

ROTTLER

F69A CNC MACHINING CENTER

OPTIONAL EQUIPMENT CATALOG



ORDERING PROCEDURE

Contact your regional Rottler sales rep for assistance in ordering optional equipment, replacement parts, or tooling.

If you are unable to contact your regional Rottler sales rep, call the factory at 253-872-7050 and ask to speak to the parts sales specialist.

Have the following information handy to expedite the ordering process:

1. Your name, business name, and contact number
2. Customer number
3. If you don't have a customer number, your billing address
4. Shipping address if different from billing address
5. Machine model and serial number
6. Part number and description of what you want to order
7. Preferred method of shipment

You may also contact us via e-mail with the above information. Send e-mail requests to:
parts@rottlermfg.com

In some cases you may be requested to send a photo of the part you are ordering if it is a replacement part, or doesn't appear in the database.

If you are unsure which part you need to order, contact our service department and ask to speak to one of our service consultants. They will assist you in determining which part you require.

THERE IS A MINIMUM ORDER OF \$25.00



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SOFTWARE PACKAGES

6758T Automatic Boring, Sleaving

Including Lower Offset for Honing Clearance, Automatic Cycle
Contact your Rottler Sales Representative or the factory for complete details.

6758U Multiple Pass Programmable Depth Of Cut

Rough and Finish Milling/Surfacing, Automatic Cycle
Contact your Rottler Sales Representative or the factory for complete details.

6773B Main Line Bore Machining

Including Circular Interpolation Thrust Facing (See Below Thrust Facing Toolholder), Automatic Cycle
Contact your Rottler Sales Representative or the factory for complete details.

650-2-20A Lifter Bore Machining

Automatic Cycle
Contact your Rottler Sales Representative or the factory for complete details.

6758Z Stroker Crankshaft Connecting Rod Clearance Software Package

Contact your Rottler Sales Representative or the factory for complete details.

8300 Splayed 4 Bolt Main Cap Machining Software

Requires 9043 Rottler CAM Software

650-2-44Z Block Lightening

For World Products Small Block Chevy Motown
Contact your Rottler Sales Representative or the factory for complete details.

650-2-44Y Block Lightening

For Dart Small Block Chevy Little M
Contact your Rottler Sales Representative or the factory for complete details.

650-2-45K Block lightening

For Big Block Chevy Dart - Big "M" - Software Package
Contact your Rottler Sales Representative or the factory for complete details.

650-3-45M Connecting Rod Boring Software Package

Contact your Rottler Sales Representative or the factory for complete details.

ROTTLER CAM (COMPUTER AIDED MANUFACTURING) SOFTWARE

9043 Rottler CAM (Computer Aided Manufacturing) Software Package

When Rottler CAM #9043 is purchased together with a new machine, a three day introductory training course at Rottler factory is available for purchase. Additional training on Rottler CAM after the three day course is provided through instructional videos at www.RottlerTube.com or by internet and/or telephone support, charges apply.

RCAM-IH-INTRO

Three days introductory training for one person on Rottler CAM software at Rottler factory in a group class setting. Customers must have purchased #9043 Rottler CAM Software package before attending this training course. Customer must supply own Windows laptop. Full details of costs and conditions is available from the Rottler Sales Department.

AUTOMATIC CENTERING

650-3-59Y Renishaw Wireless Probing System

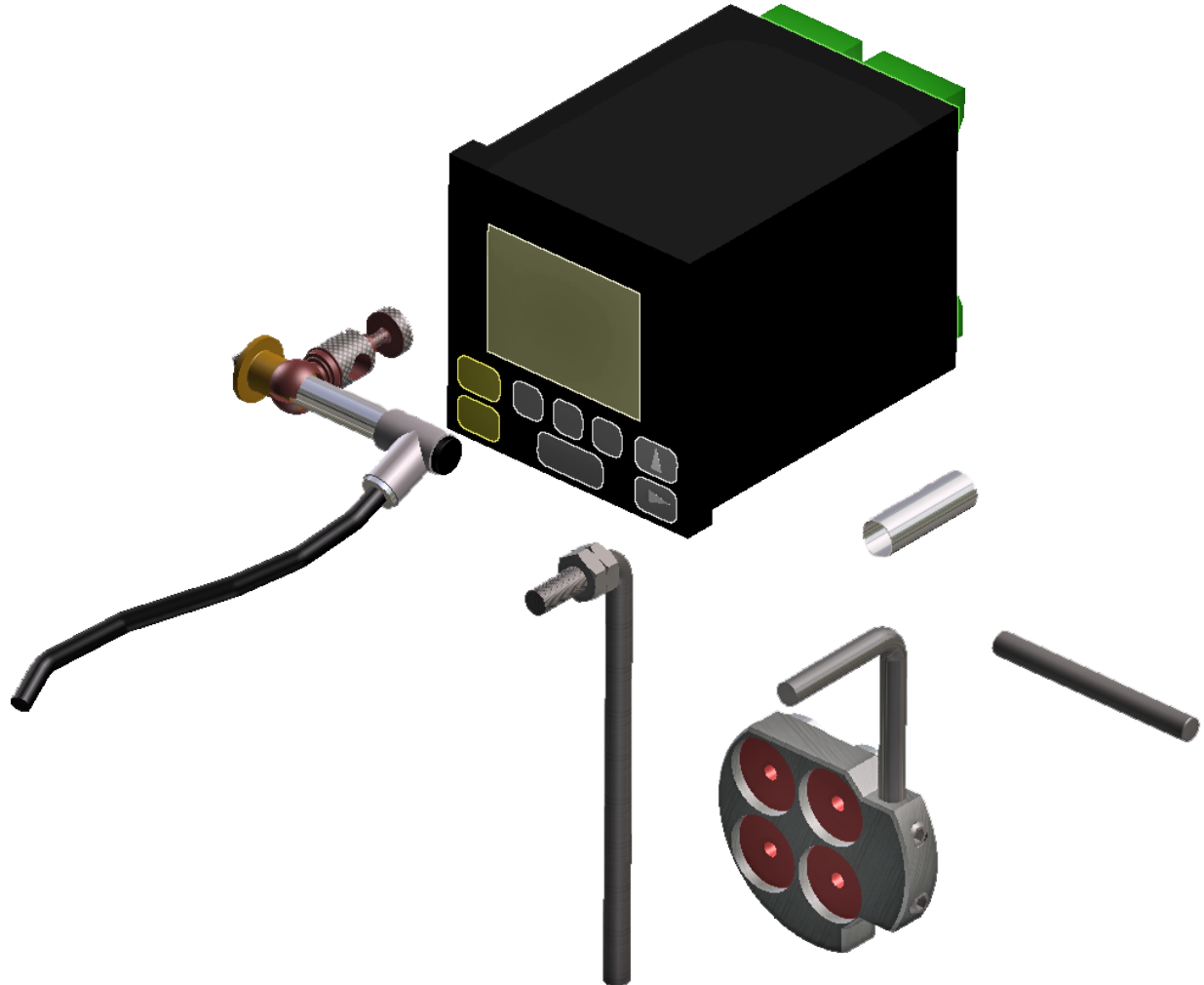
Including 6 Probes/Stylus and software. Designed to Work Together with Rottler 4th Axis Fixture System. Price Includes Factory Installation During Machine Manufacture, Extra Charge Applies.



MANUAL CENTERING

502-12-7B Digital Runout Probe and Readout

Including Magnetic Holder for Block Set Up and Manual Centering of Cylinder Bores and Main Line Bores

