▼	
our selection	.390" / 9.90mm	3D-390-KIT		•		
of pilots)	.437" / 11.10mm	3D-437-KIT	▼			
Ball Head Standard	.375" / 9.53mm	3D-BH375				X
3.346" long	.385" / 9.78mm	3D-BH385			х	
3/8" channel fits most	.390" / 9.90mm	3D-BH390		X		
3-angle systems	.437" / 11.10mm	3D-BH437	Х			
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 U	Jse with Serdi-style pilots (page 3)					
4" long	Standard .375" / 9.53mm	SER-5100				
	Large Body .375" / 9.53mm	SER-5300				
Tip Holders	.709" - 1.181" / 18-30mm Range	3D-2000	X	X	X	X
	1.02" - 1.653" / 26-42mm Range	3D-2001	X	X	X	X
196	1.575" - 2.362" / 40-60mm Range	3D-2002	X	X	X	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	X	X	X	X
(0)	45°/1.3mm	FT-45051V1	X	X	X	X
more on	45°/1.5mm	FT-45059V1	X	X	X	X
pages 6 - 9	45°/1.9mm	FT-45075V1	X	X	X	X
Tool Setting Fixture		3D-TSFA	X	X	X	X
Cutter Blade Mounting So	crew	FT-SCREW	X	X	X	X
Blade Wrench		FT-WRENCH	X	X	X	X
Automotive Spring Set (4		3D-SS4	X	X	X	X
Bushing Set (1 pair)	.375"	3D-DB7				X
	.385"	3D-DB6		X	X	
	.437"	3D-DB5	Х			
Ball Head	#3 Morse Taper Driver	3D-CM3				
Drive Adaptors	#4 Morse Taper Driver	3D-CM4				
	Bridgeport & DCM Driver	3D-3/4SS			ш	
3-D Fast Cut™ Accesso		0D 01 ID				
	introl, especially on Spring Pad Cutters (pg. 10)	3D-CLIP				
Replacement ½" Hex Key		3D-1/8	Х	X	Х	X
Replacement 2.5mm Hex		3D-2.5	X	X	X	X
Replacement 3/32" Hex Ke		3D-3/32	Х	X	X	X
· ·	NWN Ball Head Base (5) - metric	MGA-4X5MM				
Replacement Screw for 3D Ball Head Base - SAE 10x32		3D-BH1032				
Adjusting Screw for Holder #3D-2000, OAL: .395" /10mm		3D-2000-S				
	er #3D-2001, OAL: .475" /12mm	3D-2001-S				
	er #3D-2002, OAL: .625" /15.9mm	3D-2002-S				
See b	page 5 for our Valve Seat Removal Tooling for the	ט-ט rast Cut™ System				



Wide Body

Standard Body

.750" (19.05mm)

from the techxperts

Choosing the Ball Head

Choose the correct Ball Head for your machine by finding your pilot size in the charts on pages 4 & 5 (Example if you have .375" top pilots you will use the 3D-BH375; if your pilot size is .236", you will use 3D-BH236, etc.). Goodson 3-D tooling is available in kits, incorporating all of the necessary pieces. You can also purchase items on an individual basis. Goodson carries many accessories and optional equipment for you to choose from.



See the NEW Honda Clone kit on page NP-5

3DH-1999M

support to cutters without interfering with the

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 	e 1" bal	I head driver			-	_
Description		Order	No.			
Micro Ball Head St	Micro Ball Head Starter Kit					•
3D Ball Head for .2	236"/6mm	Pilot (2.56"L)		3D-BH	1236	X
Micro Cutter Tips	45º/1.0m	ım		FTM-	185	Х
See pg. 7	45º/1.0m	nm		FTM-	187	X
for profiles	39°/1.0m	ım		FTM-	188	Х
	90° (For	counterboring)		FTM-	190	
	82º Radi	us Cutter		FTM-	82R6B	·HP
Tip Holders	.550"98	34" Range		3DH-	1999M	х
	.551"85	50" Range		3DH-	1995	
Bounce Springs	Short	1.050" / 26.7mm		3D-B	S1	х
.340" ID	Medium	1.540" / 39.2 mm		3D-B	S3	Х
.420" OD	Long	2.550" / 64.8 mm		3D-B	S2	X
Bounce Spring Bu	ıshing (2)			3D-BI	B1	X
Bounce Spring Sp	acer	22mm long		3D-BI	32	X
3-D Fast Cut™ Acc	cessories	i				
Replacement 2.5m	m Hex Ke	ey .		3D-2.	5	X
Replacement Screv	ws for Bal	l Head		3D-BI	H1032	
Cutter Blade Mounting Screw				FT-S	CREW	X
Blade Wrench	Blade Wrench			FT-W	RENCH	H x
Tool Setting Fixture				3D-TS	SFA	Х
Setting Micrometer		terbore Cutting		3DM-	236	
.236" Top Carbide	Pilots					

	, p • • • • • • • • • • • • • • • • • •	uo 1 11010			
Inch	mm	Order No.	Inch	mm	Order No.
.1559"	3.96	PCT-1560M	.2350"	5.97	PCT-2350M
.1566"	3.98	PCT-1570M	.2355"	5.99	PCT-2360M
.1575"	4.00	PCT-1575M	.2370"	6.02	PCT-2370M
.1578"	4.01	PCT-1580M	.2560"	6.50	PCT-2560M
.1759"	4.47	PCT-1760M	.2570"	6.53	PCT-2570M
.1771"	4.50	PCT-1770M	.2578"	6.55	PCT-2580M
.1779"	4.52	PCT-1780M	.2590"	6.58	PCT-2590M
.1960"	4.98	PCT-1960M	.2598"	6.60	PCT-2600M
.1968"	5.00	PCT-1970M	.2756"	7.00	PCT-2756M
.1980	5.03	PCT-1980M	.2759"	7.01	PCT-2760M
.2161"	5.49	PCT-2160M	.2763"	7.02	PCT-2765M
.2170"	5.52	PCT-2170M	.2771"	7.04	PCT-2770M
.2181"	5.54	PCT-2180M			

Valve Seat Removal Tooling

 Fits most popular 3-angle cutting tools including our popular 3-D Fast Cut[™] System, Kwik-Way, Peterson, Rottler, Serdi, T&S,

.472" (12mm)

(9.5mm)

.375"

(9.5mm)

Winona Van Norman, Newen, etc. Use to relieve press fit for .375

easier seat removal · Requires a minimum of 2 cuts

• For precise set up use MGA-MIC

 Tip Holders include one cutting tip and mounting screw (see chart below)

Replacement tips and screws sold separately

 Ball Head and Drive Tools sold separately (see page 4) 							
Description		Replacement Tip		Order No.			
Tip Holders		3DB-1999i		3D-1999C			
		3DB-250		3D-2000C			
		3DB-250		3D-2001C			
		3DB-250		3D-2002C			
Wide Body	Tip Holders	3DB-250		3D-2003C			
		3DB-250		3D-2004C			
Replacemen	nt Tip			3DB-1999i			
				3DB-250			
Replacemen	nt Screw	for 3DB-1999i		3DB-1999S			
		for 3DB-250		3DS-SCREW			
from the tec	ins hxperts**	Cutting Range wi	th Pilot Size	tech tips from the techsperts*			
Holder	.236" Top	.375" Top	.385" Top	.437" Top			
3D-1999C	0.960"-1.22	25" 1.095"-1.360"	1.105"-1.360"	1.157"-1.360"			
3D-2000C	1.056"-1.48	30" 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"				
3D-2004C	_	- 2.280"-3.200"	2.280"-3.200"				

FT-90

Generally

used on

Cast Iron

3-D Fast Cut Setting Micrometers

Accurate to .001"

• Standard micrometer uses tapered .375" Pilot to match your ball head (sold separately, page 1)

• Use to set cutting diameter of 90° carbide cutters when

modifying counterbores				
Description	Cutting Range	Ш		
Standard Micrometer	1.000" - 2.650"	ш		
Setting Standard		ш		
90° Cutter (generally ι	used for Cast Iron)			
90° Cutter (generally ι	used for Aluminum)			

Micro Setting Micrometer

• Use with .236" Pilot (PCT-2360M)

Description	Cutting Range	Order No.
Micro Micrometer	0.236" - 2.000"	3DM-236
90° Micro Cutter		FTM-190
Pilot		PCT-2360M





FT-9020B-HP

Generally

used for

Aluminum

MGA-MIC-1S

FT-90 FT-9020B-HP 1.50mm

Diamond Hand Files

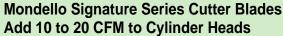
• Choose between 360 & 600 grit · Use for fine touch-ups on your Seat Cutter Blades

Description Order No. Diamond File Set -DFS-2 1-360 grit & 1-600 grit 600 Grit Files (2-pack) DFS-6



Cutter Key:

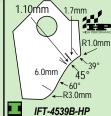
Intake Ÿ Exhaust Specialty



Designed to increase airflow by as much as 20 CFM, these cutters are intended for certain applications. Generally you should use intake cutters on intakes and exhaust on exhausts, but as with most things, there's always an exception. Experiment to find the right combination for you and your customers.







1.40mm 1.50mm -R1.0mm ₹39°

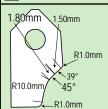
^45°

IFT-4524-HD

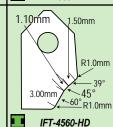
-R1.0mm

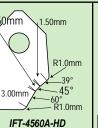
R10.0mm

1 3-

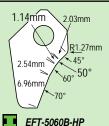


IFT-4524A-HD



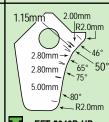






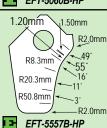






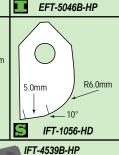


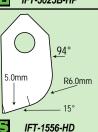




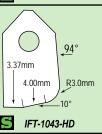








R6.0mm









Intake

3-Pc. Set Hiah **Performance** Cutters



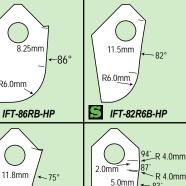




IFT-4524-HD Machine your Exhaust intake seat with IFT-4539B-HP then use cutter IFT-75R6B-HP to machine below the seat

and blend into the port On exhaust, machine with IFT-4524-HD

Order No. IFT-HP-SET



3

5.0mm **←** 83° -R 8 0mm 3.0mm -60

RBP-RR4

R 1 0mm

11.8mm R6.0mm IFT-75R6B-HP

Radius Profile Seat Cutter Blades







Cutter Key:

Intake Exhaust Specialty

Turn the Page for More Valve Seat Cutter Blades

• Keep your multi-angle cutters sharp with this universal sharpening fixture

- Balanced ball-bearing fan-cooled electric motor
- Variable angle plus/minus 15° 1¾" dia. Diamond Lap
- Lighted on/off rocker switch

Cutter Blade Sharpener

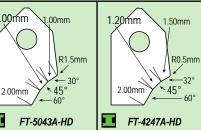
· Safety catch tray with splash guard for lapping oil Available in 115V 60 Hz and 220V 50 Hz

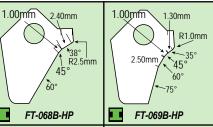
American	Ma
----------	----

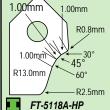
 Made
Mauc

Available in 1150, 00 Hz and 2200 50 Hz			
Description	Order No.	ln	cl.
Sharpener Kit 115V	3D-SHARP		•
Sharpener Kit 220V	3D-SHARP-220		▼
3D Cutter Holder	3D-HOLDER	Х	X
Diamond Lap	LP-RFA	Х	X
Dressing Stick	LP-DS	Х	X
4 oz. Lapping Oil with Dauber	LP-LO-4	Х	X
Canvas Machine Cover	GMC-PRF		

Cutter Blades This Page Micro Cutter Blades

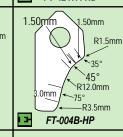




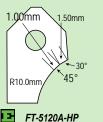




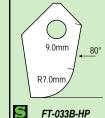






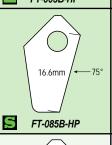






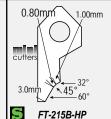


R12.0mm
FT-084B-HP

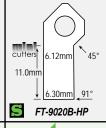


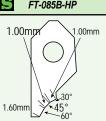


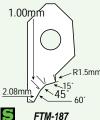


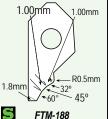


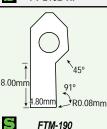
11-0776-111
1.00mm 1.20mm cutters 30° 45° 60°
FT-4028B-HP











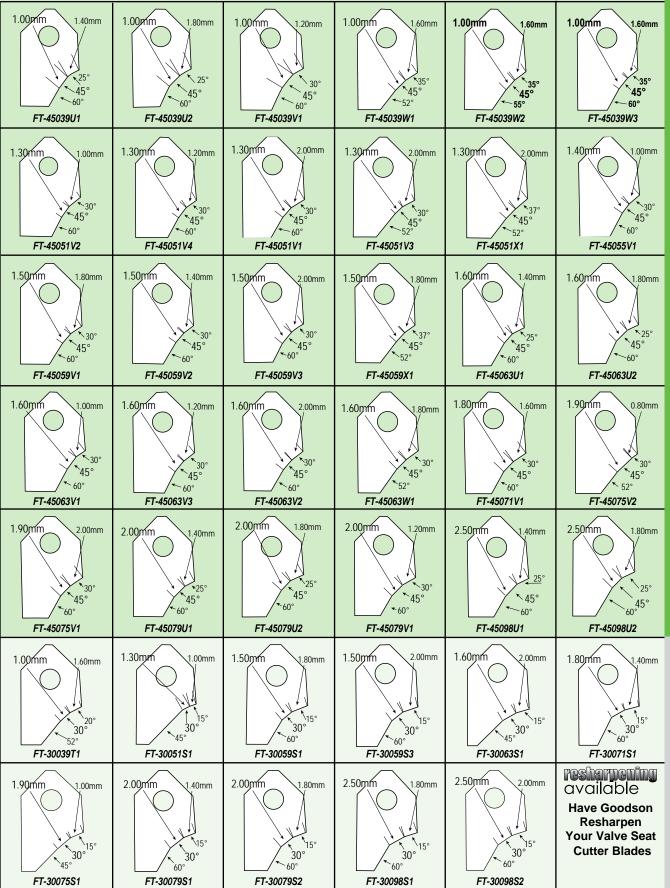


Micro **Blades** Work with holders on page 5

FTM-185

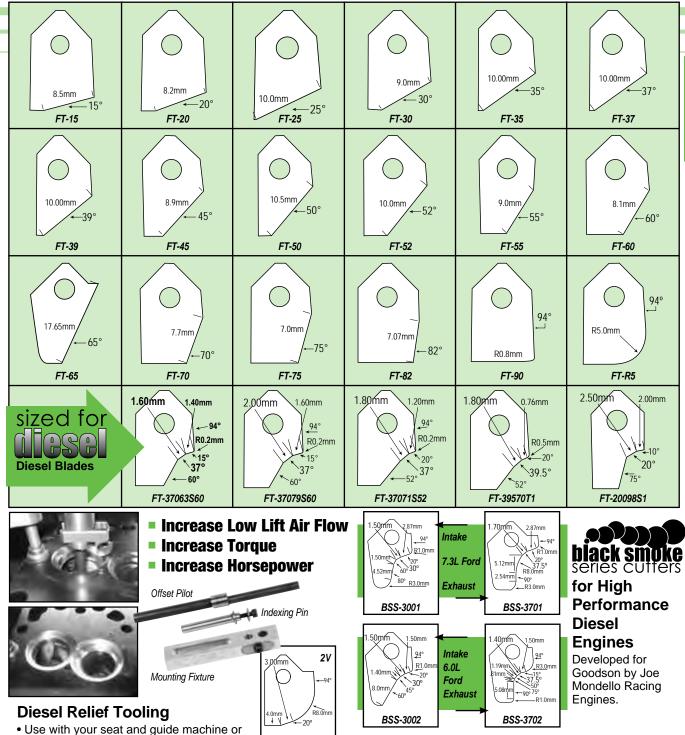
3-D Multi-Angle Seat Cutter Blades

Single Angle Valve Seat Cutter Blades





ASSEMBLY & SAFETY



BSS-20CC

4V

94°

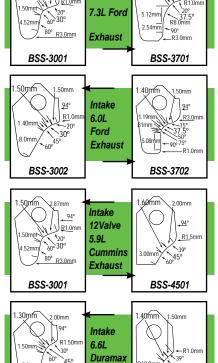
Z45°_R2.0mr

BSS-45CC

R3.0mm

- 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

200 2000 0 200		
Description	Order No.	Incl.
7mm Diesel Relief Tool Kit	DVRT-7MM-KIT	•
8mm Diesel Relief Tool Kit	DVRT-8MM-KIT	▼
20CC Radius Cutter for 2-Valve Heads	BSS-20CC	X
45CC Radius Cutter for 4-Valve Heads	BSS-45CC	X



Exhaust

BSS-4502

`45°

IFT-4524-HD

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



"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					



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.
- Order No. MFF-8

*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

Description	Order No.
Goodson Aerosol* 6 oz. (170 g)	PFL-200*
Sunnen® Aerosol* 7 oz. (198 g)	B-200*
Sunnen® Brush Applicator 200 mL (not shown)	B-200L
*Hazardous Goods Fees Apply When Shipped	d By Air

3-D Fast Cut™ Bowl Profiler

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

Blade Fits

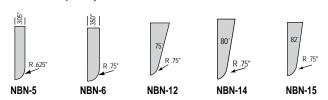
Remove material to recontour Here cylinder head bowl areas and unshroud valves in combustion chambers

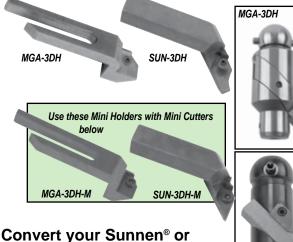
• Blades can be modified using our 3D-SHARP (see page 7)

• 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

Blades sold separately





Convert your Sunnen or Mira brazed cutters to 3-D with this simple holder

This blade holder allows you to mount 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 CutTM or similar seat cutting systems.

Description		Order No.
Standard Cutter	Mira®	MGA-3DH
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 7	45°/90°	FT-9020B-HP
Replacement Scre	eW	FT-SCREW

Precision Valve Seat Run-Out Gauge

- Use with .375" Top Pilot
- 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
- Order No. SCG-375









Valve Seat Machining Aid

- Machine valve seats to a mirror-like
- 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

- 2 colors to 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 can.

1 02. Containere inter	aaco braon in o	чР
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

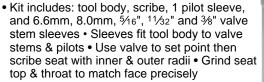
Spray Bluing Fluid

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



• Fits .375" Top Pilot

Valve and Seat Scribe Tool



Valve Seat Work

· Hardened guide bushings & contact pilot

• Jeweled bearing indicator reads to ±.050"

Order No.

VSG-375 VSG-385

Valve Seat

Run-Out Gauge

with .001" precision

• Range: 1.00"-2.50"

Pilot Size

.375"

Quick thumb screw set-up

* Note: Extended length on page NP-3

• Order No. ST-30-BD

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



Prussian Blue Paste

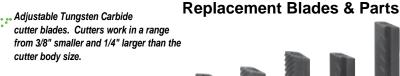
- · Aids precision fitting of machined surfaces
- · Locates high spots on bearings, valves, gears and other close-tolerance components
- · Non-drying, easy clean-up
- · Coat parts with a uniform film of Prussian Blue; assemble in working position and turn shaft; improper fit will show up as easy-to-see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



Set Screw ..

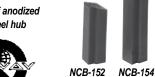
Adjusting Screw -Wedge

Neway Valve Seat Cutting System



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





NCB-253 NCB-250





NCB-254

Many cutter body styles available including single angle and double angle for a variety of cutting applications



Don't see the cutter you need in the chart



Order No







NCB-251 NCB-252



below? Goodson can order any Neway Cutter Body available.

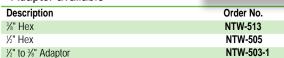
Description	Order No.					
Small Series Cutter Bodies (Use .297" Top Pilots - page 1) Cutter Body Blade Qty. Replacement						
Cutter Body						
Diameter	Angle		Blade			
0.830" / 21.1mm	32°	3	non-replaceable	NCU-132		
0.850" / 21.6mm	45°	3	non-replaceable	NCU-131		
0.874" / 22.2mm	60°	3	non-replaceable	NCU-133		
0.975" / 24.8mm	31º	3	NCB-250	NCU-115		
	31°	3	NCB-253	NCU-123		
	45°	3	NCB-253	NCU-122		
1.000" / 25.4mm	15°	3	NCB-253	NCU-120		
	30°	3	NCB-250	NCU-126		
	60°	3	NCB-252	NCU-111		
	75°	3	NCB-254	NCU-125		
1.125" / 28.6mm	31º/46º	3/3	NCB-253	NCU-103		
1.312" / 33.3mm	31º/46º	3/3	NCB-251	NCU-102		
	15º/60º	3/3	NCB-251, -254	NCU-124		
Replacement	Angle	Blade	Lgth.			
Blades	15-46°	⁵ ∕16" / 7	.9mm	NCB-253		
Sold		3/8" / 9.	53mm	NCB-250		
Individually		1/2" / 12		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 of	NCB-265					
Wedge for 1" / 25.4	NCB-266					
Tool Kit (includes b	NKA-246					
Large Storage Case (holds 11 pieces) NC						
EZ-Turn Wrench NTW-EZ						
½" T-Handle Driver	NTW-505					
³ ⁄ ₈ " T-Handle Driver NTW-513						
Drive Adaptor 1/2" to 3/8" / 12.7-9.53mm NTW -						

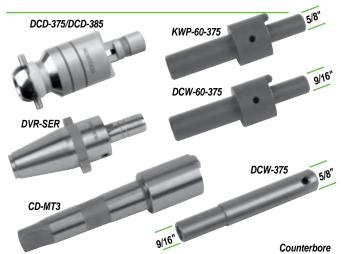
Description Standard Series C	utter Rec	line (H	se .375" Top Pilots	Order No.
Cutter Body	Blade	Qty.	Replacement	- page 1)
Diameter	Angle	٠٠,٠	Blade	
1.125" / 28.6mm	30°	3	NCB-250	NCU-278
20 / 2010	45°	3	NCB-250	NCU-268
	60°	3	NCB-252	NCU-269
1.250" / 31.6mm	15°/75°	3/3	NCB-250, -254	NCU-212
	30°	3	NCB-250	NCU-607
	30°/45°	3/3	NCB-250	NCU-230
	31º/46º		NCB-250	NCU-203
	45°	5	NCB-250	NCU-608
	60°	3	NCB-252	NCU-270
1.375" / 35.0mm	15°/60°		NCB-251, -254	NCU-619
	30°/45°		NCB-250, -251	NCU-232
1.500" / 38.0mm	15°/75°		NCB-251, -254	NCU-217
	30°/45°		NCB-251	NCU-234
	30°/45°		NCB-251	NCU-626
	31º/46º		NCB-251	NCU-622H
	60°	3	NCB-254	NCU-205
1.750" / 44.5mm	15°/60°	-	NCB-251, -254	NCU-643
	30°/45°		NCB-251	NCU-645
	31°/46°	5/5	NCB-251	NCU-642H
	55°	5	NCB-251	NCU-17555
	60°	3	NCB-254	NCU-293
	75°	3	NCB-254	NCU-272
2.000" / 50.8mm	31º/46º		NCB-251	NCU-652
	15°/60°		NCB-251, -254	NCU-653
	30°/45°	5/5	NCB-251	NCU-660
	50°	5	NCB-251	NCU-20050
	60°	5	NCB-254	NCU-657
2.25" / 57.0mm	55°	5	NCB-251	NCU-22555
2.20 / 07.0	15°/60°	5/5	NCB-251, -254	NCU-666
2.50" / 63.5mm	30°/45°	7/7	NCB-251	NCU-677
	50°	7	NCB-251	NCU-25050
	52°	7	NCB-251	NCU-25052
	55°	7	NCB-251	NCU-25055
	60°	5	NCB-251	NCU-675
		7		NCU-7063
	70°	7	NCB-254	NCU-7063

Neway T-Handle Drivers

 Two sizes to fit small series cutter bodies and standard series cutter bodies

Adaptor available





Counterbore Cutter Drive Adaptors cutters on page 14

Cutter Drivers	Order No.
#3 MT Driver	CD-MT3
Fits .750" Bridgeport Collet	
%" arbor, .375" pilot	DCW-60-375
%" arbor, .385" pilot	DCW-60-385
%" arbor, .375" pilot	KWP-60-375
%" arbor, .385" pilot	KWP-60-385
Ball Head Driver .375" pilot, %" arbor	DCD-375
Ball Head Driver .385" pilot, %" arbor	DCD-385
%" Driver for Serdi & Rottler SG-9A, SG-9M	DVR-SER
%" Driver for Serdi & Rottler SG-9A, SG-9M	DVR-SER-58



Wear Sleeves for Counter Bore Cutters

• Wear sleeves fit CD-MT3 Driver above

Wear Sleeves For %6" (14.27mm) arbor DCW & DWI				ear Sleeves	
				For 5/8" / 15.87mm arbor KWP & KPI	
style seat cutters			sty	le seat cutters	
	Pilot Top Size	Order No.	Pil	lot Top Size	Order No.
	.375" (9.53mm)	DCW-375	.37	75" (9.53mm)	KWP-375
	.385" (9.78mm)	DCW-385	.38	85" (9.78mm)	KWP-385
	.437" (11.10mm)	DCW-437	.43	37" (11.10mm)	KWP-437

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"

DescriptionOrder No.WrenchNTW-EZDrive AdaptorNTW-503-1



Valve Seat Cutting Fluid

 High silicone content reduces drag on cutters so they last longer

Order Ne

(FW-2) pg. 52

- Promotes smoother cuts
- May be diluted up to 9:1
- Non-aerosol spray

Size	Order No.
16 oz. Spray / 473 mL	SCF-2
1 Gal. / 3.79 L	SCF-10
996	
Manual	3/4"
Pneumatic	3/4"
VSD-HD	Use with Press Fit Lube (PFL-200) pg. 86 or Fluid Weld

Valve Seat Drivers For Fast Seat Installation

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

Order No.
VSD-202-G
VSD-203-G
VSD-204-G
VSD-205-G
VSD-206-G
VSD-207-G
VSD-HD
PSD-385
PSD-437



"We have been doing business with Goodson for over 10 years. They have outstanding customer service and a great selection of specialty tooling and parts for Harleys."

– Bob LaGuardia, Diamond Bar Choppers, Diamond Bar CA, Goodson customer since 2000



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 insert screws and a wrench with every cutter body.



DWI-SERIES

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



KPI-SERIES

- Fits Kansas Instruments. Kwik-Way and Peterson
- 5/8" / 15.9mm arbor

		DWI-Series	KPI-Series
		DCM Tech, WVN	K.I., KW, Peterson
		(%6" arbor)	(5%" arbor)
Size	mm	Order No.	Order No.
1.062"	26.97	DWI-1062	
1.125"	28.57	DWI-1125	
1.187"	30.15	DWI-1187	
1.250"	31.75	DWI-1250	KPI-1250
1.312"	33.32	DWI-1312	KPI-1312
1.375"	34.93	DWI-1375	KPI-1375
1.437"	36.50	DWI-1437	KPI-1437
1/4" Rep	lacement	Cutting Insert for Cutters above	SCI-250-B
Replace	ement Sci	rew for SCI-250-B	SCS-T7
Allen W	rench for	SCS-T7	SCW-T7

		• • • • • • • • • • • • • • • • •	
		DCM Tech, WVN	K.I., KW, Peterson
		(%16" arbor)	(%" arbor)
Size	mm	Order No.	Order No.
1.062"	26.97	DWI-1062	
1.125"	28.57	DWI-1125	
1.187"	30.15	DWI-1187	
1.250"	31.75	DWI-1250	KPI-1250
1.312"	33.32	DWI-1312	KPI-1312
1.375"	34.93	DWI-1375	KPI-1375
1.437"	36.50	DWI-1437	KPI-1437
1/4" Repl	acement Cι	utting Insert for Cutters above	SCI-250-B
Replace	ment Screw	v for SCI-250-B	SCS-T7
Allen Wr	ench for SC	CS-T7	SCW-T7

DCM Tech, WVN (%" arbor) (5%" arbor) (7%" arbor) (7	
Size mm Order No. Order No. 1.500" 38.10 DWI-1500 KPI-15 1.562" 39.67 DWI-1562 KPI-15 1.625" 41.28 DWI-1625 KPI-16 1.687" 42.85 DWI-1687 KPI-16 1.750" 42.85 DWI-1750 KPI-17	
1.500" 38.10 DWI-1500 KPI-15 1.562" 39.67 DWI-1562 KPI-15 1.625" 41.28 DWI-1625 KPI-16 1.687" 42.85 DWI-1687 KPI-16 1.750" 42.85 DWI-1750 KPI-17	
1.562" 39.67 DWI-1562 KPI-150 1.625" 41.28 DWI-1625 KPI-160 1.687" 42.85 DWI-1687 KPI-160 1.750" 42.85 DWI-1750 KPI-170	No.
1.625" 41.28 DWI-1625 KPI-162 1.687" 42.85 DWI-1687 KPI-162 1.750" 42.85 DWI-1750 KPI-172	500
1.687" 42.85 DWI-1687 KPI-168 1.750" 42.85 DWI-1750 KPI-178	62
1.750" 42.85 DWI-1750 KPI-175	25
	87
1.812" 44.45 DWI-1812 KPI-18	'50
	12
1.875" 47.63 DWI-1875 KPI-18	75
1.937" 49.20 DWI-1937 KPI-19 3	37
2.000" 50.80 DWI-2000 KPI-200	000
2.062" 52.37 DWI-2062 KPI-20	62
2.125" 53.98 DWI-2125 KPI-21 2	25
3/8" Replacement Cutting Insert for Cutters above SCI-375	5-B
Replacement Screw for SCI-375-B SCS-T1	15
Torx Wrench for SCS-T15 SCW-T	15



Minnesota Fast Freeze

Creates interference fit with heated aluminum heads • Finish seat and guide work faster than ever • Aerosol* • Use on tight bushings, pins, shafts, etc. • Order No. MFF-8

Hazardous Goods Fees Apply When Shipped Air

Nickel-Chrome Valve Seats For a Variety Of Applications

page 123

more

seats on

_		- ,			- '		
OD	ID	Depth	Order No.	OD	ID	Depth	Order No.
1.250"	0.812"	1/4"	VS-1250	1.625"	1.375"	⁷ /32"	VS-1625A
1.312"	1.000"	1/4"	VS-1312	1.687"	1.375"	1/4"	VS-1687
1.375"	1.062"	1/4"	VS-1375	1.750"	1.500"	1/4"	VS-1750
1.437"	1.125"	1/4"	VS-1437	1.812"	1.500"	1/4"	VS-1812
1.500"	1.187"	1/4"	VS-1500	1.875"	1.562"	1/4"	VS-1875
1.562"	1.250"	1/4"	VS-1562	1.937"	1.625"	1/4"	VS-1937
1.562"	1.312"	7/32"	VS-1562A	2.000"	1.625"	1/4"	VS-2000
1.625"	1.312"	1/4"	VS-1625				

See page 5 for valve seat removal tools that fit 3-D Fast Cut



Valve Seat Removers -A Low-Cost Way to Pull Valve Seat Inserts

• Use to pry out valve seat inserts or stubborn grease seals • Three angles available • Not recommended for use

on aluminum heads Set includes one of each angle 120°

Description Order No. 3- Pc. Set VSP-SET ▼ 900 VSP-90 x 100° VSP-100 x VSP-120 x

Valve Seat Inserts

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

 Radiused 		•		
Replacement	Valve Sea	ats For Sh	ovel Head 1200 8	& 1340
Application	OD	ID	Thickness	Order No.
Exhaust	1.944"	1.575"	.400"	10-HC493
Intake	2.135"	1.750"	.400"	10.12 10-HC542
Oversize Sea	ts For Sho	ovel, Evolu	ıtion & Twin Caı	m – machining required
	OD	ID	Thickness	Order No.
	1.630"	1.180"	.385"	10-HC414
	1.757"	1.410"	.430"	10-HC447
	1.882"	1.530"	.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	d Sportste	r		
Application	OD	ID	Thickness	Order No.
Exhaust	1.757"	1.371"	.315"	10-HC446
Intake	2.068"	1.750"	.315"	10-HC525
Universal Re	pair 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
	1.945"	1.375"	.440"	10-HC494

.500"

10-HC573

Petroleum Based Lapping Compound

- Silicon-carbide, grease-based compound
- Precise mating between valves and seats for fast cutting



Order No.	Size	Grit
VLC-2-400	2 oz. / 56.7g	400
VLC-2-600	2 oz. / 56.7g	600
VLC-2-800	2 oz. / 56.7g	800
VLC-2-1200	2 oz. / 56.7g	1200
VLC-4	2 oz. / 56.7g ea.	120, 280
VLC-120	1 lb. / 453.6g	120
VLC-180	1 lb. / 453.6g	180
VLC-280	1 lb. / 453.6a	280



Vacuum Style Lapping Stick

- 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 Stic	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



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

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)

Air Powered Valve Lapping Tool

Valve Lapping Tools & Supplies

- Operates on 90psi
- Includes air tool and 3 replacement cups • Air actuated ... no electricity needed • Cups also sold separately

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

Mechanical Valve Lapping Tool

- · Auto oscillation with a simple crank
- · Includes blade drive for slotted valves

Description		Cup ID	Order No.
Mechanical Valve La	pping Tool		VL-EB
Replacement Cups	33.3mm / 1.313" dia.	.297"	VLS-15/16
	44.5mm / 1.750" dia.	.313"	VLS-1 3/4

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"	VI P-20



• For 2" and larger valves

Description	Cup ID	Order No.
Hand Valve Lapping Stick 81/4" Long		VLS-75
Replacement Cup 44.5mm / 1.750" dia.	.313"	VLS-1 3/4

iron-clad guarantee 15



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 pre-trued and checked to assure accurate, vibration-free grinding



General Purpose

Removes material from cast-iron seats or inserts. Ideal for antiques.



Cool Blue

Superior general purpose stone for high performance Beryllium seats. Cuts faster. For tractors and trucks with diesel engines.



Stellite

Specially formulated to grind Stellite and other types of hardened seat inserts, ie. Diesel & Industrial.



Finish

Gives an ideal final finish with minimal stock removal



Nickel Chrome

For aluminum heads with chrom-alloy seat inserts. Won't load up or groove. Speckled.



Ruby

The original Black & Decker composition, general purpose stone.

Fits Kwik-Way 13/16"x13 thread

Custom angles and sizes are available in house. Call for more information.

Colors may vary due to manufacturing processes

Size		Gene	erai Purpose (G	P)	Cool BI	ue (CB)	Finish	ing (F)	Stelli	ite (S)
Inch	mm	00°	30°	45°	000	45°	30º	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				
1%"	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
1½"	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
1%16"	39	KW-1200A-GP		KW-1245A-GP		KW-1245A-CB		KW-1245A-F	KW-1200A-S	KW-1245A-S
1%"	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				
Siza		Nickel Chr	ome (NC)		Ruby (R)					

23/8"	60	KW-1900-GP	KW-1930-GP	KW-1945-GP	KW-1900-CB	KW-1945-CB
Size		Nickel Chr	ome (NC)	Ruby (R)		
Inch	mm	00°	45°		000	45°
1"	25	KW-700-NC	KW-745-NC	K\	V-700-R K	<i>N-</i> 745-R
11/16"	27	KW-800-NC	KW-845-NC	K\	V-800-R K	W-845-R
11/8"	28	KW-900-NC	KW-945-NC	K\	V-900-R K	W-945-R
11/4"	32	KW-1000-NC	KW-1045-NC	K\	V-1000-R K	W-1045-R
13/8"	35	KW-1100-NC	KW-1145-NC	K\	V-1100-R K	W-1145-R
17/16"	36	KW-1100A-NC	KW-1145A-NC	_		
1½"	38	KW-1200-NC	KW-1245-NC	K\	V-1200-R K	W-1245-R
19/16"	39	KW-1200A-NC	KW-1245A-NC	_		
15/8"	41	KW-1300-NC	KW-1345-NC	K\	V-1300-R K	W-1345-R
111/16"	43	KW-1300A-NC	KW-1345A-NC	_		
13/4"	44	KW-1400-NC	KW-1445-NC	K\	V-1400-R K	W-1445-R
11//8"	47	KW-1500-NC	KW-1545-NC	K\	V-1500-R K	W-1545-R
2"	51	KW-1600-NC	KW-1645-NC	K\	V-1600-R K	W-1645-R
21/8"	54	KW-1700-NC	KW-1745-NC	_		
21/4"	57	KW-1800-NC	KW-1845-NC	_		
23/8"	60	KW-1900-NC	KW-1945-NC	_		

Ordering is easy!

1 - Find the diameter + 1/16" to 1/8").



- 2 Find the angle you need (you can modify angles with our Valve Seat Stone Dresser, page 20).
- 3- Select the abrasive to match your job.