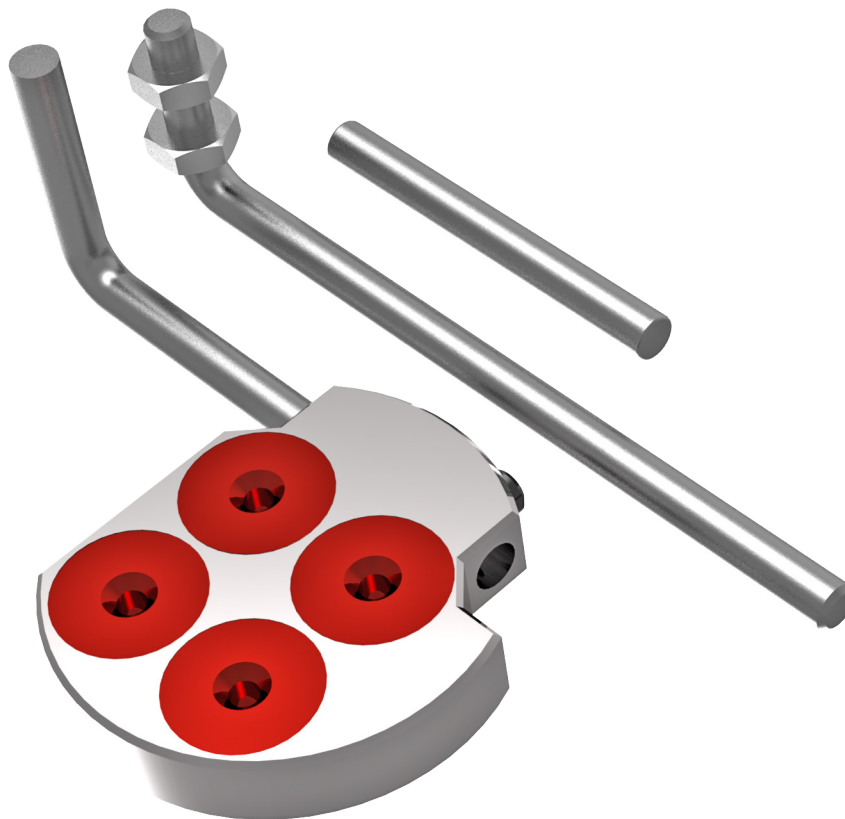


502-9-9A Mechanical run out indicator

General purpose (.001) resolution

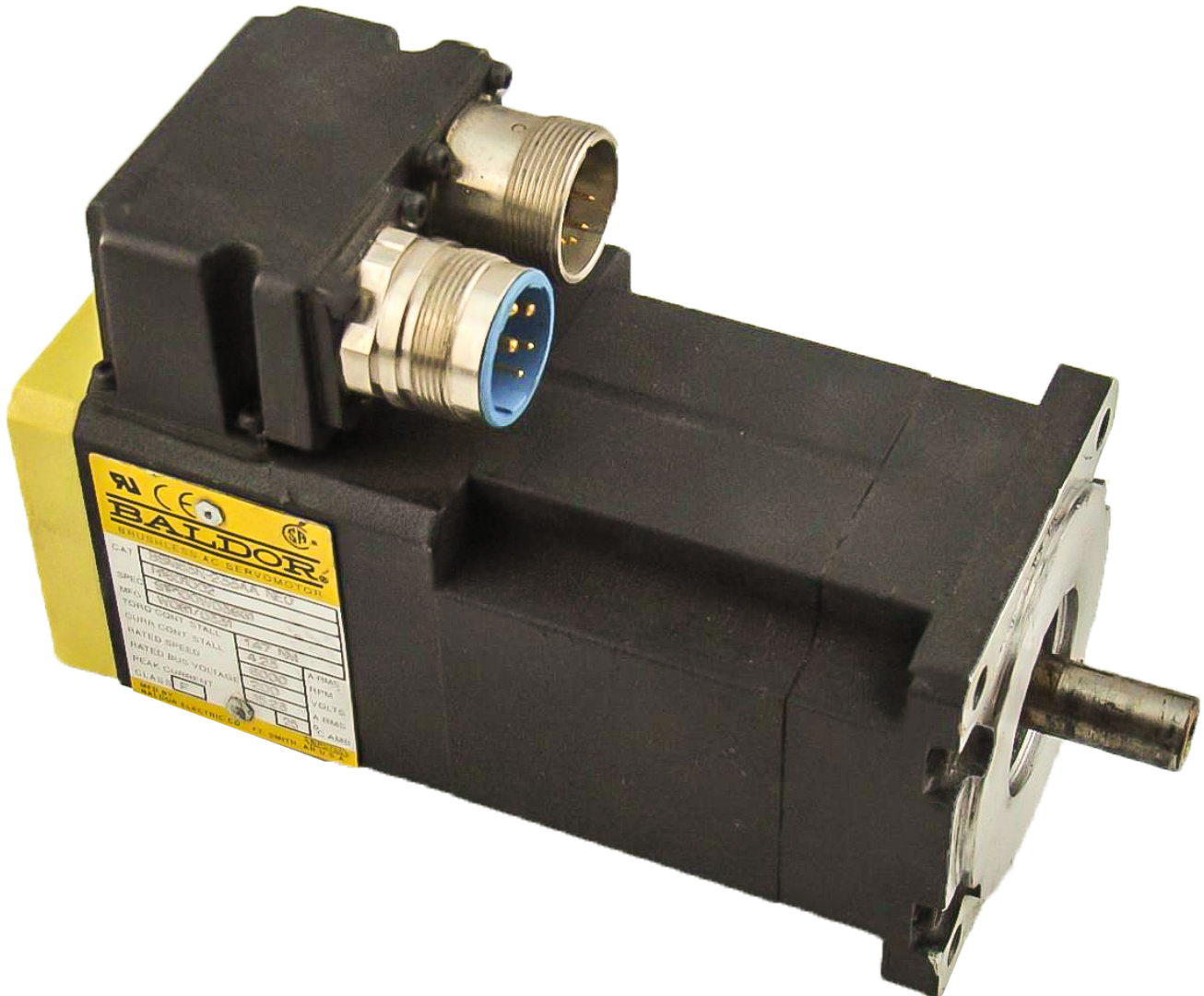
**502-12-4 Magnetic base**

With (2) extension arms for indicators (4) magnet base for cylinder boring bar



SPINDLE MOTOR OPTION**650-5-20N**

High Torque Spindle Motor - Max 2,000RPM. For Heavy Cutting Applications.



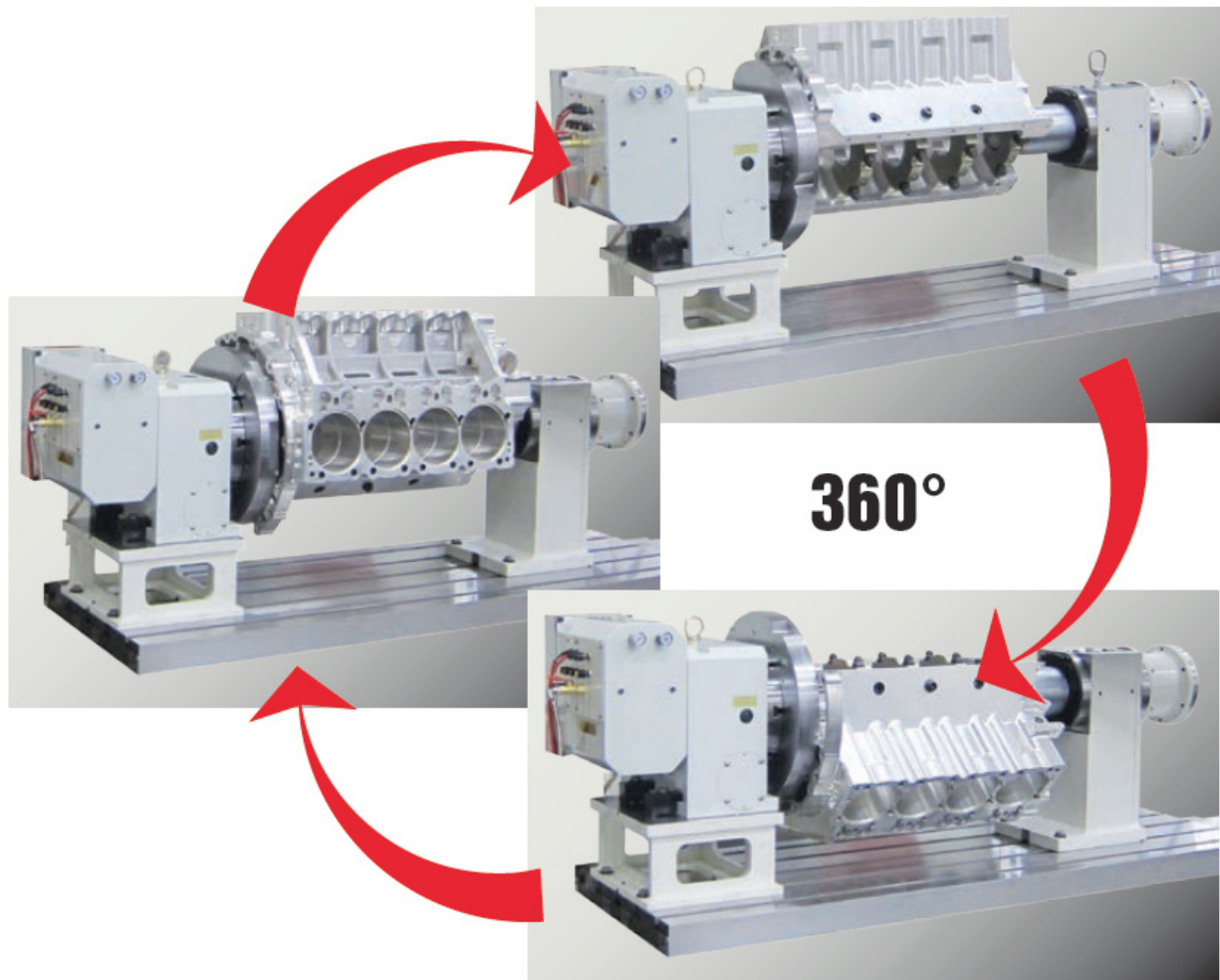
BLOCK FIXTURING

Automatic

690-3-63 Computer Controlled Automatic 4Th Axis Block Roll Over Fixture

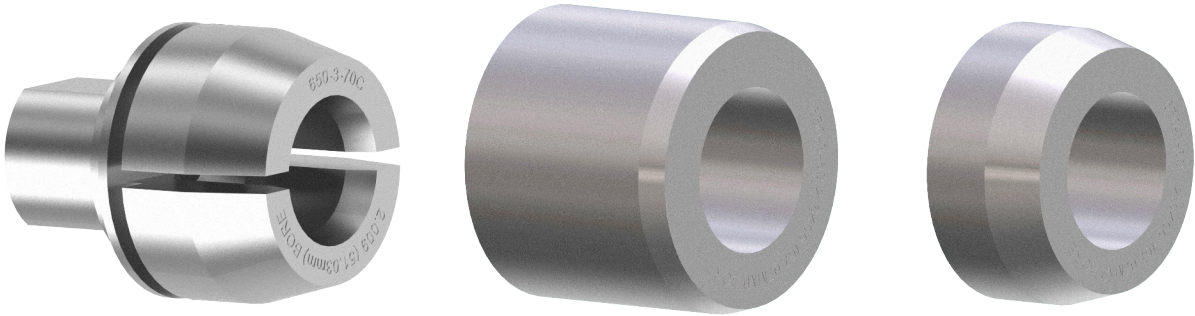
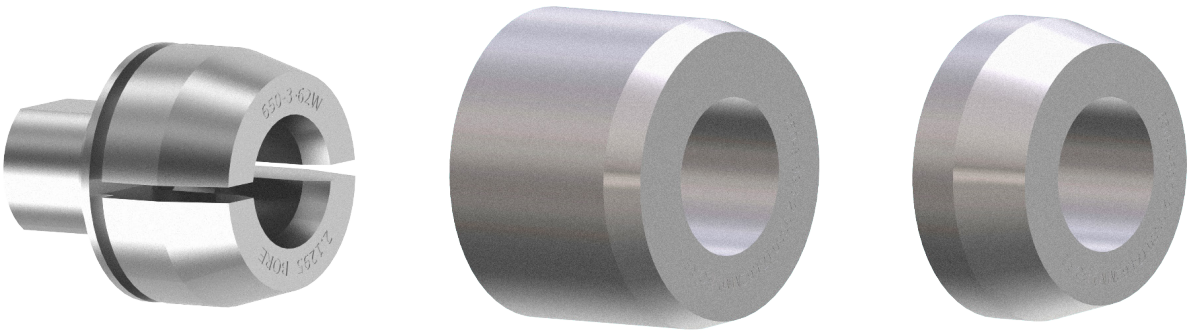
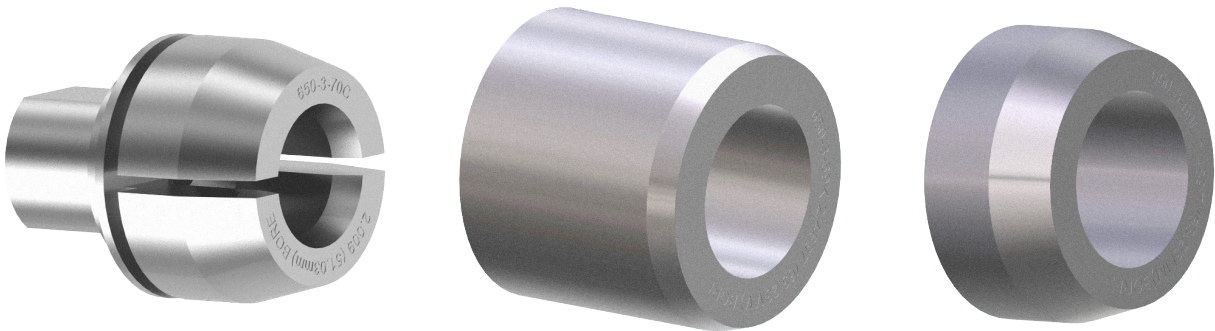
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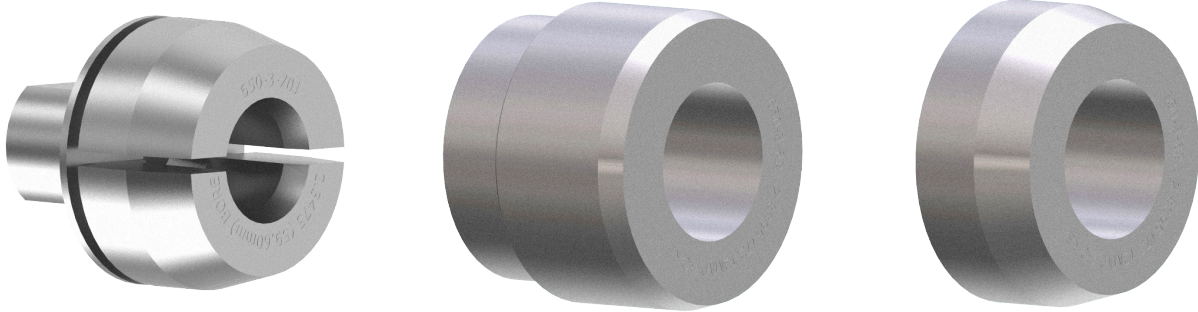
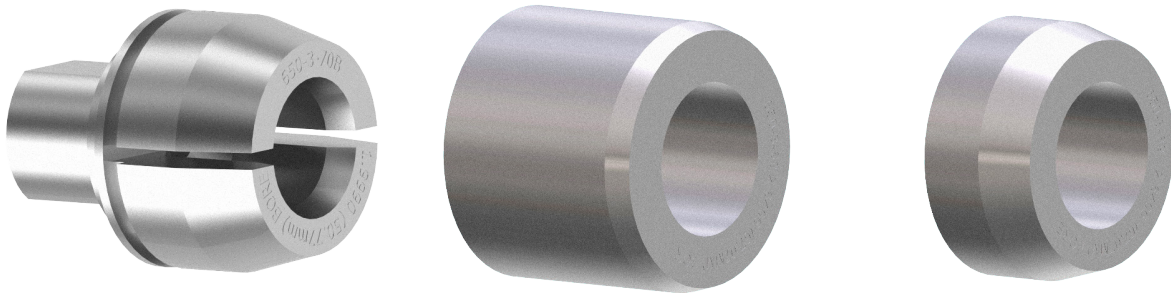
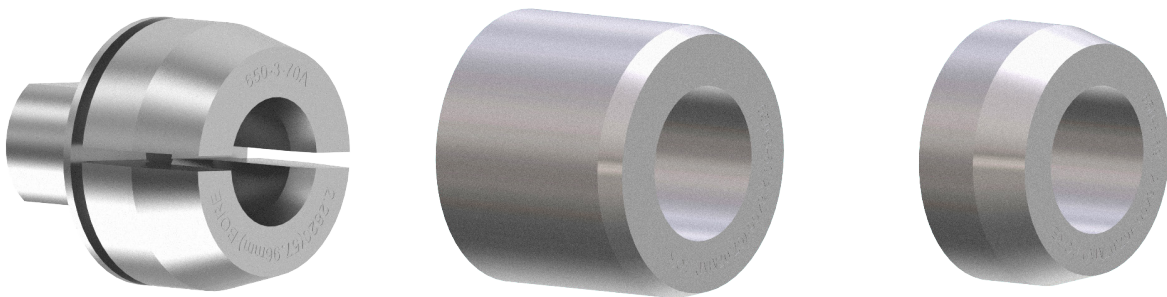
- 1: Rottler 4th Axis Software Packages.
- 2: Universal Engine Block Mounting System to Locate and Hold A Wide Variety of Camshaft Type V Blocks, Requires Main and Cam Bearing Locators to Precision Mount Blocks.
- 3: Adjustable Camshaft Centerline Locating Device to Set Up Camshaft Type V Blocks with Reference to the Centerline of their Camshaft and Crankshaft.
- 4: Power Tail Stock for Quick Mounting of Blocks and Rigid Support During Machining.

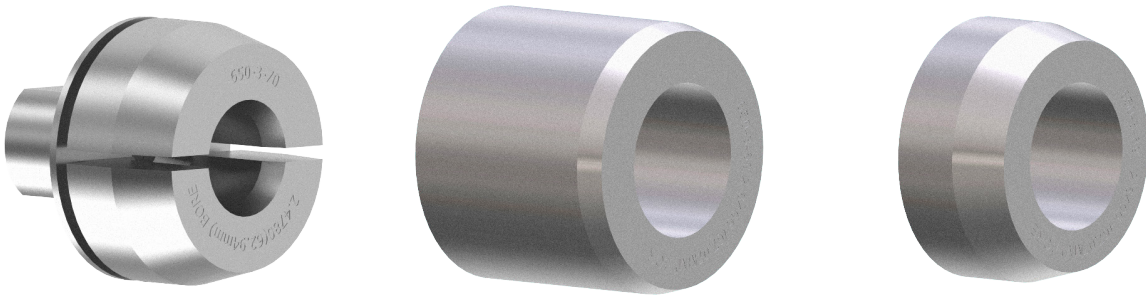
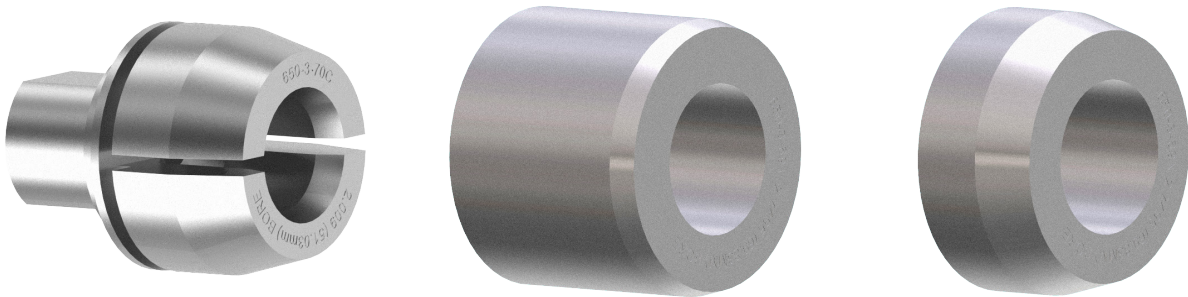
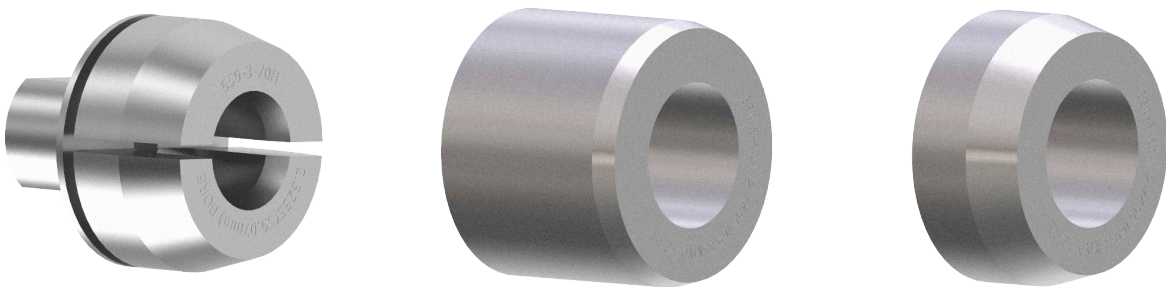


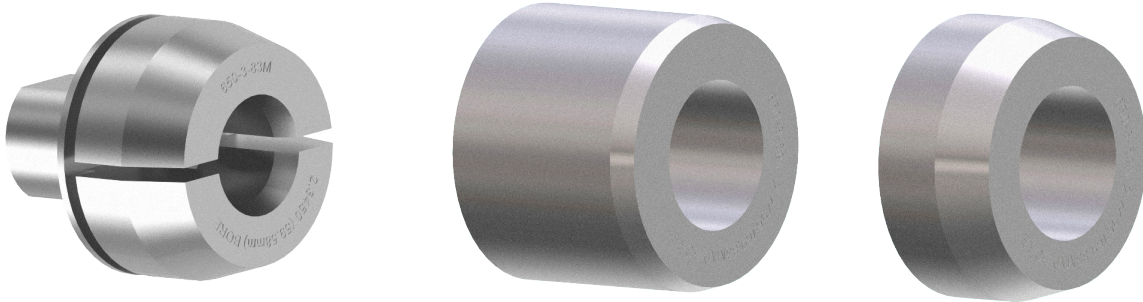
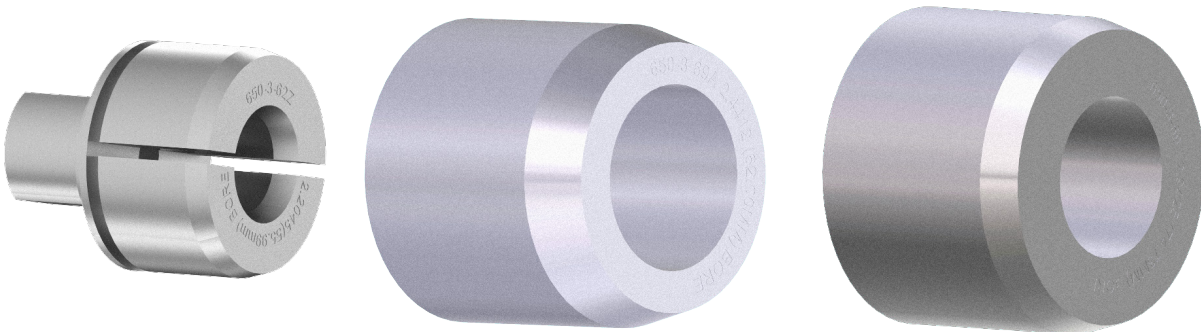
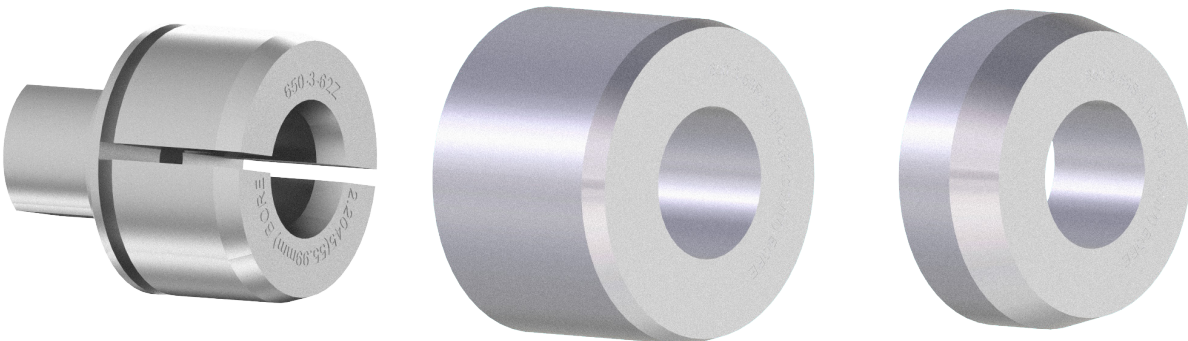
LOCATOR SETS