17

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

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 Flex Drive Motor Seat Grinding Set (110V, 50/60 Hz) SGF-110-KIT Flex Drive Motor Seat Grinding Set (220V, 50/60Hz) SGF-220-KIT 031-3100-20 031-3100-20 Hex Drive Seat Grinder - 45° 110V, 50/60Hz 031-3100-27 Hex Drive Seat Grinder - 45° 220V, 50/60Hz 031-3100-27 1 031-3000-15 031-3000-15 Flex Drive Seat Grinder 110V, 50/60Hz 031-3000-35 031-3000-35 Flex Drive Seat Grinder 220V, 50/60Hz **SWD-UNI** Universal Wheel Dresser w/G-1 P Diamond 1 1 1 Replacement Dressing Stand Diamond G-13P 031-0202-80 Dressing Stand Pilot with .437" Top 031-0202-80 031-1102-89 Dressing Stand Pilot with .437" Top 031-1102-89 1 1 Stone Holder - 13/16" x 13 Thread w/Plunger 031-0300-30 031-0300-30 2 2 031-0300-64 031-0300-64 2 2 Flex-Drive Stone Holder with Stabilizer SG-CASE 1 1 1 Heavy Duty Plastic Case (215/16" x 121/2" x 131/2") 001-1000-25 Seat Stone Removal Tool **KW-SRT** 1 Leather Washer / Vibration Reducer (3 Pc.) 031-1009-41 KHW-3 1 1 .437" Top Pllots Dia./mm .2755" / 7.00mm P-5275K 1 030-0237-30 .2760" / 7.01mm P-5276K 1 1 .2765" / 7.05mm 030-0237-40 P-5277K 1 1 .3125" / 7.93mm 030-0239-35 P-5312K 1 1 .3135" / 7.96mm 030-0239-51 P-5313K 1 1 .3145" / 7.98mm P-5314K 030-0239-78 1 1 1 P-5315K .3150" / 8.00mm 030-0239-94 1 1 .3437" / 8.72mm P-5343K 030-0242-73 1 1 P-5344K .3440" / 8.74mm 030-0243-03 1 1 .3457" / 8.78mm P-5345K 1 1 030-0243-11 1 1 .3730" / 9.47mm P-5373K 1 1 1 030-0247-70 1 .3750" / 9.52mm 030-0247-70 P-5375K 1 1 1 General Purpose Valve Seat Grinding Stones (13/6"x13) 30° 45º KW-1145-GP 1.375" / 35mm KW-1130-GP 1 KW-1245-GP 1.500" / 38mm KW-1230-GP 1 1 1 1 1 1 KW-1330-GP KW-1345-GP 1.615" / 41mm 1 1 1 1 1 1 1.750" / 44mm KW-1430-GP KW-1445-GP 1 1 1 1 1 1.785" / 47mm KW-1530-GP KW-1545-GP 1 1 1 1 1 KW-1630-GP 1 1 KW-1645-GP 1 1 1 2.000" / 51mm KW-1745-GP 2.125" / 54mm KW-1730-GP 1 1 1 1 1 1 1

30°

1 1

1

1 1 1

1 1 1

1

1

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1 1

1 1

Finishing Valve Seat Grinding Stones (13/16"x13)

KW-1130-F

KW-1230-F

KW-1330-F

KW-1430-F

KW-1530-F

KW-1630-F

1.375" / 35mm

1.500" / 38mm

1.625" / 41mm

1.750" / 44mm

1.785" / 47mm

2.000" / 51mm

same day shipping



.500" Bore





.650" Bore

031-0412-36

031-0426-10

3/8" x 24 Thread

5/16" x 18 Thread





031-1011-00

Hex Drive Replacement Assemblies

 Adapt your Seat Grinder Motor to fit various Kwik-Way Seat 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	



45° Kwik-Way Hex Drive (SGH) **Electric Motor Unit**

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

45°

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1 1 1 1

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1 1 1 1

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1

- 0/0 Til , 7.0 Allips	
Description	Order No.
110V, 50/60Hz	031-3100-20
220V, 50/60Hz	031-3100-27
Accessories	
Hex Drive Assembly	031-3112-17
Leather Washer	031-1009-41

KW-1730-F KW-1745-F 1 1 1 1 2.125" / 54mm 1 1 1

KW-1145-F

KW-1245-F

KW-1345-F

KW-1445-F

KW-1545-F

KW-1645-F







"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 - 3 years of service

SX Fits Sioux[™], KO Lee, US, Thor, Skil, Winona 11/16"x16 thread

Colors may vary due to manufacturing processes

Size		General Purpose (GP)			Cool Blue (CB) Ruby					
Inch	mm	00°	30°	45º	60°		00º	45º	000	45º
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
11/16"	27 -								SX-800-R	SX-845-R
11//8"	2	SX-900-GP	SX-930-GP	SX-945-	GP ————				SX-900-R	SX-945-R
13/16"	30	SX-900A-GP		SX-945A	\-GP ————					
11/4"	32	SX-1000-GP	SX-1030-GP	SX-1045	-GP SX-1060-GP	SX-1000-	-CB	SX-1045-CB	SX-1000-R	SX-1045-R
15/16"	33	SX-1000A-GP		SX-1045	A-GP ————	SX-1000	0A-CB	SX-1045A-CB -		
13/8"	35	SX-1100-GP	SX-1130-GP	SX-1145	-GP SX-1160-GP	SX-1100	0-CB	SX-1145-CB	SX-1100-R	SX-1145-R
17/16"	36	SX-1100A-GP		SX-1145	A-GP ————	SX-1100	0A-CB	SX-1145A-CB -		
11/2"	38	SX-1200-GP	SX-1230-GP	SX-1245	-GP SX-1260-GP	SX-120	0-CB	SX-1245-CB	SX-1200-R	SX-1245-R
1%16"	39	SX-1200A-GP		SX-1245	A-GP ————	SX-1200	0A-CB	SX-1245A-CB -		
15/8"	41	SX-1300-GP	SX-1330-GP	SX-1345	-GP SX-1360-GP	SX-1300	0-CB	SX-1345-CB	SX-1300-R	SX-1345-R
111/16"	43	SX-1300A-GP		SX-1345	A-GP ————	SX-1300	0A-CB	SX-1345A-CB -		
13/4"	44	SX-1400-GP	SX-1430-GP	SX-1445	-GP SX-1460-GP	SX-1400	0-CB	SX-1445-CB	SX-1400-R	SX-1445-R
11//8"	47	SX-1500-GP	SX-1530-GP	SX-1545	-GP SX-1560-GP	SX-1500		SX-1545-CB	SX-1500-R	SX-1545-R
2"	51	SX-1600-GP	SX-1630-GP			SX-1600		SX-1645-CB		SX-1645-R
21/8"	54	SX-1700-GP	SX-1730-GP	SX-1745	-GP ————	SX-1700	0-CB	SX-1745-CB	SX-1700-R	SX-1745-R
21/4"	57	SX-1800-GP	SX-1830-GP	SX-1845	-GP SX-1860-GP	SX-1800	0-CB	SX-1845-CB		SX-1845-R
23/8"	60	SX-1900-GP	SX-1930-GP	SX-1945	-GP SX-1960-GP	SX-1900	0-CB	SX-1945-CB		SX-1945-R
21/2"	63	SX-2000-GP	SX-2030-GP	SX-2045	-GP ————	SX-2000	0-CB	SX-2045-CB	SX-2000-R	SX-2045-R
25/8"	66	SX-2100-GP	SX-2130-GP	SX-2145	-GP ————	SX-2100		SX-2145-CB -		
Size			Stellite (S)			Finishing (F)			Nickel Chrome)
Inch	mm	00°	30°	45º	000	30°	45°	000	30°	45º
1/2"	12.7		(MESSES)					SX-200-NC	100000000	
%16 "	14.3		Services.			The state of the s		SX-200A-NC	San San San	
5/8"	15.9		-					SX-300-NC		
11/16"	17.4		-					SX-300A-NC		
3/4"	19.1						l ———	SX-400-NC		
¹³ / ₁₆ "	20.6		TOTAL STREET			The same of		SX-400A-NC	THE PERSON NAMED IN	
⁷ /8"	22 -		-		SX-500-F		SX-545-F	SX-500-NC	-	SX-545-NC
15/16"	24 -				SX-600-F		SX-645-F	SX-600-NC		SX-645-NC
1"	25 -		-		SX-700-F	-	SX-745-F	SX-700-NC	-	SX-745-NC
11/16"	27 -				SX-800-F		SX-845-F	SX-800-NC		SX-845-NC
11//8"	28	SX-900-S		SX-945-S	SX-900-F	SX-930-F	SX-945-F	SX-900-NC	SX-930-NC	SX-945-NC
13/16"	30	SX-900A-S		SX-945A-S	SX-900A-F —		SX-945A-F	SX-900A-NC		SX-945A-NC
11/4"	32	SX-1000-S		SX-1045-S	SX-1000-F	SX-1030-F	SX-1045-F	SX-1000-NC	SX-1030-NC	SX-1045-NC
15/16"	33	SX-1000A-S		SX-1045A-S	SX-1000A-F —		SX-1045A-F	SX-1000A-NC		SX-1045A-NC
13/8"	35	SX-1100-S		SX-1145-S	SX-1100-F	SX-1130-F	SX-1145-F	SX-1100-NC	SX-1130-NC	SX-1145-NC
17/16"	36	SX-1100A-S		SX-1145A-S	SX-1100A-F ——		SX-1145A-F	SX-1100A-NC		SX-1145A-NC
1½"	38	SX-1200-S		SX-1245-S	SX-1200-F	SX-1230-F	SX-1245-F	SX-1200-NC	SX-1230-NC	SX-1245-NC
19/16"	39	SX-1200A-S		SX-1245A-S	SX-1200A-F		SX-1245A-F	SX-1200A-NC		SX-1245A-NC
15/8"	41	SX-1300-S	SX-1330-S		SX-1300-F	SX-1330-F	SX-1345-F	SX-1300-NC	SX-1330-NC	SX-1345-NC
111/16"		SX-1300A-S		SX-1345A-S	SX-1300A-F —		SX-1345A-F	SX-1300A-NC		SX-1345A-NC
13/4"	44	SX-1400-S	SX-1430-S S		SX-1400-F	SX-1430-F		SX-1400-NC		SX-1445-NC
11//8"	47	SX-1500-S	SX-1530-S		SX-1500-F		SX-1545-F	SX-1500-NC		SX-1545-NC
2"	51	SX-1600-S	SX-1630-S		SX-1600-F		SX-1645-F	SX-1600-NC		SX-1645-NC
21/8"	54	SX-1700-S	SX-1730-S		SX-1700-F		SX-1745-F	SX-1700-NC		SX-1745-NC
21/4"	57	SX-1800-S	SX-1830-S S		SX-1800-F		SX-1845-F	SX-1800-NC		SX-1845-NC
23/8"	60	SX-1900-S	SX-1930-S		SX-1900-F		SX-1945-F	SX-1900-NC		SX-1945-NC
21/2"	63	SX-2000-S	SX-2030-S	SX-2045-S	SX-2000-F	SX-2030-F	SX-2045-F	SX-2000-NC		SX-2045-NC
25/8"	66 -							SX-2100-NC		SX-2145-NC
	1000	All	Valve Seat Whee	els are guara	nteed against manufac	turing defects	tor 1 year from	original purchase d	ate	



Double Angle Valve Seat **Wheels**

- Fits Sioux-Style 7/8"x14 thread
- 30° one side, 45° on the other side

		Ocherai i ai pose	THORE OIL OIL	Oooi Diac
Inch	mm	Order No.	Order No.	Order No.
3"	76.2	SXL-2345-GP	SXL-2345-NC	SXL-2345-CB
31/4"	82.5	SXL-2445-GP	SXL-2445-NC	SXL-2445-CB
31/2"	88.9	SXL-2545-GP	SXL-2545-NC	SXL-2545-CB
33/4"	92.3	SXL-2645-GP	SXL-2645-NC	SXL-2645-CB
4" 1	01.6	SXL-2745-GP	SXL-2745-NC	SXL-2745-CB

Seat Grinding Equipment & Supplies

GOODSON

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 Spline 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.

Description OE Number			Order No.	Includes	
45° Spline Drive	Motor Seat Grinding Set (110V, 50/	(60 Hz)	SGK-110-KIT		•
45° Spline Drive	Motor Seat Grinding Set (220V, 50/	60Hz)	SGK-220-KIT	▼	
Spline Drive Sea	t Grinder - 45° 110V, 50/60 Hz	031-3100-21	031-3100-21		1
Spline Drive Sea	t Grinder - 45° 220V, 50/60 Hz	031-3100-28	031-3100-28	1	
Universal Seat W	Wheel Dresser w/G-13P Diamond		SWD-UNI	1	1
Replacement Dre	essing Diamond		G-13P		
Dressing Stand F	Pilot	031-0202-55	031-0202-55	1	1
Stone Holder - 1/2	%" x 16 Thread	1702	SX-HOLDER	2	2
Heavy Duty Plas	tic Storage Box (215/16" x 121/2" x 131/	¹ 2") 001-1000-25	SG-CASE	1	1
Seat Stone Rem	oval Tool		SX-SRT	1	1
Bounce Spring S	Set (3 Pc.)		BSS-100	1	1
	/ Vibration Reducer (3 Pc.)	031-1009-41	SHW-3	1	1
.385" Top Pilots				_	
·	.2755" / 7.00mm		P-5275S	1	1
	.2763" / 7.02mm		P-5277S	1	1
	.2779" / 7.05mm		P-5278S	1	1
	.3125" / 7.94mm		P-5312S	1	1
	.3130" / 7.95mm		P-5313S	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
General Purpos	e Seat Grinding Stones (11/16"x16)	30°		4	.5º
1.375" / 35mm	SX-1130-GP	1 1	SX-1145-GP	1	1
1.500" / 38mm	SX-1230-GP	1 1	SX-1245-GP	1	1
1.625" / 41mm	SX-1330-GP	1 1	SX-1345-GP	1	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	1	1
2.125" / 54mm	SX-1730-GP	1 1	SX-1745-GP	1	1
	Seat Grinding Stones (11/16"x16)	30°		4	50
1.375" / 35mm	SX-1130-F	1 1	SX-1145-F	1	1
1.500" / 38mm	SX-1230-F	1 1	SX-1245-F	1	1
1.625" / 41mm	SX-1330-F	1 1	SX-1345-F	1	1
1.750" / 44mm	SX-1430-F	1 1	SX-1445-F	1	1
	OA 1700-1				
	SX-1530-F	1 1	SX-1545-F	1	
1.785" / 47mm 2.000" / 51mm	SX-1530-F SX-1630-F	1 1	SX-1545-F SX-1645-F	1 1	1



45° Sioux-Style (SGK) Spline Drive Electric Motor Unit

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

0,0	
Description	Order No.
110V, 50/60Hz	031-3100-21
220V, 50/60Hz	031-3100-28



Replacement Drive

Assemblies

- Easy to install
- Always keep one on hand

ioi emergencies	
Description	Order No.
Spline Drive (SGH)	034-3112-00

Seat Stone Holders , Adaptors & More

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



NEW! Sioux-Style & Kwik-Way Style Stone Holders for .375" Top Pilots, page NP-5









037-0300-04	/3/1-0300-00	031-0300-03	031-0300-30	031-0300-30	
.437" Pilot, 13/16"x1:	3 Thread Kwik	-Way Stone Ho	lders		
All Kwik-Way Holde	ers are rebuilda	able unless note	ed	Order No.	
Flex-Drive Stone H	older with Stat	oilizer & Couplin	g	031-0300-64	
Flex-Drive Stone H	older with Stat	oilizer		031-0300-80	
Flex-Drive Stone H	older only			031-0300-85	
Hex-Drive Stone Ho	older w/o Sprir	ng Plunger		031-0300-56	
Hex-Drive Stone Ho	older with Spri	ng Plunger		031-0300-30	



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



For Hex Drive Stone Holder with Spring Plunger

Includes 2 Bearings, Bearing Sleeve, Bearing Lock Nut, Sleeve Key, Hex Cap & 034-0002-15 Spring Plunger



For Flex Drive Stone Holder

Includes 2 Bearings, Bearing Sleeve, Heavy Duty Flex Coupling, Inner Sleeve Key 034-0003-25 & Set Screw

Rebuild kit components are not available individually

SX-1672	SX-HOLDER	SX-1702BB	BDS-HOLDER
.385" Pilot, 11/16"x1	6 Thread Sioux-Styl	e Stone Holders	
	0	E#	Order No.
Short Body (Spline) 1 <i>6</i>	572	SX-1672
Sioux-Style (Spline) 17	02	SX-HOLDER
5/8" Hex Drive	17	702BB	SX-1702BB
			100
			BD-58



.375" Pilot, Thread Black & Decker Stone Holders			
	OE#	Order No.	
Black & Decker Style %6"x16	BD-HOLDER	BDS-HOLDER	
Includes BD-60 adaptor to convert	%6"x16 to 11/16"x16	Sioux-style stones	
Sioux-Style fits .375 " Pilot 11/16"x16	6 thread	SX-375	Me
Hex Drive fits .375 " Pilot 13/16"x13	thread	KW-375	
Accessories		Order No.	







031-0393-04

BD-58

BD-60

031-0390-02 Grinding Wheel Adaptors

Black & Decker 5/8" Hexball 5/6"x24 thread

	•
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 %6"-	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

Billet Aluminum Tooling Stand

Accommodates tooling using 3/8" or larger

pilots. Perfect for stone holders! Room for up to 5 tools. Order No. TS-5



Kwik-Way



- · Heavy duty electric motor
- Flex Drive allows for slight operator misalignment
- 11,500 RPM (free speed) 6982 RPM (under load)
- Weighs 12 lbs. 3/5 HP 7.5 Amps
- Use with Flex Drive Stone Holders (page 20)

Description	Order No.
110V, 50/60Hz	031-3000-15
220V, 50/60Hz	031-3000-35
Replacement Nose Assembly	031-3005-17



031-3112-17

Spline Drive

Hex Drive

SW-KW

Replacement Drive Assemblies

- · Easy to install
- · Always keep one on hand for emergencies

Description	Order No.
Spline Drive (SGK)	034-3112-00
Hex Drive with Leather Washer (SGH)	031-3112-17
Replacement Leather Washer	031-1009-41

45º Hex Drive (SGH) Electric Motor Unit Heavy duty • 11,500 RPM (free speed) • 6982 RPM (under load) • 9 lbs. • 3/5 HP

• 7.5 amps • Use with Hex Drive Stone Holders (page 20)

7.0 dilipo Goo wali ilox Billo Glori	o i iolacio (pago zo
Description	Order No.
110V, 50/60Hz	031-3100-20
220V, 50/60Hz	031-3100-27
Replacement Nose Assembly	031-3105-12
Hex Drive Assembly with Leather Washer	031-3112-17

45° (SGK) Sioux-Style Spline Drive Electric Motor Unit

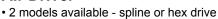
• Heavy duty • 11.500 RPM (free speed)

• 6982 RPM (under load) • 9 lbs. • 3/5 HP

• 7.5 amps • Use with SX Stone Holder (page 20) 034-3112-00

	(
Description	Order No.
110V, 50/60Hz	031-3100-21
220V, 50/60Hz	031-3100-28
Replacement Nose Assembly	034-3105-00
Replacement Spline Drive Assembly	034-3112-00

meW 90º Angle **High-Speed Air Driver**



- 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 ergonomically designed for unmatched user comfort

annatorioa acor connert	
Description	Order No.
Spline Drive (SGK)	AG-SX90
Hex Drive (SGH)	AG-KW90

SW-SX

Valve Seat **Angle Grinder** Adaptors

- Turn your 4½" Angle Grinder with %"x11 threads into a Valve Seat Grinder
- Available for Sioux and Kwik-Way
- Stone holders and pilots available separately

Description	Order No.
Spline-Drive (SGK) Adaptor	SW-SX
Hex Socket (SGH) Adaptor	SW-KW
B&D Angle Drive Adapter	SW-BD



Universal 4500 RPM Air Driver & Adaptors

- Planetary gear set-up reduces speed to 4500 RPM for best finish, more control and increased torque
- Use vertically to reduce side load on stones
- Weighs just 2 lbs./.91 kg
- Adaptors available for a variety of stone holders
- · Precision clamping collet and wrenches included
- Use with bounce springs (page 22) for best results

Osc with bounce springs (page 22) for best results							
Description		Order No.					
4500 RPM Air Driver		AG-4500					
Hexball Driver	5/16" SAE thread	ADA-BDS					
Kwik-Way Drive Adaptor	1/2" x 20 thread	ADA-KW					
Sioux-Style Drive Adaptor	NEW welded style adaptor	ADA-SX-HD					

21 made-to-order crankwheels

031-3112-17

American Made

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

shield

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
Replacement Parts		
Spring Detent	SWD-UN	II-DET
Arm Assembly with Spring & Plunger	SWD-UN	II-ARM

Stones and Holders

sold separately

Now Includes

Select From

Chart Below

American Made

Includes Premium

Dresser Pilot - Select

From Chart

Below

emium Dresser Pilot

See pages 16-21 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
- · Order dressing pilot separately from list below
- ocianed for maximum accuracy

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



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

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	7¼"	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, set 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 Pilo	Order No.
Valve Seat Height Gauge Kit	.375"	VSHG-375
Replacement Dial Indicator		EDI-1

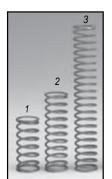


Goodson recommends using Bounce Springs with your Valve Seat Stones to prevent damage to the stone and the rom the techxperts™ seat. This is especially important with the very small stones.



Standard **Bounce Spring Set**

- Includes 1 each of 3 lengths: 1" / 24.5mm. 1.50" / 38.1mm and 2" / 50.8mm
- ID = .450" / 11.4mm
- OD = .570" / 14.5mm
- Order No. BSS-100



Small Diameter **Bounce Springs**

- ID = .406"/10.3mm

• OD = .500	/12./111111	
Length / mm	Order No.	
1.10" / 27.9	BS-1	
1.67" / 42.4	BS-2	
3.00" / 76.2	BS-3	

GMC-VST

Use VG-STOP for extra long stemmed valves

Adaptor for ½" Chucks

- · For small diameter valves
- Hardened steel collet holder fits any machine with a ½" chuck • Collet seats in retainer nut for fast, easy removal
- Internal stop adjusts with a screwdriver, allowing you to reface an entire set of valves to identical specs quickly
- 3 collet sizes cover range of 4.5 6.5mm
- 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. In	cl.
Full Set		UVRC-46	▼
Steel Collet Ho	older (collets MUST be used)	UVRC-46R	X
Replacement	4.5 - 5.0 mm (.177"196")	UVRC-5MM	Х
Collets	5.0 - 5.5 mm (.196"216")	UVRC-5.5MM	X
	6.0 - 6.5 mm (.236"256")	UVRC-6.5MM	Х
Adaptor Stop		VG-STOP	х



Valve Stem to Valve Face Concentricity Gauge

Valve Refacing

- 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

GMC-KW

Diamond Dresser Tools for Common Valve Refacers

• Select from Standard or Premium Grade • See the complete assortment of diamond dresser tools on pages 106 and 107.

	Machine	Description	Carat	Radiac #	Standard	Premium
Valve Refacers	B&D, Skil, Sioux™, Thor, VanDorn, WVN	3⁄8"x15⁄8"	1/5	2335660	G-1	G-1P
	Kwik-Way, Tobin Arp (S&D)	⁵ /16"x2 ¹ /2"	1/5	2335662	G-3	
	Kwik-Way, Valve Master (1714)	1/2"x31/4" 20NF	1/5		G-4	
	Sioux™ (1713, 1715), IDL, WVN (CG50, CG80)	3/8"x23/4" 24NF	1/5	2335664	G-5	G-5P
	IDL, WVN (CG-50, CG-80)	3/8"x31/4" 24NF	1/5		G-80	G-80P
	US	7∕16"x2"	1/5		G-6	
	Skil (Talent)	5/16"x21/4" 18NC	1/5		G-9	
	Kwik-Way	⅓6"x2¾" 20NF	1/5	2335670	G-17	G-17P



Sundura® Canvas Machine Covers

• Heavy-weight, breathable black Sundura® 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

corone and opaque, protance to		
Fits Machine	Dimensions	Order No.
Goodson Ring Filer or Sharpening Fixture	13"L x 7 ¹ / ₂ "D x 7 ¹ / ₂ "H	GMC-PRF
Rimac Spring Tester	32" Dia. x 18 ¹ / ₂ "H, tapers to 3" sq.	GMC-RIMAC
Goodson VST-60G Spring Tester	10"L x 14"D x 18"H	GMC-VST
Sioux 2075 Valve Refacer	35"L x 27"D x 16"H	GMC-SX
Kwik-Way SVS II Valve Refacer	35"L x 15"D x 12"H, trapezoid shape	GMC-KW
Rottler VR10 Valve Refacer	45"L x 28"D x 25"H	GMC-VR10
Rottler VR12 Valve Regacer	39"L x 31"D x 25"H	GMC-VR12







We pride ourselves on getting orders to you quickly. Goodson stocks 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."

Craig, Goodson Shipping - 3 years of service

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: **ST** = for grinding stainless, **S** = for grinding Stellite, **T** = for grinding Titanium, **GP** = for general purpose grinding and **CB** = 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 ⅓"	Offset	GP	Gray	A, B, C, LW, M, MW, N, NW, NWB	16371	F336037*
Decker		4" x 1" x 5⁄8"	Offset	CB	Blue	A, B, C, LW, M, MW, N, NW, NWB	Goodson Spec	GV-146-CB
		4" x 1" x 5⁄8"	Offset	S	Ruby	A, B, C, LW, M, MW, N, NW, NWB	16371	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	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
Comec	Valve	215 x 35 x 76mm	Flared	GP	Gray	VR416, RV-516	7604	GV-925
	Stem	100 x 50 x 20mm	Cup	GP	White	VR416, RV-516	7606	GV-928
IDL	Valve	8" x 1½" x 1½"	Flared	GP	White	CG-50,-80,-82, V-90, VR-7000	8230	GV-823
Sunnen		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 11/4" x 11/2"	Flared	S	Pink	CG-50,-80,-82, V-90, VR-7000	8230-3	GV-826
		8" x 1½" x 1½"	Flared	T	Green	CG-50,-80,-82, V-90, VR-7000	VR1704	GV-827
	Stem	8" x 11/4" x 11/2"	Flared	GP	Ruby	CG-80, CG-82, V-90, VR-7000	VR1701	GV-824
Kwik-Way	Valve	4½" x ½" x ½"	Offset	GP	Black	CV, SK, KK, VC, SV, XC	010-0450-10	GV-257
•		4½" x ½" x ½"	Offset	S	Gray	CV, SK, KK, VC, 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 1/8"	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-282
		7" x 1" x 1/8"	Offset	Ť	Green	SVS, SVS-2	Goodson Spec	GV-282A
		7" x 1 ⁹ / ₁₆ " x ⁷ / ₈ "	Offset	GP		SVS, SVS-2	Goodson Spec	F372239*
		7" x 1 ⁹ / ₁₆ " x ⁷ / ₈ "	Offset	GP	Ruby	SVS, SVS-2		F377419*
	Stem	3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup	GP	Gray	All Models except VL		F336036*
	Jicili	3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup	GP	Gray	All but VL	010-0300-05	GV-237
		3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup	CB	Blue	All but VL	Goodson Spec	GV-237-CB
		8" x 13/8" x 7/8"	Offset	GP	Gray	VL	010-0819-0	GV-260
KO Lee	Valve	5" x ³ / ₄ " x ⁵ / ₈ "	Offset	GP	Gray	All models	OV5GH60	GV-658
10 200	vaive	5" x ³ / ₄ " x ⁵ / ₈ "	Offset	S	White	All models	OV5GH80S	GV-659
	Stem	4" x 1" x 5%"	Cup	GP	Gray	K500(C) & K403(C)	RV4KH60	GV-345
	Jicili	4" x 1" x 5%"	Cup	CB	Blue	All but 500 & CRW	Goodson Spec	GV-345-CB
Rottler	Valve	7" x 1" x 1/8"	Offset	GP	Gray	VR-7	VTRW-8	GV-280
VR-7	vaive	7" x 1" x ½"	Offset	T	Gray	VR-7	VTRW-7	GV-282
VIX-1		7" x 1" x ⁷ /s"	Offset	GP	Orange		V 11XVV-7	F372239*
		7" x 1" x ⁷ /8"	Offset	GP	Ruby	VR-7		F377419*
	Stem	3" x 1½" x 5%"		GP		VR-7	VTRW-9	GV-237
	Stelli	3" x 1 ¹ / ₄ " x ⁵ / ₈ "	Cup Cup	GP	Gray Gray	VR-7	V 1 KVV-7	F336036*
Dottlor	Valve	8" x 1½" x 1½"	Flared	GP GP		VR-8	Coodson Space	GV-525
Rottler					Gray		Goodson Spec 7606	
VR-8	Stem	100 x 50 x 20mm	Cup	GP	White	VR416, VR-516	7000	GV-928
Rottler	Valve	9" x 1½" x 1½"	Offset	GP		VR-9, VR-12	V	GV-725
VR-9 &		9" x 1½" x 1½"	Offset	S	Pink	VR-9, VR-12		GV-726
VR-12		9" x 1½" x 1½"	Offset	T	Green	VR-9, VR-12		GV-727

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



A TYROLIT Company

Note: Look for * to find genuine Radiac valve refacing wheels.

25

Valve Refacing Wheels

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

valve refacing									
wheels are									
guaranteed for	To Fit	Use	Dia x Ht x Arb	Shape	Type	Color	Fits Models	OE No.	Order No.
1 year from	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 ⅓"	Cup	GP	Gray	All but Skil 491	7557/VR2M89	GV-345
127000			4" x 1" x 5/8"	Cup	CB	Blue	All but 500 & CRW	Goodson Spec	GV-345-CB
BORNE	Sioux™	Valve	4" x 1" x 5⁄8"	Offset	CB	Blue	All but 680, 682, 285, 956	Goodson Spec	GV-146-CB
4			4" x 1" x 5/8"	Offset	GP	Gray	All but 680, 682, 285, 956	78SP	GV-147
			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	Gray	All but 680, 682, 285, 956	78A	GV-149
			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%"	Offset/20°	GP	Pink	Thor 299 & 300	Goodson Spec	GV-156
			6" x 5/8" x 3/4"	Offset	S	White	685L	186	GV-186
			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
THE PERSON NAMED IN			7" x ¹¹ / ₁₆ " x 1 ³ / ₄ "	Str./15°	T	Green	680, 956, 2001 & 2075	174	GV-272
			7" x .675" x 1 ³ / ₄ "	Str./15°	GP	Ruby	2001, 2075, 680 & 956		A379613*
			7" x .675" x 1 ³ / ₄ "	Str./15°	ST, T	Green	2001, 2075, 680 & 956		A340229*
		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 500 & CRW	Goodson Spec	GV-345-CB
Yellow.	Sunnen	Valve	6" x 1½6" x ¾"	Flared	GP	Black	VR6500, all S&D	VR602	GV-766
STATE OF THE PARTY	(TA) S&D		6" x 1 ³ / ₈ " x ³ / ₄ "	Flared	GP	Gray	VR6500		F345291*
		Stem	5" x 1½" x ¾"	Cup	GP	White	VR6500, all S&D	VR601	GV-755
	Winona	Valve	5" x ¾" x ¾"	Off./Bev.	GP	Gray	E, Y, YW, X, XA	75399	GV-658
	Van		5" x ¾" x ¾"	Off./Bev.	S	White	K500HM, K403CM	75400	GV-659
	Norman	Stem	4" x 1" x 5⁄8"	Cup	GP	Gray	All but 500 & CRW	40352	GV-345
			4" x 1" x 5⁄8"	Cup	СВ	Blue	All but 500 & CRW	Goodson Spec	GV-345-CB

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



Mineral Based Valve Grinding Oil

Colors may vary due to

manufacturing

processes. All

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

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



Valve Grinding Aid For Titanium, **Stainless** & 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



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

- 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

At Goodson, we're trained to know your business. Weekly training sessions are held for our entire staff to" help us better understand your work so we can provide you with the best possible service."

Anne, Goodson Accounting - 14 years of service

High Speed Steel Core Drill/Reamers

For best results,

limit speed to

175 RPM

- Save time drill and ream in a single pass
- Top-quality, high speed steel
- · Prepares the guide bore for standard OD valve quide inserts

	OD Vaiv	c gaiac	, 11100110						
•	Several	shank	designs	to fit	most	Seat &	Guide	machine	es

- Several Sharik C	lesigns to ni	most Seat & Guide	THACHINGS
Fits	Size	mm	Order No.
Winona Van Norman	.343" x .500"	8.7x12.7	CDR-6055G
.468" flat			
Tobin-Arp & Sunnen	.343" x .500"	8.7x12.7	CDR-6105G
Peterson and K.I.	.343" x .500"	8.7x12.7	CDR-6196G
½" round shank	.375" x .500"	9.5x12.7	CDR-6197G
Kwik-Way and DCM	.343" x .500"	8.7x12.7	CDR-6211G
½" round shank	.375" x .500"	9.5x12.7	CDR-6212G
Serdi	.275" x .437"	7.0x11.1	CDR-7192G
%" 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
		•	

Valve Guide Tooling For 24 Valve, **7mm Cummins**

- To replace integral guides used in this diesel cylinder head
- Replacement guides are .502/.511"

G Intake Seals (12 pk.)

stepped to	sized for				
use with OE or replacement seals below	die	30L			
Description	Order No. Inc	clude	es		
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		
C Guide Driver (7.0mm)	PHL-2235-G	1	1		
D Cast Iron Valve Guide (Exhaust)	CIG-3022		12		
E Cast Iron Valve Guide (Intake)	CIG-3021		12		
F Exhaust Seals (12 pk.)	CVS-59E		1		

CVS-59i

Check these other tools for diesel applications	sized for
Air Powered Valve Guide Drivers Valve Guides	
Pneumatic Valve Spring Compressor Heat Tabs	

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 • Manufactured to close tolerances of concentricity

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

0.0.0000		.,				, op cocac	
			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 /	.4687"	.344"	66-02138, DP-1511	DPP-1511	.500"	66-02147, RR-115	DRR-115
Kansas	.4687"	.375"	66-02140, DP-1530	DPP-1530	.500"	66-02147, RR-115	DRR-115
Instruments	.5312"	.375"	DP-1730	DPP-1530A	.5625"	66-02148, RR-916	DRR-916
½" Round	.5937"	.375"	66-02144, DP-1930	DPP-1970B	.625"	66-02149, RR-519	DRR-519
Shank							
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
Winona	.4687"	.344"	804206	DD-1532-G	.500"	804237	DR-500-0
Van Norman	.4687"	.375"	804207	DD-1532A-G	.500"	804237	DR-500-0
IDL/	.475"	.341"	501003	DVN-2	.500"	501011	DRV-79
Van Norman	.475"	.375"	501004	DVN-3	.500"	501011	DRV-79
∑გენ Sq. Drive							
Universal	.429"	7mm		CCD-59 sized	for ⁴³⁶⁵ "	Use for Ford 6.0L Diesel	FCR-60-1
.429" Round	.429"	7mm		CCD-59 CCD-59	4375"	Use for Ford 6.0L Diesel	FCR-60
Shank	.429"	7mm		CCD-59		Use for Cummins Diesel	CCR-59
A					.562"	.500" pilot	CCR-562I
	.541"	8mm		CCD-550	.550	.540" pilot	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

Timproves varve guide illiisii					
Size	Order No.				
1 Pint / 473.2mL	BW-303-G				
1 Quart / 946.4mL	BW-303A-G				
1 Gallon / 1.893L	BW-305-G				



For best results always use Carbide Reamers

with Bronze Reaming Oil (BW-303A-G)



Once used on cast iron, do NOT use on bronze.

Small Reamers for Cast Iron or Bronze

• Premium quality reamers with tough cobalt flutes for long life in cast iron or bronze • 1/8" square drive

Inch	mm	Order No.
.1565"	3.98	MR-156
.1575"	4.00	MR-4MM
.1585"	4.03	MR-158
.1760"	4.47	MR-176
.1771"	4.50	MR-4.5MM
.1780"	4.52	MR-178
.1960"	4.98	MR-196
.1968"	5.00	MR-5.0MM
.1980"	5.03	MR-198
.2165"	5.50	MR-5.5MM
.2362"	6.00	MR-6.0MM
.2756"	7.00	MR-7.0MM

Solid Carbide Valve Guide Reamers Specifically Designed For Use Only With Bronze Guides

- Unique flute design for longer tool life
- · New cutting geometry requires less torque to drive the reamer
- · More rigid tool construction.
- Faster feeds than conventional design
- New 4 flute pilot design holds cutting oil in contact with workpiece at all times.
- · Pilot allows easier alignment with bushing.
- · Simply the best valve guide reamer we've created!

Inch	mm	Order No.	Inch	mm	Order No.
.1771"	4.50	HGR-4.5MM	.3140"	7.98	HGR-3140
.1968"	5.00	HGR-5.0MM	.3160"	8.00	HGR-8MM
.2165"	5.50	HGR-5.5MM	.3410"	8.66	HGR-3410
.2362"	6.00	HGR-6MM	.3420"	8.69	HGR-3420
.2598"	6.60	HGR-6.6MM	.3425"	8.70	HGR-3425
.2750"	6.98	HGR-2750	.3430"	8.71	HGR-3430
.2756"	7.00	HGR-7MM	.3435"	8.72	HGR-3435
.2766"	7.03	HGR-2766	.3440"	8.74	HGR-3440
.3110"	7.90	HGR-3110	.3543"	9.00	HGR-9MM
.3115"	7.91	HGR-3115	.3720"	9.45	HGR-3720
.3120"	7.92	HGR-3120			

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.

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
.259"	6.58	WR-259-G
.260"	6.60	WR-260-G
.261	6.63	WR-261-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

5		3
Inch	mm	Order No.
		1/4" Square Drive
.310"	7.87	WR-310-G
.311"	7.90	WR-311-G
.312"	7.92	WR-312-G
.313"	7.95	WR-313-G
.314"	7.98	WR-314-G
.315"	8.00	WR-8MM-G
.316"	8.03	WR-316-G
.317"	8.05	WR-317-G
.318"	8.08	WR-318-G
.327"	8.31	WR-327-G
.328"	8.33	WR-328-G
.334"	8.48	WR-8.5MM-G
.340"	8.64	WR-340-G
.341"	8.66	WR-341-G
.342"	8.69	WR-342-G
.343"	8.71	WR-343-G
.3435"	8.72	WR-3435-G
.344"	8.74	WR-344-G
.345"	8.76	WR-345-G
.346"	8.79	WR-346-G
.353"	8.97	WR-353-G
.354"	9.00	WR-9MM-G
.355"	9.02	WR-355-G

Inch	mm	Order No.
		1/4" Square Drive
.372"	9.45	WR-372-G
.373"	9.47	WR-373-G
.374"	9.50	WR-374-G
.375"	9.52	WR-375-G
.376"	9.55	WR-376-G
.377"	9.58	WR-377-G
.378"	9.60	WR-378-G
.379"	9.63	WR-379-G
.380"	9.65	WR-380-G
.386"	9.80	WR-386-G
.393"	9.98	WR-393-G
.394"	10.00	WR-10MM-G
.395"	10.03	WR-395-G
.404"	10.26	WR-404-G
.405"	10.29	WR-405-G
.433"	11.00	WR-11MM-G
.435"	11.05	WR-435-G
.436"	11.07	WR-436-G
.437"	11.10	WR-437-G
.453"	11.51	WR-453-G
.472"	12.00	WR-12MM-G
.496"	12.60	WR-496-G
.499"	12.67	WR-499-G
.500"	12.70	WR-500-G

speed steel finish reamers exclusively on cast iron. Ream without oil.

no minimum order size 27

WR-356-G

WR-358-G

9.04

9.09

.356" .358" "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

MISCELLANEOUS CRANKSHAFT/
TOOLS & SUPPLIES FLYWHEEL GRINDING

MEASURING TOOLS

	<u> </u>							
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Description					Order No.	Inclu		
Hyper Finish Master K					HF-KIT	_	•	100000
Hyper Finish Custom I		dral accomblise	2)		HF-KIT-CUSTOM HF-100	▼		
Universal Drive Head (Mandrel Assemblies	Size	Range in (mn	·	asive Length	Π Γ-1 00	Х	Х	Hyper-Finish
includes	4.0mm		(3.90 to 4.15mm)	20mm	HFM-154C			Diamond Valve
abrasive	4.5mm		(4.40 to 4.90mm)	20mm	HFM-173C			Guide Sizing
and	5.0mm		(4.90 to 5.15mm)	40mm	HFM-193C			
mandrel	5.5mm		(5.40 to 5.90mm)	40mm	HFM-212C			System
	6.0mm		(5.90 to 6.40mm)	40mm	HFM-232C	y 4		Goodson's exclusive Hyper-
	6.5mm		(6.40 to 6.90mm)	40mm	HFM-251C	au		Finish Diamond Valve Guide
	7.0mm		(6.90 to 7.00mm)	80mm	HFM-271C	Select any 4	X	Sizing System is bigger and
	.312"		(7.80 to 8.80mm)	80mm	HFM-307C	ဟိ	Х	better than ever. With this easy-to-use system you can
	.343"		(8.50 to 9.50mm)	80mm	HFM-344C		X	size guides from .154" to
	.375" 10.0mm		(8.90 to 9.90mm) (9.90 to 10.90mm)	80mm 80mm	HFM-350C HFM-394C		Х	.566" (3.9 to 14.40mm) just
	11.0mm		(10.90 to 12.90mm)	80mm	HFM-429C			by switching out mandrels.
	12.5mm		(12.40 to 14.40mm)	80mm	HFM-488C			Mandrels also sold
Nylon Bristle Valve G			(12110 to 1111011111)	•				individually. The Drive Head
,		1 ¹ / ₄ " x 8" OAL			GVP-8N			(HF-100) fits every size
	5.0mm x	1 ¹ / ₄ " x 8" OAL			GVP-9N			mandrel assembly shown in
		1 ¹ / ₄ " x 8" OAL			GVP-10N	4		the chart below and features
		1 ¹ / ₄ " x 8" OAL			GVP-11N	Select any 4	Х	a Quick Change set-up.
		2" x 12" OAL			GVP-1N	t a	X	Hyper-Finish Tooling is NOT interchangeable
		1/2" x 12" OAL " x 12" OAL			GVP-2N	Sel	X	with Sunnen®
		2" x 12" OAL			GVP-3N GVP-4N		Х	(page 30). 5/16"
		" x 10 ¹ / ₂ " OAL			GVP-5N			round
		/ ₂ " x 10 ¹ / ₂ " OAL			GVP-6N			
Replacement Abrasiv		Range (in	mm)	Length				Driver Head
	4.0mm	.154" to .164"	(3.90 to 4.15mm)	20mm	HFS-154			
	4.5mm		(4.40 to 4.90mm)	20mm	HFS-173			3
	5.0mm		(4.90 to 5.15mm)	40mm	HFS-193			
	5.5mm		(5.40 to 5.90mm)	40mm	HFS-212			Mandrel
	6.0mm		(5.90 to 6.40mm)	40mm	HFS-232			Retaining Nut
	6.5mm 7.0mm		(6.40 to 6.90mm) (6.90 to 7.00mm)	40mm 80mm	HFS-251 HFS-271			The only piece
	.312"		(7.80 to 8.80mm)	80mm	HFS-307			you need to
	.343"		(8.50 to 9.50mm)	80mm	HFS-344			remove to change the
	.375"		(8.90 to 9.90mm)	80mm	HFS-350			mandrel • Use liberal
	10.0mm		(9.90 to 10.90mm)	80mm	HFS-394			amounts of
	11.0mm		(10.90 to 12.90mm)	80mm	HFS-429			DHO
Replacement Mandre	ls Size	Range in (mr	,					718
	4.0mm		(3.90 to 4.15mm)		HFM-154			Mandrale
	4.5mm		(4.40 to 4.90mm)		HFM-173			Mandrel • *
	5.0mm		(4.90 to 5.15mm)		HFM-193			III
	5.5mm 6.0mm		(5.40 to 5.90mm)		HFM-212			III
	6.5mm		(5.90 to 6.40mm) (6.40 to 6.90mm)		HFM-232 HFM-251			Diamond
	7.0mm		(6.90 to 7.00mm)		HFM-271			Diamond Abrasive
	.312"		(7.80 to 8.80mm)		HFM-307			produces 25
	.343"		(8.50 to 9.50mm)		HFM-344			RA finish in soft
	.375"		(8.90 to 9.90mm)		HFM-350			guides and 8-10
	10.0mm		(9.90 to 10.90mm)		HFM-394			RA in hardened
	11.0mm		(10.90 to 12.90mm)		HFM-429			guides
Diamond Honing Oil 8	0Z.	Additiona	al sizes available (see	e page 73)	DHO-8	X	X	

4' Long

Electrical Cord

with 3-prong plug

American Made Perforated steel grate lets oil through

and can be removed for cleaning

Rolled front edge directs splashed coolant back into the sump

Hyper-Finish Guide Honing Station

This Goodson designed honing station incorporates the features you requested in a bench top honing station including:

- 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 allows used coolant through to recirculate
- · Removable steel grate for easy maintenance

¾6" dia. shank •••••

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

Description	JobberOrder No.			
Complete 110V Honing Stat	tion Kit	HF-1000KIT		\blacksquare
Complete 220V Honing Stat	tion Kit (w/o light or box)	HF-1000E-KIT	▼	
Honing Station Only - 110V		HF-1000		X
Honing Station Only - 220V	(w/o light)	HF-1000E	Х	
Universal Head Holders		HH-200	Х	X
Replacement Pump 110V		HF-PUMP		X
Replacement Pump 220V		HF-PUMP-E	Х	
5 Gallons Diamond Honing	Oil	DHO-50	Х	х

1/2" diameter holes (18) and

1" diameter holes (2) drilled

tool storage

in the top plate provide ample

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

· Matches Seat & Guide machine pilots

Description			Shank	Order No.
Cutters	11/16"	High-Speed Steel	.500"	GFH-100
11/16" Carbide			.500"	GFC-200
	11/8"	High-Speed Steel	.486"	GFH-300
3/16" (.187	75")	.312" (7.93mm)		GFP-312
Shank Pi	ilots	.343" (8.73mm)		GFP-343
		.375" (9.53mm)		GFP-375
		.437" (11.11mm)		GFP-437
		.500" (12.70mm)		GFP-500

Pilot Installs Here *** 1" Diameter Carbide **Top Cutter / Spot Facer**

· Long-life, quick-cutting carbide blades

Body · Shorten or face cast-iron valve guides and stud bosses up to 1" / 25.4mm diameter

· Universal drive shank fits all types of power chucks 3/8" or larger

_ pow	ver chucks /8 or large	
Descr	iption	Order No.
Cutter	Body	G-1270
Pilot	.312" (7.93mm)	G-1270A
	.343" (8.73mm)	G-1270B
	.375" (9.53mm)	G-1270C
	.437" (11.11mm)	G-1270D



Cutter

¾" Shank

Cutter

Shank

Pilot

Adjustable hose lets you

you need it

direct coolant to right where

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 Bronze-Wall® guide inserts or thin-wall liners (pages 33-35)

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





"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

Nancy, Goodson Warehouse Manager, 23 years of service



Order No.