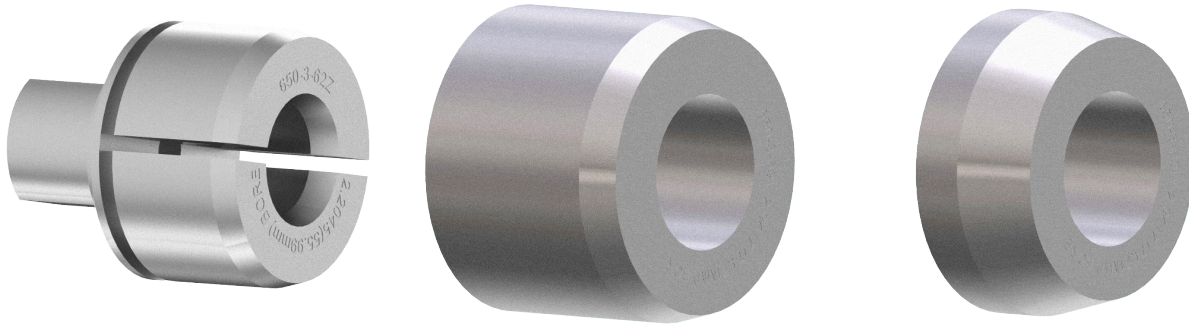
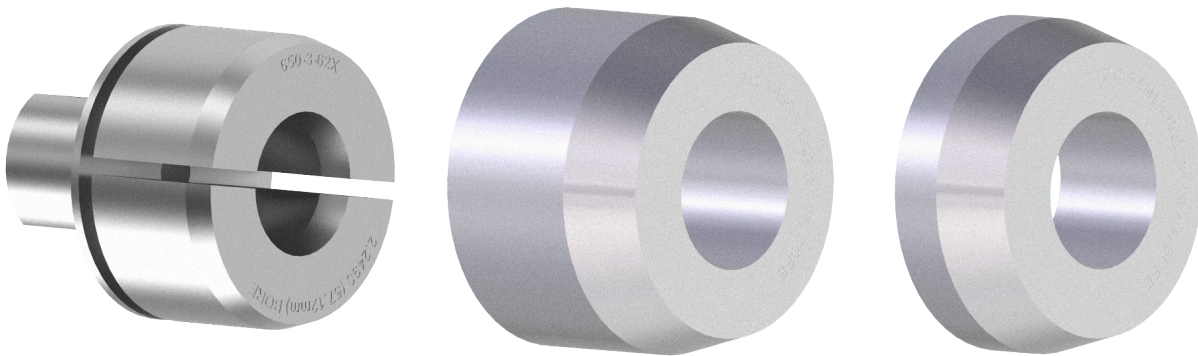
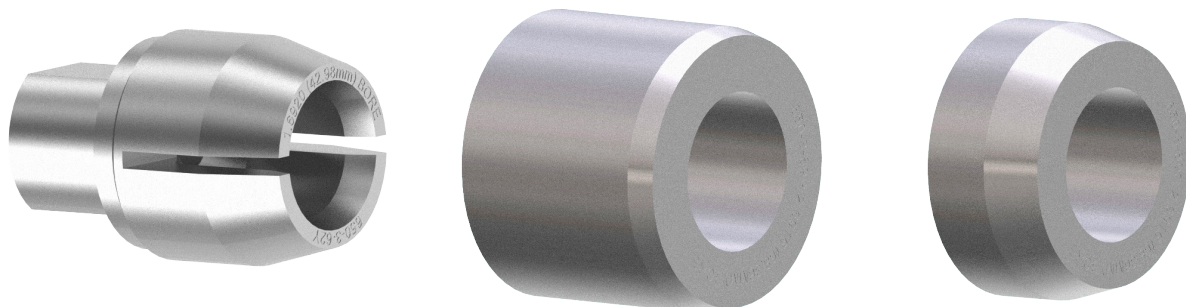
For 4th AXIS includes front & rear main locator and rear cam locator

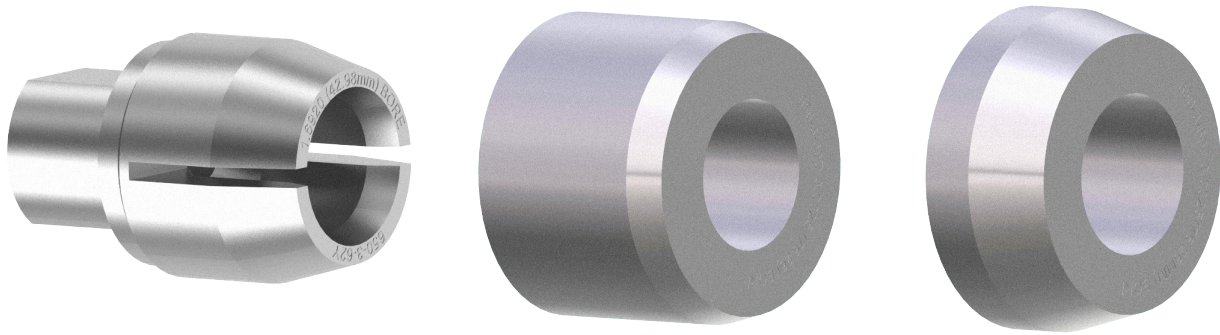
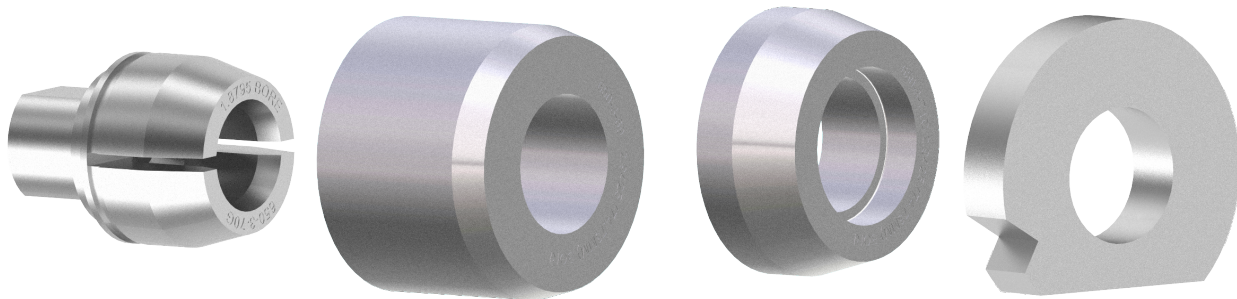
CHEVROLET SETS**650-3-68 Locator Assembly (Small Block Chevy)****650-3-68B Locator Assembly (Big Block Chevy)****650-3-68L Locator Assembly (327 Small Journal Crank)**

650-3-68J Locator Assembly (400 Small Block Chevy)**650-3-68G Locator Assembly (Chevy Bowtie Block)****650-3-68F Locator Assembly (Chevy 58mm Cam Bore) for 55mm Cam Journal**

650-3-68E Locator Assembly (Chevy 63mm Cam Bore) for 60mm Cam Journal**650-3-68M Locator Assembly (Chevy 5.3 liter 99 & Up)****650-3-68R Locator Assembly (Chevy Gen3 LS1 to LS6)**

650-3-68T Locator Assembly (Chevy LS7)**FORD SETS****650-3-68A Locator Assembly (Ford 289/302)****650-3-68H Locator Assembly (Ford 351W)**

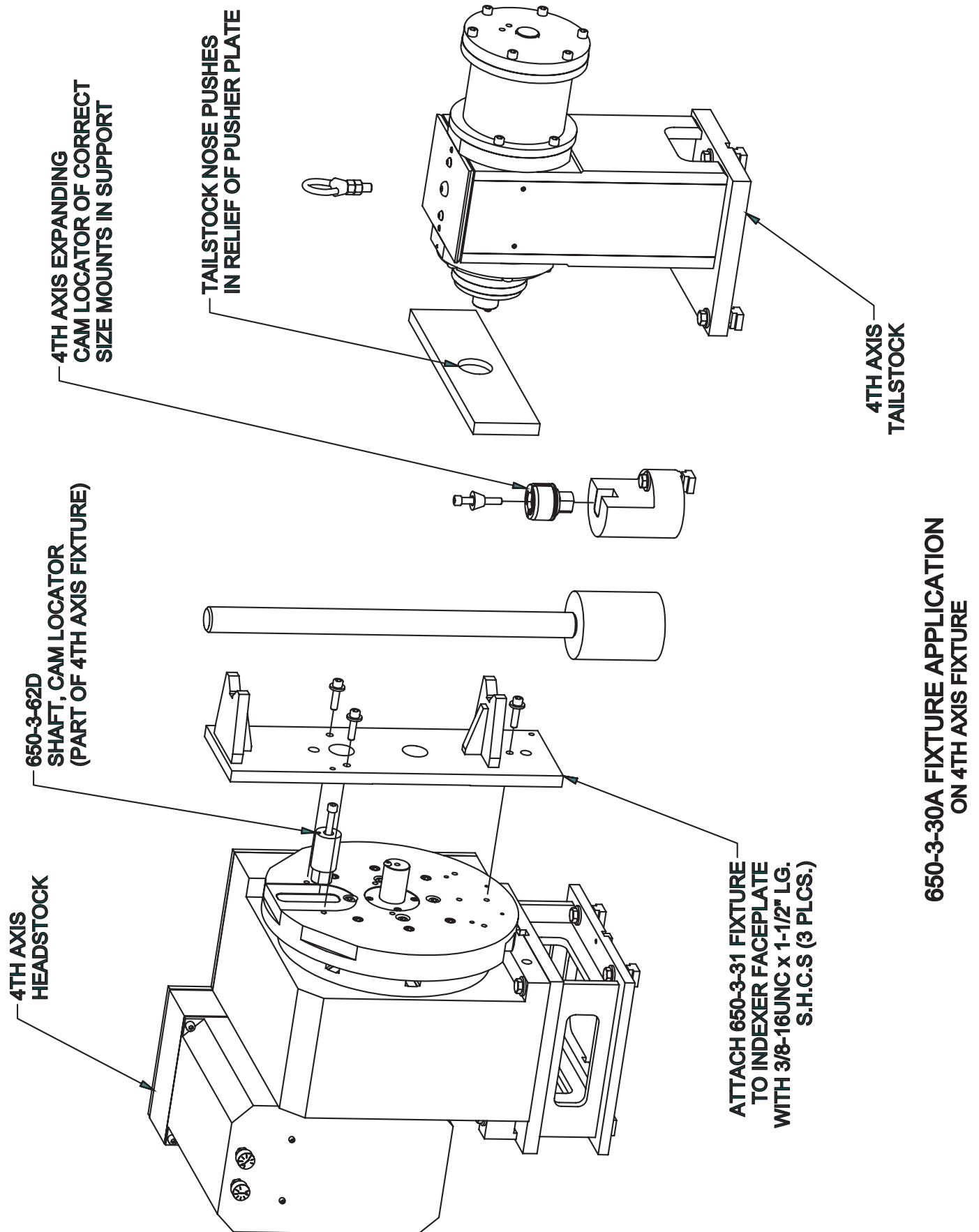
650-3-68P Locator Assembly (Ford 351C)**650-3-68C Locator assembly (Ford 460)****MOPAR SETS****650-3-68K Locator Assembly (Mopar 318)**

650-3-68D Locator Assembly (Mopar 360)**650-3-68Q Locator Assembly (Mopar 383,426,440)**

BLOCK END TRUING**650-3-30A Block End Truing Fixture Assembly**

(Requires 4th Axis Fixture #690-3-63) Used for Surfacing and Machining Front and Rear End of Block True to Crankshaft Centerline.

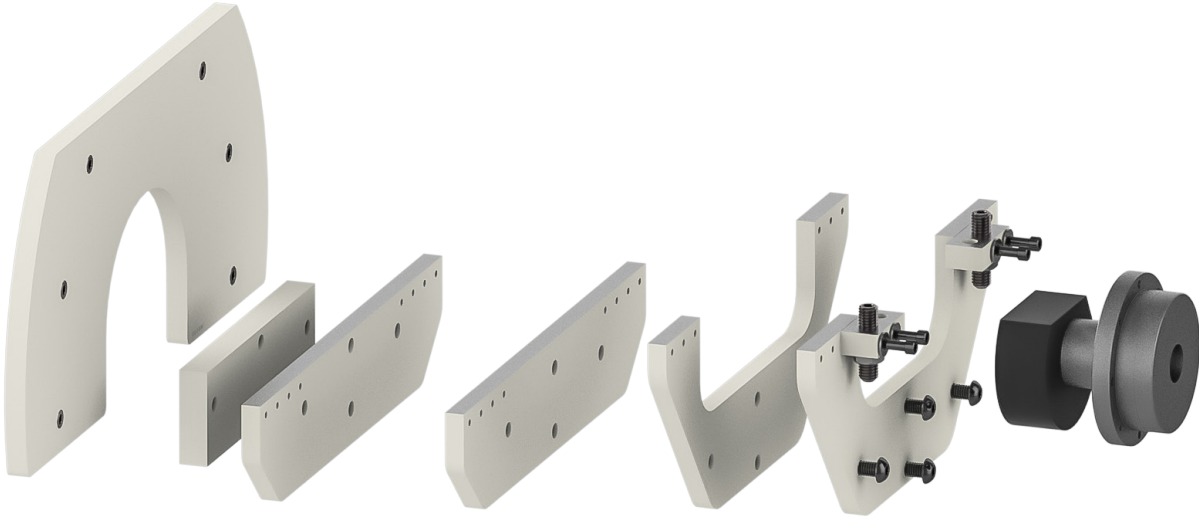




OVERHEAD CAM BLOCK FIXTURING

650-3-84 Overhead Cam Block Fixture

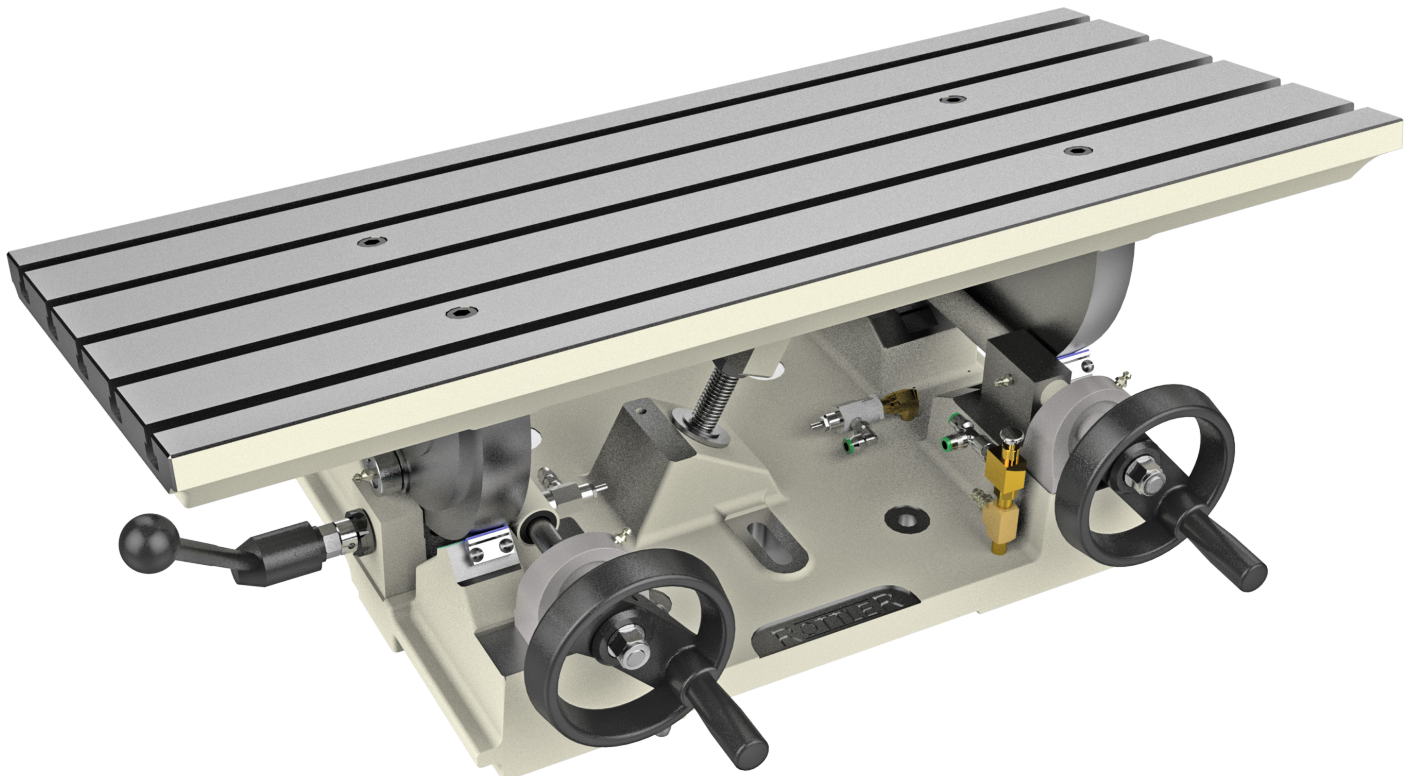
For Overhead Cam Blocks for 4th Axis Fixture (690-3-63)



CYLINDER HEAD SURFACING FIXTURE

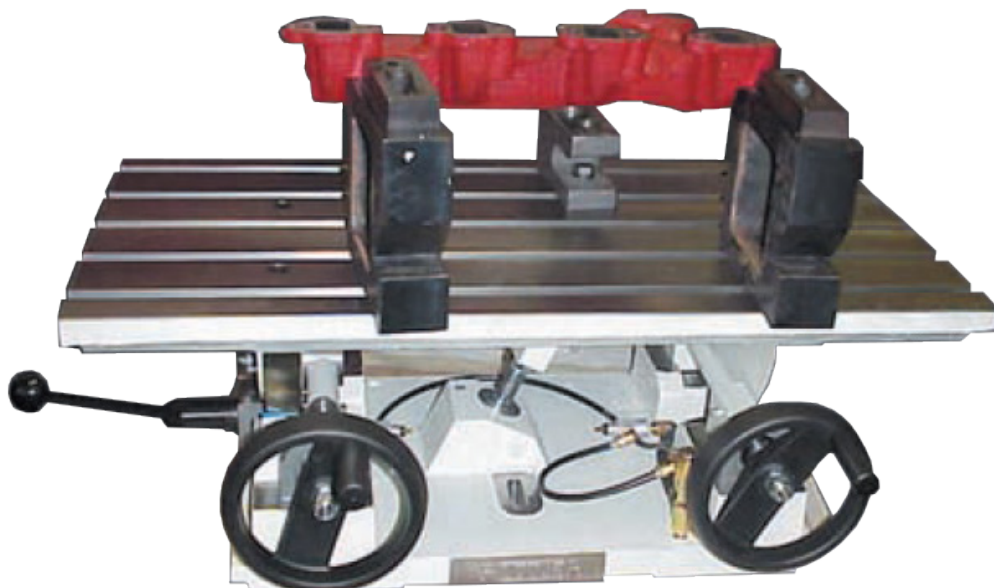
7209M Leveling Table with Airfloat

Complete with Universal Work Holding System for Surfacing Cylinder Heads and Small In-Line Blocks



7226G Exhaust and Intake Manifold Surfacing Fixture System

For 7209M Leveling Table



BLOCK MAIN LINE BORING AND CAM BORING FIXTURES**650-3-56 Line Bore Pivot Table**

Complete with Universal Work Hold System for Small In Line and 90 Degree V Blocks, used for Main Line Boring and Stroker Crank Clearance.

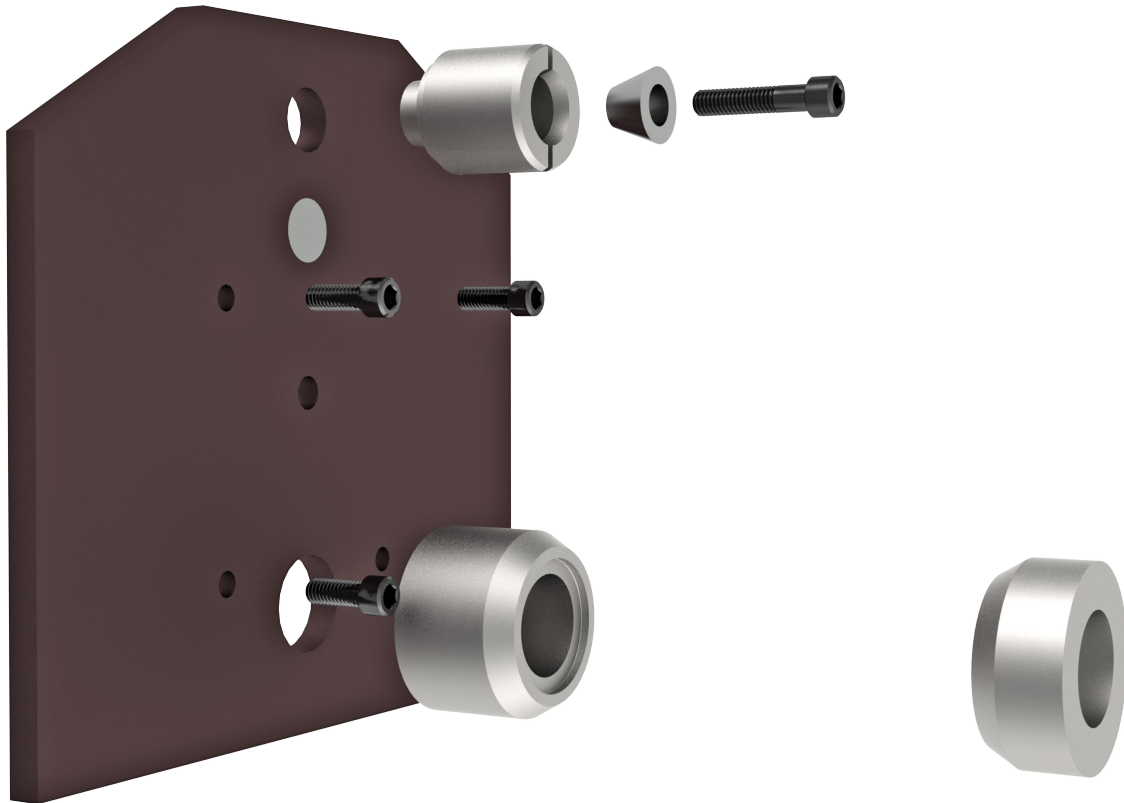
**6866 Wedge for Cummins 5.9liter Camshaft Line Boring**