P-190

P-180

Valve Guide Hone Set

· Sets-up fast · Easy to use!

from the techxperts

- · 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.)
- Sunnen® tooling is NOT interchangable with Goodson Hyper-Finish (page 28)

Description Sunnen Honall® Valve Guide Hone Set

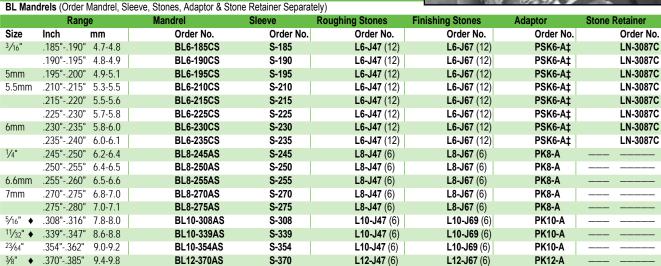
Honing Stone

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

Sunnen Honall® Valve Guide Hone Head & Driver only

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.



◆ 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

S-432



.432"-.447" 11.0-11.4

Minnesota Fast Freeze

 Instantly chills seats & guides to -50°F (-45.5°C) • Creates interference fit with heated aluminum heads • Finish seat and quide work faster than ever • Aerosol*

BL12-432AS

- Use on tight bushings, pins, shafts, etc.
- Order No. MFF-8

*Hazardous Goods Fees Apply When Shipped by Air

Press Fit Lubricants

L12-J47 (6)

- · 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

Description	Order No.
Goodson Aerosol* 6 oz. (170 g)	PFL-200*
Sunnen® Aerosol* 7 oz. (198 g)	B-200*
Sunnen® Brush Applicator 200 mL (not shown)	B-200L

L12-J67 (6)

PK12-A

*Hazardous Goods Fees Apply When Shipped By Air



Wedge (included with

Mandrel)

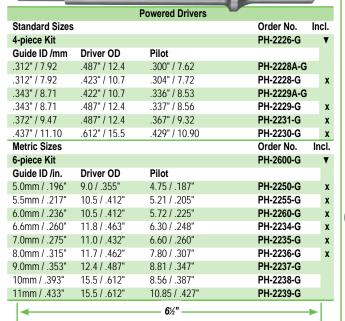
Mandrel

Valve Guide Replacement

Valve Guide Drivers

 Corrosion-resistant finish 1° negative angle prvents 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	X
.312" / 7.92	.487" / 12.4	.302" / 7.67	GP-531-G	X
.343" / 8.71	.422" / 10.7	.336" / 8.53	GP-533-G	
.343" / 8.71	.487" / 12.4	.336" / 8.53	GP-534-G	X
.372" / 9.47	.487" / 12.4	.367" / 9.32	GP-537-G	X
.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	X
7mm / .275"	10.7 / .422"	6.78 / .267"	GP-7MM-G	X
8mm / .315"	12.3 / .486"	7.77 / .306"	GP-8MM-G	х
9mm / .353"	12.3 / .485"	8.84 / .348"	GP-9MM-G	X
10mm / .393"	15.5 / .611"	9.80 / .386"	GP-10MM-G	X
11mm / .433"	15.5 / .611"	10.82 / .426"	GP-11MM-G	X



Delivers 3500 blows per minute

Weighs 3 lbs. .401" tool opening

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

Universal **Driver Tool**

- · Sized to extend Diesel Guide Drivers at right
- 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 / .230"	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 / .313"	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 dimensonal 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

Air-Powered Valve Guide **Drivers for** Diesel Engines

· 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

Remover

	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
Caterpillar 3306	.660" /	DVG-3306	.595" / .354"	DVG-3468R
Caterpillar 3406-3408	.709" /	DVG-3468i	.595" / .354"	DVG-3468R
Caterpillar 3406-3408B	.632" /	DVG-3468Bi	.595" / .354"	DVG-3468R
Detroit GMC 53	.502" / .421"	DVG-53i	.491" / .246"	DVG-53R
Detroit GMC 71/92	.502" / .435"	DVG-71i	.491" / .304"	DVG-71R
International DT 466	.640" / .440"	DVG-466i	.595" / .354"	DVG-3468R
Mack	.675" /	DVG-Mi	.620" / .484"	DVG-MR
Mack 4	.689" / .678"	DVG-M4	.595" / .354"	DVG-3468R

31 iron-clad guarantee

Pneumatic

Driver Body (AVG-1)

full service

Install guides to same height every time!

American Made

Locking Nut (AVG-2) and installation sleeve have flats for positive lock and release adjustment.

Adjustable installation sleeve

(AVG-3) adjusts from 0" to 11/4" guide height and fits guides to .700" OD.

Adjustable
Powered Valve
Guide Driver With
Replaceable Pilots

• 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	e Driver Kit	AVG-STD		▼
	Metric Valve Guide D	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 Pilots	Diameter			
		.312"	AVG-312		X
		.343"	AVG-343		X
		.372"	AVG-372		X
		.437" AVG-437	X		
		5.0mm	AVG-5MM	X	
	5.5mm	AVG-55MM			
	Use thread	6.0mm	AVG-6MM	X	
	locker on pilot to	6.6mm	AVG-66MM		
	resist loosening	7.0mm	AVG-7MM	х	
	while in use.	8.0mm	AVG-8MM	х	
Willie III use.		Q Omm	AVG-9MM		

Cast Iron and Manganese Bronze Valve Guides for Harley-Davidson on page 123

Universal Repair Guides

• Unfinished ID ready to be reamed with Goodson's exclusive carbide reamers (page 27)

· Manganese bronze

· Ivialiy	ariese b	IOIIZE	
ID	OD	Length	Order No.
7.0mm	.740"	2.700"	UVBG-7MM
.308"	.740"	2.700"	UVBG-308
.372"	.740"	2.700"	UVBG-372

Valve Guide OD Machining Tool Does 3 Jobs at Once!

- Face 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 portable drill, drill press or seat & guide machine

In	divid	dual Cu	itters
(Guid	e OD	Order No.
.4	15"	10.5	VSC-415
.4	28"	10.8	VSC-428
.4	75"	12.1	VSC-475
.4	95"	12.6	VSC-495
.5	00"	12.7	VSC-500
.5	30"	13.5	VSC-530
.5	62"	14.3	VSC-562
.6	25"	15.9	VSC-625
п	:1-4-		

Pilots	;	
Guio	le ID	Order No.
9/32"	7.0	VP-7MM
5/16"	7.9	VP-312
11/32"	8.7	VP-343
3/8"	9.5	VP-375



Cutter	and Pi	lot Assen	nblies		
Guid	e OD	Pilot	Size	Order No.	
.415"	10.5	⁵ /16"	7.9	VSC-415312	
.428"	10.9	⁵ ∕16"	7.9	VSC-428312	
.475"	12.1	⁵ /16"	7.9	VSC-475312	
.500"	12.7	⁵ ∕16"	7.9	VSC-500312	
.500"	12.7	11/32"	8.7	VSC-500343	
.500"	12.7	3/8"	9.5	VSC-500375	
.530"	13.5	⁵ ⁄16"	7.9	VSC-530312	
.530"	13.5	11/32"	8.7	VSC-530343	
.530"	13.5	3/8"	9.5	VSC-530375	
.562"	14.3	11/32"	8.7	VSC-562343	
.562"	14.3	3/8"	9.5	VSC-562375	
.625"	15.9	3/8"	9.5	VSC-625375	

Harley valve guides on page 124

Cast Iron False Valve Guides

Univer	Universal Applications						
ID	OD	Length	Order No.				
.312"	.439"	2.281"	CIG-312				
.342"	.502"	3.062"	CIG-342				
.372"	.502"	2.750"	CIG-372				
.343"	.564"	2.750"	OG-343				
.373"	.564"	2.750"	OG-373				

24 Valve 7mm Cummins Diesel (.511" seal surface) see tooling, page 26 ID OD Order No. Length Intake .275 .502 1.940" CIG-3021 Exhaust .275 .502" 2.020" CIG-3022 Ford 6.0L (.513" x 659" seal surface) see tooling, page 26 CIG-3055 .275 .4395" 2.332" 7.3 Powerstroke Use with Core Drill Reamer CDR-563-CB, page 26 2.440" CIG-8476

Manganese Bronze False Valve Guides &



American Made

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 Quar	t Knurlube (946.6mL)	WLB-47-G

tech tips Use with Knurlube

NOTE: We don't stock knurling arbors smaller than 6mm because smaller guides are chilled and these arbors may fail.

Electric Drill Drive Adaptors For Knurling Arbors and/or Reamers



Use WSR-41-3-G (1/4" sq.) or WSR-41-4-G (3/16" sq.) with 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

Bronze Reaming Oil



 High pressure lube prevents tool damage

Knurlube

· Extends knurler life by reducing friction and arbor

Size	Order No.
8 oz. / 236.6mL	WLB-46-G
32 oz. / 946.4mL	WLB-47-G

- · Prevents build-up
- Extends reamer life

 Improves valve guide finish 		
Size	Order No.	
16 oz. / 473.2mL	BW-303-G	
32 oz. / 946.4mL	BW-303A-G	
1 Cal / 1 0021	DW 20E C	

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 quide 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".

Bronze-Wall® Bushings

- · Spiral inserts rebuild cast-iron guides worn .030"
- Highly durable Phosphor-Bronze
- Thread easily into tapped bore
- · Helps guides and stems last longer
- .038" wire for reamed guides

Size	Qty.	Order No.
Stand	ard Bushings	
11/32"	50	BW-020B-G
3/8"	50	BW-050B-G

Bronze bushings thread easily into tapped bores. Replace guides at any time by simply uncoiling the old ones.

Bronze-Wall 2 Bushings

- · Spiral inserts rebuild cast-iron guides worn .030"
- Highly durable Phosphor-Bronze
- Thread easily into tapped bore
- · Helps guides and stems last longer
- .035" wire for broached guides
- · Easy to install and size using Sizing Ball and Driver instead of Broach and Reamer

Size	Qty.	Order No.
Standard	Bushings	
5/ ₁₆ "	50	BW2B-312
11/32"	50	BW2B-343
¾"	50	BW2B-375

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 Valve Guide Soft Hones

- · Use AFTER guide honing to remove microscopic peaks and cuffs without enlarging the guide ID
- Abrasive impregnated nylon bristles
- · Use liberal amounts of honing oil for best results

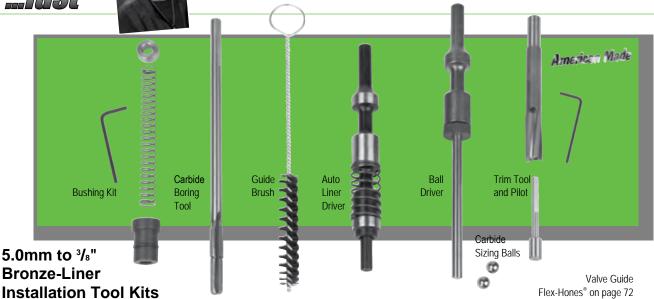
Hole D	iameter	Hone	Head	Overall	
in	mm	Dia.	Length	Length	Order No.
.2187"	5.5	.241"	1.00"	4.00"	UF-5.5MM
.2500"	6.4	.275"	1.25"	4.50"	UF-6.4MM
.2813"	7.0	.309"	1.25"	4.50"	UF-7MM
.3125"	8.0	.343"	1.25"	4.50"	UF-8MM
.3437"	9.0	.378"	1.25"	4.50"	UF-9MM
.3750"	10.0	.413"	1.25"	4.50"	UF-10MM
.4375"	11.0	.481"	1.25"	4.50"	UF-11MM
.4688"	12.0	.516"	1.25"	4.50"	UF-12MM
.5000"	13.0	.550"	1.50"	5.00"	UF-13MM
.5625"	14.0	.618"	1.50"	5.00"	UF-14MM
.6250"	16.0	.688"	1.50"	5.00"	UF-16MM
.6875"	17.5	.756"	1.50"	5.00"	UF-17.5MM
.7500"	19.0	.825"	1.50"	5.00"	UF-19MM
.8125"	20.5	.893"	1.50"	6.00"	UF-20.5MM

NOTE: Larger size Ultra-Finish hones on page 81

full service

"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."

- Pam, Goodson Accounting, 16 years of service



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 guickly 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 35.

Kits include ▼	5.0mm Guides*	5.5mm Guides*	6.0mm Guides	7.0mm Guides
Master Tool Kits	CL-5MM	CL-5.5MM	CL-6MM	CL-7MM
Carbide Boring Tool	CL-2028C	CL-2026C	CL-2024C	CL-2007C
Bushing Kit	CL-2004	CL-2002	CL-2003	CL-2001
Ball Driver	CL-4454P	CL-4452P	CL-4452P	CL-4446P
Carbide Sizing	.1965" CL-51965	.2175" CL-52175	.2370" CL-5237	.2770" CL-5277
Balls	.1970" CL-5197	.2180" CL-5218	.2380" CL-5238	.2780" CL-5278
Auto-Driver	CL-3610	CL-3600	CL-3600	CL-3507
Trim Tool	.402" OD CL-5602	.402" OD CL-5602	.402" OD CL-5602	.500" OD CL-5600
Trim Tool Pilot	CL-5636	CL-5634	CL-5634	CL-5626
Guide Brush	GVP-9N	GVP-10N	GVP-10N	WCB-44

^{* 5.0}mm and 5.5mm guides require our tooling, see page 35 for tech tip

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

Kits include ▼	5/16" Guides	8.0mm Guides	11/32" Guides	3/8" Guides
Master Tool Kits	CL-312	CL-8MM	CL-343	CL-375
Carbide Boring Tool	CL-2005C	CL-2008C	CL-2012C	CL-2014C
Bushing Kit	CL-2000	CL-2000	CL-2000	CL-2000
Ball Driver	CL-4444P	CL-4444P	CL-4444P	CL-4444P
Carbide Sizing	.3125" CL-53125	.3160" CL-5316	.3440" CL-5344	.3750" CL-5375
Balls	.3130" CL-5313	.3170" CL-5317	.3445" CL-53445	.3760" CL-5376
Auto-Driver	CL-3500	CL-3500	CL-3504	CL-3506
Trim Tool	.500" OD CL-5600	.500" OD CL-5600	.500" OD CL-5600	.500" OD CL-5600
Trim Tool Pilot	CL-5620	CL-5620	CL-5622	CL-5624
Guide Brush	WCB-44	WCB-44	WCB-44	WCB-44





so using the correct size is essential. 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.

Stripe helps you quickly identify

the round nose end

makes installation

fast and easy

Rounded nose design

CL-5870

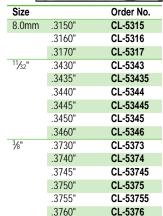
Bronze-Liners & Tooling



- · Within the 90 Rockwell range
- · The finished ID of the Bronze-Liner will be .001" smaller than the ball used

Size		Order No.
5.0mm	.1960"	CL-5196
	.1965"	CL-51965
	.1970"	CL-5197
5.5mm	.2165"	CL-52165
	.2175"	CL-52175
	.2180"	CL-5218
6.0mm	.2360"	CL-5236
	.2370"	CL-5237
	.2380"	CL-5238
7.0mm	.2760"	CL-5276
	.2770"	CL-5277
	.2780"	CL-5278
⁵ ⁄16"	.3120"	CL-5312
	.3125"	CL-53125
	.3130"	CL-5313
	.3140"	CL-5314

	The state of the s	AUG
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



are easy to replace Thin-Wall .030" **Bronze-Liners**

Phosphor-

liners outlast

original guides and

Bronze

- · Outlast original guides
- · Cross-hatch 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 competitors' guides. You MUST use our tooling with these guides.

		9		
	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 Bronze Liners				
.343" +.002"	+.032"	3.00"	CL-1640-2	CL-1640-2A
.375" +.002"	+.032"	2.50"	CL-1820-2	CL-1820-2A

Removal Tool

Remove bronze liners without damaging the bore

Description	Order No.
5.0mm	CL-7356
5.5mm	CL-7354
6.0mm	CL-7352
7.0mm	CL-7344
5/16"	CL-7310
8.0mm	CL-7320
11/32"	CL-7330
%"	CL-7340

Universal **Driver Tool**

· Fits all removal tools at left and is designed to work with your air hammer

• .401" ID

Mitutoyo

• Order No. CL-7333

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**

- · Dial gauge with large contact area
- Measures quickly & accurately to .0001" (.0025mm)
- · Works in threaded or knurled guide IDs
- Range: .280"-.400"
- Easy to change contacts
- · Includes molded plastic storage case
- Order No. MVG-34

Small Hole Gauge Set · See if rebuilding or

- replacing is needed by checking actual guide wear of
- 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-5





"We want every aspect of your transaction to be trouble-free. That's why we strive to keep everything as simple for you as possible. We're always looking for new ways to serve you better and we welcome your ideas for how to do that.'

- Renee, Goodson Accounting, 26 years 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	VSP-323-3
Replacement Jaw Sleeve	VSP-323-1
Black Split Sleeve	VSP-323-2

Parts are interchangeable with VSP-320







- head while the jaw assembly goes into the spring cavity
- Can be used straight or at any angle up to 90°
- · Jaw tip includes thin wedge for "hooking" underneath stubborn valve stem seals
- 4 vertical raised ridges on inner jaw diameter help grip the outside diameter of the seal
- Order No. VSP-629

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)

Universal Seal Pliers

- · 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



Aluminum Seal Drivers

- · Seal drivers are designed to fit over valve stem and drive seals squarely on top of valve guide
- · A must-have tool for installing valve seals

Seal Size	Order No.
6.0mm	VSD-6MM
7.0mm	VSD-7MM
.312"	VSD-312
.343"	VSD-343
.375"	VSD-375



Calibrated Spring

- Check Spring Tester Accuracy
- Highest-quality spring steel
- Calibrated to show pressure at a specified compressed height (includes calibration certificate)
- Rating: Min. = 100 lbs. Max. = 285 lbs.
- · 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 121)
- Order No. VST-25



Valve Spring Testing



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 ¾" 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 5/6" mounting holes to bolt it to the bench
- Order No. VST-60G

TECHNICAL SPECS:

UNIT WEIGHT: 191/2 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

one side and

millimeters on

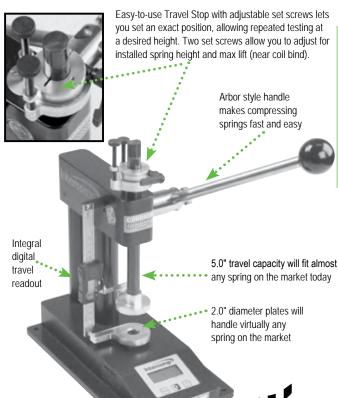
inches on

the other

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









Protect Your Valuable Valve Spring Tester with this Cover!

- 10"x14"x18"• Same cover fits either **Spring Tester**
- · Heavy-weight, breathable black Sundura® fabric won't hold in moisture
- Order No. GMC-VST
- More Machine Covers on page 23.

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



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



Speed Knobs: Allows quick positioning of workpiece



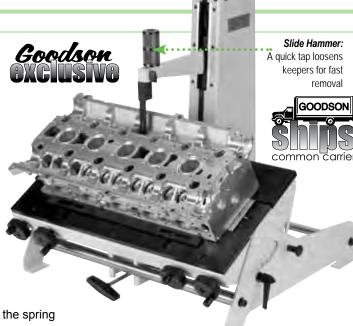
Head Support: Table adjusts 45° to the front and 30° to the rear



Positive Stops: Adjusts front and rear angles



Quick Release Knob: Allows fast positioning to opposite cam bank



Pneumatic Valve Spring Press

- Pneumatic valve support holds valve closed as you compress the spring
- Adjustable stainless steel plate won't damage the head

Foot Pedal:

operation

Easy, hands-free

- 28mm Valve Spring Adaptor (CF-502) is standard with unit (other sizes are available)
- · Ideal for use on heads with recessed springs · For aluminum and cast iron heads
- Ships fully assembled Replacement Parts Available Measures 28"L x 24"W x 26"H
- Order No. PSB-5000



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

Description	Order No.	
Valve Spring Compressor	CF-2002	
Replacement Parts and Accessories		
Valve Spring Adaptor Jaw	CF-44	
¹ / ₄ " Green Air Line (lin. ft.)	CF-2001-AL	
Air Control Needle Valve	CF-2001-NV	
Int. / Ex. Button	CF-2003-C	
¼" NPT L-Fitting	CF-2003-BCE	
Air Cylinder 2" Travel	CF-2001-AC	
⅓" NPT L-Fitting	CF-2003-L	

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

Description	Order No.
Valve Spring Compressor	CF-2008
Replacement Parts and Accessories	s
Valve Spring Adaptor Jaw	CF-44
1/4" Green Air Line (lin. ft.)	CF-2001-AL
Air Control Needle Valve	CF-2001-NV
Int. / Ex. Button	CF-2003-C
1/4" NPT L-Fitting	CF-2003-BCF
Air Cylinder 2" Travel	CF-2001-AC
⅓" NPT L-Fitting	CF-2003-L

Compressor

- · Develops up to 325 lbs. of force with 130 PSI
- · Operates on as little as 90 PSI
- Handles springs from ³/₄" to 1³/₄" diameter
- Includes adjustable jaws (CF-44)
- 4" cylinder travel Steel frame
- · Stainless steel cylinder with viton grade seals
- Fingertip controls
- Full 1 years warranty

Description	Order No.
Valve Spring Compressor	CF-2004
Replacement Parts and Accessorie	s
Valve Spring Adaptor Jaw	CF-44
1/4" Green Air Line (lin. ft.)	CF-2001-AL
Air Control Needle Valve	CF-2001-NV
Intake and Exhaust Button	CF-2003-C
1/4" NPT L-Fitting	CF-2003-BCE
Air Cylinder 4" Travel	CF-2003-AC
1/8" NPT L -Fitting	CF-2003-L

Valve Spring Compressors



Speed Up Valve Spring Replacement With The Manual Valve Spring Bench

- · Remove and install valve springs on heads with recessed springs
- 26"L x 22"W x 35"H footprint and weighs 31 lbs.
- Includes 28mm dia. spring adaptor (CF-502), other size spring adaptors also available (see chart below)
- · Locking collar can be used to stop vertical travel or to keep the spring compressed while assembling keepers
- 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

Keeper Tools on p. 40-41



Lock Collar: Can be used to stop vertical travel or to hold spring compressed while assembling keepers



Adjustable Frame: Adjustable to 25° in either direction for canted valves



Locking Arm: Holds the C-frame securely in position at the desired angle



Head Support: Adjustable from 0-45° and locks in place



Dowel Pins: Keeps the workpiece in place at any head support angle



Slide Hammer: A guick tap releases keepers that are stuck in retainers

Spring Adaptors for Valve **Spring Benches**

- Fit both manual (CF-500) and pneumatic (PSB-5000) spring benches
- 1/2" pin diameter
- Solid steel construction with nylon wear insert
- Nvlon insert is replaceable

Descr	iption Reac	Adaptor	Insert
18mm	4½"	CF-518	CF-518-1
23mm	4½"	CF-501	CF-501-1
28mm	3½"	CF-502	CF-502-1
35mm	2½"	CF-503	insert not required

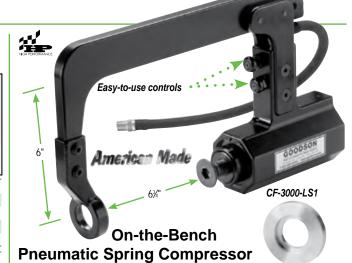


Valve Spring Adaptor Jaws

· Fit frames with double locking screws to secure jaws such as Goodson CF-2002, CF-2004, CF-2008 and CF-140 • Heavy duty jaws are non-adjustable (Has a 15/8"

max spring diameter)

Description	Order No.
Standard Duty 1.000"-1.875" (25.4-47.6mm) Range	CF-44
Heavy Duty (non-adjustable)	CF-44HD



- · Handles springs up to 1500 lbs. at 90 PSI!
- Standard heavy-duty jaw fits springs up to 1.600" diameter
- Optional jaw fits springs to 1.740" diameter
- Features a dual stage cylinder that produces more force each time the control is pressed

Guaranteed to a maximum of 90 nsi/620 5 kPa pressure

Guaranteed to a maximum of 30 psi/020	.o kra pressure
Description	Order No
Hi-Perf. Spring Compressor with 1.600" ID Jaw	CF-3000B
Replacement Standard Jaw, 1.600" ID	CF-3002
Adaptor Jaw, 1.740"/44.2mm ID	CF-3003
LS1 Series Jaw Adaptor (1.750 OD) use with CF-3003	CF-3000-LS1
Rebuild Seal Kit (includes Intake Button Return Spring)	CF-3000SK
Replacement Intake Button Return Spring	CF-3004
Intake Trigger Assembly	CF-20004A
Exhaust Trigger Assembly	CF-20004B

iron-clad guarantee 39

V-IWIN & MEIKIN

full service

"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 – anywhere in the world."

- Kim, Goodson Customer Service Manager, 35 yrs. of service



Manual Valve Spring Compressor

- · Weighs only 6 lbs
- High leverage allows for easy, one-hand operation
- Covers a range from 10" high to 8" deep
- Works with most L-head and valve-in-head engines
- Fits truck & tractor engines
- Jaws adjust for small, medium and large springs

ululli allu laige sp	nings
Description	Order No
Spring	CF-140
Compressor	
Replacement	CF-44
Jaw Set	
HD Replacement	CF-44HD
Jaw Set	



Manual Valve Spring Compressor

- Compress only the spring for fast and easy keeper removal
- Fully adjustable steel jaws have maximum opening of 2½" (63.5mm)
- For springs ½" (12.7mm) to 1½" (28.6mm) in diameter
- Cadmium finished spring steel construction

Best Keeper Tool

on the Market!

· Order No. CF-131

Manual Valve Spring Compressor For Small Engines

- Steel construction
- 20# 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 ¾" (22.2mm) and large, for springs up to 1½" 27.0mm)
- Order No. CF-600



Manual Valve Spring Compressors

- 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

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. 39) and PSB-5000 (p. 38)

Order No.
VKI-4
VKI-5
VKI-6
VKI-7
VKI-8
VKI-56

Valve Spring Compressor Adaptor

- · Fit 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 (mm)	Reach (mm)	Order No.
3/4" (19.1)	3¾" (95.3)	CF-6
¹³ /16" (20.6)	3¾" (95.3)	CF-8
1" (25.4)	3¾" (95.3)	CF-10
11/4" (31.7)	3¾" (95.3)	CF-12
1½" (38.1)	3¾" (95.3)	CF-15



Small OHV Engine Keeper Removal &

Installation Tool

• Easy to use Uses your own body weight as leverage

Keeper Magnet

Works with 3.5mm to 5.5mm single groove valves only

 Complete set includes a remover with powerful magnet to hold the keepers in place after removal, universal installer and two non-slip valve chamber pads

and two non one valve chamber page	
Description	Order No.
Keeper Removal Installation Tool	VKI-35
Keeper Magnet - 6%" holder with .170" dia. Earth magnets	VKM-17

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** (p. 39)



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

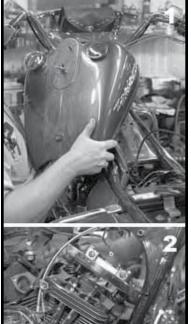
Valve Spring Compressors

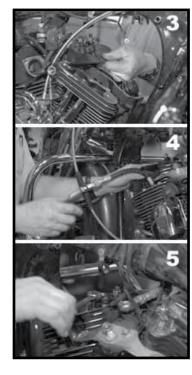
V-Twin On-the-Engine Valve Spring Compressor

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**

Visit the Goodson Blog for more information on using the On-The-Engine Spring Compressor









Standard Valve Spring Adaptors

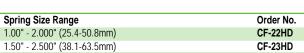
- · For threaded shaft spring compressors
- · Thumb screw adjustment
- · Single locking screw secures jaw to frame

Adjustment Range	Order No.
.875" - 1.875" (22.2-47.6mm)	CF-21A-G
1.00" - 2.000" (25.4-50.8mm)	CF-22C-G
1.50" - 2.500" (38.1-63.5mm)	CF-23-G
Replacement Thumb Screw	CF-700-2-G

CF-22HD

Heavy Duty Valve Spring Adaptors

 Heavy duty jaws are not adjustable



Pneumatic Valve Spring

Compressor Rebuild Kit

- For pneumatic spring compressors with threaded shaft such as Plews, Clark Feather, etc.
- · Includes seals, valves, springs and o-rings
- Order No. CF-700-RK



ı	Reeper 100is	
	Description	Order No.
	Keeper Tool	CF-842
	Keeper Magnet – 65/6" holder .170" dia. earth magnet	VKM-17
ı	Keeper-Keeper – PVC ¼" holes keep keepers in	VK-15

same day shipping 41

CF-23HD



"Our staff of ASE-Certified Techxperts® can help you solve problems fast! Call with questions about product applications, machining precision, longer tool life, improving efficiency, cost savings or any other technical topic. We're here to help you!"

- Erik, Goodson Tech Support Manager, 18 years of service



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

These mandrels are available in two diameters – $\frac{3}{4}$ " 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 127) 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 10



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

_		
S		Fipped Cutte bilots below)
	OD	ID
4	1.320"	.630"
	1.350"	.625"
	1.500"	.625"
	1.550"	.625"
	1.625"	.625"
₹	1.680"	.750"
	1.750"	.625"

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

Carbide Tipped Cutter Bodies

	(430 11	photo bolott)	
	OD	ID	Order No.
	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
i			

Hardened & Ground Pilots					
Guide I	D	Order No.			
9/32"	7.0	VP-7MM			
⁵ ⁄16"	7.9	VP-312			
11/32"	8.7	VP-343			
3/8"	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

Diai indicator t	o cned	ck valv	re up neigr	π		
Description				Order No.	Inc	:l.
Valve Stem Height G	auge Kit	w/Stand	t	VSH-KIT		•
Valve Stem Height G	auge Kit			VSH-200	▼	
Dial Indicator (2" trave	el, .001" (graduatio	ons)	MDI-2	Х	X
Dial Indicator (1" trave	el, .001" (graduatio	ons)	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		X
	1.060"	.812"	2.840"	VSH-201	Х	X
	1.250"	1.090"	3.300"	VSH-202	х	X
Tool Stand				TS-5		X
1" Checking Standard	d			MCS-1		

More dial indicators on page 121

Non-Serrated Valve Spring Booster Shims

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

	Size	50 count	High Perforn	nance		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	
1.437"	0.785"	A-305-HP	B-305-HP	C-305-HP			
1.438"	0.645"	A-306-HP	B-306-HP	C-306-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 vou

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

iiit tile wasile	1 01 311	iiii c asiiy		
Description			Order No.	Incl.
Magnetic Remover	Set		MWR-SET	•
Washer Removers	ID	OD		
	0.250"	0.625"	MWR-14	X
	0.500"	0.865"	MWR-12	X
	0.450"	0.812"	MWR-716	X
Shim Remover	0.708"	1.355"	MVSR-2	X

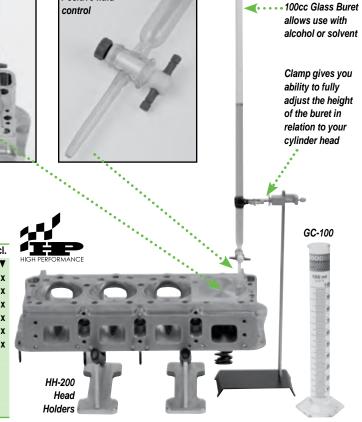


Cylinder Head CC-ing Equipment

- · 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	•
100cc Glass Buret	CCB-100	X
5" x 5" x 3/8" 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	_ X
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	



Positive fluid

- Richard, Goodson Customer Service - 19 years of service

resharpening available

full service



PCD Inserts for Aluminum

- A must for shops committed to meeting today's strict surface finish requirements
- Fits machines with %" and ½" CBN holder
- ½" diameter inserts require shim (included)
- Use with Resurfacing Spray (HPS-16) for best results (see page 45)

Diameter	Thickness	Sided	Order No.
3/8" (9.53mm)	¹ /8"	Single	PCDS-375
½" (9.53mm)	¹ /8"	Single	2379264
½" (12.7mm)	³ /16"	Single	PCDS-500
½" (12.7mm)	³ /16"	Single	2379265
½" (12.7mm)	³ /16"	Single w/screw hole	2X6145

CBN Cutter Inserts For Cast Iron

Faster and cleaner than segments and wheels

Titani	um-Nitri	de Coated	Goodson	Uncoated Radiac
Dia.	Thick.	Sided	Order No.	Order No.
%"	1⁄8"	Double	CBN-375D	
	1/8"	Single	CBN-375S	2X5346
	³ / ₁₆ "	Double		2359232
1/2"	1/8"	Single		2X5357
	1∕8"	Double	CBN-500D*	2X5299
	3/16"	Single	CBN-500S	2359233
	3/16"	Solid		2359234
	3/16"	Single Sided with S	crew Hole	2X6144
	³∕16"	Special Edge Prep	for Diesel	2379268

Sharp Uncoated						
¾"	1/8"	Single	CBNS-38			
1/2"	3∕16"	Single	CBNS-12			
¹ / ₁₆ " Thick Carbide Shim*		CBN-500SHIM				
*Shim	roquire	od on DCM machine				

CBN Resharpening Service available

Send your CBNs to Goodson to have them sharpened

Description	Order No.
Single Sided CBN Resharpening	RESHARP-CBNS
Double Sided CBN Resharpening	RESHARP-CBND

Enlarged for clarity available

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
- .500" (12.7mm) diameter .125" (3.2mm) thick
- Order No. DRD-500

*NOTE: A 1/6" thick carbide shim must be used with DRD-500 on DCM machines
• Order No. CBN-500SHIM



2-Way Resurfacing Set-up Level

- Top-quality CNC machined T-6 aluminum frame with hardened & ground tool-steel contact pads
- Level both directions at once Includes 6" precision vials (LEV-8-1) Weighs just 2 lbs.
- Order No. LEV-TR



Precision Levels and 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"

н	i ito piloto il oli il to i io:		198
	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
ı	12" Level (8" vial - nominal)	I FV-12	I FV-12-1

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



VGL-100

(pilot sold

separately)

Cylinder Head Resurfacing

Selection Guide: which abrasive works best on what materials.. Ceramic (40g) Nor-Zon® (40g) Zirconia Alumina (40g) Silicon-Carbide (40g) Silicon-Carbide (80g) Abrasive Bond Backing

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.

To check which size belt is needed to fit your machine, see the groups of resurfacers listed below.

Silicon-Carbide 40-grit:

- · Good-quality · Black
- · Primarily for cast iron but can resurface aluminum if extra care
- Down-pressure optional
- SGS-14-86-60 is a 60 grit belt

GOODSO

SGB-10

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

Silicon-Carbide 80-grit:

- · Good-quality · Black
- · Designed especially to resurface aluminum
- · Down-pressure not recommended

Ceramic 40-grit:

- · Best-quality · Maroon
- · Perfectly uniform grain
- · Outlasts other types of belts
- · For cast iron or steel
- Down-pressure recommended

Nor-Zon® 40-grit:

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

Zirconia Alumina 40-grit:

· Better-quality

Backing: Waterproof, poly-back belt

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

backing of any resurfacing belt.

- · Excels on severe applications
- · Grains fracture under pressure to stay sharp
- For stainless steel. alloy and aluminum
- · Blue/Green

		g				
Belt Size	Machine	Order No.	Order No.	Order No.	Order No.	Order No.
10" x 103"						SGZ-10-103
11%" x 76"	(A)	SGS-11-76	SGA-11-76		SGB-11-76	SGZ-11-76
11¾" x 79"	(B)	SGS-11-79	SGA-11-79		SGB-11-79	SGZ-11-79
11%" x 89"	(C)	SGS-11-89	SGA-11-89		SGB-11-89	SGZ-11-89
11%" x 91"	(D)	SGS-11-91	SGA-11-91			
14" x 86"	(E)	SGS-14-86-60*	SGA-14-86			SGZ-14-86
14" x 103"	(F)	SGS-14-103	SGA-14-103		SGB-14-103	SGZ-14-103
14" x 107½	" (G)	SGS-14-107	SGA-14-107		SGB-14-107	SGZ-14-107
14" x 113½	(H)	SGS-14-113	SGA-14-113	SCB-14-113	SGB-14-113	SGZ-14-113
15" x 1271/2	ź" (I)	SGS-15-127	SGA-15-127	SCB-15-127	SGB-15-127	SGZ-15-127

A) Winona Van Norman BG-600 B) RMC, Peterson RG-1203 C) RMC-800, Sery-Equip PG-1229 D) Peterson RG-1234 & Kansas Instruments Craftsman F) Master Tool G) Kwik-Way 870 Master Surfacer H) Storm Vulcan / Anderson AB-1000A, Peterson PG-1400 I) Storm Vulcan / Anderson AB-1540A, Anderson AB-1540, IDL HS-4350, Peterson PG-1500, Winona Van Norman BR-1500, BG-1515 & BG-1520

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

Belt Resurfacer Coolant

- Semi-synthetic
- Rust-inhibiting
- For ALL belt resurfacers with a coolant sump
- · Dilute 30 parts water:1 part coolant

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

High **Performance** Resurfacing Spray

- · Prolongs cutter life
- Enhances surface finish
- Refreshing scent
- Aerosol*
- Order No. HPS-16

* Hazardous Goods Fees Apply When Shipped By Air



- · Tool Bits sold individually
- Order No. VN-65C

Enlarged for clarity

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

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



45

Silicon-Carbide Abrasive

Aluminum Oxide &

Silicon-Carbide

Abrasive



"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 Database Manager - 33 years of service



4 Keys to Refurfacing Aluminum Heads

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

Aluminum Oxide Abrasive

Aluminum

Abrasive

Oxide

Width Thickness Length Application Abrasive Color Order No. 2.56"/65mm 0.98"/25mm 3.94"/100mm Cast Iron & Aluminum Silicon-Carbide Black GS-PBS Steel & Hardened Metals Aluminum Oxide White GS-PBS-1 Aluminum, Cast Iron, Aluminum Oxide Speckled GS-PBS-2 Hardened Iron & Steel and Silicon-Carbide Steel & Hardened 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 Vulcan RT7Y Late (Serial No. 103152 and up) and RT 17Y Late (Serial No. 128697 and up) models.
Steel & Hardened Metals Aluminum Oxide White GS-PBS-1 Aluminum, Cast Iron, Aluminum Oxide Speckled GS-PBS-2 Hardened Iron & Steel and Silicon-Carbide Steel & Hardened 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.
Aluminum, Cast Iron, Aluminum Oxide Speckled GS-PBS-2 Hardened Iron & Steel and Silicon-Carbide Steel & Hardened 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.
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For Winona Van Norman SM-2000, SM-4000/5000, MG-4000, SM-6000C/6000A and MG-3000/3850 models.
For Storm Vulcan RT7Y Late (Serial No. 103152 and up) and RT 17Y Late (Serial No. 128697 and up) models.
3.13"/79mm 0.81"/21mm 3.13"/79mm Cast Iron & Aluminum Silicon-Carbide Black GS-SVS
Aluminum, Cast Iron, Aluminum-Oxide Speckled GS-SVS-2
Hardened Iron & Steel and Silicon-Carbide
Steel & Hardened Metals Aluminum Oxide Ruby GS-SVS-3
For Peterson/Peterson Berco RG-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/Peterson Berco RG-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
Hardened Iron & Steel and Silicon-Carbide

For Kwik-Way 858 and 862 models



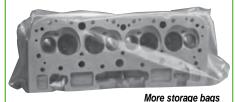
To maintain proper cutting action Goodson strongly recommends that you replace your cylinder head resurfacing segments in full sets. See your user's manual for wheel diameter and number of segments required. Due to manufacturing process colors may vary.

Need help choosing the abrasive? Call the Goodson Techxperts $^{\!\scriptscriptstyle\mathsf{TM}}$

Resurfacing Segments are guaranteed for 1 year from original purchase date

Grind Aid

- · Cools and lubricates
- Stops premature grain fracturing
- Improves surface finish
- Handy twist tube with cover
- Reduces glazing and loading
- Essential when resurfacing aluminum heads
- Order No. GRA-10



on page 69

Cylinder Head Storage Bags

- 3 mil thickness
- 17"x44" / 43.2 cm x 111.8cm
- 100 per roll
- Order No. BC-17

Rust Shield Aerosol*

- Choose between short and long term protection
- Spray on right after resurfacing
- Remove short term with soap & water and long term with solvent

Formula	Order No.
Short Term	RS-16
Long Term	RS-16-OD



Cylinder Head Resurfacing

adiac

The most complete resurfacing 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.



 Water soluble Non-foaming • Dilute 20:1

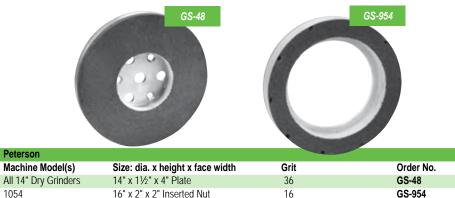
Size	Order No.
1 Gallon / 3.78 L	SGC-10
5 Gallons / 18.93 L	SGC-50

Blanchard Cylinders

- · 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

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





Kwik-Way			
Machine Model(s)	Size: dia. x height x face width	Grit	Order No.
545,545H,855	12" x 3" x 11/2" (Serrated) Plate	16	GS-545
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
860A, L & T	16" x 3" x 11/2" (Serrated) Plate	36	U422304

Grinding Wheels are guaranteed for 1 year from original purchase date

FG-1045-G















Grinding Wheel Dressers & Replacement Cutters

Diamond Dresser Tools are available on pages 106-107

Cutter Assemblies			Replacement Cutters						
Applications	OD	W	Order No.	Pieces	Washers	OD	ID	Thick	Order No.
VN, Lempco, Storm RT-7Y, 17Y	2.500"	1.625"	GS-10	14 stars	1 w/locking tangs	2.50"	1.50"	.062"	GS-14
Peterson (12mm shaft)	2.375"	1.625"	GS-17A	8 stars	5	2.375"	1.50"	.093"	
					1 w/locking tangs	1.75"	1.50"	.060"	GS-17
WVN SM2000, 4000, 5000,	1.250"	.978"	FG-1165-G	7 stars	none	1.25"	.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	1.50"	.313"	.625"	FG-1044-G

47 iron-clad guarantee



Goodson

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

- Bev, Goodson Accounting/Purchasing Manager - 35 years of service

Pistol Grip Vacuum Tester

- Lightweight only 1.9 lbs. without the plate
- · Pulls and holds up to 24 PSI vacuum on as little as 90 PSI
- Quick coupling Robinair fittings
- · Easy to reach controls for single-handed operation
- Hard-anodized billet aluminum

1	Tester includes one 4.75" vacuum plate				
	Description	Order No.			
	Pistol Grip Vacuum Tester Kit with 4.75" Vacuum Plate	DVC-2011			
	Optional Vacuum Plates		Incl.		
	Robinaire Fitting Replacement Plate Set	DVC-7KIT	•		
	2.00" (50.8mm dia.)	DVC-2	X		
	3.00" (76.2mm dia.)	DVC-3	X		
	4.75" (120.7mm dia.)	DVC-475	X		
	6.00" (152.4mm dia.)	DVC-6	X		
	2"x3" (50.8x76.2mm)	DVC-23	X		
	3"x4" (76.2x101.6mm)	DVC-34	X		
١	Plate Lube 8 oz. (236.6 mL)	DVC-PL	X		
l	Parts & Accessories				
	Pressure Gauge	DVC-GAUGE			
	Flexible Hose Kit w/3' Air Line (optional)	DVC-2011-HK	•		
	1/8" NPT "L" Fitting	CF-2003-L	X		
	⅓" NPT Female Coupling	LDP-AR-6	X		
	Inline Air Filter	DVC-FILTER	X		
	¼" x ¼" Straight Fitting	DVC-SF	X		
	Nipple Coupling	DVC-1N	X		
	Air Line	CF-2001-AL	X		
	Robinair Fitting	DVC-SN			
	1/8" NPT Male Coupling	DVC-1M			



oops

Replacement **Vacuum Tester Plates** for Sioux™ 1630K

- · Closed cell foam for an exceptional seal
- · Replacement foam also available separately
- · Several sizes to choose from or ask for a custom size
- · Plate lube improves the seal for even better vacuum holding power

notating power		
Sioux-Style Replacement P	lates for the 1630K Tester	
Size	OE No.	Order No.
2.00" (50.8mm dia.)	1630-2	SVT-2
3.00" (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
3"x4" (76.2 x 101.6mm)		SVT-34
Replacement Sioux-Style Fit	ting	DVC-SX
Accessories & Replacemen	nt Parts	
Description		Order No.
6 Pc. Replacement Foam Se	et - 1 of each size	FOAM-KIT
Plate Lube - 8 oz. (236.6 mL)	DVC-PL
Replacement Line Filter		DVC-FILTER
Replacement Mat - 11" x 31'	' х ¾"	DVC-1131

Heavy Duty Manual Vacuum Tester

- · A steady reading of 25" (63.5cm) indicates proper valve seating
- All metal construction
- 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 lbs. HG on the vacuum gauge and a closed cell foam test plate with a through fitting to draw down or evacuate the combustion chamber.

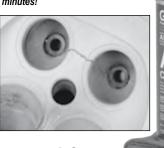
Once you've reached 24 lbs. HG on the gauge and close the vacuum to the chamber. Watch the gauge for a drop in vacuum. It should hold steady confirming that you have achieved valve to seat mating.

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.

glow brightly when viewed under the black light (Applies only to Goodson Glow).

Dye Penetrant Crack Detection

Identify surface cracks in minutes!

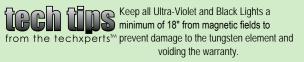


Alumni-Chek

 Find surface cracks on aluminum & cast iron 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. Inc	I.
Complete Kit	AC-KIT*	▼
Cleaner Aerosol	AC-1*	X
Penetrant Aerosol	AC-2*	X
Developer Aerosol	AC-3*	X
5 Towels	WST-5	X







Ultra-Violet Light Inspection

- · Put into a running engine to find hidden leaks
- Check engines, transmissions and radiators IN the vehicle
- · Use before disassembly to plan repairs
- · Use after rebuilding to ensure satisfaction, or to find and fix warranty complaints
- · Add dye to oil, coolant or fluid · No pre-cleaning required
- Run vehicle briefly to distribute the dye Inspect with UV light • Finds even the tiniest of leaks

Description		Order No.
Replacement	120W-110VAC bulb only (Model 1210)	GLO-120WB
Bulbs		
Lens	Ultra-violet lens	GLO-LENS
Dye	Oil Dye for gasoline engines (1 fl. oz.)	GLO-GED



GOODSON Glow **Blacklight Crack Detection Kit**

· 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

	Incl.
GLO-KIT*	•
GLO-1*	X
GLO-2*	Х
GLO-3*	X
GLO-4	X
WST-5	X
GLO-4-B	
TRADE-MC	CB x
	GLO-1* GLO-2* GLO-3* GLO-4 WST-5 GLO-4-B

Crack Detection Powder & Oil Carrier

- · For wet method crack detection
- Mix powder with oil carrier
- Use GLO-300 Light (left) to view results

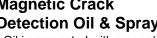
	Size	Order No.
Powder	4 oz. / 113.4g	GCR-14A-4
	1 lb. / 453.6g	GCR-14A
Oil Carrier	5 Gallons / 18.93L	GCR-50



Magnetic Crack Detection Oil & Spray

- · Oil impregnated with magnetic powder (GCR-14) to glow under black-light • Low viscosity
- · Flows easily into small cracks
- Oil clarity makes cracks easier to see

Description	Order No.
Aerosol* 16 oz.	MFA-16*
5 Gallons /18.93L	MFA-50





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
230V Heavy Duty Electronic Crack Detector with 22# Pull	MMP-210S

Specifications

MMP-100 / MMP-100S

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

187 x 235 x 54mm

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 / MMP-210S

Physical: 10½" x 11" x 2¾"

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

American Made



Non-Fluorescent **Magnetic Powder for Dry Method Particle Inspection**

- · Works with all dry magnets including Magnaflux® and Parker
- · Store in a moisture free environment

Color/Size	1 lb.	5 lb.	25 lb.
White	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

13W **Fluorescent UV Leak Detection Light**

- Uses a single 13W Ultraviolet fluorescent bulb Effective up to 24" from surface • Nylon-tipped double hooks for hands-free use • Rocker style switch • 25' 18/2 power cord
- Measures 11.3"L x 2.3"W x 2.3"D Weighs just 35.2 oz.

1 year limited warranty

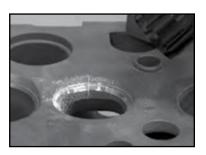
- your minica warranty	
Description	Order No.
Fluorescent Detection Light	GLO-4
Replacement Bulb	GLO-4-B



A guick & easy method for distributing magnetic powder

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

We find the fluorescent powder much more effective at picking up cracks than any powder we have used in 30 years of crack detection!
- Steve's Machine Shop, Liberty, NY



Green Fluorescent Magnetic Powder

- For dry magnetic inspection methods
- · Makes crack detection easier
- Cracks glow bright yellow under ultraviolet light but can also be seen under normal lighting conditions

Quantity	Order No.
1 lb.	FCP-107-G
5 lb.	FCP-507-G



Magnetic Crack Inspection Kits

Goodson carries a variety of magnetic crack detection methods including these two kits. We include heavy-duty 110V adjustable-leg magnets that are made right here in America. Kits also include lights, magnetic powder atomizers, and fluorescence enhancing safety glasses. All items are also available separately.

Description	Order No.	ln	cl.
Fluorescent Magnetic Crack Detection Kit	FCD-KIT		\blacksquare
High Performance Fluorescent Crack Detection Kit	FCD-HP-KIT	▼	
115V Heavy Duty Electronic Crack Detector	MMP-210	X	X
Magnetic Powder Atomizer Assembly (1 oz. capacity)	MM-301	X	X
Magnetic Crack Detection Oil Spray* MFA-16*		X	
AC Blacklight	GLO-4		X
Fluorescence Enhancing Glasses	GLO-9940		X
Compact LED UV Inspection Light Kit (Glasses included)	GLO-400	X	
Fluorescent Magnetic Powder 1 lb.	FCP-107-G	X	X

*Hazardous Goods Fees Apply When Shipped By Air

ULTRA-BRIGHT LIGHT!



Compact 100W LED UV Crack Inspection Light

- Power comparable to high-intensity 100-watt lamps
- Inspection range of up to 10 feet (3M)
- · Compact design fits easily into tight, cramped spaces
- 100 thousand hour LED service life
- Rugged, corrosion-resistant, anodized aluminum lamp body stands up to years of heavy shop use
- Rechargeable lithium-ion battery (included) provides
 4 hours of continuous inspection between charges
- Includes AC charger, fluorescence enhancing glasses and lanyard
- Order No. GLO-400



Small Parts Demagnetizer

Don't jeopardize your engine work! Heat, friction and 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 is eliminated.

Description	Order No.
Small Parts Demagnetizer	SPD-46
Magnetic Field Indicator	MFi-10010



"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."

- Dave, Goodson National Sales Manager, 23 yrs. 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
- Marine Heat Tabs are sold in packs of 50, all others are 100 per pack
- 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



Protect yourself from unjustified warranty claims with a simple Heat Tab

When you attach a heat tab to the engine it provides visual evidence that an engine has been overheated. A special heat sensitive metal has been formed into the center of the tab. When an engine reaches the tab's melting point, this metal will melt and flow out. This is a positive method of determining that a rebuilt engine has been heated beyond normal operating temperature, voiding the warranty. Attach a Heat Tab to the upper portion of the block or to the cylinder head casting with HTA-3 Heat Tab Adhesive (above). **DO NOT** attach to manifolds or shielding.

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	
Size	Order No.
2 oz. (59 mL)	FW-2
8.8 oz. (260 mL)	FW-88

All Weather Seal

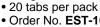
- · Seals intakes & head gasket leaks
- Seals cracks in cylinder heads & engine blocks
- · Prevents anti-freeze seepage through gaskets and hoses
- Lubricates water pump seals
- Mixes with all anti-freeze and coolant
- Works in less than 5 minutes
- · Fast-acting, non-corrosive, non-clogging
- Can be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





Engine Seal Tabs Seal And Prevent Leaks In Any Cooling System

- Use in a running engine
- For water leaks in cylinder heads, blocks, radiators, water pumps, heater cores, manifolds, etc.
- 3½ gram tablets treat up to a 9 quart cooling system
- Order No. EST-10



Threaded Crack Repair Plugs

• Iron • Tapered • Threaded plugs

· Cast to rigid specifications

ouct to rigid opcomoditorio		
Plug Size	Qty.	Order No.
.200" x 15/16"	100	CRP-200
.200"x ½"	100	CRP-201
.235" x ⅓6"	100	CRP-235
.327" x 1¾"	50	CRP-327



High Speed Steel Drills

• 1180 points for fast chip removal

The pointe for fact only it	51110 T CI
Plug Size	Order No.
.200"	CRD-200
.235"	CRD-235
.327"	CRD-327



Tapered Reamers

• High Speed Steel

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

Tapered Taps

 High strength steel machined to match plug taper & thread

plag tapol a tilload	
Plug Size	Order No.
.200"	CRT-200
.235"	CRT-235
.327"	CRT-327



- Permanently seals leaking head gaskets, cracked heads and blocks (aluminum or cast iron)
- Coats the engine to inhibit rust formation and salt water corrosion during normal operation
- Seals porous castings in the cooling system
- · Stops coolant leaks
- Promotes heat dissipation for added power
- 16 oz./455 mL
- Order No. CRS-16



.235" Crack Repair Kit

 Complete kit includes everything you need to repair cracked cast iron heads using the cold repair process

Crack Repair

- Manual included
- Learn more about repairing cracks with this process

Description	Order No.	Incl.
Complete Repair Kit:	CRK-150	•
100 – .235" x ¹⁵ / ₁₆ " Threaded Iron Plugs	CRP-235	X
High Strength Steel Drill	CRD-235	X
High Strength Steel Tapered Reamer	CRR-235	X
High Strength Steel Tapered Taps (2)	CRT-235	X
Cut-Off Saw with Blade	CR-SAW	X
Replacement Saw Blade	CR-BLADE	X
7.5 oz. Tap Oil	TAP-O	X
All Weather Seal	AWS-16	X
16 oz. Ceramic Seal	CRS-16	X

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



- 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 gallonsOrder No. PRI-10



Head-Bolt Hole Clean-out Taps

- Clean threaded holes to prevent false torque wrench readings
- Lifts rust, dirt, chips and other debris as you remove the tool
- Use with lube and a socket wrench or slow drill

• Repairs minor damage

- Repairs millior damage				
Size	Pitch	Length		Order No.
1/2"	13	3%" OAL		BCT-1/2
7/16"	14	3⅓" OAL		BCT-7/16
10mm	2.0mm	8" Shank	For LS1	BCT-10X2L
11mm	1.5mm	8" Shank		BCT-11L
11mm	2.0mm	8" Shank	For LS1	BCT-11X2L

... another satisfied



"Our Top Alcohol Dragster cylinder heads have about a zillion studs of various sizes. With the Goodson Stud Removers and Installers (page 55), we now make short work out of this very tedious process."

– Dean Dubbin, DPM Awnings (NHRA Top Alcohol Dragster), Goodson customer since 2010

Find all 10 Goodson Girls in the 2018 Catalog And You Could Be a Winner!

GG, the Goodson Girl, is hiding in 10 places in the catalog (this page doesn't count).



When you've found all 10 pictures of the Goodson Girl, call Goodson at 1-800-533-8010. You will need to identify each location (page number and placement) to win. Any of the three Goodson Girl styles (page NP-1) may be hidden in the catalog.

Mercedes .015" Head Saver Shims



- Shim cam towers if more than .015" is removed when resurfacing head
- Restores valve clearance & timing
- For 4, 5 & 6-cylinder Mercedes gas or diesel engines
- Each set shims all cam towers in one head
- Order No. MHS-40

Rocker Arm Pedestal Shims



- Compensate rocker arm/push rod distance after head/block machining
- Use original rocker arm specs

Application	Qty.	Order No.
Ford 302/351	50	RASF-20-50
Ford 302/351	100	RASF-20-100



- Powerful earth magnets hold discs secure for resizing
- Tabs keep VADs from sliding

Magnetic VAD Holder

No more waiting for a special size – take an existing VAD and grind it to the size you need right on your valve refacer. Powerful magnets hold the VAD securely while you resize them. Tabs keep the VADs from sliding off the holder while grinding.

giii ai ig.	
Description	Order No.
Magnetic VAD Holder	VDR-UNI
Replacement Magnet	VDR-MAG

Resize VADs at your shop quickly and easily



Has this happened to you? You're adjusting the clearance between the valve stem and the cams and the stock Valve Adjustment Disc (VAD) isn't the right thickness. You need a 2.25 in a 28mm diameter and the thinnest ones available are 2.50. What are you going to do?

You could wait to have them resized by your supplier, but hey, you're a machinist! You have all of the tools and abilities right in your shop to modify the VADs you have into the VADs you need.

Place the VAD that you need to resize on your Magnetic VAD Holder (VDR-UNI, above). The powerful earth magnets will hold it securely. Using your Valve Grinder's stem end wheel, grind the VAD to the thickness you need. You're now ready to install it in the head. All in a few minutes instead of a few days.



VAD Adjusting Tools For Toyota

- Reach around the cam to depress the lifter
- Wedge holds the lifter down to free the Valve Adjustment Disc
- Reach in to remove and replace the disc
- For most models prior to 2004

Description	Order No.
Pliers and Wedge	VBT-40
Wedge only	VDL-20



- Replace smog plugs damaged during head cleaning
- 5/8" x 11 thread outside, 7/16" x 14 thread inside
- Order No. EMP-34

Convert your Bridgeporttype mill into a cylinder head machining center!





Lock the fixture to your mill bed using your standard T-Bolts (not included)

Two towers secure to the mill bed and support the cradle assembly



Vertical Mill Heavy-Duty 360° Roll-Over Fixture

- Uses the Universal Quick-Mount Bar Set (included) to hold the workpiece securely in place
- Position workpieces guickly & accurately
- Locks to your table using your standard T-nuts
- Handles workpieces up to 24" long
- Cradle accommodates in-line and canted valves with offset movement up to 15°
- Width adjusts in 3/4" increments Instructions included
- · Quick-Mount Bar Set can also be used as a replacement on most popular seat & guide machines

Description	Order No.
Roll-Over Fixture with Quick-Mount Bar Set	VM-42
Replacement Quick-Mount Bar Set	QMB-95

GM Vortec Adaptor Plate Set For Van Norman & Storm-Vulcan **Rotary Broaches**

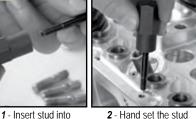


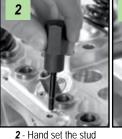
- Required when using the Van Norman VN 530 / 570 or Storm-Vulcan 850 Storm-Mill Rotary Broaches
- Two plate set Includes fasteners
- Order No. VN-VOR

Installation



correct size installer.





3 - Use a standard 34" wrench or socket to tighten stud into place. Each installer is fitted with a steel ball inside to

prevent over-tightening.

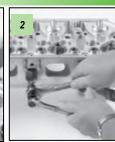
into the cylinder

head.

Removal



1 - Place the remover over the stud to be removed. Using 2 wrenches, back the stud out of the head.



2 - Removers can be used in virtually any position.



Super-Stud™ Stud Installers & Removers

- · Size stamped for easy identification · Installers include a steel ball inside to prevent over-tightening on the stud
- Removers have a ¾" OD Hex body with a ¾" hex jam nut

Description		Order No.
Stud Installers	¾" Fine	ASI-375
	%" Coarse	ASI-375C
	⅓ ₆ " Fine	ASI-437
Stud Removers	¾" Fine	ASR-375
	%" Coarse	ASR-375C
	⅓ ₆ " Fine	ASR-437

Brass or Steel Shim Stock 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

iron-clad guarantee 55 full service "You always get more than great products from Goodson ... you also get great value!" – Shane, Goodson Receiving, 1 year of service

SP-601 •

SP-603

SP-604

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

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

- Use with a seat and guide in	lacilile	
Description	Order No.	Inc
Conversion Kit	S-450-KIT	1
Stud Boss Facer	S-450-F)
³ ⁄ ₈ " Drill Bit	S-373D)
¼6" x 14 Thread Tap	S-437T)
3/8" Pilot	S-373P	
2 Pc. Tap Guide	S-350G	



Universal Threaded Stud Extractor

- Use with your pneumatic impact tools & sockets (15/16" socket removes, 17/16" installs)
- Requires only ¾" clearance to adjacent studs
- For threaded studs only
- Hardened 3-jaw clamping system
- Internal taper support
- Hollow body allows long studs to extend through the tool
- 1½" dia. x 2½" long ¼" ½" range

.,			
Description		(Order No.
Universal Stud Extracto	or	ı	PSR-500
Replacement Parts	Jaws	ı	PSR-JAWS
	Spring Set	I	PSR-3S
	Snap Ring	l l	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 vou tighten
- Fits between a socket-driven extension and the socket
- 1/2" square drive
- Order No. TQR-4554





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





Head Bolt Spot Facer

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

Description	Order No.
Spot Facer	HBF-15
¼6" Pilot (sold separately)	GFP-437

Cut through even the hardest metals with Cutting & Tapping Fluid

- · 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







• Replaceable carbide blades		
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	x
Replacement Stud Boss Facer ¾" Pilot (optional)	SBF-5587P)

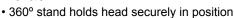
Head Holders and Stands

American Made

Economy Cylinder Head Holder

- Holds head with either side up
- Tapered pins fit any size head bolt hole and loosen with a twist
- Ideal for guide sizing with ample clearance to remove arbors and reamers
- All steel construction
- Two piece set
- Order No. HH-100-G

Ultra-Sturdy Cylinder Head Holder



- Tie-rod to prevent tipping
- Slip-resistant neoprene covered rails
- Fits domestic, foreign, truck & motorcycle heads
- 3-piece set
- 151/4" centerline
- Order No. HH-450

Set screws hold the two pieces firmly in place



Parts Tags & Marker

- Won't tear or wash off
- · Heavy wire ties
- 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
- Tag dimensions: 3½"L x 5/8"W with 5/32" hole for wire tie

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

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



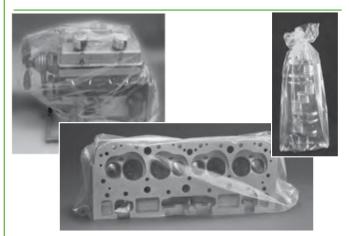
Universal Cylinder Head Holder

- Accommodates all types of cylinder heads
- · 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



Professional 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



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 4 sizes fit most common rebuilt assemblies • Jumbo engine bags are extra-strong and big enough to accommodate complete engines • Jumbo head bags fit the largest cylinder heads
- Ideal for storing heads, cranks, blocks, etc.

Size	Description	Quantity	Order No.
16" x 37"	Heads, cranks, misc.	box of 100	BC-15
17" x 44"	Jumbo head bag	roll of 100	BC-17
27" x 18" x 36"	Box-style for blocks	box of 50	BE-20
44" x 52"	Jumbo engine bag	roll of 50	BE-44

full service

Aluminum Oxide Cloth Utility

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



Order	Grit	Ord
UR-1-	60	UR-
UR-1-	80	UR-
UR-1-	100	UR-
UR-1-	120	UR-
UR-1-	180	UR-
UR-1-	320	UR-

Crocus Cloth

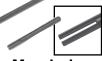
· Must be used with Lapping Oil

as little time waiting on hold as possible."

— Paige, Goodson Customer Service, 2 years of service

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

occ man crowd manarcic at night	
Description	Order No.
1" x 50 yd. Roll	UR-1-CROCUS
4 oz. Lapping Oil	LP-LO-4
8 oz. Lapping Oil	LP-LO-8



Slotted Butterfly Mandrels

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

at ioit	Coveral longing available
Length	Order No.
3"	BM-3
6"	BM-6
8"	BM-8
10"	BM-10
12"	BM-12

Premium

Replacement Abrasive Packs and Mandrels



Replaceable Roll Lock Discs

10 p	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" D	ia.	RLH-2	
3" D	oia.	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

Straight Cartridge Rolls

	0	½" hole d • Box of 50
Dia.	Grit	Order No.
/4"	40	SCR-250-4
	RΠ	SCR-250-8

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

Straight **Cartridge Rolls**

• 1" long, 1/8" hole

Roll Mandrels

Length

23/4

4"

6"

8"

10'

12'

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

- Fully glued Box of 50
- Dia. Grit Order No. 60 SCR-1-250-60 80 SCR-1-250-80

Half-Tapered Cartridge Rolls

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

"When you call Goodson, you speak to a person, not a machine. We work hard to make sure you spend

	y g.a.o.a	B 0 / 0 / 0 0
Dia.	Grit	Order No.
3/8"	40	HTR-375-40
	80	HTR-375-80
	120	HTR-375-120
	320	HTR-375-320
1/2"	40	HTR-500-40
	80	HTR-500-80

Full-Tapered Cartridge Rolls

- 1½" long, ½" hole
- Fully glued 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
	100	FTR-500-100
	120	FTR-500-120
5/8"	40	FTR-625-40
	80	FTR-625-80

· i ui	- I dily glucu - 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			

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

Quality **Buffs**[®] Box of 10 Dia. Grit Order No. 3/4" V. Fine CB-75VF **CB-75M** Med. V. Fine CB-1VF Med. CB-1M 1½" CB-15VF V. Fine Med. **CB-15M** 11/4" V. Fine CB-125VF-HD Med CB-125M-HD CB-15VF-HD V. Fine



CB-15M-HD

Med.

Dia.	Grit	Order No.
1%"	80	APK-7
2"	80	APK-8
21/2"	80	APK-9
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 ahove

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

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



48 Piece **Deluxe Porting Kit**

· Professional grade porting supplies

· Packed in a clear plastic storage case

Description			Order No. In	ıcl.
48 Pc. Kit			DPK-100	•
Replacement Abrasives	Grit	Kit Qty.		
Flap Wheels - 1"x1"x1/4"	120	2	AFW-1-120	X
Cross Buffs 2 Ply, 11/2"	Med.	2	CB-15M	X
	Very Fine	2	CB-15VF	X
Cross Buff/Flapwheel Man	drel	1	CB-MANDREL	. х
1/4" Dia. Straight	40	2	SCR-250-40	X
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	X
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	X

See previous page for replacement abrasive quantities

small engine powersports

44 Piece **Small Engine Porting Kit**

· Professional grade porting supplies

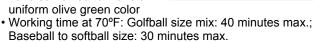
Packed in a clear plastic storage case

Description				Order No. In	ncl.
44 Pc. Kit				SEPK-5	\blacksquare
Replacement Abra	sives	Grit	Kit Qty.		
Flap Wheels - 1"x1	"X ¹ /4"	120	2	AFW-1-120	X
Cross Buffs 2 Ply	3/4"	Very Fine	2	CB-75VF	X
	1"	Medium	2	CB-1M	X
		Very Fine	2	CB-1VF	X
	1 ¹ / ₂ "	Very Fine	2	CB-15VF	X
Cross Buff/Flapwhe	eel Man	drel	1	CB-MANDREL	. x
3/8" Dia. Straight		80	4	SCR-375-80	X
Cartridge Rolls		120	4	SCR-375-120	X
		320	4	SCR-375-320	X
3/8" Half Tapered Cartridge		Rolls 80	4	HTR-375-80	X
3/8" Full Tapered		80	4	FTR-375-80	X
Cartridge Rolls		120	4	FTR-375-120	X
1" x 2 Yds. Abrasive Roll		120	1	UR-1-120	X
		320	1	UR-1-320	X
Cartridge Roll Man	drel	2 ³ / ₄ " Long	1	CR-275	X
		4" Long	1	CR-40	X

See previous page for replacement abrasive quantities

Intake Port Reshaping Kit

- Superior formula uses 2-part epoxy
- 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



- 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. Sandblasting is acceptable. Scraping, wire brushing and other manual cleaning methods may also work.

Quick Change Mandrels & **Abrasive** Sleeves

• 5 sleeves per pack • 1" x 1"

Mandrel has ½" shaft

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



110V Electric Die Grinder

- 1/4" collet 8' cord 110V 2.5 amp 25,000 RPM
- Includes 2 collet wrenches
- Optional Speed Control lets you vary from 200 to 25,000 RPM • 6' cord • 110V • 15 amp

Description	Order No.
25,000 RPM Die Grinder	GEO-600
Variable Speed Control	GEO-SC
1/4" Grinder Replacement Collet	GEO-600-5
Grinder Replacement Collet Nut	GEO-600-4

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

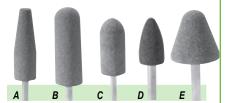


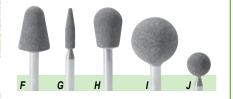
1/4" Shank Carbide **Rotary Double Cut Files**

another

FR-45-C

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 • 11/1" shank length

	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	11/4"	11/4"	60	GM-4
F	3/4"	11/⁄8"	60	GM-5
G	1/4"	11/16"	60	GM-15
Н	3/4"	1"	60	GM-23
1	1"	1"	60	GM-25
J	5/8"	5/8"	60	GM-26
K	13/8"	1"	60	GM-31
L	1"	1"	60	GM-38
M	3/4"	3/4"	40	GM-40
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 bench.

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.



Open Fluted Rotary Files for Aluminum

Choose between 2 shank lengths $-1\frac{1}{2}$ " and 6" in several sizes. All of the files feature a 1/4" diameter shank

	Dia.	Length	Order No.
Α	1/2"	1"	AFR-34
В	1/4"	¹⁵ ⁄16"	AFR-45
С	1/2"	1/2"	AFR-55
D	1/2"	1"	AFR-93
Ε	3/8"	13/16"	AFR-121

	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

Save when you

buy the kit!

6" Long Shank

Double Cut Carbide Rotary Files

• 1/4" diameter shank

	Dia.	Length	Order No. Inc	ı.
Cor	nplete 5 P	c. Kit	LFR-KIT ▼	7
Α	1/2"	1⅓"	LFR-34C x	(
В	1/4"	1/2"	LFR-45C x	(
С	1/2"	1/2"	LFR-55C x	(
D	1/2"	11/4"	LFR-46C x	(
Ε	1/2"	1¾6"	LFR-141C x	(



Carbide Single Cut **Rotary Files for Aluminum**

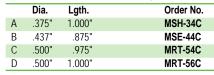
- 1/8" heat treated steel shanks
- For all non-ferrous metals

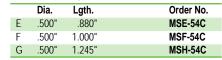
• 1/2 8	snank length (nominal)	100	(8)(7)	600	
Dia.	Cut Length	Order No.	WA.	(000)	(8/24)	(A)
1/4 "	1/2"	FRA-51F	(10)	(WA)	YUA	(6.3)
1/4 "	1/2"	FRA-51C	107	W	167	W
1/4 "	1/2"	FRA-51A				- 1
1/4 "	1/4"	FRA-51E	-	С	Α	=



1/4" Carbide Rotary Files

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





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 the valve adjustment
- · Heavy duty construction
- Oil and solvent resistant
- 231/4" x 261/2" x 2"
- Order No. DOHC-1



Stackable Cylinder Head Organizer Trays

- Store valves, springs, retainers and keepers in order of assembly • Impervious to oil and most solvents
- Measures 28" x 12½" 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, lifters, etc. in order
- 64 compartments
- Measures 11½"W x 13½"D x 1½" H
- Order No. VTO-80



Bifocal Magnifying Safety Glasses

· Safety glasses and cheaters all in one

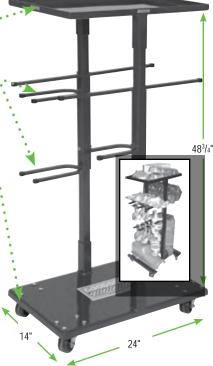
carety glacocc and cheaters an in one	
Diopter	Order No.
1.00	BSG-100
1.25	BSG-125
1.50	BSG-150

Top tray features 1" deep a lip to keep parts from rolling off

Solid steel hangers' hold piston rods and crankshafts Heavy duty casters make moving the engine and cart easy

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 engine easily
- Some assembly required
- Order No. **EC-200**



REBUILDING

GLEANING, SEMBLY & SAFETY

REBUILDING

CRANKSHATT/

TOOLS & SUPPLIES

TOOLING

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



- 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

V-TWIN & METRIC

iron-clad guarantee

61

WCB-30

End Brusnes					
Dia./	Dia. / Wire gauge / Type Order No.				
Stand	Standard 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"		ANH-26			
Ultra Duty (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			



GBC-4 GBC-6 GBC-10



GBC-14

ANH-16





NH-26 ANH-26



Engine Prep Brushes

.020" knotted

g	
Application	Order No.
For small feed hole in block	
1/4" x 2" x 10", nylon	OB-1
For Block Oil Return Line	
5/16" x 21/2" x 12", nylon	OB-2
Like OB-2 but more flexible	18
5/16" x 21/2" x 12", nylon	OB-2A
For Block Oil Return Lines	387
3/8" x 21/2" x 12", nylon	OB-3
For diesel injector	100
13/4" brush, stainless	DIB-1
For lifter bores	
1" x 3" x 14", nylon	LBB-100



NH-6

1/4" Shank Brushes

DEB-2

Deep Well End Brush as brush wears cut back to expose new wire				
Dia.	Wire Gauge	Grade	Order No.	
1/4"	.012", 6" long	Economy	DEB-1	
3/8"	.017", 6" long	Economy	DEB-2	
Flare Bru	ish use to remove carbo	n from engine ports		
½" ball, 5⁄	าง" cable	Ultra-duty	DEB-3	
Port Brus	sh as brush wears cut be	ack spring for new wir	e	
1/4"	.014", 4" long	Standard	DEB-4	
1/2"	.020", 2½" long		DEB-5	
Cup Brush 5/8"-11 NC - fits standard 41/2" angle grinder				
3"	.014" twisted	Ultra-duty	WCB-30	
4"	.014" twisted	Ultra-duty	WCB-40	

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**

Lifter Bore Brushes

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

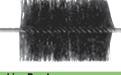


Steel Wire Oil Gallery Brushes

On Cancry	Di asiic	.
Desc.	Order No.	
3-pc. Kit	OGB-SK	▼
½" x 3" x 24"	OGB-1	X
3/8" x 3" x 24"	OGB-2	X
5⁄8" x 3" x 24"	OGB-3	X

Nylon Bristle Oil Gallery Brushes

•		
Desc.	Order No.	
5-pc. Kit	OGB-KIT	\blacksquare
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



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
41/2"	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

Pushrod Brush

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

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

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-8S	8"	GVP-8N
5mm x 11/4"	8"	GVP-9S	8"	GVP-9N
6mm x 11/4"	8"	GVP-10S	8"	GVP-10N
7mm x 11/4"	8"	GVP-11S	8"	GVP-11N



Parts Cleaning

Radial Wire Brushes

Radial Wire Brushes

- American made oil tempered high carbon steel wire
- · High density for faster cleaning and longer life
- Excellent balance 1/2" 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 ¾"	.016" Twisted	Super	TS-8
6" x ½16"	.023" Knotted	Ultra	QTC-6



Engine Rebuild Brush Kit

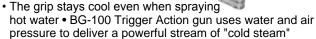
- Includes the brushes you'll need for an average engine job
- A great starting place, then add more brushes as you need them • Replacement brushes available

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 x
¾" 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 x

BG-150

Hydro-Air Guns

 Hold the BG-150 by the air supply hose



 BG-100 includes siphon tube, extension nozzle & flushing adaptor and connects to openings ¾" to 1½" in diameter

adaptor and connects to openings /4	to 1/2 in diameter
Description	Order No.
Hydro-Air Gun	BG-150
Trigger-Action Hydro-Air Gun	BG-100
Replacement Nozzle for BG-100	BG-NOZZLE

Super Scraper™

- Remove gaskets, carbon, rust, paint, etc.
- Precision-ground
- Solid carbide-tipped
- Double-edged blade
- · Lasts longer than plain steel
- Nickel-chrome 1/2" thick steel shank
- For all metals including aluminum

Width	Order No.	Incl.
3 Pc. Set	SS-SET	•
%"	SS-4U625	X
1¼"	SS-4U	X
2"	SS-4U2	X



Pneumatic Scraper

- Faster and easier than scraping by hand
- Beveled, 1" steel blade Removes gaskets with 2500,
 3/4" strokes per minute Resharpenable blade

п	, o o p o	
	Description	Order No.
	Complete Tool	AGS-310
	Replacement Blade	AGS-310B
	Premium Replacement Blade	AGS-310BP

Roloc Bristle Discs

- · Effective on cast iron, yet safe for aluminum
- Abrasive grains embedded in plastic bristles that break down exposing new grain

Roloc	Bristle D	iscs		
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
Holde	ers			
Size	Description Roloc-Type Holder			Order No.
2"				RLH-2
3"	Roloc-Type Holder			RLH-3





BG-100

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**



We believe that every customer is important. If you need one of our tools or supplies overnight or" have a last minute change on your order you can count on Goodson. You'll always receive the kind of courteous, personal attention that shows how much we appreciate you doing business with us.' Cammy, Goodson Operations Manager, 1 year of service

Carbide Nozzle Assembly

Brass Gun Body

Glass Bead Gun for Smaller Machines

- · 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

Replacement

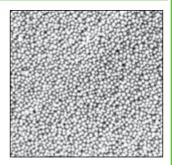
Trigger-Control Glass Bead Gun

- Uses 9 CFM of compressed air
- · Gun includes replaceable ceramic nozzle
- Nozzle diameter: 3/16"
- For most economy bench-top glass bead cabinets
- Fits most cabinets with 1/2" ID media supply line, threaded for 1/4" air line fitting

Description	Order No.
Trigger-Control Glass Bead Gun	GB-9
Replacement Ceramic Nozzles (3 pack)	GB-9-NOZ

Glass Beads

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



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).



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

TITCIOCCE STO TO CCIONNIC NOZZIC	
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 kit)	GB-54

Ι.							
Г	Rebuild Kits		Order No.	lr	nclu	ıde	s
П	.250" ID		GB-4-OK				\blacksquare
Г	.313" ID		GB-5-OK			▼	
П	.375" ID		GB-6-OK		▼		
Г	.437" ID		GB-7-OK	▼			
П	Ceramic Nozzles	.250" ID	GB-74				X
	7%" OD x 1%"	.313" ID	GB-75			X	
L		.375" ID	GB-76		X		
7		.437" ID	GB-77	X			
П	Replacement Orifices		GB-64				X
Г			GB-65			X	
			GB-66		X		
			GB-67	х			
П	Lock Nut		GB-52	Х	X	X	X
П	O-Ring		GB-53	Х	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!

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

For Parts Tumblers



Steel Ballcones (20 lb.) Ideal for Springs .385" ball in .475" cone Order No. PTM-20BC



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



Hot Tank Gloves

- Sold in pairs
- Not for solvent use
- 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



Screws closed

Ideal for tumbling

Solvent resistant

• Order No. VK-15

tightly

• 1/4" holes

keepers

PVC

See Pages 126-127 for Keepers

Valve Stems Valve Stem

See Page

125 for

 Protects against parts tumbler damage

Protectors

- · 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

Full Length Neoprene Shop Apron

- Protects from caustics, steam, grease and oil
- Bib-style 35" x 45"
- Order No. HTA-300

Shown with Shoulder Length Hot Tank Gloves (above)



Cloth Shop Apron

- Bib-style apron
- Heavy duty black fabric
- Several handy pockets
- Embroidered Goodson Racing logo
- Machine Washable
- Order No. CA-100





Parts Tumbler Basket

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

Cosmoline

- Brush directly from can onto freshly-machined engine components
- · Protects iron, steel and aluminum
- Soften with mineral oil to dip small parts

Quantity	Order No.
2 lbs.	RPC-2A
35 lbs.	RPC-35A

Rust **Proofing** Oil

- Apply full strength
- · Creates a protective film

GOODSON

RPO-10

- · Washes off with standard solvents
- Brush or spray on using the Sure Shot Sprayer (below)

OODS!

- 1 Gallon / 3.78 L
- Order No. RPO-10

Rust Shield

Short-term

- Non-sticky
- Lasts several weeks
- Wipes off with just a towel Long-term
- Formula is thicker and protects much longer but requires a solvent to remove

Formula	Order No.
Short Term	RS-16*
Long Term	RS-16-OD*

*Hazardous Fees Apply If Shipped By Air

Shield for Shop Equipment

Rust

- Stops rust without causing rancidity
- Apply to machine parts such as ways

BOODSON

S-128

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

Silver Anodized Aluminum 24 oz. Sure Shot® Sprayer

- Pressurize it with shop air 80-150 psi
- No hoses or cords to limit movement
- Spray nozzle adjusts from stream to spray
- · Can be used with most oil, solvent and water based materials
- · Not for paint or caustics

Description	Order No.
Sure Shot Sprayer	PS-2014
Replacement Tank-Body O-Ring	PS-2014OR
Replacement Nozzle Washer	PS-2014NW



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

Snap Together Adjustable Coolant Hoses

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





round nozzles Application: Most parts washers, wet-type seat grinders,

valve refacers Order No.: ACH-400

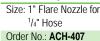


Size:	1/2" Hose Kit
Includes:	16 ¹ / ₂ " hose, ³ / ₈ " & ¹ / ₂ " NPT fittings, ¹ / ₄ ", ³ / ₈ " & ¹ / ₂ " round nozzles
Application:	Most cylinder hones and

Application: Most cylinder hones and flywheel arinders

Order No.: ACH-600







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







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



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

Hose ID	Length	Order No.
1/4"	11"	ACH-401
1/2"	11"	ACH-801

Coolant & Solvent Pumps

170 Gal. **Per Hour** Pump

- HP: 1/125
- Voltage: 115
- Capacity: 170 gal/hr. at 1" depth • Hi-temp Seals
- Size: 4" x 31/4" x 23/4" Order No. COP-166
- 1200 Gal. Per Hour Pump • HP: 1/6
- Capacity:
- 1200 gal/hr. at 1" depth
- Voltage: 115
- Size: 7¾" x 61/6" x 45/6"
- 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



Cleaning Solutions

ROODSON

Liquid Dilution

2 to 4 oz. to 1 gal. water

Rates

Normal Soils:

Ideal for Cleaning

Great All-Purpose Cleaner!