Requires 650-3-56 Pivot Table



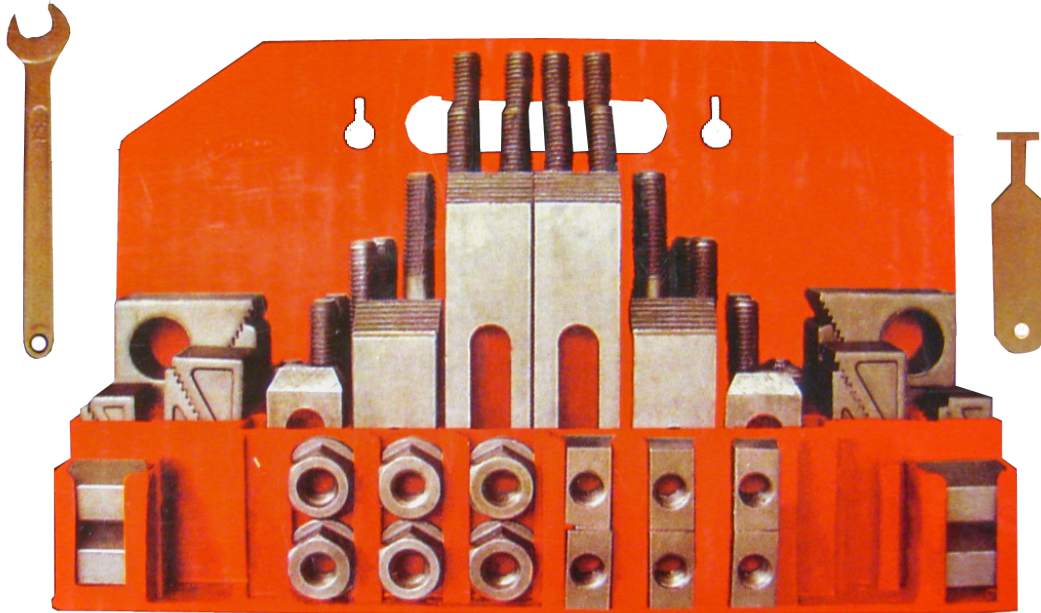
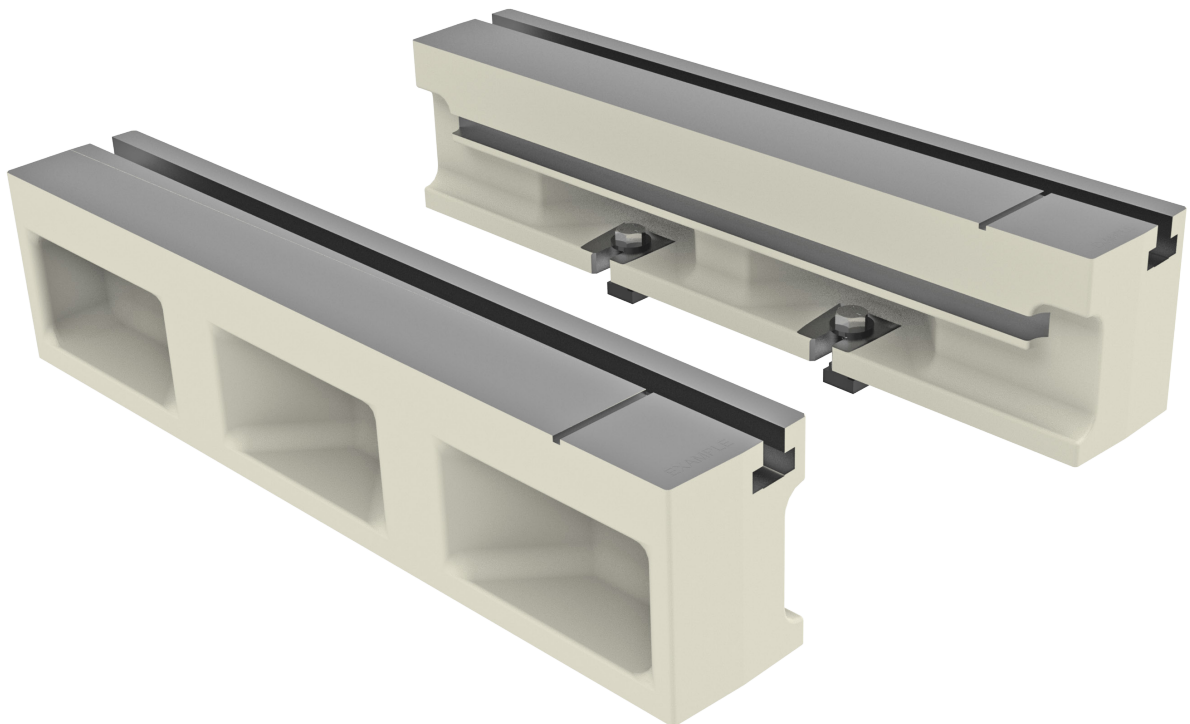
SPECIAL APPLICATION FIXTURE**650-3-82 Mopar 5.7L Hemi Fixture Assembly**

(Requires 4th Axis Fixture 690-3-63)



MISCELLANEOUS ACCESSORIES**650-3-37 1/2" (12.7mm) Universal Clamping Kit**

Including T-Nuts, Bolts, Studs, Strap Clamps, etc.

**7219W 5.2" (138.08mm) Heavy Duty T-Slot Universal Parallels**



USING 3RD PARTY TOOLING IN ROTTLER MACHINES WITH CAT 40 TOOLING.

When it is not convenient for the customer to order CAT 40 tooling from the factory or if the customer needs tooling that we don't stock, they may purchase tooling from 3rd part vendors such as MSC. The customer must specify a DIN 69871 SK 40 or ANSI B 5.50 CAT 40 tapered adaptor for use in Rottler machines.

Rottler uses a Parlec - A Style, CAT40 Taper, 5/8-11 Thread, 45 Degree Angle Radius, Standard Retention Knob with the following specifications: 1.68 Inch Overall Length, 0.281 Inch Coolant Hole Diameter, 0.74 Inch Knob Diameter, 0.12 Inch Flange Thickness, 0.64 Inch Knob to Flange Length, 0.635 Inch Pilot Diameter, Through Coolant

If customer purchases a DIN spec adaptor they will need to source a metric equivalent of the retention knob.

TOOLING FOR ENGINE BLOCK BORING AND RESLEEVEING

650-2-1D Cutterhead Package

2.0 - 4.0" (50.80 - 101.60mm) Diameter X 7.0" (177.80mm) Length Complete with Tooling and Digital Micrometer (See 'F60 Options' for breakdown)



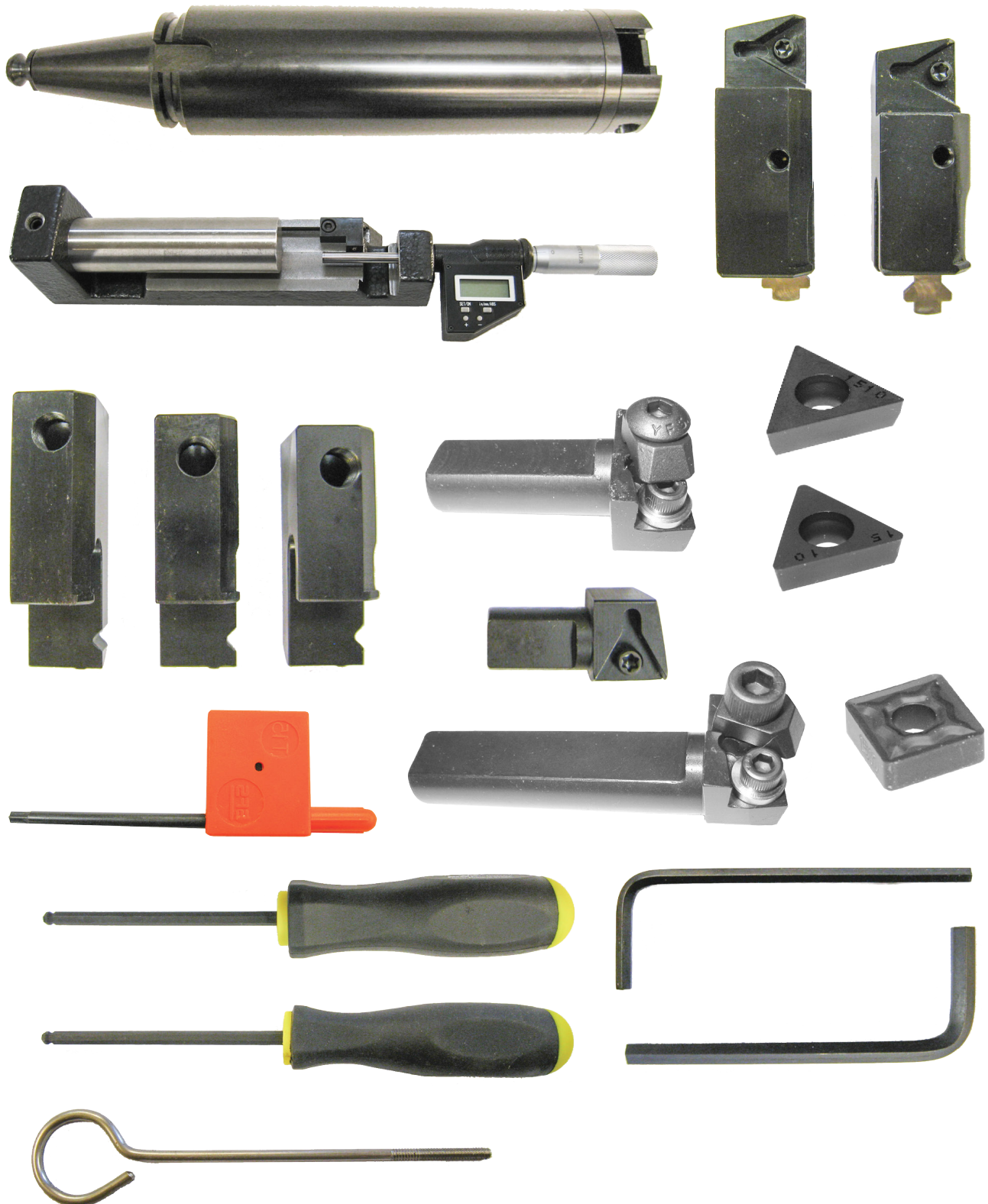
650-2-14B Cutterhead Package

2.9 - 5.0" (73.66 - 127.00mm) Diameter X 7.0" (177.80mm) Length Complete with Tooling and Digital Micrometer (See 'F60 Options' for breakdown)



650-2-14F Cutterhead Package

2.9 - 5.0" (73.66 - 127.00mm) Diameter X 10.0" (254mm) Length Complete with Tooling and Digital Micrometer (See 'F60 Options' for breakdown)



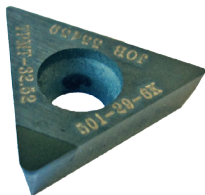
650-2-16D 1.400" (35.5mm) Spacer (Extension) for 650-2-14B&F Cutterheads