- Carbon Build-Up
- Coolants
- Dirt
- Grease
- General Oil
- Cutting Oil
- Lubricants
- Silicone / Greases
- Sulfur / Chlorinated Oils
- Water-Soluble Oils
- Rubber
- Tire Marks
- Smoke Residue

Multi-Purpose Parts Degreasing Detergent



- Highly versatile detergent cleans a variety of things in and around your shop - floors, machines, parts, countertops, benchtops and more
- 1 gallon detergent concentrate typically yields up to 65 gallons of cleaner
- · Not for use in Jet Wash

Size	Order No.
1 Gallon (3.78L)	PD-10
5 Gallons (18.39L)	PD-50



Concentrated Hot Tank Detergent Powders For Ferrous Parts

- Strong alkaline
- · Removes dirt, heavy oil, grease, carbon, light rust and paint
- Mix ratio ¹/₂ lb. powder to 1 gal. of water
- 25 lbs.
- Order No. D-Ci25



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
- 20 oz. / 591.5mL bottle
- Order No. GBP-20

GOODSOL D-FOAM-12

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

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
- Mix ratio: 4 oz. powder to 1 gallon of water
- 50 lb. / 22.68 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
- 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.





"I make sure that all Goodson products are packaged properly and include instructions or important information that is useful to our customers."

Jill, Goodson Receiving Department - 15 years of service

103/4"

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

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

Small Basket with Lid

- 2¼" dia. x 7" L
- Order No. PWB-2

Medium **Basket** with Lid

- 4½" dia. x 7" L
- Order No. PWB-4



Flock Lined **Nitrile Parts Gloves**

- 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

Jet Wash Parts

Basket Makes a

• Triangle-shaped • Sit side

• Fit more baskets in the

• Order No. JWB-6

machine to clean faster

by side on Jet Wash table

baskets

diameter

fit in

24"

24" Circle



Single Basket with Handle

- 8" dia. x 9" L
- Lid & clip sold separately/
- Order No. PWB-10

Single Basket with Lid, Clip & Handle

- 8" dia. x 9" L
- Order No. PWB-15

Double Basket with Clip • 9" dia.

- 16" L
- Hinged on one side
- Order No. PWB-25



- For PWB-10
- Order No. PWB-10L

Clip Only

• Order No. PWB-15C

Unlined Nitrile Gloves

- 8 mil thick textured Nitrile
- Dispenser style box holds 50 gloves
- 12" Long Fit either hand
- Not for prolonged direct exposure to harsh chemicals

Size	Qty.	Order No.
Large	50	PNGL-L
X-Large	50	PNGL-XL

Machine Washable Cotton Shop **Towels**

- 15" square
- Highly absorbent
- Hundreds of uses
- Color may vary

Color Illay vary	
Quantity	Order No.
5 Pack	WST-5
50 Pack	WST-50



Disposable **Assembly Wipes**

- Snow-white
- Pop-up box 9" x 17"
- · Ideal for a multitude of uses at the shop,

at the track, even at home!

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Quantity		Order No.
100		AW-100
220		AW-250

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



Parts Organization & Cleaning



Parts Tags & Marker

- · Won't tear or wash off
- · Heavy wire ties
- 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

• Tag dimensions: 3½"L x 5/8"W with 5/32" hole for wire tie

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



Organizer Safety Pins Keep Part Sets Together

Parts Safety Pin • Organize valve springs, rods, etc., from disassembly to cleaning to reassembly Rod & Cap Mini Pin • Keep connecting rods & rod caps together to prevent mix-ups

Description	Order No.
Parts Safety Pin (33/4" x 12")	PSP-20
Rod & Cap Mini Pin (3/4" x 4")	RSP-10





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 4 sizes fit most common rebuilt assemblies • Jumbo engine bags are extra-strong and big enough to accommodate complete engines • Jumbo head bags fit the largest cylinder heads
- Ideal for storing heads, cranks, blocks, etc.

Size	Description	Quantity	Order No.
16" x 37"	Heads, cranks, misc.	box of 100	BC-15
17" x 44"	Jumbo head bag	roll of 100	BC-17
27" x 18" x 36"	Box-style for blocks	box of 50	BE-20
44" x 52"	Jumbo engine bag	roll of 50	BE-44

String Micron Filters

• 2.5" x 10"L to fit all standard 10" filter housing units including UltraSonic, LLC models 2400FA, 3200FA, 3800FLT and 6000FLT

• String wound filters offer high structural strength to withstand severe operating conditions

Description	Order No.
125 Micron Filter	USCF-125
50 Micron Filter	USCF-50S

Ultrasonic Detergents

- · Safe for ferrous metals & aluminum
- Medium Duty can be used on plastic
- · For ultrasonic immersion tanks
- Medium Duty includes rust preventive
- 5 gallons / 18.39L containers

Description	Mix Rati	io	Order No.
Medium Duty	1:20		USD-MD50
Heavy Duty	1:10		USD-HD50
Caustic	1:10		USD-CD50

Replacement Cartridge Filters (2%)

Filtration	Order No.
30 microns	USF-30*
50 microns	USF-50*

*will not fit Tabletop Ultrasonic Cleaners at right

Basket Frame: 10.75"Lx9"Wx3.9"D Working Depth: 5.5"

ULTRA 1300 Dimensions:13"Lx10.5"Wx12"H

Volume: 2.6 Gal. Ultrasonic Power: 200W

> Electrical: 120V Heater: 400kW



- Remove excess oil from your Ultrasonic Cleaner • Replace every 4 to 12 weeks as needed
- Order No. OA-1-SM

3" x 14"

Table Top **Ultrasonic Cleaners**

- Digital Touch Controls
- Stainless Steel Construction
- Operator-Controlled Pause Function
- Movable Basket Timed Cycles
- Auto Safety Shut-off

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Description	Order No.
ULTRA 1300	USC-1300
ULTRA 2000	USC-2000
Oil Absorbent Tube	OA-1-SM



Dimensions: 21.5"Lx13"Wx12"H Basket Frame: 18.25"Lx10"Wx3.9"D

Working Depth: 5.5" Volume: 5.2 Gal. Ultrasonic Power: 400W Electrical: 120V



Heater: 500kW



- Quick-dry formula lets you handle parts in minutes
- Pigment won't smudge
- · Resists 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 a "fresh from the bead-blaster" look to all types of cast iron
- Aluminum Last Blast makes aluminum heads and parts look new
- . Color Last Blast in popular, factory colors
- Aerosol*

Color	Order No.
Cast Iron Gray	LB-1*
Aluminum Gray	ALB-1*
GM Black (Gloss)	CLB-58*
Ford/Chrys. Red	CLB-59*
Ford Blue	CLB-60*
Chevy Orange	CLB-61*

*Hazardous Goods Fees Apply When Shipped By Air

Hi-Temp Last Blast

- · Hard, chemical-resistant finish
- Withstands continuous heat up to 1200°F/648.9°C
- Won't deteriorate like ordinary paints
- For blocks, manifolds or any external parts subjected to high heat
- Dries tack-free in 10 min., then heat at 450°F/232.2°C for 1 hour to create a professional, durable finish
- Aerosol*

Color	Order No.
Cast Iron Gray	LB-1-HT*
Aluminum Gray	ALB-1-HT*
Black (Matte)	CLB-58-HT*
*Hazardous Goods Fees Apply	When Shipped By Air

Metal Markers

- No shaking needed
- Quick drying
- Withstands oil, grease and surface contact
- Won't lose its brilliance or legibility

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

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



2" Dispensing Pliers for Flexible Tubes

· 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



Disposable Assembly Wipes

- Snow-white
- · Shows dirt easily
- Pop-up box
- 9" x 17'
- · Ideal for a multitude of uses at the shop, at the track, even at home!



Quantity		Order No.
100		AW-100
220	YOUR BEST VALUE!	AW-250

Engine Assembly Lube

Cam-Shield®

5/8 oz. / 22.18mL Packet

for dry start-ups

8 oz./236.6 mL w/brush

1 gal./3.78 L w/pump

Size

4 oz. / 118.29mL Brush Top Jar

Assembly Paste

Camshaft

First Lube

00DS0

- 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

Compandie with all motor	Ullo
Size	Order No.
8 oz. / 236.6mL	FL-10
1 gallon / 3.78L	FL-128

· Provides anti-wear protection for

camshafts during break-in

• Use with mechanical and

• 2500 parts per million of Zinc

hydraulic camshafts & lifters • For racing, street, classic,

Blood Friction Master® Engine Assembly Lube Contains a low friction additive (PTFE)

Ideal for long-term storage

· Clings until dissolved by oil • Withstands start-up pressure

· Ideal for high performance

· Compatible with all motor oils

agricultural, diesel and marine camshafts

Forms a slick wall between moving parts

Order No.

AL-22-8

AL-22-10





Order No.

CSAP-625

CSAP-4

GOODSON



Press Fit Lube

- · 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 assembly
- Multiple applications
- · Eliminates scoring, gouging and galling of parts during press fitting

Description	Order No.
Aerosol 7 oz. / 207 mL	B-200*
Brush Applicator 200 mL	B-200L



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

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,
- 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



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



iron-clad guarantee

71



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
- Brake Rotor Flex-Hones®, pg. 114
- Plateau Soft Hones, pg. 33 & 81
- Honing Oil, pg. 73

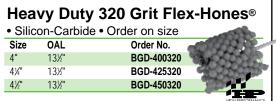
Silicon-Carbide Ideal for all materials including cast iron, bronze, phosphor bronze and aluminum.

Aluminum-OxideIdeal for hard surfaces such as Nicasil and hardened steel

Diamond
Ideal for heat treated steel,
high nickel stainless steel,
chromes or plated bores,
MMX aluminum alloys,
ceramics and carbide

Ordering The Right Flex-Hone®

SIZE: Order by actual cylinder ID. All Flex-Hones* are produced oversize. If your cylinder ID is non-standard, order the next larger size. For example, for a cylinder that has been machined to 3%" diameter, order a 3%" cylinder hone. The "flex" that's built into the Flex-Hone* will adjust to the size difference. NOTE: If purchasing the 120 Grit Heavy Duty Flex-Hones*, order on cylinder size. APPLICATION: Typically, when using chrome or cast iron rings, you should use 120 grit Flex-Hones*; when using Moly rings, use 240 or 320 grit Flex-Hones*.







Valve Guide Flex-Hones®

 Kit includes the most popular sizes for valve guide work

			400 Grit	320 Grit	240 Grit	
			Diamond	Silicon-Carbide	Silicon-Carb	ide
Size	mm	OAL	Order No.		Order No. I	ncl.
6 Pc	. Valv	e Guid	e 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"	VGFD-6.4MM	VGF-6.4MM-320	VGF-6.4MM	X
9/32"	7.0	8"	VGFD-7MM		VGF-7MM	X
5/16"	8.0	8"	VGFD-8MM		VGF-8MM	X
11/32"	9.0	8"	VGFD-9MM		VGF-9MM	X
3/8"	10.0	8"	VGFD-10MM		VGF-10MM	X
⁷ /16"	11.0	8"			VGF-11MM	X
15/32"	12.0	8"			VGF-12MM	
1/2"	12.7	8"		VGF-12.7MM		
33/64"	13.0	8"			VGF-13MM	
%16 "	14.0	8"			VGF-14MM	
19/32"	15.0	8"			VGF-15MM	

Right Hand Rotation Only!

For best results, always use with an ample flow of honing oil.

BG-210 BG-225		Order No.		rit Standard Order No. BH-625 BH-750 BH-820 BH-875 BH-1000 BH-1125 BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2250		CBF-175 CBF-200 CBF-225		Order No. BG-125320	OAL	Order No.
BG-210 BG-225	OAL	Order No.	8" 8" 8" 8" 8" 8" 8" 8" 8" 8"	BH-625 BH-750 BH-820 BH-875 BH-1000 BH-1125 BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½" 17½"	CBF-175 CBF-200	8"	BG-125320		Order No.
BG-225			8" 8" 8" 8" 8" 8" 8" 8" 8" 8"	BH-750 BH-820 BH-875 BH-1000 BH-1125 BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200				
BG-225			8" 8" 8" 8" 8" 8" 8" 8"	BH-820 BH-875 BH-1000 BH-1125 BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200				
BG-225			8" 8" 8" 8" 8" 8" 8" 8"	BH-875 BH-1000 BH-1125 BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200				
BG-225			8" 8" 8" 8" 8" 8" 8"	BH-1000 BH-1125 BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200				
BG-225			8" 8" 8" 8" 8" 8" 8"	BH-1125 BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200				
BG-225			8" 8" 8" 8" 8" 8"	BH-1250 BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200				
BG-225			8" 8" 8" 8" 8"	BH-1375 BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200				
BG-225			8" 8" 8" 8"	BH-1500 BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200	8"			
BG-225			8" 8" 8"	BH-1625 BH-1750 BH-2000 BH-2250	17½"	CBF-200	8"			
BG-225			8" 8" 8"	BH-1750 BH-2000 BH-2250	17½"	CBF-200	8"			
BG-225	100 ú		8" 8"	BH-2000 BH-2250	17½"	CBF-200	8"			2000
BG-225	VO Ú		8"	BH-2250			8"			
	500	788			17½"	CBF-225	8"			
BG-250	888		0"				_	BG-225320	8"	BA-22524
BG-250			O"						8"	BA-23724
			0	BH-2500	17½"	CBF-250			8"	BA-25024
									8"	BA-26224
BG-275			8"	BH-2750	17½"	CBF-275			8"	BA-27524
BG-300	13½"	BGD-300				Silve-	8"	BG-300320	8"	BA-30024
BG-325	13½"	BGD-325		100 m	9000		13½		13½"	BA-32524
BG-350	13½"	BGD-350		350	-	4400	13½		13½"	BA-35024
BG-375	13½"	BGD-375		35	200	10000	13½	BG-375320	13½"	BA-37524
	13½"	BGD-400		15	(0.00)	(T)				
BG-418				350 P	(0)00	Marie Const	13½	BG-418320	13½"	BA-41824
	13½"	BGD-425		7		8				
BG-438						옆	13½	BG-438320		
	13½"	BGD-450		8		55				
BG-462				3		4	13½	BG-462320	13½"	BA-46224
		BGD-500				8				
	17½"	BGD-550		8		8				
	17½"	BGD-600				22				
	171/"	BGD-650				원				
	BG-438 BG-462	BG-438 13½" BG-462 17½" 17½"	BG-438 13½" BGD-450 BG-462 17½" BGD-500 17½" BGD-550 17½" BGD-600	BG-438 13½" BGD-450 BG-462 17½" BGD-500 17½" BGD-550 17½" BGD-600	BG-438 13½" BGD-450 BG-462 17½" BGD-500 17½" BGD-550 17½" BGD-600	BG-438 13½" BGD-450 BG-462 17½" BGD-500 17½" BGD-550 17½" BGD-600	BG-438 13½" BGD-450 BG-462 17½" BGD-500 17½" BGD-550 17½" BGD-600	BG-438 13½" BGD-450 13½ BG-462 17½" BGD-500 17½" BGD-550 17½" BGD-600	BG-438 13½" BGD-450 13½ BG-438320 13½ BG-438320 13½ BG-438320 13½ BG-462320 17½" BGD-550 17½" BGD-600 17½" BGD	BG-438 13½" BGD-450 13½ BG-438320 BG-462 17½" BGD-500 17½" BGD-550 17½" BGD-600 1



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 many types of 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.

All-Purpose Grinding Coolant

A synthetic water soluble coolant that "Licks Rust". Dilute 30:1

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.(3.78L)	20 gallons	CGC-10
5 gal.(18.9L)	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)	30 gallons	SGB-10
5 gal.(18.9L)	150 gallons	SGB-50

Resurfacing Coolant

Non-foaming, non-nitrate coolant for single-piece or resurfacing wheels. 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.

ranoranty i i oi	a, g	middle: Dilate co
Size	Yield	Order No.
1 gal.(3.78L)	30 gallons	FG-1101-G
5 gal.(18.9L)	150 gallons	FG-1102-G

Cutting Oils

Knurlube		
Lubricate while knurling	J.	
Size	Order No.	- 11-12
8 oz.(236.6mL)	WLB-46-G	ooles
32 oz.(946.4mL)	WLB-47-G	
		10000

Cutting Aids (Aerosol*)

Helps tools cut through the hardest of metals Clings to the surface of the tool, keeping it cool while prolonging its life.

Size	Order No.
Cutting & Tapping Fluid	CTF-14*
Resurfacing Spray	HPS-16*

^{*}Hazardous Goods Fees Apply If Shipped By Air

Valve Seat Cutting Fluid

High-silicone lube reduces drag on cutters for a better finish, longer tool life. Dilute 9:1. Water soluble

Size	Order No.
16 oz.(473.2mL)	SCF-2
1 gal.(3.78L)	SCF-10

Bronze Reaming Oil

Cuts bronze build-up while reaming. Longer tool life Better valve guide finish.

Size	Order No.
16 oz.(473.2mL)	BW-303-G
32 oz.(946.6mL)	BW-303A-G
1 gal.(3.78L)	BW-305-G

This very fine oil prolongs the life of diamond laps. A light coat cools, lubricates and prevents wear

coal cools, lubricales and prevents wear.	
Size	Order No.
4 oz.(118.3mL)	LP-LO-4
8 oz.(236.6mL)	LP-LO-8

Tap Oil

Size

Size

1 gal.(3.78L)

1 gal.(3.78L)

Makes tapping easier & faster. Breaks down surface tension. Eliminates scuff marks & gouging. Reduces tap breakage & improves thread quality.

Size	Order No.
7.5 oz.(221.8mL)	TAP-O

Flywheel Grinder Table Lubricant

Helps extend flywheel grinder life.

This high-pressure oil is designed

Adhesive oil formulated to provide

protection for machine-tool ways.

extended lubrication and rust

to lubricate table bearings and ways. For all makes of flywheel grinders.

Machine Lubricants

Order No.

FG-1131-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®).

HO-10
HO-50
HO-550

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
5 gal.(18.9L)	RHO-50

Titanium Valve Grinding Aid

Mix ratio of 1:4. Add to valve grinding oil. Size Order No. 32 oz.(946.6mL) VGA-T32

Diamond Honing Oil (Brown)

Specially formulated to withstand the cutting pressures created when using our Diamond Valve Guide Honing System.

Size	Order No.
8 oz.(236.6mL)	DHO-8
1 gal.(3.78L)	DHO-10
5 gal.(18.9L)	DHO-50



Valve Grinding Oil (Light Yellow)

Universal valve grinding oil extends wheel life. Mineral based.

Size	Order No.
1 gal.(3.78L)	VGO-10
5 gal.(18.9L)	VGO-50



Severe Duty Valve Grinding Oil (Brown)

For grinding titanium, Inconel®, stainless steel and stellite valves

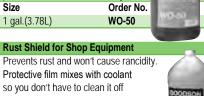
Size	Order No.
1 gal.(3.78L)	VGO-SD10
5 gal.(18.9L)	VGO-SD50



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





... another satisfied

WINONA VAN NO	RMAN,	VAN NO	RMAN,	64
PETERSON, KI (PK	(447S)		VM-1	AGA
1-EDGE CUTTER BIT				c.l
Fits Model Numbers	Туре	Bit Dia.	Order No.	/G-S
777, 900, 905, 944, 965	General	1/4"	VN-1	.c5
777S, 777S4, 944S, CB11, BC22XL	General	3/8"	VGS-1	10
	Hard Sleeves	3/8"	VGS-2	
	Sleeve Cutter	3/8"	VGS-3	11/3
888, 999	General	⁷ / ₁₆ "	VN-360	
Original Van Norman				
Fits Model Numbers	Туре	Bit Dia.	Order No.	1.179
777S, 944S	Hard Sleeves	3/8"	777-179	.05
HOLDERS FOR 6-EDGE TIPS - Us	e RT-6B and R	T-6BT		VN-135
Fits Model Numbers	Length	Height	Order No.	
777, 900, 905, 944, 965	11//8"	3/4"	VN-135	VN.
	21/2"	3/4"	VN-136	1
777S, 777S4, 944S	2"	¹³ / ₁₆ "	VN-122	
Bore Range: 2.65" to 4.50"				VN-122
Standard Carbide Replacement Cu	tter Tip		RT-6B	NN.
Titanium Coated Carbide Replacen	nent Tip		RT-6BT	1
MISCELLANEOUS PARTS			100	
Fits 6-Edge Holders Above	Description		Order No.	
	Bit Screw		VN-130	enlarged fo
WIK-WAY			1	clarity
1-EDGE CUTTER BIT FOR OE HOI	DEDE			
Fits Model Numbers		Bit Dia.	Order No.	
	Type	5/6"	KWL-R	KWL-R
F, FT, FL, FN, FR, FS, FW, FWS, FWSII, FX	Rough Finish	5/16"	KWL-R KWL-F	
Models After 1770	Sleeve Cutter	5/16"	KWL-C	WLF
HOLDER FOR 6-EDGE TIPS - Uses			KWL-C	
Fits Model Numbers		•	Order No.	W
	Length 2%16"	Height 5/8"		N. C.
FL, FN, FR, FS, FT, FW Standard Carbide Replacement Cu		78	KWL-116 RT-6B	
Standard Carbide Replacement Cu Fitanium Coated Carbide Replacem			RT-6BT	KWL
			KI-ODI	
PETERSON-BERG	50			
1-EDGE CUTTER BIT FOR OE HOI	LDERS			
Fits Model Numbers	Length	Bit Dia.	Order No.	
ACP-151-A, ACP-151-BL, SCP-151-P	13/4"	10mm	PB-151	PB
ROTTLER			_	1
1-EDGE CUTTER BIT FOR OE HOI	DERS			1
Fits Model Numbers	Length	Bit Dia.	Order No.	
All Bars	1 ³ / ₄ "	11/ ₃₂ "	RL-1	1
Sleeve Cutter for All Bars	13/4"	¹¹ / ₃₂ "	RL-1C	RL
HOLDER WITH 3-EDGE TIP - Inclu			NL-10	Y A
Fits Model Numbers	Length	Bit Dia.	Order No.	1,10
All Bars	1½"	11/ ₃₂ "		RI
HII DQI S	1/4	/32	RL-2H RL-2S	
Donlacoment Scrow for DL 2LL				
Replacement Screw for RL-2H Replacement Cutter Tip			RL-25	RLight

Bit Dia.

5/16"

Length

3/4"

Order No.

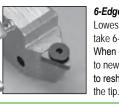
S-1



Single-Piece (Solid) Style
Holder with integral cutting bit.
Excellent cutting performance.
Resharpenable. When no
longer usable, replace entire
cutter.



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 Type
Lowest-cost choice. Holders
take 6-edge, replaceable tips.
When one edge wears, turn
to new surface. Never need
to resharpen – just replace

G FG-3B FG-3B

Cutters enlarged for detail

Replacement Tips & Parts

• Fit most boring bar holders

Α	В	С	Edges	Order No.
Stand	ard Ca	rbide		
.358"	.097"	.108"	3	SEQ-1
.345"	.094"	.140"	6	RT-6B
.447"	.124"	.149"	3	RT-FMC
.360"	.094"	.124"	3	FG-3B
.327"	.094"	.140"	3	RL-2T
Titaniı	um Co	ated		
.345"	.094"	.140"	6	RT-6BT

Van Norman, Peterson or Kansas Instruments OE Catspaw Screws For 777S or PK-447S & 944S

Catspaw Screws (1 each)	
Far #1 Chan (0 / 25")	
For #1 Shoe (0.625"L) 8	300-114
For #2 Shoe (0.740"L) 8	300-115
For #3, 4 & 5 Shoe (0.940"L) 8	300-116

Fits Model Numbers

NS, BCG, BCT, 220, 260



Mineral Based Honing Oil

- · Formulated for general purpose automotive machine shop honing
- Excellent for con rods, piston pins, king pins or general shop honing
- Compatible with most popular honing machines
- 5 Gal. (18.93L)
- Order No. MAN-845

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-845-5 and 2:1 to make MB-30-5
- 5 Gal. (18.93L)
- Order No. MAN-C

Mineral Based Multi-Purpose Honing Oil

MB-30-5

- High performance lubricity agents with sulfur extreme pressure additives
- Won't weld or tear the work-piece
- Works on metals from aluminum to zirconium
- 5 Gal. (18.93L)
- Order No. MB-30

Water Based **Honing Coolant** Concentrate

SUNNER

SCC CONCENTRATE

Use with diamond abrasives

- Suitable as a grinding coolant or general purpose metal working fluid for ferrous and nonferrous parts
- 5 Gal. (18.93L) makes up to 55 gal.
- Mix Ratio: 10:1

	Order No.	n
Hardened Steel		s
	SCC-205	• 5
Cast Iron		• C
new	SCC-605	

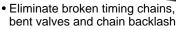
Vegetable **Based Honing** Oil

SUNNER

OIL

- · Petroleum free, ideal for general use
- No additives such as sulfur, chlorine or fluorine
- · Can be used with conventional vitrified honing abrasives and netal-bond superabrasives
- Gal. (18.93L)
- Order No. SHO-500

Tensioner Stop Block for Chrysler **2.7 DOHC**



- For VIN code R, U & V
- Mechanically supports hydraulic adjusters
- Use with plunger screw or bottom plate tensioners

Application	Order No.
For New Chain & Tensioner	DT-27
For Used Chain (modifications may be required)	DT-27U

Diamond Laps & Accessories for Rottler

· A light lap oil coat cools and lubricates

· Remove build-up with lint-free cloth and Dressing Stick while lap rotates

Diamond L	.aps		
Machine	OD	ID	Order No.
Rottler	1¾"	1⁄4"	LP-RFA
Accessorie	es		
Very Fine L	₋ap Oil ((4 fl. oz.)	LP-LO-4
Very Fine L	ap Oil	(8 fl. oz.)	LP-LO-8
Dressing S	tick		LP-DS

Other Diamond Laps available by Special Order

Boring Bar O-Ring Cutter Replaceable

 Cut grooves for O-rings to enhance gasket sealing for high-performance engines • Machines a groove .037" wide.

Tool Bits & Holders

Description	Application		Order No.
Tool Bits	Standard		KWVN-57
	Premium		KWVN-57C6
To avoid hres	akana jisa tha s	standard c	itter on cast

iron blocks only and the Premium cutter on hard blocks. CAUTION: Avoid column drop as this will break the tips as well.



Fine Lapping Oil

- · A fine, light oil
- Apply lightly to cool and lubricate

Description	Order No.
Very Fine Lap Oil (4 fl. oz.)	LP-LO-4
Very Fine Lap Oil (8 fl. oz.)	LP-LO-8

1 lb. Roll Copper or O-Ring Wire

- Copper: .0403" dia.
- Stainless: 0410" dia

• Stairiless0410	uia.
Description	Order No.
Copper	OWC-0403
Stainless Steel	OWS-041





- 1 Extend the range of your hone with the Master Holder and Stone Supports on the bottom of page 77
- 2 Use wtih ½" non-pistol grip drill
- **3** Heavy Duty units can also be used in manual hone cabinets



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	1/16" - 14	⅓₁₀" - 14	5/8" - 11	5⁄8" - 11	
Order No.	SNJ-10	SN-75	JN-95	AN-112	AN-815	GH-2555	

NOTE: Goodson is only authorized to ship Sunnen® products within the Western Hemisphere



Goodson





Mineral Based Honing Oil

- Formulated for general purpose automotive machine shop honing
- 5 gallons / 18.93L
- Not water soluble
- Order No. MAN-845

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

Sets have 2 holders with 4" integral stones

and 2 holders with aluminum wipers • Ideal for Cast Iron

and 2 holders with aluminum wipers • Ideal for Cast Iron						
Grit	Range		Finish	Sunnen	Order No.	
For Sunn	en [®] Junior Mic	lget Hone (S	SNJ-10)			
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)				
70 Grit	1.75" - 2.00"	44.5-50.8	120 Ra	S18-J17	SN-100	
150 Grit	1.75" - 2.00"	44.5-50.8	45 Ra	S18-J45	SN-200	
220 Grit	1.75" - 2.00"	44.5-50.8	32 Ra	S18-J55	SN-300	
280 Grit	1.75" - 2.00"	44.5-50.8	20 Ra	S18-J65	SN-500	
400Grit	1.75" - 2.00"	44.5-50.8	8 Ra		S18-J87	
For Sunn	en [®] Junior Ho	ne (JN-95)				
70 Grit	2.00" - 2.20"	50.8-55.9	120 Ra	T20-J17	JN-100	
	2.20" - 2.40"	55.9-60.9	120 Ra	U22-J17	JN-101	
	2.40" - 2.60"	60.9-66.0	120 Ra	V24-J17	JN-102	
150 Grit	2.00" - 2.20"	50.8-55.9	45 Ra	S20-J45	JN-200	
	2.20" - 2.40"	55.9-60.9	45 Ra	U22-J45	JN-201	
	2.40" - 2.60"	60.9-66.0	45 Ra	V24-J45	JN-202	
220 Grit	2.00" - 2.20"	50.8-55.9	32 Ra	T20-J65	JN-300	
	2.20" - 2.40"	55.9-60.9	32 Ra	U22-J55	JN-301	
280 Grit	2.00" - 2.20"	50.8-55.9	20 Ra	T20-J65	JN-500	
	2.20" - 2.40"	55.9-60.9	20 Ra	U22-J65	JN-501	
	2.40" - 2.60"	60.9-66.0	20 Ra	V24-J65	JN-502	
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 2¹³/₁₆" long; All other stones are 4" long

E	Bore Range				SUNNEI	N.	GOODSON
Grit	in	mm	Usage	Finish	Order No.	Sunnen No.	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 ¹
			Short/Blind	120 Ra	AN-100-71	M27-J17-71	HN-102S
			Harley / VW	120 Ra	AN-100F	M27-J17	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-101R1
			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
			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
			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			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 1.1	00.0 101.1	Short/Blind	32 Ra	AN-300-71	M27-J55-71	HN-302S
i iiiiSiiiig	3.5"-5.5"	88.9-139.7	Cast Iron	32 Ra	AN-301	N37-J55	HN-301S
	0.0 0.0	00.7 107.7	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-306S
& Sleeve Support	4.7 10.0	117.4 301	Odst IIOI1	32 Mu	AIT 000	VV-17 000	1111 0000
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
i iiio i iiiisii	2.7 7.1	00.0 104.1	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
	3.5 -5.5	00.7-137.7	Short/Blind	20 Ra	AN-501-71	N37-J65-71	HN-504S
			Hard Sleeves	12 Ra	AIT-VVI-71	1437-303-71	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	4.7 -13.0	117.4-301.0	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	G25-J87	HN-615S
Extra Fine	2.7"-4.1"	68.6-104.1	Cast Iron	8 Ra	M27-J87	M27-J87	HN-600S
Extra Fine Finish	2.7 -4.1	00.0-104.1	Hard Sleeves	8 Ra 5 Ra	M27-J85	M27-J85	HN-630S
1 1111311	3.5"-5.5"	88.9-139.7	Cast Iron	8 Ra	N37-J87	N37-J87	HN-601S
	3.0 -0.0	00.7-137.7	Hard Sleeves		N37-J85	N37-J85	
Cork	2.5"-3.3"	63.5-83.8		5 Ra 2-3 Ra	G25-C05	G25-C05	HN-631S
			Cast Iron*				
Polishing	3.3"-4.2"	83.8-106.7 101.6-142.2	Cast Iron*	2-3 Ra 2-3 Ra	MM33-CO5 NN40-C05	MM33-CO5 NN40-C05	
	4.0"-5.6"	1016-1477	Cast Iron*	/- < R2	NN4U-C05	IMMAH-CH5	

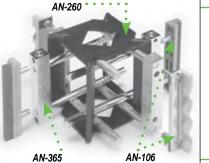
¹Ruby Aluminum-Oxide abrasive for longer life in rough cutting use



- 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.



Keyway Honing Stone Sets

- 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. 76)

 For Cas 	st Iron				DUNNEN
Grit	Range	mm	Finish	Туре	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

- 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	1		Goodson - 1 set	Sunnen - 6 sets
Use	Grit	Finish	Order No.	Order No.
Hard Blocks	70	60 Ra	GEHN-116	EHN-116
Air Cooled Cy	/l. 70	60 Ra	GEHN-123	EHN-123
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® Ma:	ster H	older Set	1	CK-3045A
Sunnen® Cer	ntering	Guide (incl	udes CK-3070) 1	CK-3090A
Sunnen® Gui	Sunnen® Guide Shoe & Screw Set			CK-3070
Sunnen® Gui	ide Sh	oe & Screw	Set 1	CK-3120
Goodson We	ear Sh	oe	2	C-3070K
Goodson Sta	abilizin	g Shoe	2	C-3120K
For Rod Honing Stones and Shoes see page 83				

be sure to follow us on Facebook and Twitter." Crystal, Goodson Advertising, 4 years of service

"Turn to the Goodson website to find information and place orders from anywhere at any time. And

CK-3070NY3X

Tooling for Honing Dart Blocks 🚽 & Ductile Sleeves

Recommended for Dart[™] Machinery

• Use with Sulfurated Rod Honing Oil (RHO-10 or RHO-50, p. 73) for all stone applications below

Description	Order No.
Honing Stone Sets For Portable Tooling	
80 Grit	N37-A25
220 Grit	N37-A55
280 Grit	AN-501
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 Guide Shoes, use erts™ Hardened Steel and Delron shoes above (1 of each)



Achieving a plateaued cylinder is a multi-step process. One that is far too detailed for the small space available here. Read more about this process on the Goodson Blog. Search for Plateau Honing 101.



- Ideal for high-performance rebuilding and rebuilding newer style engines that use low-tension rings
- Superior plateau finish so rings will seal immediately
- Reduces break-in time
- · Allows closer tolerances for improved compression, better oil control, lower emissions • Fits AN- or GH-series hones

For Portable	Hones and Hone	Cabinets - Includes	1 pair
AN/ GH-Styl	e 3.78" - 4.68"	96.0 - 118.9	MM-PHT-731
For Sunnen	CV / CK Hone He	ads – Includes 1 pair	
Standard	3.10" - 5.00"	78.7 - 127.0	C30-PHT-731
Note: Othe	ers available l	ov special order.	·

Original Ammco Honing Stone 82º 3" Dia. Chamfering Sets

For Ammco 500 Hones

- Includes 2 stones and 2 felt wipers
- · Use dry for best performance
- ½"W x 4"L

Grit	Qty	OE#	Order No.
60	4	#619	AHS-70
220	4	#620	AHS-220
400	4	#621	AHS-400

For Ammco 3800 Hones

- Includes 3 stones
- · Use liberal amounts of honing oil
- Clip on ¾"W x 4"L

Grit	Qty	OE#	Order No.
100	3	#4040	AHS-110
180	3	#3840	AHS-111
280	3	#3810	AHS-112
400	3	#3833	AHS-113

Cones & Mandrel

 Chamfer sharp edges for safe piston and ring installation • Handles all diameter cylinders or sleeves

• 82° abrasive cones measure 3½" (88.9mm) high with 2"/50.8mm base and 3" (76.2mm) top diameter

• 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

Description	Order No.	Incl.
3" Top Dia. Chamfering Cone Kit	CC-100	▼
Replacement %" Drill Adaptor	CC-100-1	X
Aluminum Oxide Chamfering Cones (red)		
40 Grit	CC-14	
50 Grit	CC-15	Х
80 Grit	CC-20	
Premium Zirconia Chamfering Cones (blue)		
50 Grit	CCZ-15	
80 Grit	CCZ-20	

Lisle® **Honing Stone Sets**

- Clip-on style mounts in seconds
- 5"/127mm long stones and wipers
- · Each set contains two stones and two felt wipers
- Use dry

Replaces		Order
Lisle® No.	Grit	No.
15500	80	HL-80
15510	180	HL-180
15520	280	HL-280
15590	500	HL-500





Why so many honing oils?

The HO series of honing oil was designed by the Goodson tech staff, to be clear and is formulated

to offer the machinist a more aggressive result when honing various cast iron and steel alloys. Some say it has a drier effect that allows faster stock removal while keeping the honing stones, clean and more free cutting.

We went with a clear oil instead of a dark because you can easily monitor the swarf content of the oil. Since you can see what kind of gunk you're accumulating, you can change filters and filter paper as needed to lengthen the over-all life of the oil in the honing tank. We recommend Goodson HO oil for Vitrified Stones only.

Goodson HO oil is true oil and it can be mixed with other brands of honing oils, such as the Sunnen MAN-845 and others. This oil is not designed to be mixed or used with any water-based honing solutions.

The RHO series honing oil was developed for high pressure honing such as connecting rod honing. This oil also contains additional lubricants to enhance honing these smaller diameters that are on the big end of the connecting rod generally made from iron and steel, but may also have a brass or bronze bushing that also needs to be honed to size. Goodson RHO oil is just what you need as it contains additives to make this possible.

Like Goodson HO oil, RHO is compatible with most other connecting rod honing oils but, again, never mix this oil with any water-based honing solution.

The newest addition to our selection of honing oils is the DHO series. This honing oil was designed for higher pressure that occurs when honing small diameters in materials such as Bronze, Manganese Bronze and other combinations of bronze materials using diamond abrasives such as the Goodson Hyper-Finish System and the Sunnen Diamond Sizing Tool.

Goodson incorporated an additional lubrication into the formula to allow the oil to act slicker when honing the smaller diameters in these softer bronze valve guide materials. This oil can be mixed with our RHO series of honing oil or with Sunnen MAN-845 types of honing oil. As with the other Goodson honing oils, Do Not mix

45° 5"/127mm dia. Chamfering **Cones & Mandrel**

- Large diameter cones chamfer the top of the cylinder to an exact 45° angle in one pass
- ½"/12.7mm steel shank permanently embedded in the base
- Cone height: 3½"/88.9mm
- Kit includes mandrel & one 36-grit cone (CC-30)
- Due to manufacturing process, abrasive color may vary

Description	Order No. I	Incl.		
5" Chamfering Cone	CC-130	•		
Chamfering Cones	Abrasive	Grit		
	Aluminum Oxide	36	CC-30	X
	(red)	50	CC-50	
		80	CC-80	
	Premium	36	CCZ-36	
	Zirconia	50	CCZ-50	
	(blue)	80	CCZ-80	

Clear 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

Order No.
HO-10
HO-50



service these days. Thank you and keep up the great work!" - Ray Temple, Waupaca, Wisconsin, Goodson customer since 2009

- Deglaze Nicasil cylinders with portable hones
- 150 Grit Aluminum-Oxide abrasive

Honing Stones for Nicasil

- · Resizing cylinders requires diamond abrasive
- For AN-style and GH-style hones

Inches	Metric	Order No.
2.500" - 3.300"	(64 – 84mm)	GG25-A43
3.300" - 4.200"	(84 – 107mm)	MM33-A43
4.000" - 5.600"	(102 – 142mm)	NN40-A43
		40

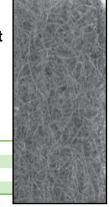


- For deglazing Nicasil with a CV/CK Honing Machine
- Diameter Range:
- 3.0" 5.0" (76.2-127.0mm) in standard automotive head 2.6" - 3.5" (66.0-88.9mm) in junior head
- 150 grit aluminum oxide abrasive
- · 2 stones per set; 6 sets per package
- Order No. EHU-412

1" Thick Rod Hone Filter Mat

- 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 x121.9 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



from the techxperts™

"Your company should hold a seminar on how to run a company. I received your products the day following my order.

Tips for Honing Nicasil

Nicasil is an electro-deposited (electroplated) composite of nickel and silicon carbide. Components are uniformly dispersed throughout the resulting material. Care must be used when honing this material as the plating is normally applied in thicknesses no greater than .003". If you remove too much of the Nicasil, you will need to have the cylinder bores re-plated. The wear ratio on Nicasil is 10:1 so .010" wear in a normal cylinder would be only .001" on Nicasil.

An aluminum-oxide abrasive is necessary for honing Nicasil as silicon-carbide is a part of the material and abrasives will not cut materials of similar density and

We recommend using our Rod Honing Oil when working on Nicasil. The additives that make it ideal for high pressure honing also help the aluminum oxide abrasive cut cleaner and faster on a Nicasil surface.



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

Standard Duty 240 Grit Aluminum Oxide Flex-Hones®

For Nicasil

Inch	mm	Order No.
21/4"	57.2	BA-225240
23/8"	60.2	BA-237240
2½"	63.5	BA-250240
25/8"	66.5	BA-262240
23/4"	69.8	BA-275240
3"	76.2	BA-300240

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%"	117.5	BA-462240
More	Flex-Hones®	on page 72

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"
- 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

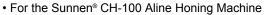


SUNNEN

Mandrel Driver for Align Honing Machines

- For Sunnen® CH-100 & similar align 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

Main Bore Align Hone Mandrels



 Hone unit includes 1 set of 10 stones and 1 set of 20 shoes (replacement stones & shoes available)

` .		Mandrels	Shoes (10/box)		
Range	mm	Order No.	Order No.		
2.4"-2.7"	61-69	10RY-2400G	RG-D		
2.7"-3.0"	69-77	10RY-2700G	RG-D		
3.0"-3.5"	77-89	10RY-3000H	RH-D		
Stones 5/box		RY24-J49 (recor	RY24-J49 (recommended for cast iron)		
fit all mandrels above		RY24-J45 (recor	RY24-J45 (recommended for aluminum)		

tech tips :

from the techxpertsTM

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 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. 73)
 NOT interchangeable with Flex-Hones

Hole Diame	ter 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 Guide Plateau Hones on page 33



Replacement PF Filter Cartridges

- Cartridges remove grit, metal and dirt from honing oil
- Fit Sunnen® CK-10, CV-616, LBB-1810, PF-150 and CH-100 honing machines

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				
Mfr.	Machine	Capacity		
Rottler	H85AXY	70 Gal.		
	H85A	70 Gal.		
	H85AX	70 Gal.		
	H86A	70 Gal.		
	H86AX	70 Gal.		
	H86AXY	70 Gal.		