Miscellaneous Tooling for 650-2-14B&F Cutterheads

501-29-6K PCD Tipped Triangular Insert

For Boring/Counterboring Aluminum
Only



6513J Brazed Carbide Tool Bit

.037" Wide O Ring Grooving



6513L Brazed Carbide Tool Bit

.039" Wide O Ring Grooving



6513N Brazed Carbide Tool Bit

.060" Wide O Ring Grooving



6513P Brazed Carbide Tool Bit

.085" Wide O Ring Grooving



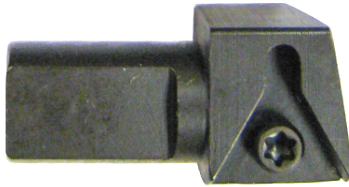
6513Q Brazed Carbide Tool Bit

.120" Wide O Ring Grooving



6598M Cartridge Assembly

Positive Rake, 13/16 Shank Length, for Counter Boring



6747K Cartridge Assembly

5 Degree Chamfer for Triangular Positive Rake Inserts



6747P Cartridge Assembly

10 Degree Chamfer for Triangular Positive Rake Inserts



6747G Cartridge Assembly

15 Degree Chamfer for Triangular Positive Rake Inserts



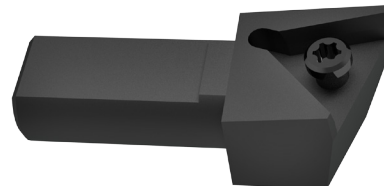
6747F Cartridge Assembly

20 Degree Chamfer for Triangular Positive Rake Inserts



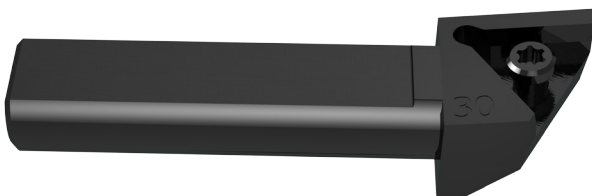
6747M Cartridge Assembly

20 Degree Chamfer for Triangular Positive Rake Inserts
(Special Application Only)



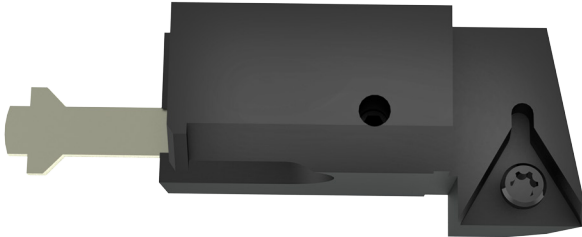
6747H Cartridge Assembly

30 Degree Chamfer for Triangular Positive Rake Inserts

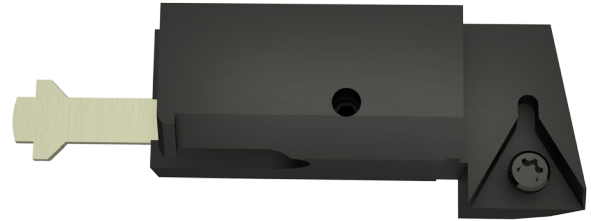


6593L Cartridge Assembly

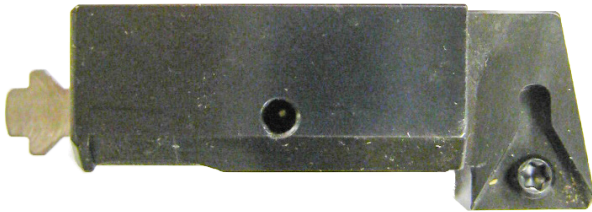
Offset Indexable Insert, Triangular Positive Rake (3.14 - 3.40" Diameter)

**6593M Cartridge Assembly**

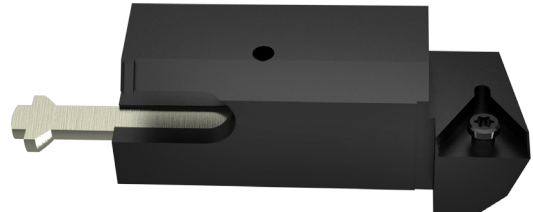
Offset Indexable Insert, Triangular Positive Rake (3.40 - 3.90" Diameter)

**6593N Cartridge Assembly**

Offset Indexable Insert, Triangular Positive Rake (3.90 - 4.40" Diameter)

**6593P Cartridge Assembly**

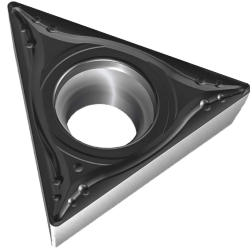
Offset Indexable Insert, Triangular Positive Rake (4.40 - 4.90" Diameter)



Inserts for Cutterhead Tooling

RT211 Triangular Insert

1/4" (6.35mm) 1/64" (.397mm) radius,
1/4" triangular Insert holders only,
general purpose and sleeving



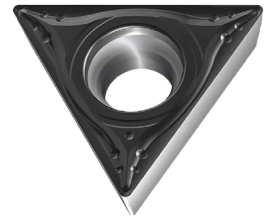
RT212 Triangular Insert

1/4" (6.35mm) 1/32" (.787mm) radius,
1/4" triangular Insert holders only,
general purpose and sleeving



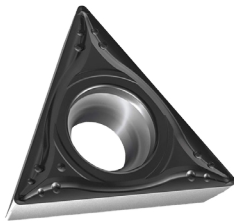
RT321 Triangular Insert

Positive rake, 3/8" (9.525mm) 1/64" (.397mm) radius, general purpose and sleeving



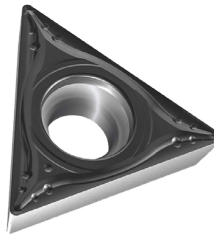
RT322 Triangular Insert

Positive rake, 3/8" (9.525mm) 1/32" (.787mm) radius, general purpose and sleeving



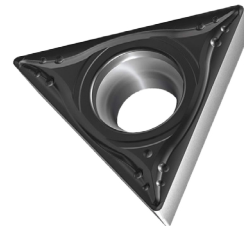
RT321F Triangular Insert

Positive rake, 3/8" 1/64" Radius,
Precision Counterboring



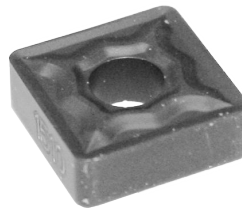
RT322F Triangular Insert

Positive rake, 3/8" 1/32" Radius,
Precision Counterboring



RS322 Square Insert

Negative rake, 1/32" (.787mm) radius,
3/8" (9.525mm) IC, black ceramic
coated for high speed oversize thru
boring



SURFACING TOOLING

650-2-8E Surfacing Cutterhead

Flycutter, 10" (254mm) Diameter Including (2) Radially and Axially Adjustable 3/8" (9.525mm) IC Insert Holders. Inserts must be ordered separately



650-2-8F Surfacing Cutterhead

Flycutter, 14" (356mm) Diameter Including (2) Radially and Axially Adjustable 3/8" (9.525mm) IC Insert Holders. Inserts must be ordered separately



Inserts for Surfacing Cutterhead

6303B CBN Insert, Round
Double-Sided, 3/8" (9.525mm) IC, for
Cutting Cast Iron



6303M PCD Insert, Round
3/8" (9.525mm) IC, for Cutting
Aluminum



6303K Coated Carbide Insert, Round
3/8" (9.525mm) IC, for General
Purpose Use



6303S CBN Insert, Round
3/8" (9.525mm) IC, for Cutting
Aluminum Blocks with Liners



6303U CBN Round Insert
Single Sided, 3/8" IC. For hard cast
iron



TOOLING FOR LIFTER BORE MACHINING**650-2-60B Lifter Bore Tooling Kit**

Utilizing Micro Adjustable Boring Bars from .750 - 1.180" (19.05 - 29.97mm)



650-2-60N Setting Fixture for 650-2-60B Lifter Tooling Package**650-2-60G Insert**

For 0.750 - 0.900 diameter cartridge

**650-2-60H Insert**

For 0.920 - 1.180 diameter cartridge



MAIN LINE BORE TOOLING

- Note: Cutterheads are not included with right angle drive and must be ordered separately
- Note: The Belt Drive Right Angle Drive is Designed for Limited Clearance Between Bearing Caps and It's Cutting Performance Will Deteriorate as Larger Diameters are Bored and Extension Spacers are Used.
- Note: Length of Bores can be Increased with Extension Spacers. The Addition of Extension Spacers Will Increase The Minimum Distance Between Bearing Housings by the Length of the Spacer. Allow for some Clearance either side of the Assembly for Safety While
- Rottler Right Angle Drive Line Bore System will not be able to Line Bore Blocks that have Castings Between the Main Bearing Caps Found in Some New Design Light Weight Blocks.
- Special Right Angle Drives are available for line boring overhead camshaft cylinder heads. Contact Rottler for more details and pricing.

6753Q Main Line Bore 90 Degree Right Angle Drive Assembly

Diameter 1.9 - 5.6" (48 - 142.2mm) Minimum clearance 3.29" (83.6mm) with 650-2-39B Cutterhead, Includes 5 extensions spacers



650-2-38G Special Belt Drive 90 Degree Right Angle Drive Assembly

For Limited Clearance Between Bearing Caps, Diameter 1.9 - 4.0" (48 - 101.6mm) Minimum clearance 2.7" (69mm) with 650-2-39B Cutterhead, includes 5 extension spacers



6753Y Narrow Right Angle Drive 1.9 - 2.4" (48 - 60.9mm)

For special applications such as Cummins 5.9 camshaft tunnel. This Right Angle Drive does not require Cutterhead. Cummins 5.9 requires 6866 Wedge and 650-3-56 Line Bore Pivot Table