ASSEMBLY & SAFET

deal, I began taking gallons of RHO honing oil and adding it to my tank to make it hone better, and sure enough I found that by adding the RHO honing oil, the stones cut faster without clogging."

George Livergood, Action Machine Shop, Goodson customer since 2010

Guide Shoe

CR-Series Mandrels

CR-Series Mandrels
Stones & Replacement Parts

Honing Stones for	Manual Honing*		
Tioning otones for	Manual Honling	Sunnen	Goodson
Fit Mandrels	Finish	Order No.	Order No.
CR-1450 to 1750	Medium	CR-2	
010 1100 10 1700	Fine	CR-4	HC-4
CR-1900 & Larger	Aluminum/	UN I	110 1
511 1700 ta 2angon	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	box)		
CR-1450 to 1750	Die Cast	CR-40D	C-40D
CR-1900 & larger	Die Cast	CR-50D	
- '	Bronze	CR-50B	
Wedge & Wedge Pl	lates		
CR-1450 to 1750	Wedge	CR-70	
	Small Plate	CR-75	
	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	lock For CR-2900) & Larger	LN-1337A
Sunnen® Shoe Clamps (4 + screws) for CR-1900 & larger CR-45A			
*Sunnen® honing stones include 2/box, Goodson include 1/box			

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 retracts stones • 275 - 450 RPM range
- Use with any ½"/12.7mm drill or larger
- Order No. GGN-150

"I bought your regular honing oil, and it does a fine job and it cuts well, however, when I found out the RHO honing oil might be a better



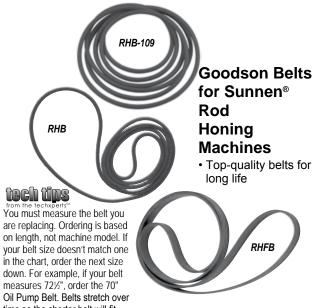
Rod Honing Oil

Includes additives for high pressure cutting

SUNNEN

- 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



time so the shorter belt will fit.		
Size	Order No.	
Oil Pump Belts (.250" dia.)	Manage Contraction of the Contra	
70"/1.78m	RHB-70	
74"/1.88m	RHB-74	B ₁
85"/2.16m	RHB-85	W
109"2.77m	RHB-109	
Flat Belts		
37¼" x 5/8"/945.9x15.9mm	RHFB-37	1440
45½" x ½"/1155.7x15.9mm	RHFB-45	Sec.
46½" x 5/8"/1181.1x15.9mm	RHFB-46	



Rod Honing Stones, Guide Shoes & Replacement Parts

Premium-quality • Choose Goodson or Sunnen®

4	1 Terrilar	n-quality • Crit	0030 000030	ii oi oui	Goodson		Sunnen®		
	Adaptor	Use			Goodson		Order No.		
	Adaptor		L Series Mandre				Order No.		
		Includes Retain					AK20-A		
The state of the s	Stones	Use	ici .		Order No.	Qty.	Order No.	Sunnen No.	Qty.
	Stolles		L720 - SL2300 Ma	andrel	Oluci No.	Qιy.	Order No.	Julilleli No.	Qty.
		Roughing	L120 - OL2300 IIII				SL-5		6
1000		General Purpos	20				SL-7		6
		Finishing	56				SL-13		6
			L Series Mandrel				OL-13		U
		Roughing	L Series Mariarei		HP-5	1	PL-5	P28-J27	12
		General Purpos	20		HP-7	1	PL-7	P28-J47	12
		Finishing	56		HP-13	1	PL-13	P28-J67	12
			IL Series Mandre		HE-13	'	FL-13	F20-J07	12
ACC.	1	Roughing	ic Series Mariure		HM-5	1	ML-5	P20-J25	12
	TO SERVICE SER	General Purpos	`^		HM-7	1	ML-7	P20-J47	12
		Finishing	SC .		HM-13	1	ML-13	P20-J47	12
			L Series Mandrel		TIM-13	1	WIL-13	F20-J07	12
		Roughing	L Series Mariure		HK-5	1	KL-5	K20-J25	12
MIZ.		General Purpos	20		HK-7	1	KL-7	K20-J25	12
NEN		Finishing	se		HK-13	1	KL-7 KL-13	K20-J47	12
VEN		Steel			UK-13	'	KL-13 KL-14	K20-367	12
	Bronze Gu				Order No.	Qty.	Order No.	N2U-A09	
	BIOIIZE Gu		L and ML Series	Mandrol	Order No.	Qty.	Order No.		Qty.
4	A .	.775"805"	19.7-20.4mm	IVIAITUTET			UA-B		2
		.838"899"	21.3-22.8mm				UB-B		2
		.900"993"	21.3-22.8IIIII 22.9-25.2mm				UC-B		2
		.994"-1.125"	25.2-28.6mm				UD-B		2
(A)	4	1.119"-1.250"	28.4-31.8mm				UE-B		2
	4	1.119 -1.250		nzo guido o	hoos outlast o	lio cast 4	-		2
			NOIC. DIO	ize guide s	hoes outlast o	iie casi 0	10 1.		



Almost anything from the Sunnen® Automotive line can be ordered through Goodson. Contact us for details!

Zinc Alloy Guide Shoes			Order No.	Qty.
For Sunnen® F	L and ML Series Mai	ndrel		
1.355" - 1.500'	34.4-38.1mm		WC-D	2
1.480" - 1.625'	37.6- 41.3mm		WD-D	2

Diamond Stone Dresser

- Diamond stone on durable metal tool
- Order No. MAN-700





Rod and Cap Grinding Wheels

• Fits Sunnen® Rod and Cap Grinding Machines• Recessed design

Size	Order No.
4"x1½"x1"	GR-305
101.6x38.1x25.4 mm	
6"x2"x1 ¹ / ₄ "	GR-805
152.4x50.8x31.8 mm	



Delta Cap Cutter Premium Grinding Wheel

- Fits Delta Cap Cutter Model #6200XHD
- 7" OD x 1½" thick x 5½" ID
- Plate mounted & balanced for smooth grinding Ideal for welded main caps
- Order No. GR-6200XHD



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



sized for

from the techxperts™ When pressing together always press the rod onto the bushing and **NOT** the bushing into the rod. This prevents the bushing from collapsing or folding up.



Includes

Order No.

Universal Tapered Pin Bushing Press Kit For Light & Medium Duty Diesel Engines

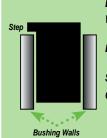
This press kit is specially designed to remove and replace tapered bushings in most common light to medium duty diesel applications. Don't spend time making a fixture that's dedicated to a single size. Our Tapered Pin Bushing Press Kit is ready to go when you receive it. All you need is the correct bushing driver to get started.

Choosing A Driver

- 1. Measure the wrist pin diameter.
- 2. Select a driver from the chart at right that is .030" to .040" smaller.

Description

- 3. Measure the thickness of the bushing.
- 4. Select the driver with a Step size that is 50% to 60% of the bushing thickness.



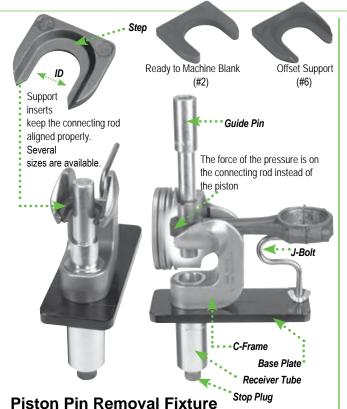
EXAMPLE:

Wrist Pin Dia. 1.185" Nearest Driver Dia.1.158" Bushing Thickness .150" 40% of Thickness 0.090" Select Bushing Driver TBD-31 Order No. TBD-RESIZE

Complete Wris	t Pin Bushi	ing Press Kit		TB-KIT		▼		
Wrist Pin Press	s Base (sel	ect drivers b		TB-BASE	▼	X		
Press Tube - S	mall (27x2	1x120mm)		TPT-SM	X			
Press Tube - L	arge (30x3	1x110mm)			TPT-LG	Х		
Wrist Pin Ring	(50x5x20/2	26mm)			WPR-001	X		
Wrist Pin Paral	lels (2) 8x1	I0x50mm			WPP-2	X		
Extended Man					TB-MANDREL	X		
Wrist Pin Bush	ning Drive	rs sold by d	imension, n	ot application				
	MM	Nominal	Actual	Step				
	25	1.000"	0.957"	0.063"	TBD-25		X	
	26	1.063"	0.990"	0.058"	TBD-26		X	
	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		X	
	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 Press Fit Lube (6 oz. Aerosol can) PFL-200*								

*Hazardous Goods Fees Apply When Shipped Air

PPE-1L



- 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 Block Chevy, use Support Insert #5, Support #2 is a blank, ready to be machined to your exact specifications.

		maci			3pccilication		
Descri	ption		ID	Step		Order No.	Incl.
Compl	ete Kit					PPE-7082	▼
Replac	ement C-Frai	ne				PPE-302186	X
Replac	ement	#1	0.945"	.100"		PPE-39889	X
Suppo	rt Inserts	#2	1.110"	.275"		PPE-39890	Х
	-000	#3	1.000"	.182"		PPE-39888	X
		#4	1.110"	.182"		PPE-39886	Х
		#5	1.000"	.100"		PPE-39887	Х
		#6	0.945"	.100"		PPE-39822	Х
Replac	ement Guide	Pins	0.859"			PPE-17940	Х
			0.897"			PPE-17936	Х
	1		0.926"			PPE-17937	Х
	19	Da	0.970"			PPE-17938	Х
	137		0.992"			PPE-17939	Х
Allen		1.032"			PPE-17941	Х	
		_	1.055"			PPE-17942	Х
	13"	,	1.087"			PPE-18729	Х
Replac	ement Parts						
J" Bolt	(Rear Suppor	t)				PPE-302224	Х
Wing N	lut					PPE-10588	Х
1¾6"/30	.2mm Stop Pl	ug				PPE-17830D	Х
Base F	Plate					PPE-17929	Х
Receiv	ing Tube					PPE-17931B	Х
Body C	Guide					PPE-17932B	Х
5½"/13	9.7mm Spring					PPE-17934	Х
Guide	Pin Driver					PPE-17935	Х
1%"/41	.3mm Externa	l Spira	al Lock			PPE-17945	х





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. I	ncl.
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	X
Fixture Base Block		PPE-1G	X
Pin Pressing Drifts	.760" dia.	PPE-1H	X
	.812" dia.	PPE-1J	X
	.875" dia.	PPE-1K	Х
	1.000" dia.	PPE-1L	X
Tapped Handle		PPE-1M	X
Threaded Rod		PPE-1N	X
Threaded Adaptor		PPE-1P	X
Rod Support		PPE-1GM	X

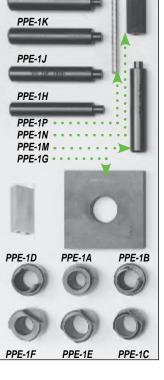
Kit now includes the rod support for tapered boss pistons



GOODSON Rod Support for Sunnen® Pin Press Tooling

- Remove late model connecting rods from tapered boss pistons
- · Aluminum construction prevents connecting rod damage • Fits Sunnen® tooling

Tod damago Tito Camillon	toom ig
Description	Order No.
GOODSON Rod Support	BRS-130
Sunnen® Reducing Ring	B-162



BRS-130

"Our easy-to-use, comprehensive catalog features more than 8,000 tool and supplies. Feel free to call if you're not sure what to order or if you have questions. We'll do everything we can to help you get what you need."

- Diane, Goodson Purchasing - 4 years of service

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



Piston Ring Expander

- Remove & install most rings
- · Tapered jaws
- 364" to 164" 1.2mm to 6.35mm ring width
- Order No. PRE-500

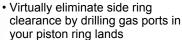


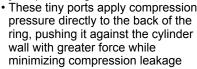
Band Ring Compressor Kits

· Install rings safely and easily · Hardened steel for durability

Trigger ratchet mechanism for tight compressions							
Description	Order No.	I	ncl.				
6 Pc. Band Ring Compressor Kit	GPS-98		•				
9 Pc. Band Ring Compressor Kit	GPS-99	▼					
Compressing 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	X					
2.625" - 2.875" 66.68-73.03	GPS-98T	X					
2.875" - 3.125" 73.03-79.38	GPS-98B	Х	X				
3.125" - 3.375" 79.38-85.73	GPS-98C	X	X				
3.375" - 3.625" 85.76-92.08	GPS-98D	X	X				
3.625" - 3.875" 92.08-98.43	GPS-98E	X	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						
5.500" - 5.750" 139.70-146.05	GPS-98K						
5.750" - 6.000" 146.05-152.40	GPS-98M						
6.000" - 6.250" 152.40-158.75	GPS-98U						
6.250" - 6.500" 158.75-165.10	GPS-98V						

Gas Porting Tools for High Performance





 Gas ports work best with piston-compression heights of 1.2" or less on engines running at high rpm (7,000 or higher)

 These simple Tool Kits take all of 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	Size	Order No.
Gas Porting Tool Kits	.043"	GPT-043
	.062" and 1.5mm	GPT-062
Replacement Drill Bits	.040" for GPT-043	GPT-040-DB
(5 pack)	.062" for GPT-062	GPT-062-DB

Minnesota Fast Freeze

- · Instantly chills seats and 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.
- Order No. MFF-8*



OODS

*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

Description	Order No.
Goodson Aerosol 6 oz. (170 g)	PFL-200*
Sunnen® Aerosol 7 oz. (198 g)	B-200*
Sunnen® Brush Applicator 200 mL (not shown)	B-200L

*Hazardous Goods Fees Apply When Shipped By Air

The Original Goodson Powered Ring Filers

American Made

 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"-5"/63.5-127mm diameter rings

Adjustable guide holds rings square to the cutting wheel

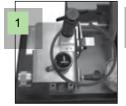
Table pivots past cutting wheel

· No open ways to gather grinding dust that causes premature wear

Handy knurled in-feed adjustment knob

High torque motor

ing. to que moto.	
Description	Order No.
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
Sundura® Canvas Machine Cover	GMC-PRF







Eccentric adjusts quickly and easily



Positive ring stop



Diamond Dresser is securely held in place

by the ring clamping pin

Table pivots past grinding



Built-in deburring wheel eliminates the need to hand hone or deburr rings after filing

Lighted

Rocker

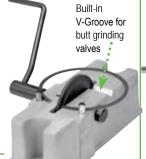
Switch



Manual Ring Grinder

- · Produce end gap rings squarely
- Heavy duty aluminum casting
- Precisely machined for long life
- Silicon-carbide wheel holds shape and produces clean precise cuts
- Includes1 grinding wheel (replacements available)
- Wheel measures
 2½" OD x ¾6" ID x ½" thick

Description	Order No.
Piston Ring Grinder	PRF-250
Replacement Wheel	PRF-250W





 Universal design lets you grind almost any make, type or size of piston ring

· Includes 1 diamond abrasive wheel

Description	Order No.
Universal Piston Ring Filer	PRF-500
Replacement Diamond Abrasive Wheel	PRF-870-DW

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



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).

Ring Squaring Tools

- · Minimizes ring overworking
- Helps keep the ring square while measuring ring gap
- Positive support
- Works well with narrow or light tension rings • 4 sizes available
- · Each size fits multiple bore sizes
- · Easy to use

Lasy	เบ นอะ		
Range i	n.	mm	Order No.
3.00" to	3.35" 76.20) to 85.09mm	RST-3000-3350
3.30" to	3.65" 83.82	2 to 92.71mm	RST-3300-3650
3.90" to	4.25" 99.06	to 107.95mm	RST-3900-4250
4.20" to	4.55" 106.68	3 to 115.37mm	RST-4200-4550

TOOLS

MADD DADTS

12"

"All of the business I have done with Goodson has been excellent. My sales rep is very helpful, polite and courteous. My rating of her and your tech staff on a scale of 1 to 10 is a 12! Keep up the good work."

– Richard Stokes, Carquest, Winchester, Virginia, Goodson customer since 1990

Vented top for better performance

Double wall insulated heat chambers with safety screen covering

Heating chamber opening measures 21/8" to fit standard eyes

Adjustable rod supports to accommodate most automotive connecting rods

High intensity LED lamps tell that elements have power and may be hot

Toggle switches with flip-up covers to prevent accidental activation

Elements operate on separate thermostats

Powder-coated, heavy-gauge steel housing for long life

Non-slip rubber feet provide stability



220V, Single-Phase Electric Rod Heater

• Includes a digital timer and 450° temperature crayon

includes a digital timer and 450 temperature cra	yon	
Description	Order No.	Incl.
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 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	



Worldwide Shipping

another satisfied

minum

Use with our Piston Pin Installing Fixture (PIF-25) sold separately (see page 89 for a complete description).



GOODSON

12"

Assemble 8 rods & pistons in as little as 5 minutes

Gas-Fired Rod Heater

- Needs no warm-up time start assembling rods and pistons almost immediately
- Heats piston pin ends so fast that the rest of the rod stays cool
- · Minimal cool down time after assembly
- · Ceramic lined enclosure contains flame, keeping 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 (see right)
- Propane model includes gas regulator and hose assembly
- · Natural Gas model hooks up to your natural gas service





Description	Order No.
Rod Heater for Propane	RH-50
Rod Heater for Natural Gas	RH-50N
600°F Temperature Crayon	TIC-600



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 Crayons

- Mark the workpiece before heating
- Melts when temperature is reached
- 3 melting points to choose from

Melting Point	Order No.
450°F / 232.22°C	TIC-450
500°F / 260.00°C	TIC-500
600°F / 315.56°C	TIC-600

Piston Pin Installing Fixture

Works great with Rod Heaters on previous page!

- 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
- Order No. PIF-25



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

Rod Clamping Vise

- Align rods and caps perfectly
- Smoth jaws won't damage connecting rods like an ordinary vise
- Clamp rods firmly to align parting faces while torquing rod bolts
- Clamp in a vise or bolt to a workbench
- Order No. RCV-20



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



The best engine pre-lube tank in the industry!



8¹ long, ¹/₄" diameter hose gives you lots of length to work with



Improved ON/Off Ball Valve



Built-in pressure gauge shows tank pressure



Patent-pending Filler Cap.
Designed to safely release
any pressure left in tank after
draining.

10 Quart Engine Pre-Lube Tank

- 10 quart capacity is big enough for all but monster engines
- Corrosion-resistant aluminum tank eliminates contamination from rust Large 1³/₄" diameter filler hole lets you pour oil right from the bottle no funnel required Includes 3 fittings (¹/₄"x¹/₄", ¹/₄"x¹/₅" and GM LS-1) Replacement Parts available

(74 X 74 , 74 X 78 and OW EO 1)	replacement i alto avallas
Description	Order No.
10 Quart Pre-Lube Tank	EPL-110
Replacement 8' Hose	EPL-HOSE
LS1 Fitting	EPL-LS1
1/4" Replacement Fitting	EPL-14
1/8" Replacement Fitting	EPL-18
Replacement Gauge	EPL-CG
Replacement Cap Gasket (only for discontinu	ed EPL-120) EPL-G
Mini Ball Valve	EPL-MBV



EPL-LS1

full service

"Technology has merely 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 for you, whether you order by phone or through our website."

- Cheryl, Goodson Computer Systems Analyst - 23 years of service

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



Adjust size to fit filters from 2½" to 6½" diameters

Stud mounts in center hole of the oil filter

Includes 1 Replaceable Blade

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

includes a single blade	
Description	Order No.
Oil Filter Inspection Tool	FIT-1-G
Replacement Cutter Blade	FIT-W

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	⅓"/15.9mm	TI-25
Big Block	3/4"/19.1mm	TI-30



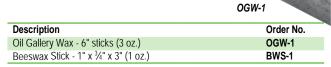
PPS-250

Oil Gallery Brushes Steel Wire 3-pc. Kit Size Length

Steel Wir	е		Order No.	Incl.
3-pc. Kit	Size	Length	OGB-SK	▼
	¹⁄₄" x 3"	24"	OGB-1	X
	3⁄8" x 3"	24"	OGB-2	X
	5⁄8" x 3"	24"	OGB-3	X
Nylon Bristle				
5-pc. Kit	Size	Length	OGB-KIT	▼
	³⁄8" x 3"	34"	OGB-38	X
	½" x 2½"	34"	OGB-42	X
	5⁄8" x 3"	34"	OGB-5	X
	³ ⁄ ₄ " x 3"	34"	OGB-7	X
	³⁄4" x 3"	40"	OGB-8	X

Oil Gallery Wax

- Preheat the part to be removed, apply wax to its base, allow to cool and remove the part
- Choose between wax sticks and blocks of beeswax





Plug Removers

BWS-1

- Power plugs out with an impact wrench
- Threaded plug inside prevents bit from backing into the holder
- ½" drive fits impact wrenches
- Hardened tool-steel holder with lifetime breakage guarantee
- Tool-steel bit can be reground or replaced
- · Set screw holds bit firmly in place

Description	Si	ze	Order No.	Incl.
Plug Remover Kit	in	mm	PPS-KIT	•
Replacement Tool	³ ⁄16"	4.76	PPS-187	X
	1/4"	6.35	PPS-250	X
	9/32"	7.14	PPS-281*	X
	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).

Honall Head

Adaptor

High **Performance** Lifter Bore **Burnishing Tool Kits**

· Sized for high performance aluminum blocks such as Top Fuel or Top Alcohol Dragsters and **Funny Cars**

Description	Order No.	Incl.	
Complete Set	LBB-625-KIT		\blacksquare
	LBB-1000-KIT	•	
15" Slide Shaft	LBB-1	X	X
Slide Hammer	GAO-2	X	X
Lifter Bore Burnishing Balls	i		
1.0000" dia.	LBB-1.000	X	
1.0010" dia.	LBB-1.001	X	
1.0625" dia.	LBB-1.0625		X
1.0635" dia.	LBB-1.0635		X
Accessories			
Jam Nut	LBB-NUT	Х	X
Storage Case	LBB-CASE	X	X
Lifter Bore Brushes			
⁷ / ₈ " (.875") dia.	LBB-875		
1" (1.00") dia.	LBB-100	X	
1 ¹ / ₈ " (1.125") dia.	LBB-1125		X

Lifter Bore Burnishing Tool

- Eliminates burrs caused by shot blasting
- Drive the burnishing tool into the bore with a soft hammer, then slide-hammer it back out
- 60Rc burnishing balls deburr faster
- Won't oversize the bore

Description	Order No.		
Full Kit:	LBB-1500		▼
Slide Shaft	GAO-1		X
Slide Hammer	GAO-2		X
Jam Nut	LBB-NUT		X
Lifter Bore Burnishing I	Balls		
Complete Set	LBB-3SET	▼	
GM .845" dia.	LBB-GM1	X	X
Ford .876" dia.	LBB-F01	X	X
Chrysler .906" dia.	LBB-CR1	X	X



- Minimizes the chance of frost plug distortion and leakage
- Two handle lengths use the short handle for rebuild jobs, and the long handle for engines still in the vehicle
- · Kit includes five sizes of installing plugs, ring nut and two steel handles • All items also available individually

Description			Order No.	Incl.
Complete Kit			FP-20	▼
	in.	mm		
Installing Plugs	3/4"	19.1	FP-1	X
	1"	25.4	FP-2	X
	1 ¹ / ₄ "	31.8	FP-3	X
	1 ¹ / ₂ "	38.1	FP-4	X
	13/4"	44.5	FP-5	X
Ring Nut			FP-6	X
Steel Handle	18"L		FP-7	X
	6"L		FP-8	X

Retainer for 6.75" Mandrel

Retainer for 6" Mandre

Wedge for 6.75" Mandrel

Wedge for 6" Mandrel

6.75" Extended Mandrel



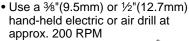


6" Mandrel

Truing Sleeve

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 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

complete un	IIL	
Description		Order No
Honall Head		P-180
Adaptor		PAK20-A
Roughing Stone (2	80 Grit) 12/box	Y20-J67
Finishing Stone (40	00 Grit) 12/box	Y20-J87
Standard Lifter Bo	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 L	ifter 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



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

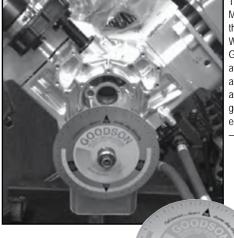


Universal Cam Bearing Tool

- Remove and install hundreds of sizes of cam bearings with just four mandrels!
- Expanding Mandrels cover a 1.370"-2.250" range
- Adjusts to undersize bearings so you can remove and install them from virtually any block

• In	terchanae	eable with	h Dura-E	Bond
------	-----------	------------	----------	------

Description	l .	Order No.	Incl.
Universal C	am Bearing Tool	CBT-300	▼
Replacemen	nt Segment with Sleeve		
Max Dia.	1.370"	CBT-5M	Х
	1.682"	CBT-6M	X
	1.875"	CBT-7M	х
	2.250"	CBT-8M	X
Replacemen	nt Backing Plate		
Max Dia.	1.370"	CBT-5W	Х
	1.682"	CBT-6W	X
	1.875"	CBT-7W	Х
	2.250"	CBT-8W	X
Replacemen	nt Neoprene Sleeve		
Max Dia.	1.370"	CBT-5NS	Х
	1.682"	CBT-6NS	X
	1.875"	CBT-7NS	X
	2.250"	CBT-8NS	X
Drivers			
Length	5" (pictured above)	CBT-1B	X
	24"	CBT-2B	
	36" (pictured above)	CBT-3B	Х
	48"	CBT-4B	
Miscellaneo	ous Replacement Parts		
11/16" Expand		CBT-3E	X
15/4" Expand		CBT-4E	X
½"x13 Stud	A 13	CBT-1S	Х
Guide Cone		CBT-1C	X
Threaded In	npact Cap (New Style)	CBT-300-CAP	X
Steel Storag	ge Rack	CBT-300-WR	X
INTERCHA	NGEABLE WITH DURA-BOND		



This is one of those 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 great equipment.

 Dean Dubbin, DMP
 Awnings (NHRA Top Alcohol Dragster),
 Goodson customer since 2010

DW-MK2

Degree Wheel

 Check cam timing, duration and overlap

• Degree wheel measures 11" / 279.4mm dia. with 1½"/47.6mm hole • Small ID Adaptor Kit mounts it to cranks using ∑6" to ¾" fasteners or use the turning tool for that engine to mount the wheel

• Use with 1/2" drive ratchet

/		
Wheel / Adaptors	Order No.	Incl.
Automotive Degreeing Kit	DW-KIT-2	▼
Degree Wheel	DW-11	X
Small ID Adaptor Kit	DW-MK2	X

Lifting Sling

• Lift up to 1800 lbs. (816.5 kg) safely and easily

• 1" x 36" (25.4x914.4mm) looped sling

- Secure the sling to the workpiece and move it with your overhead hoist
- Durable, nylon webbing
- Not for use with caustics or temperatures exceeding 190°F / 87.8°C
- Order No. LS-3



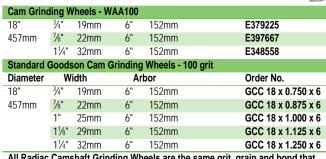
Bearing Scraper

- Eliminate bearing high spots after installation to assure correct oil clearance
- Solid, wire wound, wood handle for strength and resistance to splitting
- 4" / 101.6mm blade with 3 cutting edges
- Order No. BS-30

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 manufacturer 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 makes all Camshaft Grinding Wheels to your specifications in-house for fast turn-around and delivery. Choose from the sizes below or custom order your cam wheel today!

Cam Grinding Wheels - WAA54-L5V1					
Diameter	W	idth	Arl	oor	Order No.
18"	3/4"	19mm	6"	152mm	E341420
457mm	7/8"	22mm	6"	152mm	E335351
	1"	25mm	6"	152mm	E335352
	11/8"	29mm	6"	152mm	E335353
	11/4"	32mm	6"	152mm	E335354
Cam Grino	ding V	/heels - 4	3A602-K	3-V1	
18"	3/4"	19mm	6"	152mm	E342030
457mm	7/8"	22mm	6"	152mm	E339945
	1"	25mm	6"	152mm	E342031
	11/4"	32mm	6"	152mm	E348558
Cam Grino	ding V	/heels - 7	'0BL801		
18"	3/4"	19mm	6"	152mm	E416880
457mm	7/8"	22mm	6"	152mm	E427392
Due to the manufacturing process, actual colors may vary					



All Radiac Camshaft Grinding Wheels are the same grit, grain and bond that you have ordered in the past.

Torque-Angle Indicator

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



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				
31/2"	18½"	CWB-35				
4"	18½"	CWB-40				
41/2"	18½"	CWB-45				
5"	18½"	CWB-50				



Cam Bearing Flex-Hones®

Cam Dresser

.094" Face Width

.370 Face Length

Order No. 2V9507

• Fits most cam grinders

• 7/16" OD

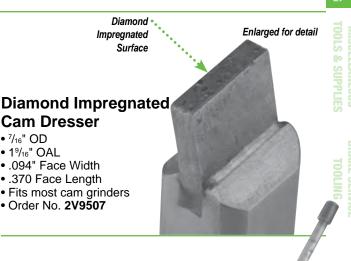
• 19/16" OAL

• Silicon-Carbide globules laminated to high density nylon

• Includes 18" drive rod

• 180 grit

Inch	mm	Order No.
13/4"	45	CBF-175
2"	51	CBF-200
21/4"	57	CBF-225
21/2"	64	CBF-250
23/4"	70	CBF-275



93

Also Includes 18" Drive Rod

BRM

"The Mach-B division of Goodson offers many services such as ANSI compliant speed testing, balance testing, grinding wheel shaping, resizing and more." – Jon, Goodson Production, 36 years of service

Select the shape **Goodson crankwheels are** made-to-order in-house Hub Other sources stock finished wheels, which makes it virtually impossible to stock a full size range. 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 **Straight** have the right wheel because we take a Type 1 straight wheel, size it, shape it, speed test it and ship it. Recessed 2 Sides For future reference write down your Crank Wheel Number (s) **Tapered**

Select your wheel grade:

WAA Superior Grade - 54 grit Excellent dimensional accuracy, corner radii and surface finish. For multiple applications including weld grinding. Ideal for grinding anything from cast to steel. Finishing and roughing wheel. Aluminimum-oxide abrasive for light to medium stock removal.

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.

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, high-performance, industrial and billet steel.

Recessed 1 Side

Increase coolant flow with Crankwheel Slotting

Slotting facilitates the flow of coolant to the thrust and radius areas of the crankshaft. Don't waste time waiting on other suppliers who outsource their crankwheels for slotting – Goodson has a shop full of equipment, so we slot wheels in house!

Grade WAA - Superior GCD - Premium GCH - Superior	Diameter Diameters are available from 18" to 36" in most grades.	Face Width Most sizes from ³ / ₄ " to 2 ⁵ / ₈ " (custom widths are no extra charge).	Arbor Size Arbor size of your grinder. Any arbor hole from 3" to 12".	Machine Identify the make and model of your grinder.	Shape We send the standard shape for your grinder unless you specify otherwise.
Grade		x Face Width seels are delivered .015" over			x Shape

Radiac NORTON NORTON

Radiac	NORTON NORTON	
Abiccires .		

		Alconomies at the control of the con	NORTON	NORTON
		WAA	GCH	GCD
Dia.	Face Width	*****	J	COD
	Vulcan 14, 15			
18"	3/4"-1"			
3" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
	149/64"-2"			
Fits Storm	Vulcan 15, 15 Specia	al. 1550. 1648		
20"	3/4"-1"			
3" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
	1 ⁴⁹ / ₆₄ "-2"			
Fits Kwik-V	Vay / Lempco			
20"	3/4"-1"			
33/4" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
	1 ⁴⁹ / ₆₄ "-2"			
Fits Kwik-V	Way / Lempco 519 &	Storm Vulcan	15A (early)	
22"	³ / ₄ "-1"			
5" Arbor	11/64"-11/4"			
	111/64"-11/2"			
	133/64"-13/4"			
	149/64"-2"			
Fits Peters	on Berco 180			
22"	³ / ₄ "-1"			
8" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
	1 ⁴⁹ / ₆₄ "-2"			
	Vulcan 15A (late), 15	SA Special; RM	IC/Robbi REX-	1200
24"	³ / ₄ "-1"			
5" Arbor	11/64"-11/4"			
	111/64"-11/2"			
	133/64"-13/4"			
	149/64"-2"			
	Nay / Lempco KGA a	nd NKG Series	S	
24"	3/4"-1"			
5" Arbor	11/64"-11/4"			
	117/64"-11/2"			
	133/64"-13/4"			
- N N.	14%4"-2"			
	an 438, 448, 460, 469		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.1.1.000
	n Norman/Zanrosso	CG-210 (early); Storm Vulca	n Sciedum 200
24"	³ / ₄ "-1"			
8" Arbor	1 ¹ / ₆₄ "-1 ¹ / ₄ " 1 ¹⁷ / ₆₄ "-1 ¹ / ₂ "			
	1 /64 - 1 /2 1 3 3/64 " - 1 3/4"			
	1 /64 - 1/4 1 49/64" - 2"			
Ctorm Vulc				
Storm Vulc				
	³ / ₄ "-1" 11/ ₄ " 11/ ₄ "			
5" Arbor	11/64"-11/4" 117/64"-11/2"			
	1''/64 - 1'/2 1'3'/64"-13'/4"			
	149/64"-1"			
ΛΜC V110) 225, Caladius	0 200 220 1/04	Norman 420
	0; Peterson Berco 180			
26"	65, 475, 476; Winona 34"-1"	van norman (.u-210 (idle), C	G-04U
26 8" Arbor	74 - I 11/64" - 11/4"			
O AIDUI	17/64 - 17/4			
	1 '/64 - 1 /2 1 3 3/64 " - 1 3/4 "			
	149/64"-2"			
	21/64"-21/4"			
	∠/04 -∠/4			

		a trainer company			
		WAA	GCH	GCD	
Dia.	Face Width				
Schou 150	0/270, 1600, 260				
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"				
Peterson E	Berco 260; SV Scled	lum 230, 270/28	30; Zanrosso Mi	to 250;	
Van Norma	an 400, 438, 439, 47	75, 476, 666; RI	MC/Robbi REX-	1500	
28"	3/4"-1"				
8" Arbor	11/64"-11/4"				
	1 ¹⁷ / ₆₄ "-1 ¹ / ₂ "				
	133/64"-13/4"				
	1 ⁴⁹ / ₆₄ "-2"				
	21/64"-21/4"				
	2 ¹⁷ / ₆₄ "-2 ⁵ / ₈ "				
Seest MC6	52				
30"	³ / ₄ "-1"				
6" Arbor	11/64"-11/2"				
	133/64"-13/4"				
	1 ⁴⁹ / ₆₄ "-2"				
Zanrosso I	Viito 280; Storm Vul	can Scledum 27	70/280;		
RMC / Rob	bi REX-1800, REX	2200L			
30"	3/4"-1"				
8" Arbor	11/64"-11/4"				
	1 ¹⁷ / ₆₄ "-1 ¹ / ₂ "				
	1 ³³ / ₆₄ "-1 ³ / ₄ "				
	149/64"-2"				
	21/64"-21/4"				
	2 ¹⁷ / ₆₄ "-2 ⁵ / ₈ "				
	, K1500, K1800; Va	n Norman 467,	477; Zanrosso		
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"	0.5.111557	222511 551/ 0		
	Berco 280, 300; RM		800RM; REX-2	200,	
	RM, REX-2700RM,	REX-3100RM			
32"	³ / ₄ "-1"				
12" Arbor	11/64"-11/4"				
	117/64"-11/2"				
	1 ³³ / ₆₄ "-1 ³ / ₄ " 1 ⁴⁹ / ₆₄ "-2"				
	–				
	21/64"-21/4"				
2 ¹⁷ / ₄ "-2 ⁵ / ₄ " Peterson Berco 300, 350; Storm Vulcan Scledum 250; RMC /					
36"	(-2200M, 2700M, 31 3/4"-1"	i ooivi; winona \	ran Norman II	<u> </u>	
12" Arbor	11/64"-11/4"				
	1 ¹⁷ / ₆₄ "-1 ¹ / ₂ " 1 ³³ / ₆₄ "-1 ³ / ₄ "				
	149/64"-2"				
	* * * *				
	21/64"-21/4"				

NOTE: All wheels are delivered .015" oversized to allow for side



iron-clad guarantee 95

EBUILDING

CLEANING, ASSEMBLY & SAFETY

SHORT BLOCK

GRANKSHAFT/ FLYWHEEL GRINDIN

TOOLS & SUPPLIES

TOOLING

Reluctor Ring Installation Tool

• All steel construction

- · Adjustable depth for popular flange widths
- Fits Generation III engines: 4.8/LR4, 5.3/LM7 and 6.0/LQ4
- Aligns GM# 12559353 & 12586768 Sensor Rings on the crankshaft in the correct phased position
- Indexes in dowel hole of flange to dowel hole in sensor ring • Extended length fits manual transmission flange



• US Patent No. 7,716,827

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



Billet Steel Reluctor Ring

- For LS1 & LS6 Engines
- Single Piece

24 Tooth

• Order No. RR-24T

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

Dampener Installer

- Install harmonic dampeners without thrust bearing damage
- · Screw tool into hole in the crankshaft end
- Use the nut and thrust bearing to draw the harmonic dampener onto the crankshaft snout
- Fits \%6" x 20" and \%" x 20" holes • 3 piece set
- Order No. DIT-2





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



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



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, the 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

of friedsared for fatale reference	
Description	Order No.
Stroker Mimic™ Fixture for 350 Blocks	SM-350
Replacement Pointer for SM-350	SM-351

- Semi synthetic
- Non-nitrite

& Crank

Grinding

Coolant

Cam

- 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

CGC-10

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

Hard Silicon-Carbide

- 1" x 1" x 6"
- Use to deglaze wheel side

GOODSON

CGC-50

- · Removes material with light pressure
- Order No. **GG-112**

Dense **Granular Norbide**

DS-NOR

- ³/₁₆" x ¹/₂" x 3"
- For fine tuning radius and side relieving wheels
- Order No. **DS-NOR**

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

tech ting Stav Safe In The Workplace! Always wear protective gear.

Caliper

sold separately

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 ner nack

 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 	PALE TO BE DESTRUCTION OF THE PARTY OF THE P
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



Crankshaft Journal Radius Gauge

- 16 radii ... 1/32" to 17/64"
- Measure radii or reground journals quickly
- Blades are clearly marked in 1/64" increments
- Use in holder or remove to use blades separately
- Order No. RG-16

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 121 for our selection of calipers

Universal Quick-Set Crankgrinder **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 121



Starrett

97

made-to-order crankwheels

Chris, Goodson ASE-Certified Master Machinist, 31 years of service

Premium Aluminum-Oxide Crank Polishing Belts

- J-weight cloth backing with a high strength mylar joint
- Phenolic resin-over-resin
- Aluminum oxide abrasive
- Polish better and outlast other standard polishing belts
- Color may vary due to manufacturing process

STRAIGHT-EDGE (10 per box)				
Length	Width	600 grit	800 grit	
60"	3/4"	R60x¾x600	R60x¾x800	
	1"	R60x1x600	R60x1x800	
64"	3/4"	R64x¾x600	R64x¾x800	
	1"	R64x1x600	R64x1x800	
72"	3/4"	R72x¾x600	R72x¾x800	
	1"	R72x1x600	R72x1x800	
77"	1"	R77x1x600	R77x1x800	
91"	3/4"	R91x¾x600	R91x¾x800	
	1"	R91x1x600	R91x1x800	
All abrasives are guaranteed for 1 year from the original purchase date				

Micro Finish Scotch-Brite Style Abrasive Rolls

"If you're not sure what to order or if you have any questions, give us a call! We're here from 8am to 5pm Central Time, weekdays to serve you. We can help you get the most from our products and your equipment."

- · Ideal for hand polishing of high-performance crankshafts
- Non-directional polish
- Won't remove material
- · Aluminum oxide abrasive with a high-strength resin bond
- Measures: 3/4"x10"
- 1 Per Box
- Order No. GFR-750



Premium Ceramic Micro Polishing Belts

- · Recommended to use with our polishing rouge to enhance the finish
- Structured Abrasive
- 5 per box

o por box	
Size (LxW)	Order No.
60" x 1"	GSW-60x1
64" x 1"	GSW-64x1
70" x 1"	GSW-70x1
72" x 1"	GSW-72x1
77" x 1"	GSW-77x1
Polishing Rouge	CPR-16





Crankshaft Polishing Belt Sample Pack

Want to try some different polishing belts but don't want to buy a large quantity? Here's your chance! These sample packs include 5 of our most popular belts. Contents may vary.

Belt Length x Width	Order No.
64" x 1"	PCP-64PAK
72" x 1"	PCP-72PAK

Crankshaft Grinder **Steady Rest Shoes** for Peterson-Berco

- 5/16" thick
- Use same shoe for upper and lower replacement
- Order No. RBE-200

Heavy Duty Steel Stamps

- For hard materials
- · Order in sets or individually
- For a single stamp, state character desired after Order No.

Example: SCH-1/4(3) Single Character stamp, 1/4" size, Number "3"

	Number Sets			
Char. Size	Shank Size	Order No.		
1/8"	⁵ ⁄16"	SFH-1/8		
³ / ₁₆ "	3/8"	SFH-3/16		
Single Characters				
³ / ₁₆ "	3/8"	SCH-3/16		
1/4"	⁷ /16"	SCH-1/4		

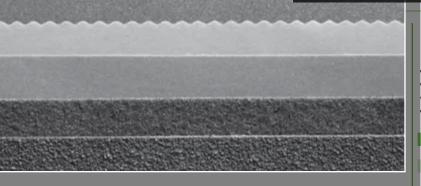
Crank Welding Plug Rods

- 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

Size		Order No.
.250"		CWPR-250
.312"		CWPR-312
.375"		CWPR-375







Standard Polishing Belts

Good quality, flexible, woven cloth-back belts polish better and outlast other general-use belts. New belts can be used to remove minor journal damage without grinding while broken-in belts give a fine finish. Aluminum oxide abrasive. 2-layer glue bond. Colors may vary due to manufacturing.

		STANDARD STRA	IGHT-EDGE (10 per bo	x)
Lgth	Width	240 grit	320 grit	400 grit
60"	3/4"		60x3/4x320	60x3/4x400
	1"	60x1x240	60x1x320	60x1x400
64"	3/4"	64x ³ / ₄ x240	64x ³ / ₄ x320	64x ³ /4x400
	1"	64x1x240	64x1x320	64x1x400
	1½"	64x1 ¹ / ₂ x240		
	13/4"		64x1 ³ /4x320	
	2"		64x2x320	
70"	3/4"		70x3/4x320	
	1"	70x1x240	70x1x320	70x1x400
	11/4"		70x11/4x320	
72"	3/4"	72x ³ /4x240	72x ³ /4x320	72x ³ /4x400
	1"	72x1x240	72x1x320	72x1x400
	11/4"	72x1 ¹ / ₄ x240	72x11/4x320	
	13/4"	72x13/4x240	72x13/4x320	
	2"	72x2x240	72x2x320	
77"	3/4"		77x3/4x320	
	1"	77x1x240	77x1x320	77x1x400
	13/4"		77x1 ³ /4x320	
	2"		77x2x320	
91"	3/4"		91x3/4x320	
	1"		91x1x320	91x1x400
	11/4"			
	13/4"		91x1¾x320	
	2"		91x2x320	

All abrasives are guaranteed for 1 year from the original purchase date

Standard Scalloped Edge Crankshaft Polishing Belts

- 10 per box 320 grit 1" wide
- Ideal for radius polishing

Length	Order No.
64"	S64x1x320
72"	S72x1x320





Yell Was Store belts and abrasives in a dry, moisture free area.

Fine Finish

- Aluminum-oxide Flexible, woven back
- 2-layer resin bond
- Very aggressive
- Sharper grains cut faster without sacrificing finish The "Blue Backed Belt"

	Fine F	Fine Finish (10 per box)					
	Lgth	Wdth	320 grit	400 grit			
	60"	1"	G-60x1x320	G-60x1x400			
	64"	1"	G-64x1x320	G-64x1x400			
Ī	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
 Aluminum-oxide
 Aluminum-oxide

		Non-directional linish	
Micro	-Finish	1 per box)	No Rouge Needed
Lgth	Wdth	Order No.	, veeded
60"	3⁄4"	GFB-60 x 3/4	
	1"	GFB-60 x 1	
64"	3⁄4"	GFB-64 x 3/4	A STATE OF THE STA
	1"	GFB-64 x 1	BLOOM STREET
70"	3⁄4"	GFB-70 x 3/4	Control of the Contro
	1"	GFB-70 x 1	
72"	3⁄4"	GFB-72 x 3/4	
	1"	GFB-72 x 1	
77"	1"	GFB-77 x 1	- 1000 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本
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 finish
 Silicon-Carbide abrasive • For final finish

Super	r-Micro Finish (1 per box)	
Lgth	Wdth	Order No.
60"	3 4"	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"	3 ⁄4"	SGFB-72 x 3/4
	1"	SGFB-72 x 1
77"	3/4"	SGFB-77 x 3/4
	1"	SGFB-77 x 1
91"	3/4"	SGFB-91 x 3/4
	1"	SGFB-91 x 1

Abrasive Cork Super-Fine Finish

• Satin finish • Won't disturb polished radii • Silicon-carbide

		p	
Abras	sive Cork (1 per box)		
Lgth	Wdth	Order No.	
64"	34"	CPB-64-3/4	
	1"	CPB-64-1	
70"	34"	CPB-70-3/4	
	1"	CPB-70-1	
72"	3/4"	CPB-72-3/4	
	1"	CPB-72-1	
77"	34"	CPB-77-3/4	A COMMENTS
	1"	CPB-77-1	
91"	34"	CPB-91-3/4	
	1"	CPB-91-1	

full service

"Hablamos español. Para su conveniencia tenemos representantes tenemos bilingues que le puedan ayudar con su orden."

- Maria, Goodson Ventas y Servicio, 1 años de servicio

Crankshaft **Polishing** Starter Kit

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 98 & 99
- Order No. GRA-10

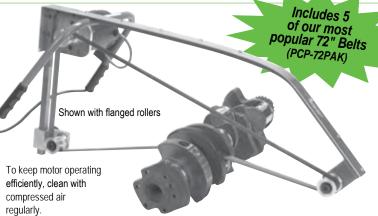


Polishing Rouge

- · 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





Extend the life of your polishing belts by releasing the tension when not in use.









72" Crankshaft Polisher

- · Flex resistant steel frame
- Weighs 15 lbs. (6.8 kg)
- Crowned rollers keep snug belt running true
- 1" nominal = 1.625"
- 2" nominal = 2.625"
- 1/2 HP motor designed for high RPM not heavy loads
- Specify flanged or unflanged rollers when ordering

	PCP-2F

D. II V	AP dele							
Roller V	viatn							
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				
Replacem	ent Parts and Rol	lers			lr	ıclu	des	3
Flanged R	toller Sets	1"		PCP-1				\blacksquare
(3 piece s	et)	2"		PCP-2			▼	
Unflanged	Roller Sets	1"		PCP-1S		▼		
(3 piece s	et)	2"		PCP-2S	▼			
Flanged D	rive Roller	1"		PCP-1D		1		1
Fits ¾" sha	aft - 1 ea.	2"		PCP-2D	1		1	
Flanged R	toller Assembly	1"		PCP-1F				2
¾" x 16 thr	ead - 1 ea.	2"		PCP-2F			2	
Unflanged	Roller Assembly	1"		PCP-1-1EA		2		
3/8" x 16 th	read - 1 ea.	2"		PCP-2-EA	2			
Bearing - 1 ea.				PCP-BRG				
Replacement Switch				PCP-SWITCH-72				
Replacement Motor				PCP-MOTOR-72				
Replacem	ent Motor Brush S	et (also	o fits 220V)	PCP-BRUSH-72				
•		-						

220 Volt, 50 cycle Motor Export Model

Roller Width					
Nominal	Actual	HP	Max. RPM	Order No.	
1"	1.625"	1/2	10,000	PCP-1072E	
2"	2.625"	1/2	10,000	PCP-1072-2E	
Replacement Motor				PCP-1072E-M	
Replacement Motor Brush Set (also fits 220V)				PCP-BRUSH-72	



- Ideal for static balancing parts
- · Also 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 accommodates different rod sizes
- Order No. BS-201

Heavy Metal

An essential component when balancing rods & pistons to crankshafts to ensure proper engine operation. Contains 90% Tungsten

١			HEAVY ME	TAL – TUNGS	TEN 90%	
	Hole	Press Fit	1.0" Long		1.2	" 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.

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

Mirrored

- Polycarbonate lenses
- · Do not use as welders helpers
- Order No. PGL-21



- · 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

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 from the techxperts™ collet, locking it to the dowel you are removing. Also, be sure to select the correct collet size for the dowel you are removing.

Dowel Puller and Collets

· 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 ite 	ms als	o sold	separately		
Descript	Order No.	lr	ncl.		
Standard	l Kit		GA-600		•
Metric K	GA-600M	▼			
Slide Sh	GAO-1	Х	X		
Slide Ha	mmer		GAO-2	X	X
Tighteni	GAO-3	X	X		
Gripping					
OD	ID	mm			
1"	.1575"	4.00	GAO-22	X	
1"	.1875"	4.76	GAO-4		
1"	.1969"	5.00	GAO-13	X	
1"	.2362"	6.00	GAO-14	X	
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	X	
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"	.5512"	14.00	GAO-25		
1"	.5625"	14.29	GAO-19		
1"	.6250"	15.88	GAO-20		
1"	.6400"	16.26	GAO-15		
1"	.6750"	17.15	GAO-11		
1"	.6875"	17.46	GAO-17		
1"	.7350"	18.67	GAO-12		
1"	.7500"	19.05	GAO-18		
1"	.8000"	20.32	GAO-16		

Parts are stamped for easy identification & reordering

GAO-21

Removal Basin



Sleeve **GAO-3**

> Slide Shaft GAO-1 1/2"-20 NF

thread Gripping Collets (see chart)

Removal Basin GAO-21

101



"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 - Goodosn customers since 2005

Flywheel Radius Cutter Tip Holder

- For WVN/VN FG-5000
- Holder measures 1.5"L with a .312" dia. shank
- Includes 1 indexable FG-3B cutter 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: 5/8" x 11, ID: 7/16" x 14	FG-LOCK

Flywheel Grinding Coolant

- Formula eliminates rancid coolant
- Synthetic inhibitors Dilute 30:1

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

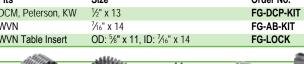
Scparate	, i y	
Description		Order No.
Gauge Asse	mbly	FGG-12
Spindle	1.5"	DIS-1.5
Extensions	2.5"	DIS-2.5
	3 0"	DIS-3 0



Magnetic feet adjust to flywheel diameter



Goodson Techxperts™ on staff to help you







GS-17A







FG-1045-G



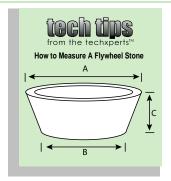


FG-1165-G **Grinding Wheel Dressers & Replacement Cutters**

Diamond Dresser Tools are available on pages 106-107

	Cutter A	ssemblies				R	eplaceme	nt Cutters	
Applications	OD	W	Order No.	Pieces	Washers	OD	ID	Thick	Order No.
VN, Lempco, Storm RT-7Y, 17	Y 2.500"	1.625"	GS-10	14 stars	1 w/locking tangs	2.50"	1.50"	.062"	GS-14
Peterson (12mm shaft)	2.375"	1.625"	GS-17A	8 stars	5	2.375"	1.50"	.093"	
					1 w/locking tangs	1.75"	1.50"	.060"	GS-17
WVN SM2000, 4000, 5000, 6000C, 6000A, MG3000, 3850	1.250")	.978"	FG-1165-G	7 stars	none	1.25"	.313"	.095"	FG-1161-G
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"	.313"	.625"	FG-1044-G

from the techwiperts* Be sure to use ample coolant to flush away swarf and help the stones perform better.



For Best Results... Choose The Right Flywheel Stone From Goodson

Goodson stones feature 50% more useable 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 allaround stone for Billet Steel is the FGW-50-2. It's our most friable and free-cutting, requiring minimal dressing.

More Flywheel Stones on page 104 CAST IRON (Passenger cars, light trucks) (A/BxCxArbor) Description Order No.

(A / B x C x Arbor)	Description		Order No.
6" / 4½" x 2½" x 1½"	Harder than FGW-57, lasts longer, black		FGW-67
6" / 4½" x 25/8" x 1¼"	Best all-around for cast iron, black		FGW-57
6" x 2½" x 1¼"	Straight-sided FGW-57, black		FGW-57S
6" / 4½" x 2½" x 1¼"	Softer than FGW-57, grinds faster, black		FGW-47
6" / 4¾" x 2½" x 1¼"	Silicon-carbide, ideal for top fuel, black	<u> </u>	FGW-37
4" / 3" x 2" x 1½"	Small diameter FGW-57, black	•	FGW-61
4" / 3" x 2" x 11/4"	Small diameter FGW-37, black	<u> </u>	FGW-374
3" x 2" x 1¼"	Green Silicon-Carbide, Premium	4.000000	FGW-93
CAST STEE	L (Industrial, agricultural, OTR	trucks)	

	OAGI GILL	• (Industrial, agricultural, OTIX ti	ucks)	
≥	(A / B x C x Arbor) 6" / 4½" x 2" x 1¼"	Description		Order No.
Ĕ	6" / 4½" x 2" x 1¼"	Harder than FGW-65 lasts longer, lt. gray		FGW-53
⋛	6" / 4½" x 25/8" x 1¼"	Best all-around for Cast Steel, speckled	<u> </u>	FGW-65
MB	6" / 4½" x 25%" x 1¼" 4" / 3" x 2" x 1¼"	Slightly softer than FGW-65, black		FGW-495
8	4" / 3" x 2" x 11⁄4"	Small diameter FGW-65, speckled		FGW-69
	6" / 4½" x 25/8" x 1¼"	Softer than FGW-65, grinds faster, black		FGW-49

	BILLET STE	EEL (Import vehicles, high-performance)	
	(A / B x C x Arbor)	Description	Order No.
	6" / 4½" x 25/8" x 1¼"	Harder, ruby stone, lasts longer	FGW-64
ë	6" / 4½" x 25/8" x 1¼"	Harder, pink stone, lasts longer	FGW-62-1
Ģ.	6" / 4½" x 2½" x 1¼"	Harder than FGW-50-2	FGW-50
AL UMINUM-OXIDE	6" / 4½" x 2½" x 1¼"	Best all-around for Billet Steel	FGW-50-2
░	4" / 3½" x 1½" x 1¼"	Harder, pink stone, lasts longer	FGW-63-1
5	4" / 3" x 2" x 11/4"	Taller than FGW-56, more abrasive, white	FGW-306
A	4" / 3½" x 1½" x 1¼"	Premium	FGW-56P
	4" / 3½" x 1½" x 1¼"	Small diameter, off white	FGW-56
	3" / 21/4" x 11/4" x 3/4"	Small diameter, light gray	FGW-59
	3" x 2" x 1¼"	Sugar white stone	FGW-92

NOTE: Due to manufacturing process, colors may vary.

All abrasives are guaranteed for 1 year from original purchase date.

Mounting Adaptor For Small Diameter Stones • 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

- Use this adaptor to avoid damage when mounting small stones
- Fits most small diameter stones
- Order No. FG-FLANGE

Flywheel Grinding Stones for Small Arbors and Special Machines

Use	Shape	A/B	Height	Order No.
Winona VanNorn	nan 444 Ro	tary Grinder - 1/4" Arbor		
Cast Flywheels	Flared	5" / 4"	3"	GCV-544
Winona VanNorn	nan 570 Ro	tary Broach - 15/16" Arbor		
Cast Flywheels	Flared	5" / 3¾"	1¾"	GCV-305
All abrasives are	e guarantee	ed for 1 year from original pur	rchase date	



from the techxpertsTM
Never dress your
Superabrasive
with the dresser
attachment on your
machine

FlyMaster® CBN Super Abrasive Flywheel Grinding Wheels

• For cast iron • Light to heavy applications

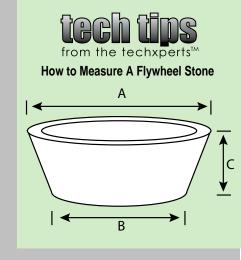
(A / B x C x Arbor)	Abrasive	Shape	Grit	Order No.
2" / 1 ³ / ₈ " x ⁷ / ₈ " x ³ / ₈ "	CBN	Cup	100	2H0998
3" / 2" x 1 ¹ / ₄ " x 1 ¹ / ₄ "	CBN	Cup	100	261453
3 ³ / ₄ " / 2 ⁵ / ₈ " x 11/ ₂ " x 1 ¹ / ₄ "	CBN	Cup	100	2371052
3 ³ / ₄ " / 2 ⁵ / ₈ " x 11/ ₂ " x 1 ¹ / ₄ "	CBN 🚣	Cup	60	34296362
5" / 3 ³ / ₄ " x 1 ³ / ₄ " x 1 ¹ / ₄ "	CBN	Cup	100	2379270
6" / 45/8" x 17/8" x 1 ¹ /4"	CBN 🚣	Cup	100	2367275*
6" / 45/8" x 17/8" x 1 ¹ /4"	CBN 🚣	Cup	60	2G7480
CBN Dressing Stick 1/2" x 1/2"	х 6"			DS-CBN
6" / 45/8" x 17/8" x 1 ¹ /4"	Diamond	Cup		2E5742‡

*Most popular application **‡** For Coated Surfaces Only



This special adaptor is needed for Audi and some Volkswagen applications. Complete unit includes Adaptor Spindle, Flange and Bolt. Order No. **7401842**





Flywheel Grinding Stones

• Four Abrasive formulas to choose from

1 041 7 10140110 1	ommaiae te		
SILICON-CA			
Ductile Iron, Cast Iron	& Steel (Black)		
(A / B x C x Arbor)	Hardness	Shape	Order No.
3" / 2½" x 1½" x 1½"	Med. Hard	Flared	U364512
4" / 3" x 2" x 1½"	Med. Soft	Flared	U335369
6" / 4½" x 2½" x 1½"	Soft	Flared	U324494
	Med. Soft	Flared	U324495
	Med. Hard	Flared	U335376
	Hard	Flared	U335377
	Med. Soft	Flared	U357854
	Med. Hard	Flared	U343805
6" / 4 ³ / ₄ " x 3" x 1 ¹ / ₄ "	Med. Hard	Flared	U68578
EXTENDED	LIFE CEI	RAMIC	
Ductile Iron, Cast Iron	and Steel (Black	k)	
(A / B x C x Arbor)	Hardness	Shape	Order No.
6" / 4½" x 3" x 1¼"	Med. Hard	Flared	U370095

Mild Steel & Hardened (A / B x C x Arbor)		Shape	Order No.
5" / 4½" x 2½" x 1¼"	Soft	Flared	F342636
	Medium	Flared	F335373
ALUMINUM-			
ight to Medium Stock	Removal on St	teel. Cast Iron & Di	uctile Iron (Ruby)
0	Removal on St Hardness	teel, Cast Iron & Du Shape	uctile Iron (Ruby) Order No.
A / B x C x Arbor)			. ,,
A / B x C x Arbor) 4" / 3" x 2" x 1 ¹ / ₄ "	Hardness	Shape	Order No.
(A / B x C x Arbor) 4" / 3" x 2" x 1 ¹ / ₄ "	Hardness Medium	Shape Flared	Order No. F348769
Light to Medium Stock (A / B x C x Arbor) 4" / 3" x 2" x 1½" 6" / 4½" x 2½" x 1½"	Hardness Medium Soft	Shape Flared Flared	Order No. F348769 F372039

Colors may vary due to the manufacturing process



Deburring Tool

- · Swivel tool chamfers sharp, machined edges, bolt holes, and much more
- DT-6 includes cutters for aluminum and cast iron

and babtinon	
Description	Order No.
Deburring Tool	DT-6
Replacement Cutters	
Steel/Aluminum	DT-10
Cast Iron/Brass	DT-20



- · 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

Bench Grinder Wheels

- 40 and 60 grit for general grinding
- 100 grit for sharpening carbide tools
- Includes bushings to reduce arbor hole from 3/4" to 1/2" PLUS a %" bushing adaptor

Size	Grit	Order No.
General Pu	irpose Wheel	For steel and cast iron
6" x ¾"	60	GG-666
6" x 1"	60	GG-686
7" x 1"	40	GG-784
8" x 1"	40	GG-884
8" x 1"	60	GG-886
Green Grit	Wheels: For:	arpening carbide tools
6" x ½"	100	GGC-641
6" x ¾"	100	GGC-661
6" x 1"	100	GGC-681





Grinding Wheel Star Dressers

Description	Order No.
Hand dresser for wheels up to 10" dia.	GS-0
Replacement Cutter Sets	
4 blades, 2 spacers, ¼" ID for GS-0 dresser	GS-00
4 blades, 2 spacers, ½" ID for GS-1 dresser	GS-11

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.	Order No.
Medium-Hard Deburring Wheel	6" x 1" x 1"	1	SCW-68M
Buff and Blend Wheels	6" x ½" x 1"	5	BBD-65



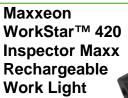
Premium Tapered Reamers

- Use by hand or with a powered driver to deburr or enlarge tapered holes for tie-rod ends or ball joints
- Use in ½" chuck at approximately 40 RPM

OAL	Flute	Small End	Big End	Taper	Order No.
53/4"	3¾" long	1⁄8" dia.	½" dia.		TR-216-1
61/2"	41/2" long	⅓6" dia.	1" dia.	1½" per ft.	TR-216-2

Maxxeon WorkStar™ 220 LED Compact Inspection Light

- 6" inspection light weighs just 1 ounce
- Black anodized T6 aluminum body
- Threaded joints have rubber O-ring seals
- · Push-button switch is rated at 100,000 cycles and is sealed to keep out dirt and arit
- Runs on 3-AAAA alkaline batteries (included) up to 4 hours
- Order No. DFL-220



- 6 inline LEDs with a custom lens creates a huge floodlight beam - no rings, no shadows, no hot spots
- Worklight = 200 lumens, Flashlight = 135 lumens
- Rechargeable battery (not replaceable, USB charger cord included)
- Measures: 7"L x 7/8"W x 1/2"Thick Weighs 2.2 ounces
- Order No. DFL-420





Diamond Dresser Tools

Diamond Dressers for most shop machines are in stock and ready-to-ship

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.

	Machine	Description	Carat	Radiac #	Standard	Premium
Valve Refacers	B&D, Skil, Sioux™, Thor, VanDorn, WVN	3/8"x15/8"	1/5	2335660	G-1	G-1P
	Kwik-Way, Tobin Arp (S&D)	5/16"x21/2"	1/5	2335662	G-3	
	Kwik-Way, Valve Master (1714)	1/2"x31/4" 20NF	1/5		G-4	
	Sioux [™] (1713, 1715), IDL, WVN (CG50, CG80)	3/6"x23/4" 24NF	1/5	2335664	G-5	G-5P
	IDL, WVN (CG-50, CG-80)	3/6"x31/4" 24NF	1/5		G-80	G-80P
	US	7/16"x2"	1/5		G-6	
	Skil (Talent)	5/16"x21/4" 18NC	1/5		G-9	
	Kwik-Way	7/16"x23/4" 20NF	1/5	2335670	G-17	G-17P
Valve Seat Grinders	B&D, S&D, Van Dorn	3/8"x21/4" 24NF	1/5	2335661	G-2	
	Kwik-Way	½"x3¼" 20NF	1/5		G-4	
	Sioux™ (1715), K-W (NSG), Thor	3/8"x23/4" 24NF	1/5	2335664	G-5	G-5P
	Hall HD (13-1938P), Skil, Snap-On, B&D	5/16"x21/4" 24NF	1/5	2335666	G-8	G-8P
	KO Lee, Skil	5/16"x21/4" 18NC	1/5		G-9	
	Sioux [™] Heavy Duty (1715B, 1719)	3/8" hex RH	1/5		G-11	
	Goodson Universal Wheel Dresser	8mm x 1.25mm	1/5			G-13P
	Sioux [™] Heavy Duty (1715A)	3/8"x23/4" 24NF	1/2		G-15	
	Kwik-Way Heavy Duty Wheel Dresser	½"x3" 20NF	1/5	2335671	G-18	G-18P
Clutch Grinders	Lempco AC, NAC, VAC & Do-ALL	7/16"x2"	1/5		G-6	
Piston Grinders	Van Norman 75, 76 & Relio	3/8"x15/8"	1/5	2335660	G-1	G-1P
	Storm-Vulcan D-3	⁷ /16"x2"	1/5		G-6	
Drum Lathes	Van Norman (all except 302, 302H)	3/8"x15/8"	1/5	2335660	G-1	G-1P
	Barret, V.N. 302, 302H	3/8"x3"	1/5		G-1L	
	Lempco	⁷ /16"x2"	1/5		G-6	
	Ammco 5000	½"x1½"	1/5		G-19	
Rod Grinders	Sunnen® Rod & Cap Grinder (CRG-500)	3/8"x15/8"	1/5	2335660	G-1	G-1P
	Storm-Vulcan No. 65 Rod Grinder	½"x3¼" 20NF	1/5		G-4	
Crank & Cam Grinder	rs Storm-Vulcan 14, 15, 15A, 15C, 75, 75A	½"x3"	3/4	2354244	G-25	
	, , , , , , ,	½"x3"	1		G-25A	
	Scledum	10mmx15/8"	3/4		G-27	
	Winona Van Norman/Zanrosso.	7/16"x11/4", 5/8" head	3/4		G-30	
	Lempco, Landis	7/16"x11/4", 5/8" head	1		G-30A	
	Berco	tapered, step type	1	2354254	G-32A	G-32AP
	Berco	tapered, step type	1½	2354255	G-32B	
	Storm-Vulcan, WVN CG210, 250, 280	1/2"x2" 70° rad. dress			G-33	
	Universal Cluster Dresser (photo pg. 93)	7/16"x19/16", 15°	,,	2V9507	2V9507	
Flywheel Grinder	Kwik-Way 796	7/16"x2"	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

V-I WIN & MEI KIU Hard Parts



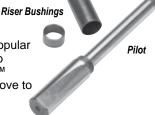
"Be sure to check out the Goodson website for product specials, tech tips, Safety Data Sheets and much more."

- Janet, Goodson Advertising Manager, 17 years of service

Sioux-Style 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



Description	Order No.
.385" Top Pilot	1718A
.375" Top Pilot	1718-BD
.572" Dressing Stand Pilot for Sioux™ 1716 Dresser	1718-B
Riser Bushings (2) for .385" Pilots	SK-9-10
Riser Bushings (2) for .572" Pilots	SK-11-12







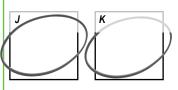






















Replacement Parts for Sioux™ Valve Refacers

	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 29¾"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)		
H-	Chuck Belt Fits Serial #s 34999 & up		SX-14401
	(also coolant pump belt for #s 35217	17	
J-	Belt for Motor Shaft; Fits Serial #s up	to 34999 645	SX-14402
	Coolant Pump Belt; Fits Serial #s 349		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 Parts For Sioux™ Drivers

Keep your Sioux™ Seat Grinders running at peak efficiency with these replacement parts

- Drive Spindle is spring loaded for dual action grinding
- Brush set is a pair of direct replacement carbon brushes for armature and measures %"x½"
- Fit Sioux[™] 1710 and 1792 drivers

Description	Order No.
Bearing Cap for Sioux™ 1710 Electric	SX-23694
Brush Set for Sioux™ 1710 Electric	SX-18004
Switch for Sioux [™] 1710 Electric with plastic handle only	SX-18204*
Bearing Cap for Sioux™ 1792 Pneumatic	SX-33970

*Metal handle switch is no longer available



Sioux-Style Replacement Vacuum Tester Parts

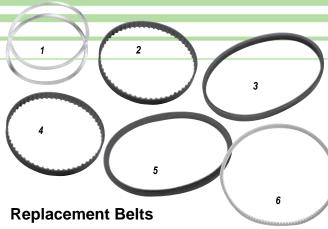
• For Sioux[™] 1630K Tester which is no longer manufactured

Closed cell foam for an exceptional seal

Sioux-Style Replacemen	nt 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	he 1630K Tester	
Replacement Fitting		DVC-SX

1630-GAUGE

Replacement Gauge



For Kwik-Way Valve Refacers

	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. 1/3" 010-2101-27 17/32" 010-2101-35



enlarged to show detail



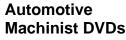
Collet is unavailable from OE



Replace with twopiece 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
- Accommodates 1/4" (6.35mm) to 3/8" (9.53mm) valve stems
- Order No. BVR-38



Taught by Butch Reilly from Spokane Community College. Easy to understand DVDs are a great addition to any machinist's library.

Title	Run Length	Order No.	Incl.
7 DVD Set (one of each below)		DVD-SET	•
Engine Balancing	138 min.	DVD-EB	X
Cylinder Honing	46 min.	DVD-CH	X
Cylinder Boring	52 min.	DVD-CB	X
Crankshaft Grinding (2 DVD set)	113 min.	DVD-CG2	X
Using a Micrometer	34 min.	DMV-1	X
Reconditioning Rods	64 min.	DRV-1	X

Power Building Videos on DVD

The Rotating Assemblies 2-DVD set includes highly detailed, easy to understand information on parts selection and more. The Engine Building 3-DVD set includes a stock Small Block Chevy and a mild performance Small Block Ford

mila periermaneo email Biock i era:						
Description	Run Length	Order No.				
Rotating Assemblies	4 hours	DVD-RA2				
Engine Building	5 hours	DVD-EB3				

How to Build and Modify **GM LS-Series Engines**

This manual includes information on cylinder head preparation, camshafts, rotating assemblies, assembly and induction/nitrous. Order No. MA-148



Valve Refacer **Steady Rest Shoes** for Sunnen®

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

VR-7000 & VR-8000



	_
Description	Order No.
Trigger Switch	000-1201-20
2 Pc. Brush Set	003-0072-43

See page 19 for Seat Grinding Drivers

Replacement Chuck Belt For Black & Decker

- · Chuck belt for the aluminum housing unit • Replaces OE V-type belt
- .200" thick x 12¾" long (5.08mm x 323.85mm)

Order No. BVR-B



Brake Lathe Tip Holders

Machine	Model	Use	OE No.	Order No.
Ammco	1000, 2002, 3000, 4000, 4100, 7500, 7700	For Drums ½"x ¾ "x 2½"	9872	TAM-41R
All-Tool	747	Use: RT-A series,		
Hoffman	660	negative rake tips	iii	
Performance	6600, 7200, 7100, 7600			
Ammco	3000, 3850, 4000, 4100,	For Rotors ¾ "x ¾ "x 1¾"	10701	TAM-701 (R)
	7000 & 6900, 6950 Twin Cutters	Use: RT-A series,	10702	TAM-702 (L)
Performance	6600, 7200, 7100, 7600	negative rake tips		
Hoffman	660			
All-Tool	747			
Ammco	3000, 3850, 4000, 4100, 7000	For Rotors % "x % "x 1%"	25968	TAM-25968 (R)
	& 6900, 6950 Twin Cutters	Use: RT-3A & RT-3AS series,	25969	TAM-25969 (L)
		positive rake tips		
Bear	1410, 1466,1467, 1468,	Drums and Rotors ¾" x ¾" x 3"	90495	TBR-44R (R)
	1469, 14781	Use: RT-B series,	90494	TBR-44L (L)
		negative rake tips	56.0	
Ammco	Direction: Left	%" x %" x 1%"		TAM-312L
Hoffman	Direction: Right	%" x ¾" x 1½"		TAM-312R
Performance,	All-Tool	Use: RT-312 series tips		
Ammco	Direction: Left	%" x %" x 1%"		DTAM-312L
Hoffman	Direction: Right	%" x %" x 1%"		DTAM-312R
Accu-turn	Direction: Left	%" x %" x 2¾"		TFM-312L
FMC, Bear,	Direction: Right	%" x %" x 234"		TFM-312R
Hoffman, Kwik	-Way, Snap-On, etc.	Use: RT-312 series tips		
Accu-turn	Direction: Left	%" x %" x 2¾"		DTFM-312L
FMC. Bear.	Direction: Right	3/" x 3/" x 23/"		DTFM-312R

Measurements for Solid Carbide, Honed Edge Carbide & Titanium Coated Carbide Cutting Tips

GOODTOOL Now exclusively from Goodson

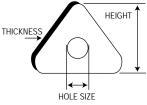
Measure to Find the Right Tip











	Negative Rake - 6 cutting edges
Thickness	1
	Positive Rake - 3 cutting edges
Thickness	

							H	HOLE	E SIZE					
RT-A		RT-3AS		RT-3A		RT-373			RT-AC		RT-FMC		RT-B	
Height:	.350"	Height:	.357"	Height:	.343"	Height:	.625"		Height:	.445"	Height:	.452"	Height:	.343"
Thick:	.095"	Thick:	.104"	Thick:	.093"	Thick:	.125"		Thick:	.131"	Thick:	.125"	Thick:	.105"
Hole:	.135"	Hole:	.127"	Hole:	.133"	Hole:	.117"		Hole:	.145"	Hole:	.090"	Hole:	.130"
Rake:	NEG	Rake:	POS	Rake:	POS	Rake:	POS		Rake:	POS	Rake:	POS	Rake:	NEG
RT-HF		RT-KW		RT-H		RT-HNT			RT-MRH		RT-VBG		RT-VN	
Height:	.714"	Height:	.358"	Height:	.344"	Height:	.312"		Diameter:	.235"	Height:	.344"	Height:	.545"
Thick:	.185"	Thick:	.101"	Thick:	.125"	Thick:	.103"		Thick:	.125"	Thick:	.098"	Thick:	.125"
Hole:	.200"	Hole:	.125"	Hole:	.090"	Hole:	.127"		Hole:	.108"	Hole:	.124"	Hole:	N/A
Rake:	NEG	Rake:	POS	Rake:	NEG	Rake:	POS		Rake:	POS	Rake:	POS	Rake:	POS
RT-VNS		RT-VNH		RT-VNA		RT-KWL-	·T		RT-VNP-I	OR -R	RT-312		RT-360	
Height:	.547"	Height:	.545"	Height:	.535"	Height:	.338"		Height:	.902"	Diameter:	.311"	Height:	.311"
Thick:	.121"	Thick:	.095"	Thick:	.188"	Thick:	.100"		Thick:	.100"	Thick:	.100"	Thick:	.100"
Hole:	NI/A	Hole:	135"	Hole:	1/18"	Hole:	122"		Hole:	NI/A	Hole:	150"	Hole:	NI/A

POS

Rake:

POS

Rake:

POS

Rake:

POS

Rake:

POS

Rake:

NEG

Rake:

NEG

Rake:

Tips Are Shown Actual Size RT-A RT-HNT RT-MRH RT-3AS RT-3A RT-373 RT-AC RT-FMC RT-B RT-KW RT-HF RT-H **Solid** Honed RT-VNH RT-VN RT-VBG RT-RL RT-KWL-T RT-VNS RT-VNA Edge Carbide These standard

RT-VNP-L

RT-VNP-R

RT-312

RT-360

Refer to Pg. 110 for

tip measurements

grade, solid carbide cutting tips are parallel ground for resurfacing cast iron drums and rotors.

Carbide

Parallel and 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.

Ammco	700 740 OTO L IL 4000 0000 0000							
	700, 710, OTC Lathes, 1000, 2002, 3000,	6914	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
	4000, 4100, 7000, 7500, 7700							
	3850 smaller (1/64") radius	6918	3	Pos	Yes	RT-3AS	RT-3AS-H	RT-3AS-T
	larger (1/32") radius	7681	3	Pos	Yes	RT-3A	RT-3A-H	RT-3A-T
Twin	6900,6950 negative rake (std.)	6914	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
Cutters: positive rake (standard) 1/64" (finer finish) 6918		3	Pos	Yes	RT-3AS	RT-3AS-H	RT-3AS-T	
	positive rake (modified) 1/32" (more durable)	7681	3	Pos	Yes	RT-3A	RT-3A-H	RT-3A-T
	7900	6914	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
Ammco HD	5000, 6000, 6002	5677	3	Pos	No	RT-373		
Accu-Turn	All combination disc/drum lathes	433796	3	Pos	Yes	RT-AC	RT-AC-H	RT-AC-T
	On-The-Car Lathes	878051	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
All-Tool	747	3331	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
Bean	B-401, B-410, B-501, B-601	90487	3	Pos	Yes	RT-FMC	RT-FMC-H	RT-FMC-T
Bear	1410,1466,1467,1468, 1469, 1478 2264	,72265,772834	6	Neg	Yes	RT-B	RT-B-H	
	10-1430, 10-1435	W136	6	Neg	No	RT-HF		RT-HF-T
FMC	600, 601, 700, 701, RotoTruer	90487	3	Pos	Yes	RT-FMC	RT-FMC-H	RT-FMC-T
	505, On-The-Car Lathe	91212	3	Pos	Yes	RT-KW	RT-KW-H	RT-KW-T
Hoffman	660	3331	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
Horvath	All	1605	6	Neg	No	RT-H		
Hunter	BL300 On-The-Car Lathe	221580-2	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
	BL-500, BL-501, BL-505	6918	3	Pos	Yes	RT-3AS	RT-3AS-H	RT-3AS-T
	BL-500	221-678-3	3	Pos	Yes	RT-HNT		
	Micro Tips of OCL-400 Lathe	221-626-3	3	Pos	Yes	RT-MRH		
Kwik-Way	CBL, NCL, SDL Kwik-Lathe OTC Lathe	109-1092-23	3	Pos	Yes	RT-KW	RT-KW-H	RT-KW-T
	Lightening Lathe	109-1092-45	3	Pos	Yes			RT-KWL-T
Performance	6600,7200,7100, 7600	3331	6	Neg	Yes	RT-A	RT-A-H	RT-A-T
Pro-Cut		50-701, 50-742	3	Pos	Yes	RT-VBG	RT-VBG-H	RT-VBG-T
RJ West	915D Disc Lathes	W136	6	Neg	No	RT-HF		RT-HF-T
	Perfect 400, 1115HD	W139	3	Pos	Yes	RT-AC	RT-AC-H	RT-AC-T
RTI	BRC35 On-The-Car Lathe	91212	3	Pos	Yes	RT-3A	RT-3A-H	RT-3A-T
Snap-On	YA282,YA277,YA278, YA180 OTC Lathe	109-1092-23	3	Pos	Yes	RT-KW	RT-KW-H	RT-KW-T
Van	204, 204D, 205, 205DC, 415, 243XV	29687	3	Pos	No	RT-VN	RT-VN-H	RT-VN-T
Norman	Smaller (1/64") radius	2,007	3	Pos	No	RT-VNS	RT-VNS-H	RT-VNS-T
and Rels	Older Model 204	21933	6	Neg	No	RT-VNH		
and itels	204, 304, 405	29005	6	Neg	No	RT-VNA		RT-VNA-T
	303,304,305,404,405,V22	304-7167	2	Pos	No	RT-VNP-L		RT-VNP-LT
	204,205,205DR,300,302,333,243,243XV	302-7167	2	Pos	No	RT-VNP-R		RT-VNP-RT
	Rels 2000 rotor	45016, 45021	3	Pos	Yes	RT-RL		17.1.AIA1IVI
VBG	On-The-Car Lathe	50-701	3	Pos	Yes	RT-VBG	RT-VBG-H	RT-VBG-T
Round Tips		T-312,RT-312T	360°	Pos	Yes	RT-312	IV1-ADQ-U	RT-312T
with hole	TFM-312 Holders	1-312,11-3121	300	LO2	163	N1-312		K1-3121
solid	Fits TAM-360SET,	CT10	360°	Pos	No	RT-360		RT-360T
SUIIU	TFM-360SET, RJH and CT Holders	CITO	3003	PUS	INO	K1-300		K1-3001

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 previous page). If your machine is shown above to have 6-edge tips but has 3-edge tips, it has been modified – please order our RT-3AS series tips.

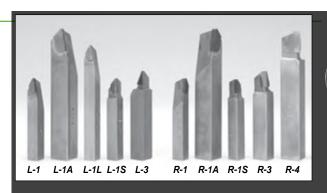
iron-clad guarantee 111

Brake Lathe Tools & Silencers



- Neoprene material resists deterioration associated with standard rubber belts
- 7 weights
- Measures: 34" L x %" W x ¾6" Thick
- Order No. GT-6030N

A.GOODTOOL



Brazed Carbide Brake Lathe Tools

• Fit most popular brake drum lathes

Left Hand Cutting Tools

Leit Hallu Ci	uttilig 100is	
Size	Application	Order No.
¾" 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 310-404 Hardspots	
¾" sq. x 3½"	Extra long L-1 for small dia. drums	L-1L
¾" sq. x 2½"	Master carbide-tipped with 7° rake angle	L-1S
½" sq. x 2¾"	Replaces Ammco 4726 heavy-duty tool	L-3
	Ammco 4726 for 5000 & 6000 dual facing tool	
	and 3000, 4000, 4100 & 7700 lathes	
Right Hand	Cutting Tools	
Size	Application	Order No.
%" sq. x 2½"	Replaces Bean 43-46R; Bear 20718;	R-1
	Star LB-16; VN 302-7171 for 204, 300,	
	302, 302H, 333, 243XV; and Barrett & Lempco	
5⁄8" sq. x 4"	Replaces Ammco 5720 for 5000;	R-1A
	Lempco SHD, DH, 530 Kwik-Way Heavy Duty	
%" sq. x 2½"	' Master carbide-tipped with 7° rake angle	R-1S
½" sq. x 2¾"	Replaces Ammco 4725 for 3000,	R-3

Hardspot Cutters

Left Hand		
Size	Use	Order No.
3/8"x1/2"x23/	6" Drums	L-5
	Discs	L-6
Right Han	d	
Size	Use	Order No.
3/8"x1/2"x23/	6" Drums	R-5
	Discs	R-6

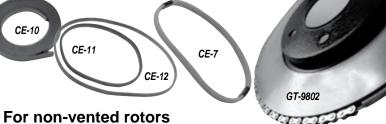
4000, 4100, 7100 drum lathes 5/8" sq. x 4" Replaces Bear 24034; Star CB-35





Silencers For Vented Rotors

Style	Size	OE No.	Order No.
Rubber Strap	34"L x %"W x 3/6" thick	6920	CE-8
	36"L x 1¼"W x ¾6" thick	6930	CE-6930
Spring	Fits 6" to 9" rotors		CE-13
Rubber Tube	9" Diameter, 6 weights		CE-5
	8" Diameter, 4 weights		CE-5S



Style	Size	Order No.
Magnetic Strap	48" long	CE-10
Rubber Band	6½" dia. x 5/16" W x 3/16" thick	CE-11
	9¼" dia. x 5/16" W x 3/16" thick	CE-12
Rubber Tube	Fits 6" to 9" rotors	CE-7
Chain Band	Nickel plated with 4-springs	GT-9802



For vented and non-vented rotors

Style	Application	Order No.	
Clamp-On	For Bench model lathes	CE-6	
	For On-The-Car lathes	CE-26	
Friction	Most Ammco lathes	7075	•
	Replacement Pucks for 7075	CE-9	X
	Replacement Mounting Bracket	GT-10283	X
	Replacement Wrench	GT-11497	X



Style	Application		Order No.
Rubber Strap	Automobiles 5	5'L x 21/8"W x 1/8" thick	CE-1
	Trucks 6'6	5"L x 21/8"W x 1/8" thick	CE-2

- Fits Ammco models 2002. 3000, 4000, 4100, 7000, 7500 and 7700
- 7/8" x 9 LH thread
- Precision ground between centers using only one set-up for the greatest accuracy
- · Factory checked for runout of less than .001"
- Heat treated, stress relieved tool steel
- For drums & rotors up to 125 lbs.
- Order No. GT-3101



Ammco Brake Lathes

- Fits 3000, 4000, 4100, 7000, 7500, & 7700 models
- 208 / 230 / 115V 60Hz
- 1725 RPM
- Order No. GT-2165

Right Angle Drive Assembly for **Ammco Brake Lathes**

- Fits 3000 & 4000 lathes
- Eliminates radial & axial play
- Order No. GT-9815



GT-3102



A.GOODTOOL

1" Arbor Accessories

Description	Model(e)	Throad	Order No.
Description	Model(s)	Thread	Order No.
Arbor Nuts	Fits all Ammco but 1101	%" x 9 LH	GT-3102
	All arbors but Ammco	1" x 8 LH	GT-20442N
Centering Sp	ring		GT-3110
1" Spacers	(75)	Length	Order No.
for ALL Brake	e Lathes	1/2"	GT-3125
	100	Flexible	GT-9492



Ammco Rotor &	The American
Drum Feed Screw	s & Nuts

Description	Order No.
Rotor Feed Nut (early)	GT-10868
Rotor Feed Nut (late)	GT-10868X
Drum Feed Nut (all)	GT-4670
Rotor Feed Screw (4000)	GT-32111
Rotor Feed Screw (7000)	GT-10318





GT-4670

Replacement **Work Light**

- 30" adjustable arm
- 5/8" round mounting end
- Uses up to 100W standard base bulb (not included)
- · Easily accessible switch
- Fits most Ammco models
- Order No. GT-7963



Replacement Switch for **Ammco Brake** Lathes

- · Easy to install
- Fits most models
- Order No. GT-7893



Tooling Hold Down Pieces For Ammco

Description	Order No. Incl.
Stud Assembly	GT-25900 ▼
6½" Stud	GT-25913 x
Nut Assembly (must be used with 6½" Stud)	GT-11227 x
5½" Stud	GT-3031
Washers (2)	GT-3165



Brass Wear Inserts For Ammco

Dia. x Lgth.	Order No.
³∕16" x ⅓"	GT-3141
¹⁹ / ₆₄ " x ¹ / ₄ "	GT-3142
(most popular)	
1/4" X 19/64"	GT-9836

made-to-order crankwheels



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

113

BRAKE SERVICE

Screw Feed
Boot # 3086

Spindle
Boot #3085

R
bo

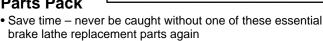


from the techxperts**

Rubber is the standard boot material on most brake lathes



Replacement Parts Pack



- Save money pack price is lower than ordering all of the parts separately
- Save on shipping purchasing these parts together costs less in shipping than ordering them individually at different times. You pay shipping and handling one time instead of several • All parts are also sold separately

Description	Order No.	Incl.
Replacement Parts Pack	GT-PARTS-PK	•
Cross Feed Shear Gear	7996	2
Replacement Locking Knob	6854	2
Feed Seal	3163	1
Spindle Seal	3164	1
Neoprene Spindle Boot	3085	1
Screw Feed Dust Boot	3086	1
Cross Feed Dust Boot	3087	1

See page 72 for more Flex-Hones®

Replacement Boot Packs

- Keep extra boots on hand for routine maintenance or emergency replacement
- Fits Ammco 3000, 4000, 4100, 7000, 7700

Description	Order No.		Inc	ol.	
Neoprene Boot Pack	GT-BOOT-PK				▼
Rubber Boot Pack	RSB-BOOT-PK			▼	
Neoprene Spindle Boot Kit	SBR-KIT		▼		
Rubber Spindle Boot Kit	RSB-KIT	▼			
Rubber Spindle Boot	RSB-3085	X		X	
Neoprene Spindle Boot	3085		X		X
Screw Feed Dust Boot	3086			X	X
Cross Feed Dust Boot	3087			X	X
Boot Ring	23682	X	X	X	X
C-Clip	SBR-4435	Х	X	X	X
Snap Ring	SBR-3159	X	X	X	X

Drive Pulleys & Belts for Ammco

- Fit Ammco 3000, 4000, 4100, 7000 & 7100
- Serpentine design runs quieter and increases arbor speed by 175RPMs

· Virtually eliminates vibration





Drive Pulley

GT-3024

New-Style (Serpentine)

, .	,
Description	Order No.
Pulley Set	GT-5001
(Includes 201/4"	belt & 2 pulleys)
201/4" Belt	GT-5002
19" Belt	GT-5003

Install the drive pulley from the techsperis with the pin toward the right angle drive. The roll-pins drive against each other. A nylon sleeve prevents metal to metal contact.

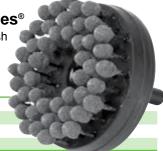
Original-Style (V-belt)

(V-DCIL)		
Description	Order No.	
Drive Pulley	GT-3024	
(Motor)		
Driven Pulley	GT-7784-1	
(Arbor with drive pin)		
25" Belt	GT-3161	
(replaces OE 3161)		
24" Belt	GT-10241	
(replaces OE 10241)		

Brake Rotor Flex-Hones®

- · Provide a non-directional finish
- Use with a ³/₈" variable speed drill at 600-1000 RPM
- Zirconium abrasive
- Use dry

• Use dry			
	Туре	Grit	Order No.
	Fine	240	BRF-25F
	Medium	120	BRF-25M
	Coarse	60	BRF-25C



Brake Drum Swedge Cutting Tool

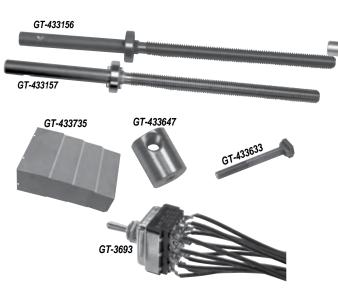
- Hard-to-find tool cuts wheel stud swedges to remove and replace pressed-in wheel studs
- Use with a drill press or mill
- Carbide tipped
- For 1/2" stud
- Order No. ST-500



Brake Drum Grinding Wheel

• Aluminum-Oxide abrasive

For Van Norman / Rels 204, 300, 302, 303, 333 & 404 Drum Grinders			
Size	OE No.	Shape	Order No.
3" x ¹ / ₂ " x 1"	8522	Recessed	GDV-304
3 ¹ / ₂ " x ¹ / ₂ " x 1"	8931	Recessed	GDV-354
4" x ¹ / ₂ " x 1"	8523	Recessed	GDV-404
For Ammco 3050 a	and 5000 Drum	Grinders	
Size	OE No.	Shape	Order No.
3" x ³ / ₄ " x ⁷ / ₈ "	5410	Recessed	GDA-205
4" x ³ / ₄ " x ⁷ / ₈ "	5405	Recessed	GDA-206



Assorted Accu-Turn Replacement Parts

Description	Order No.
Rotor Feed Screw Assembly (½" 20TPI)	GT-433156
Drum Feed Screw Assembly (½" 13TPI)	GT-433157
Telescoping Way Assembly (fits all except 8989)	GT-433735
Rotor Feed Nut (fine thread)	GT-433647
T-Bolt	GT-433633
Drum Feed Nut (not shown) (coarse thread)	GT-433646
Replacement Switch (12 Poles)	GT-3693

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



Brake Shoe Grinding Sleeves

ID	Lgth.	Grit	Application	Order No.
3"	5¼"	40	Fits most models	AS-2
3"	6"	40	Fits most models	AS-3
3"	6%"	40	Fits most models	AS-4
3"	7½"	40	Fits most models	AS-6
2%"	4½"	50	Fits Ammco 2007	AS-7

Printerior and Control of the Contro

GT-90071

Rotor & Drum Feed Screws & Nuts For FMC & Bean

For FMC & Bean
Description
Rotor Feed Screw

Description	Order No.
Rotor Feed Screw	GT-90071
Rotor Feed Nut	GT-90077
Drum Feed Screw	GT-90667
Drum Feed Nut	GT-1016845



GT-90667

GT-1016845

Replacement Motor for Ammco Lathes on page 113



Replacement Feed Motor For Accu-Turn Brake Lathes

- For 7700, 8920, 8910, 8911, 8989, 8922 1/60 HP 6 RPM
 - 120V. 60Hz
- 1.5 Amps Includes fan
- 2 year limited mfr. warranty
- Ships without blade attached to prevent damage
- Order No. GT-3641

REBUILDING /

SEMBLY & SAFE

SHORT BLOCK

CHAWNSHAFI/

TOOLS & SUPPLIES

TOOLING

S 1001

HARD PARTS

iron-clad guarantee

full service

"We pride ourselves on getting orders to our customers quickly. We stock a wide variety of products so that we can get your order to you in 3 days or less."

- Brian, Goodson Receiving, 27 years of service

Buy individual pieces or save by buying the sets



Truck Mounting Adaptor Sets For Brake Lathes With 1" Arbors

Description		Order No	. In	cl.
Standard Truck Set		GT-5062		•
Master Truck Set		GT-5060	▼	
Centering Cones	3.750" x 5.125"	GT-5053	1	1
	4.500" x 5.500"	GT-5052		
	5.000" x 6.125"	GT-5054	1	
Bell Clamps	6.500" OD	GT-5055	1	2
	7.750" OD	GT-5056	1	
Heavy-duty Spring	2.515" OD x 2.217"ID x 4" L	GT-5059	1	1



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.

Replace any worn or damaged cones or bell clamps.

Always use the largest bell clamp that will fit the rotor or drum for the best support.

GOODTOO

Brake Conditioning Spray

- Spray on rotors and drums to stop noise at the source
- OE approved spray-on metalizing treatment
- Effective from -100°F to +2000°F
- Prevents rust and seizure of lug nuts and threads
- Overspray won't damage calipers, rubber components or seals
- Aerosol*
- Order No. BS-12*
- * Hazardous Fees Apply When Shipped By Air

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
- 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 and O-Rings
- A great complement to Pastelub™ Hi-Temp Lubricant
- Purple
- Order No. CBL-2800



Automotive Bell Clamps for Brake Lathes

OD Size:	4.500"	OD Size:	5.750"
Arbor Size:	1.000"	Arbor Size:	1.000"
Order No.:	GT-9490	Order No.:	GT-3123

Automotive Single Taper Centering Cones for Brake Lathes

Range: 1.703" to 2.750" Arbor Size: 1.000" Order No.: **GT-3904** Range: 2.328" to 2.986" Arbor Size: 1.000" Order No.: **GT-3108** Range: 2.890" to 3.500" Arbor Size: 1.000" Order No.: **GT-3107**

Sano sun Fiel



Valve Guide Gauge (P-300), **Setting Fixture** (P-610A) and

> the Valve Guide Probe you need.

> > Order Ne. Incl

Valve Guide Gauge Set

- 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	on .		Order No.	ıncı.
Complete	Valve Guide Gauge S	Set	P-310	•
Valve Guid	de Gauge		P-300	X
Setting Fix	ture		P-610A	X
Valve Gui	de Probes			
Size	Range in.	mm		
.236"	.244" to .264"	5.69 to 6.71	P-236	
.250"	.238" to .278"	6.05 to 7.05	P-250	
.281"	.269" to .309"	6.83 to 7.85	P-281	
.312	.300" to .340"	7.62 to 8.64	P-312	x
.344"	.332" to .372"	8.43 to 9.45	P-344	Х
.375"	.363" to .403"	9.22 to 10.24	P-375	x
.406"	.394" to .434"	10.01 to 11.02	P-406	
.438"	.426" to .466"	10.82 to 11.84	P-438	
.469"	.457" to .497"	11.61 to 12.62	P-469	
.500"	.488" to .528"	12.40 to 13.41	P-500	

Mitutoyo

Split Ball **Bore** Gauge

- Dial gauge with large contact area
- Measures quickly & accurately to .0001"
- Works in threaded or knurled guide IDs
- Range: .280"-.400" Easy to change contacts
- Order No. MVG-34



AG-210

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
- Rugged construction all moving parts are enclosed in the housing
- Includes Point Sets listed below (optional point 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

Point sets will NOT fit AG-gauges lower than Serial No. 4000

Rod Bolt Stretch Gauge

- Accurate to .001"
- Features a 1½" dial gauge
- · Heavy-duty tension spring for repeatable accuracy
- For bolts from 1" to 2½" long

Description	Order No.
Rod Bolt Stretch Gauge	RBSG-3
Optional Contact Point	ERBG-3T



Most engine rod faulty parts, they're from

failures aren't from improper installation. When you're installing the

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.



American Made **Dial Bore Gauge**

Setting Fixture

- Fast, accurate setting from 2" to 6"
- · Billet steel construction with a tool black finish
- Sets most popular bore gauges including Mitutoyo, Phase II, Fowler and Peacock • Will not fit Sunnen® Bore Gauges (see page 119 for Sunnen setting fixture)
- .001" increment micrometer 3 setting standards (1", 2" & 3") included • Carrying case included
- Order No. DBG-FIX

Cylinder Dial **Bore Gauge Sets**

- Easy to read Insulated grip
- Measure cylinders up to 9" deep
- Graduations: .0005" Self-centering
- Chrome plated handle
- · Includes extension holder and fitted case

Range	Order No.
0.7" - 1.4" (18-35.6mm)	FBG-7
1.4" - 6.0" (35-150mm)	FBG-146



Dial Bore Gauge Set

- Rugged bore gauge with protected dial
- Carbide tipped contact points
- .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 120) or **DBG-FIX** (pictured above)

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 Indicator		MMCB-06IND
Replacement Dial Cove	Replacement Dial Cover	



- Measure cam bores, main bores and other hard-to-reach areas directly
- · No passing through other bores to measure inboard journals • .100" travel in .0001" increments
- Metric has 3mm travel in .01mm resolution
- 3 spacers, 11 probes and case included

Range	Graduations	Order No.
2.0" - 6.0"	.0001" / .0025mm	MCB-90
50-160mm	.01mm	DMBG-50160



(.100", .050" and .020"), probes and case

Description	Range	Probes	Resolution	Order No.
Standard US	2" - 6"	11	.0005"	EBG-265
Standard US	2" - 6"	11	.0001"	EBG-261
Metric	35 - 160mm	12	.01mm	MCBG-160
11 Pc. Replac	ement Spacer	Set		EBG-ANVILS



- 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) / 1/64th
- Spring loaded locking nut
- Order No. IEC-56

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
- Include molded storage case with all tools and wrenches required for setup and adjustment

- · Measures to within .200" of the bottom of a blind bore
- · Carbide balls replaceable in the indicating fingers
- · Set with SCF-502 Setting Fixture
- · Non-retractable gauge

- · Measures to within .270" of the bottom of a blind bore
- · Carbide balls replaceable in the indicating fingers
- · 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-2241 / GR-2245

- · Measures to within 500" of the bottom of a blind bore
- · Carbide balls replaceable in indicating fingers and extension points
- · Set with CF-1126 Setting Fixture
- · Non-retractable gauge

	Diamete	r Range	Max Gaugi	ng Depth	Overall Le	ength	.0001" Reading	.0005" Reading
	in	mm	in	mm	in	mm	Order No.	Order No.
.4	95" to .750"	12.6 to 19.0	7.00"	175	11.8125"	302	GA-4141	
.7	40" 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	
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	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
- Dial Bore Gauge diameter range: 0.054" to 0.535" (1.37 to 13.6mm)

Description			Order No.	
1-Small Diameter Dial Bore C	Sauge		GR-3000	200
2-Adjustable Probes	Range in	mm		1: 400 3
	.165" to .189"	5.69 to 6.71	G-1180	0.01 = 1
How to Order:	.185" to .209"	6.05 to 7.05	G-1200	0000
	.205" to .228"	6.83 to 7.85	G-1220	
1 - Gauge	.224" to .248"	7.62 to 8.64	G-1240	
2 - Probe	.244" to .268"	8.43 to 9.45	G-1260	
	.264" to .287"	9.22 to 10.24	G-1280	
3 - Transfer Pin	.283" to .307"	10.01 to 11.02	G-1300	7
4 - Probe	.303" to .327"	10.82 to 11.84	G-1320	7
	.323" to .346"	11.61 to 12.62	G-1340	
Extension	.343" to .366"	12.40 to 13.41	G-1360	
	.362" to .386"	12.40 to 13.41	G-1380	
3-Transfer Pin (fits all probes	above)		G-2264	
4-Probe Extension	-		KZIX-3500	



Carbide indicating points are long

Shock-Shield

protects dial from hand

jarring to assure

accurate reliable

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

Gauges are TENTH

and .0005" readouts are also available (special order). Dial can be indexed 90° for easy reading at any angle.

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
Caugas & Satting Fixtures Sold Sonar	atoly

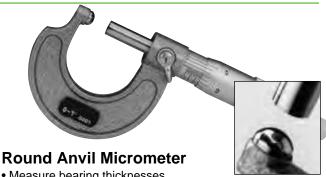


Premium Micrometers

• Precision ground carbide anvil parallel to within .0001"

• .0001" graduations • Set includes wood storage case

.ooo i giaaaaaaa	Oot moladoo wood otorag	,0 0000	
Description	Range	Order No.	Incl.
Micrometer Set	(wood storage case)	EMS-06	•
Individual Micrometers	0"-1"	EMIC-01	X
	1"-2"	EMIC-12	X
Each Micrometer	2"-3"	EMIC-23	X
includes a Standard,	3"-4"	EMIC-34	X
Spanner Wrench & Case	4"-5"	EMIC-45	X
	5"-6"	EMIC-56	Х



- Measure bearing thicknesses
- 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

Valve Seat **Run-Out Gauge**

- Measure run-out to .001"
- · Hardened guide bushings and contact pilot
- Quick thumb screw set-up
- Jeweled bearing indicator reads to ±.050" with .001" precision
- Range: 1.00" 2.50"

rtange. 1.00	2.00	
Pilot Size		Order No.
.375" / 9.53mm		VSG-375
.385" / 9.78mm		VSG-385



Open and close the padded jaws to accommodate most micrometers and dial bore gauges

Easy to reach knob adjusts the head angle

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





Mitutoyo

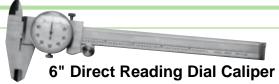
Small Hole Gauge Set

- · See if rebuilding or replacement is needed by checking actual 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"-.500" / 3.2-12.7mm
- Storage case included
- Order No. SHG-5

Precision Valve Seat Run-Out Gauge

- Use with .375" Top Pilot
- 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
- Order No. SCG-375





- 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
- Adjustable bezel with lock
- Thumb roll with lock
- 1%6" jaw length
- · Large easy to read dial
- · Covered rack · Deluxe fitted case
- Order No. MDC-03



- · Adjusting slide for fine adjustment

- Take Inside, Outside and Depth 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



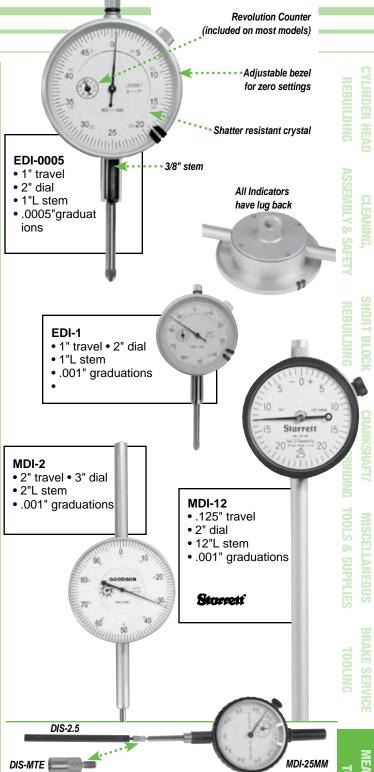
- Accuracy: .0008" under 4" length / .0012" over 4" length
- .0005" (.01mm) resolution
- · Automatic floating zero
- Used to take Inside and Outside measurements
- Direct inch/metric Conversion
- · Large, high-contrast LCD display
- · On/Off Button · Deluxe fitted case

Description	Order No.
Digital Caliper	EEDC-06
Replacement Battery	EDC-06B

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	Conversion	Converted
Measurement	Formula	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)



Metric Dial Indicator & Accessories

• Use your metric dial indicator with standard spindle extensions! • The Metric Dial Indicator Point Adaptor mounts to your dial indicator to convert its threads from 2.25mm to 2x48 TPI.

Description		Order No.
Metric Dial Indicator		MDI-25MM
Metric Dial Indicator	Point Adaptor	DIS-MTE
Spindle Extensions	1½"	DIS-1.5
	2½"	DIS-2.5
	3"	DIS-3.0

Includes Dial

Indicator

Dial indicators sold separately

Deck Bridge Tools

- Verify deck height without removing block from roll over fixture
- Flat anvil surface makes full contact
- · Use Deck Bridge with either 1 or 2 dial indicators

Designed for multiple set-ups

Description	Order No.
Deck Bridge (4½" span)	MDBS-2
Dial Indicator (12" OAL)	MDI-12
Dial Indicator Flat Anvil	MDI-12A
Economy Dial Indicator	EDI-1





- Confirm seat height to fire deck location
- 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



Universal **Magnetic Base Holders**

- Fit any type of dial indicator
- Magnetic base features an on-off switch with magnetic pull of 90 pounds
- 3/" diameter 7" high vertical column
- 2" x 2½" x 2¼" base
- Available with or without Fine Adjustment Feature

Description	Order No.
Universal Holder	MBR-1
With Fine Adjustment	MBR-1F

Magnetic Mounting Base With 13" Flexible Arm

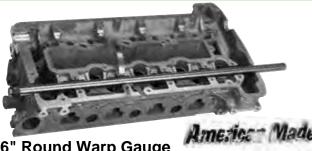
- · Adjusts easily and locks tightly in any position
- 150 pounds of magnetic force
- · Locks in place with a single lever
- Order No. MFB-1



Precision Straight Edges & Warp Gauge

• Accuracy .0005" per foot

Description	Order No.
24" straightedge, 1 precision edge	DIS-24
36" straightedge, 1 precision edge	DIS-36
24" straightedge, 2 precision edges	DIS-20
35" straightedge, 2 precision edges	DIS-30



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 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.	
Comp	lete Kit	FE-KIT	▼
	.0015"	FE-0015	X
	.0020"	FE-002	X
	.0030"	FE-003	X
	.0040"	FE-004	X
	.0050"	FE-005	X
	.0060"	FE-006	X
	.0070"	FE-007	X
	.0080"	FE-008	X
	.0090"	FE-009	X
	.0100"	FE-010	X
	.0150"	FE-015	X
	.0200"	FE-020	X

6 Piece **Telescoping Gauge Set**

- · Compress spring plunger and 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



Solid Viton Seals With Metal Jacket & Choker Spring

16 Per Package

Stem	OAL	Seal	Α	В	С	D	
Dia.		OD					Order No.
7.0mm	0.510"	0.665"	0.560"	_	0.375"	_	71028
.312"	0.412"	0.566"	0.420"	_	0.275"	_	71010
.312"	0.514"	0.671"	0.530"	_	0.330"	_	71045
.375"	0.516"	0.661"	0.562"	_	0.210"	_	71011

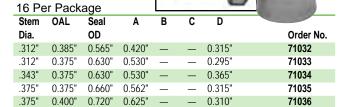
Solid Viton Seals With Metal Jacket & **Integral Spring Base**

16 Per Package

• Spring Shoulder Diameter: 0.970"

Stem	UAL	Seai	А	В	C	U	
Dia.		OD					Order No.
7.0mm	0.974"	1.457"	0.560"	_	0.700"	_	71030

OE Style Seals Solid Teflon With Metal Jacket



Aluminum Seal Drivers

· A must-have tool for installing valve seals

Seal Size	Order No.
6.0mm	VSD-6MM
7.0mm	VSD-7MM
5/16"	VSD-312





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 (5/16" Stem)	Red	0.575"	20-20830
Pan/Shovelhead 74"	Black	0.673"	20-20833
Ironhead Sportster	White	0.638"	20-20832
Shovelhead 80"	Blue	0.728"	20-20831

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 Parlacement Value Code For Shared Uncertainty										
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 Seat	s For Sho	vel, Evolu	tion & Twin Cam - machini	ing required						
	OD	ID	Thickness	Order No.						
	1.630"	1.180"	.385"	10-HC414						
	1.757"	1.410"	.430"	10-HC447						
	1.882"	1.530"	.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						
	1.945"	1.375"	.440"	10-HC494						
	2.257"	1.550"	.500"	10-HC573						
	A11.	Ind Ohner	as Value Casta an Dana 44							

Nickel Chrome Valve Seats on Page 14



When installing seats preheat head to 400° and freeze the seat for easier installation. Press fit .006" to .008".

.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 HVS-421 seal (above)
- Order No. VSC-420312



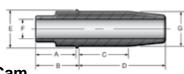
Goodson. A lot of companies could learn from your staff. To top it off, the supplies are top notch and ship very quickly."

- Dan Degenhardt, Degenhardt Garage, Coon Valley, WI, Goodson Customer since 1999 kibblewhite

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 (below).

Order No. VGD-315420



Evolution, Twin-Cam & Sportster With 5/16" (.312") Valves

Use with 71010 Viton Seals or 71032 OF Style Seals.

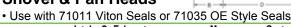
			Manganese	Cast				
Α	В	С	D	Е	F	G	Bronze	Iron
.650"	.700"	.800"	1.400"	.615"	.3098"	.5620"	20-2120M	20-2120C
						.5630"	20-2121M	20-2121C
						.5640"	20-2122M	20-2122C
						.5720"	20-2129M	20-2129C
			Manganese	Cast				
				•			Manganese	Gasi
Α	В	С	D	E	F	G	Bronze	Iron
A .650"	B .700"	-	_		F .3098"	-	Ū	
	_	-	_	Е	•	-	Bronze	Iron
	_	-	_	Е	•	.5620"	Bronze 20-2130M	Iron 20-2130C

Evolution

Use with 71045 Viton Seals

	USC	VVICII	/ 104	o vito		J10			
ľ				Manganese	Cast				
	Α	В	С	D	Е	F	G	Bronze	Iron
	.620"	.665"	.737"	1.435"	.615"	.3100"	.5620"	20-20860M	
							.5630"	20-20861M	
							.5640"	20-20862M	
							.5720"	20-20869M	
			I	Exhaust	ì			Manganese	Cast
	Α	В	C	Exhaust D	E	F	G	Manganese Bronze	Cast Iron
	A .620"	_	С		Е	•	G	•	
		_	С	D	Е	•	G	Bronze	
		_	С	D	Е	.3096"	G .5625"	Bronze 20-20870M	
		_	С	D	Е	.3096"	G .5625" .5635"	Bronze 20-20870M 20-20871M	

Shovel & Pan Heads



Ī			Inta	Manganese	Cast					
Ī	Α	В	С	D	Е	F	G	Bronze	Iron	
	.450"	.540"	.810"	1.340"	.745"	.3745"	.5650"	20-2020M	20-2020C	
							.5660"	20-2021M	20-2021C	
							.5670"	20-2022M	20-2022C	
							.5680"	20-2023M	20-2023C	
							.5750"	20-2029M	20-2029C	

Twin Cam

Use with 71028 Viton Seals

use	WILLI	1102	8 VIIO	11 56	ais			
			Intake				Manganese	Cast
Α	В	С	D	Е	F	G	Bronze	Iron
.685"	.735"	.702"	1.305"	.615"	.2750"	.5620"	20-20690M	
						.5630"	20-20691M	
						.5640"	20-20692M	
						.5720"	20-20699M	
		I	Exhaust	t			Manganese	Cast
Α	В	С	D	Е	F	G	Bronze	Iron
.650"	.700"	1.150"	1.450"	.615"	.3098"	.5620"	20-20700M	
						.5630"	20-20701M	
						.5640"	20-20702M	
						.5720"	20-20709M	

Sportster (1970-1983)

Use with 71033 (intake) and 71034 (exhaust) Viton Seals

			Intake				Manganese	Cast
Α	В	С	D	Ε	F	G	Bronze	Iron
.470"	.545"	.700"	1.225"	.745"	.3085"	.5650"		20-2320C
						.5660"		20-2321C
						.5670"		20-2322C
						.5750"		20-2329C
			Exhaust	t			Manganese	Cast
Α	В	C	Exhaust D	t E	F	G	Manganese Bronze	Cast Iron
A .470"	B .545"	С		Е	•	-	•	
		С	D	Е	•	-	•	Iron
		С	D	Е	•	.5650"	•	Iron 20-2330C
		С	D	Е	•	.5650" .5660"	•	Iron 20-2330C 20-2331C



Shovel Head 80" (1978-1983)

• Use with 71011 Viton Valve seals or 71036 OE Style Seals

			Intake				Manganese	Cast
Α	В	С	D	Е	F	G	Bronze	Iron
.450"	.540"	.755"	1.370"	.745"	.3745"	.6250"	20-2050M	20-2050C
						.6260"	20-2051M	20-2051C
						.6270"	20-2052M	20-2052C
						.6500"	20-50HSM	20-50HSC
			Exhaust	t			Manganese	Cast
Α	В	С	D	Е	F	G	Bronze	Iron
.450"	.540"	.755"	1.370"	.745"	.3745"	.6250"	20-2060M	20-2060C
						.6260"	20-2061M	20-2061C
						.6270"	20-2062M	20-2062C
						.6500"	20-60HSM	20-60HSC

High Performance Valves





Always check and confirm running clearances when installing new valves.

Black Diamond® Valves for Harley-Davidson® Engines

• Light and strong with optimum airflow

A combination of FEA stress analysis and flow bench testing of prototype valves allows our engineers to optimally balance valve mass, strength and airflow characteristics. A unique tulip and dish are designed for each application.

• Stellite tips for rocker applications

Stellite is welded to the valve tips in rocker actuated applications for resistance the impact and abrasive wear common in rocker arm systems. This welded stellite can never come loose.

Black Diamond™ Valves

One piece forged stainless steel valves impregnated by a special German process to improve wear properties and reduce friction. This process provides resistance to corrosion and wear that is superior to that of a hard chromium and electrolysis

nickel plating.

Application	Туре	Head	Stem	Tulip		Overall	
		Diameter	Diameter	Radius	Angle	Length	Black Diamond™
Milwaukee Eight™	Intake	1.571" (39.90mm)	0.2347"	0.235	10°	4.015"	20-21012
	Intake	1.591" (40.40mm)	0.2347"	0.235	10°	4.015"	20-21015
	Intake	1.630" (41.40mm)	0.2347"	0.235	10°	4.055"	20-21013
	Exhaust	1.264" (32.11mm)	0.2342"	0.460	24°	4.050"	20-21016
	Exhaust	1.184" (32.11mm)	0.2342"	0.460	24°	4.050"	20-21017
Pan Head 1948-1965	Intake	1.750" (44.45mm)	0.3765"	0.234	23°	3.800"	20-4257
	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
	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
	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
	Exhaust	1.630" (41.40mm)	0.3384"	0.236	29°	3.512"	20-4197-1
	Exhaust	1.750" (44.45mm)	0.3384"	0.236	29°	3.620"	20-4168
Shovelhead 74"	Intake	1.950" (49.53mm)	0.3765"	0.234	23°	3.885"	20-4194
966-1977	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
	Exhaust	1.780" (45.21mm)	0.3760"	0.234	29°	3.820"	20-4195S
	Exhaust	1.812" (46.02mm)	0.3760"	0.234	29°	3.820"	20-4195-1
Shovelhead 80"	Intake	1.950" (49.53mm)	0.3780"	0.234	23°	3.885"	20-4294
978-1983	Exhaust	1.750" (44.45mm)	0.3775"	0.234	29°	3.810"	20-4295
volution 1984-1999	Intake	1.840" (46.74mm)	0.3100"	0.236	23°	4.445"	20-4171
1000	Intake	1.990" (50.55mm)	0.3108"	0.675	25°	4.440"	20-20905
	Intake	1.940" (49.28mm)	0.3108"	0.675	25°	4.440"	20-20910
	Intake	1.900" (48.26mm)	0.3108"	0.675	25°	4.440"	20-20915
		1.900" (48.26mm)	0.3100"	0.344	28°	4.420"	20-4171R
	Intake (Nacing)	2.150" (54.61mm)	0.3108"	0.550	24°	4.480"	20-20900
	Exhaust	1.615" (41.02mm)	0.3096"	0.336	29°	4.525"	20-4170
		1)1.630" (41.40mm)	0.3096"	0.230	40°	4.525"	20-4170R
	Exhaust (Racing	1.650" (41.91mm)	0.3096	0.300	40 25°	4.515"	20-20920
					25°		
	Exhaust	1.610" (40.89mm)	0.3106"	0.750		4.510"	20-20925
· C	Exhaust	1.585" (40.26mm)	0.3106"	0.750	25° 23°	4.505"	20-20930
Evo Sportster	Intake	1.715" (43.56mm)	0.3100"	0.236		4.550"	20-2010
Conversion	Exhaust	1.480" (37.59mm)	0.3096"	0.500	40°	4.625"	20-2012
win Cam 88"-103"	Intake	1.805" (45.85mm)	0.2760"	0.413	1.700"R	4.420"	20-20322
005-2017	Intake	1.900" (48.26mm)	0.2760"	0.344	28°	4.420"	20-20323R
	Exhaust	1.575" (40.00mm)	0.2755"	0.354	22°	4.520"	20-20325
	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
	Exhaust	1.575" (40.00mm)	0.2755"	0.500	34°	4.610"	20-20265
	Exhaust	1.615" (41.02mm)	0.2755"	0.500	34°	4.590"	20-20266

Panhead 1948-1965 Valve Spring Kit

OE Replacement

Max Installed Seat

- Springs are heat-treated and shot peened for long life
- Kits include 4 Retainers,4 Springs and 4 Keepers and 4 Basewashers

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.415"	1.375"	129 lbs.	272 lbs.	.415"	20-20430

Shovelhead™ 74" 1966-1977 Valve Spring Kit

- Springs heat-treated and shot peened for long life
- Kits include 4 Retainers,4 Springs and 4 Keepers and 4 Basewashers

Lift	Height	Pressure	Pressure	Lift	Order No.
.600"	1.510"	152 lbs.	387 lbs.	.600"	20-2110
Lightv	veight Raci	ng Spring I	Kit 7075-T6	Retainers o	offset 0.070" for taller installed
height.	Basewash	ners are cou	nter-bored to	accept a (0.665" OD seal.
Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.600"	1.510"	152 lbs.	387 lbs.	.600"	20-20450
Lightv	veight Raci	ng Spring I	Kit Steel Ret	ainers	
Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.415"	1.375"	129 lbs.	272 lbs.	.415"	20-20435
OE Re	placement	Steel Retai	ners, Keepe	rs & Basew	vashers

Evolution™ 1984-1999 Valve Spring Kit

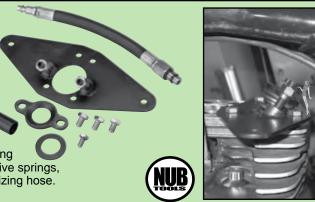
- Springs heat-treated and shot peened for long life
- Kits include 4 Retainers,4 Springs and 4 Keepers and 4 Basewashers

_ + D	ascwasi	1013			
Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.600"	1.810"	175 lbs.	380 lbs.	.600"	20-20132
Lightv	veight Raci	ng Spring I	Kit Steel Ret	ainers, Ke	epers & Basewashers
Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.655"	1.860"	185 lbs.	450 lbs.	.655"	20-20081
Lightv	veight Raci	na Sprina I	Kit Steel Ret	ainers. Ke	epers & Basewashers



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**



Beehive Valve Spring Sets for 5/16" (.312") Valves • 9º taper on .660" lift 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
- Kits include 4 Retainers, 4 Springs and 4 Keepers and 4 Basewashers

Max	Installed	Seat	Open	@	
Lift	Height	Pressure	Pressure	Lift	Order No.
.610"	1.860"	175 lbs.	400 lbs.	.610"	20-21300
.660"	1.860"	178 lbs.	371 lbs.	.660"	20-21500

Beehive Valve Spring Sets

- 9º taper on .660" lift kits
- spring harmonics, stress, mass and operating RPM
- Premium grade, super clean ground chrome silicon wire
- Kits include 4 Retainers, 4 Springs and 4 Keepers and

7 0	ascwasi					
Max	Installed	Seat	Open	@		
Lift	Height	Pressure	Pressure	Lift	Order No.	
.610"	1.860"	175 lbs.	400 lbs.	.610"	20-21400	
660"	1 860"	178 lbs	371 lhs	660"	20-21550	

for 7mm Valves

- Advanced spring design with special attention to cam and
- 4 Basewashers

Max Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift	Order No.
.610"	1.860"	175 lbs.	400 lbs.	.610"	20-21400
.660"	1.860"	178 lbs.	371 lbs.	.660"	20-21550

you're looking for? Goodson can special order virtually anything

Don't see what

20-21400

in the Kibblewhite Precision **Machining catalog.**

Compression Release Valves

- 2 per pack
- 10 x 1.0mm thread
- · High temperature resistant knobs
- · Shorter thread sections makes



Pan/Shovel Spring Seat Cutting Tool

- Convert Pan & early Shovels 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 (HHC-4) 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. 39) and **PSB-5000** (p. 38)

M	Size	Order No.
W	4mm / .1563"	VKI-4
M	5mm / .2031"	VKI-5
ti	6mm / .2344"	VKI-6
	7mm / .2812"	VKI-7
10	8mm / .3125"	VKI-8
W	Replacement Rubber Sleeve	VKI-56
18		



A rapid-use index of product categories

RAPIDEX

Cylinder Head Rebuilding

Pilots	1-3
Valve Seat Work	4-22
Valve Refacing	23-25
Reamers	26-27
Valve Guide Resizing	28-30
Valve Guide Replacement	31-35
Valve Seal Work	36
Valve Spring Work	37-43
Cylinder Head Resurfacing	44-47
Crack Detection & Repair	48-53
Porting & Polishing	58-60
Oleonina Accombly 0 C	-6-1

Cleaning, Assembly & Safety

Parts Storage & Organizers	61, 69
Wire Wheels & Brushes	62-63
Cleaning	62-69
Parts Baskets	68
Last Blast Paint & Metal Markers	70
Assembly Lubes	71
Flex-Hones [®]	72

Index Falls between pages 72 and 73 Coolants & Lubricants73

Short	Block	Rebuil	lding
Culindar Dar	0		

Cylinder Boring & Honing	74-81
Boring Bar Tooling & Supplies	74-75
Honing Stones	76-81
Rod Honing	82-83
Rod & Piston Work	84-89
Lifter Bore Tooling	91
Camshaft Work	92-93

Crankshaft/Flywheel Grinding

Crankshaft Grinding Wheels	94-95
Crankshaft Grinding & Polishing	96-100
Flywheel Grinding	102-104

Miscellaneous Tools

Diamond Dresser Tools	106-107
Machine Replacement Parts	108-109

Brake Service Tooling

Brake Tips & Holders	110-111
Brake Lathe Silencers	112
Brake Lathe Replacement Parts	113-115
Brake Lathe Mounting Adaptors	116

Measuring Tools

Dial Bore Gauges	118-119
Micrometers	120
Calipers & Dial Indicators	121
•	

V-Twin & Metric Hard Parts

Seats & Seat Inserts	_
Valve Guides	124
Replacement Valves	125
Valve Springs	126-127
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the shop, at the track or just out and about!

Description	Color	Sizes	Order No.
Ladies' Cotton T-Shirt	Black	M, L, XL	RWW-GTB-"size"
Pre-Shrunk Cotton T-Shirts	White	L, XL, XXL	RW-GTW-"size"
	Black	L, XL, XXL	RW-GTB-"size"
Caps	Black	adjustable	RW-GR-CAP
Polyester/Cotton Sweatshirts	Gray	L, XL, XXL	RW-SS-"size"
	Black	L, XL, XXL	RW-SB-"size"
Microfiber Jacket	Black	L, XL, XXL	RW-MFJ-"size"
Shop Apron	Black	n/a	CA-100
Can Cooler	Black	n/a	RW-CC
Stocking Hat	Black	n/a	RW-SH

Source Code

Account Number

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3-D Fast CutTM Seat Cutting System is the most complete tool system available • Cut precise multi-angle seats with your existing pilots • Remove material and contour bowls with the

universal spring pad cutter

• Convert your

Sunnen® or Mira®

bowl profiler tool holderCut spring pads with the

Sunnen® or Mira® brazed cutters to 3-D with cutter holders

 Drive brazed carbide or indexable counter-bore cutters with the seat cutter driver

See pages 4 to 10 for complete details