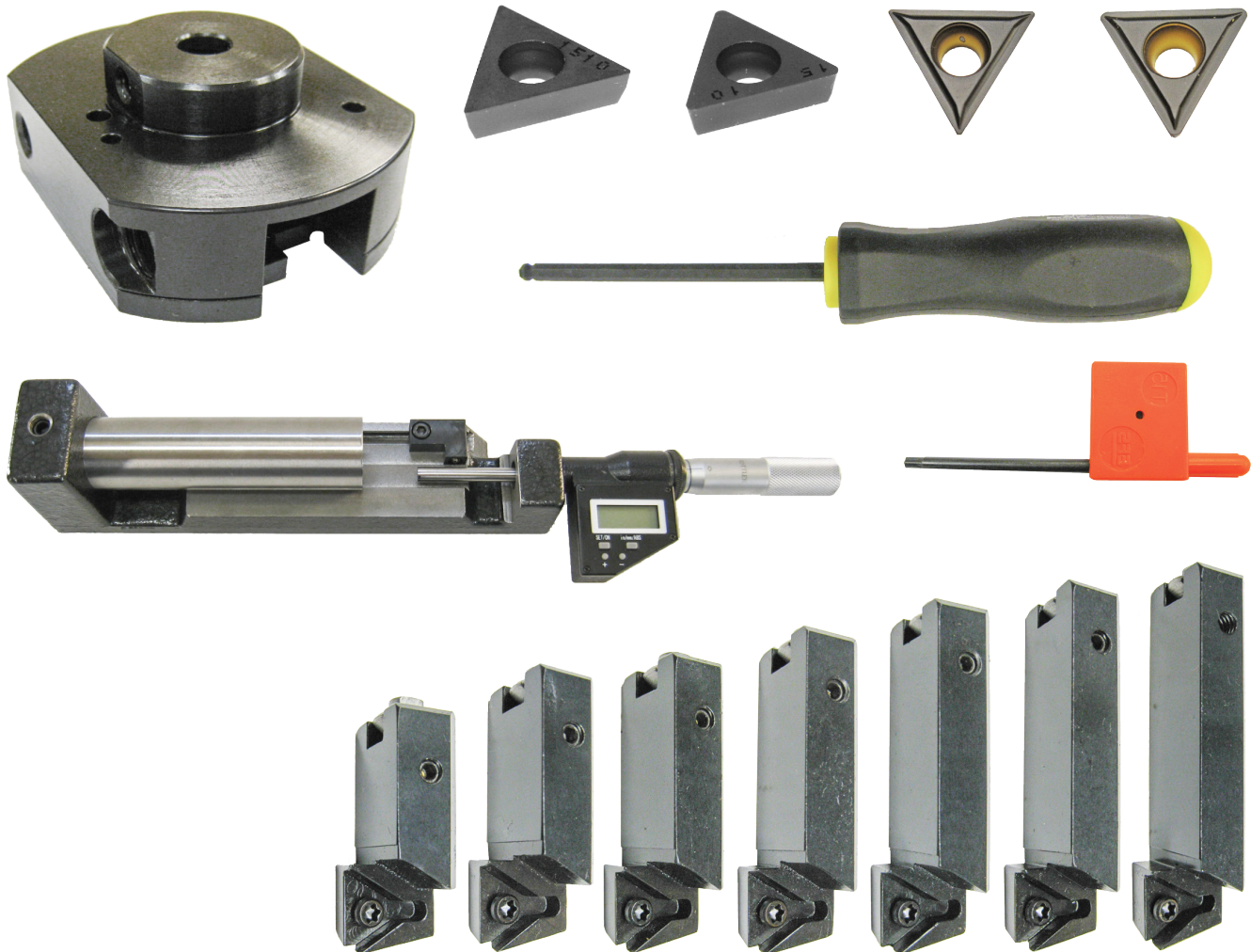
650-2-39B Cutterhead Package

Line Boring 1.9 - 4.0" (48.26 - 101.60mm) Diameter Complete with Tooling and Digital Micrometer. (When used with 11103 Drive, minimum distance between Bearing Housings 3.29") (83.6mm)



650-2-39C Cutterhead Package

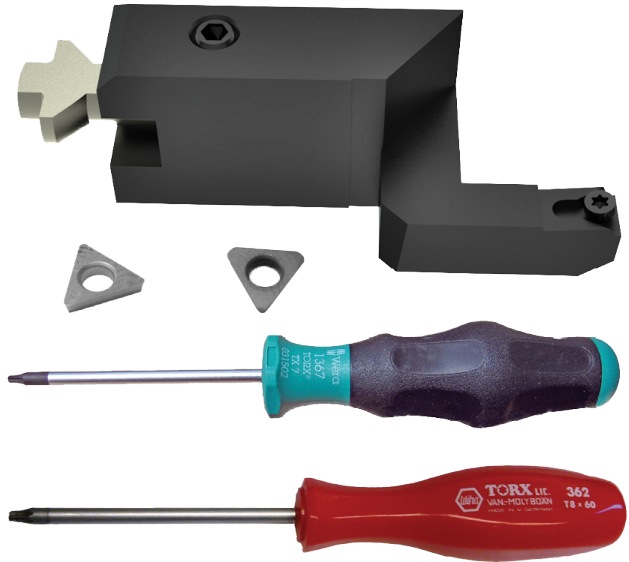
Line Boring 2.9 - 5.6" (73.66 - 142.24mm) Diameter Complete with Tooling and Digital Micrometer. When used with 11103 Drive, minimum distance between Bearing Housings 4.07" (103.4mm)



SPECIAL MAIN LINE BORING THRUST FACING TOOL

6801M Tooling Package

Tool holder, Indexable Insert, Thrust Facing
.160 IC, Positive Rake



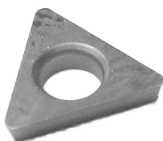
6801P Tooling Package

Tool holder, Indexable Insert, Thrust Facing 350 Chevy and
Other Small Blocks Line Boring



501-29-6G Insert, Triangular

.160 IC 1/64" (.397mm) Radius



501-29-6H Insert Screw



SPECIAL MAIN LINE BORING CHAMFERING TOOL**199-90 Tool holder, 2 - 3" (50.80 - 76.20mm)****199-96 Tool holder, 3 - 4" (76.20 - 101.60mm)****501-33E Tool bit, 45-Degree Chamfer**

CAM LINE BORING TOOLING

650-3-43T Cam Line Bore Tooling Package

(Requires 650-3-30 Block End Truing Fixture, 650-3-1 Performance Fixture and 6753Q Right Angle Drive Assembly)
Customer Must Order Cam Line Bar Bushings and Cam Bearing Locators to Suit Diameter to be Line Bored.

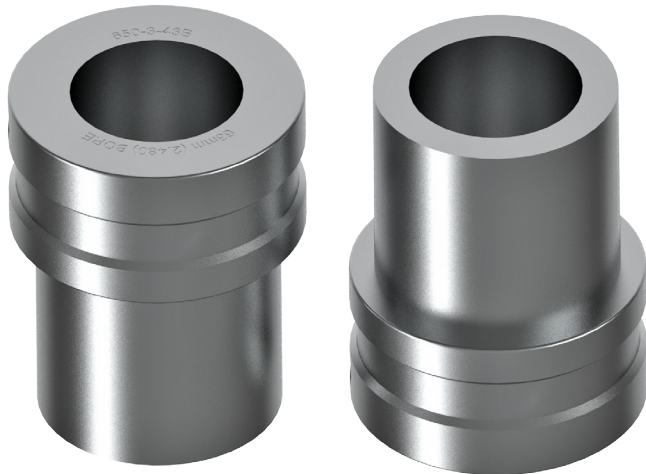


CAM LINE BAR BUSHINGS

- If customer requires sizes other than listed below, rottler will manufacture the required size.
- Customer must provide the size, including tolerance, of the housing bore/s the bushing will be used in.
- Rottler will use this information to design the actual bushing.
- Bushings are machined smaller than housing bore.
- Sold in pairs.

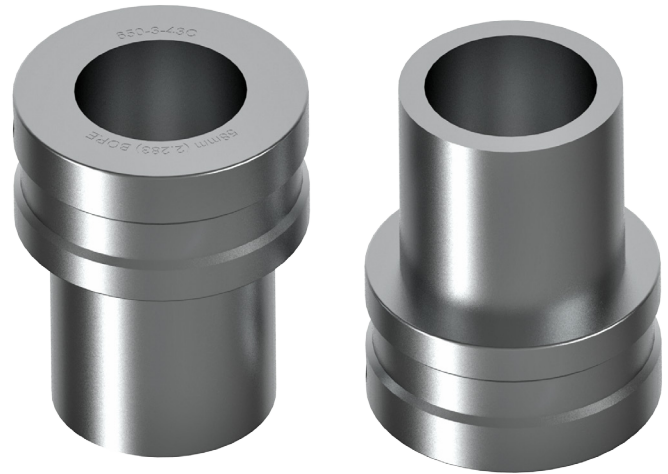
650-3-43B Bushing - 63mm (2.480" +/- .0007)

(Sold in pairs)



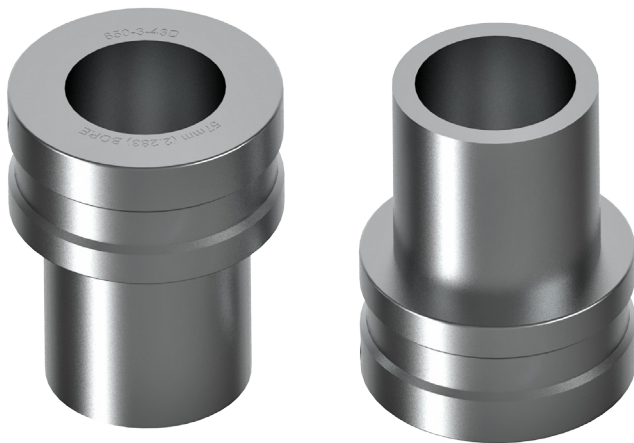
650-3-43C Bushing - 58mm (2.282" +/- .0007)

(Sold in pairs)



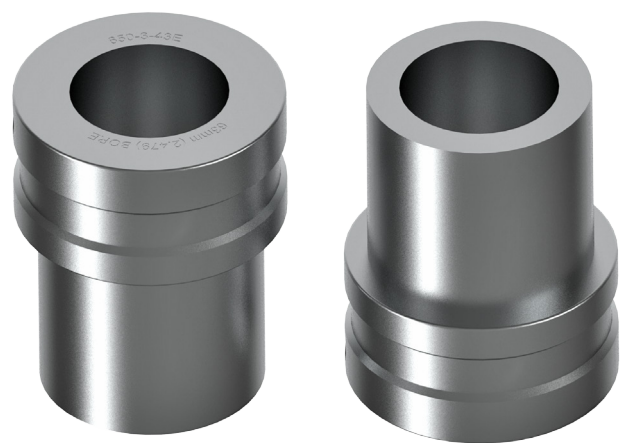
650-3-43D Bushing - (2.250" +/- .0007)

(Sold in pairs)



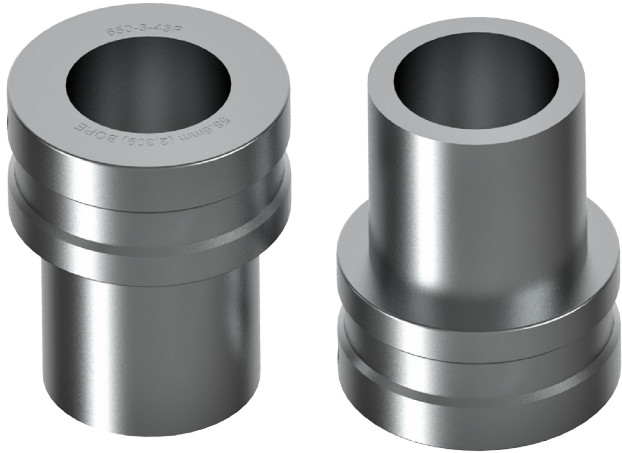
650-3-43E Bushing - (2.790" +/- .0007)

(Sold in pairs)



650-3-43F Bushing - (2.309" +/- .0007)

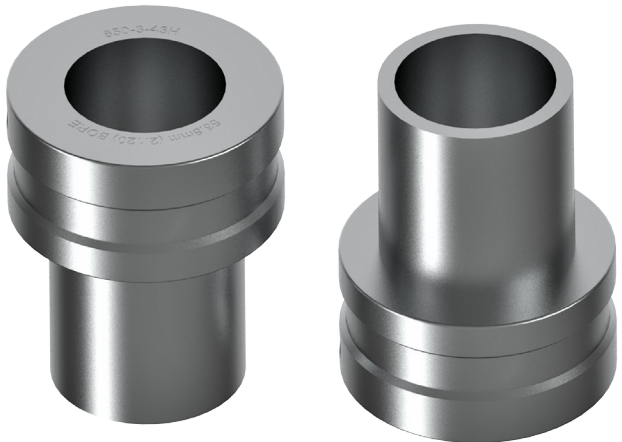
(Sold in pairs)

**650-3-43G Bushing - (2.500" +/- .0007)**

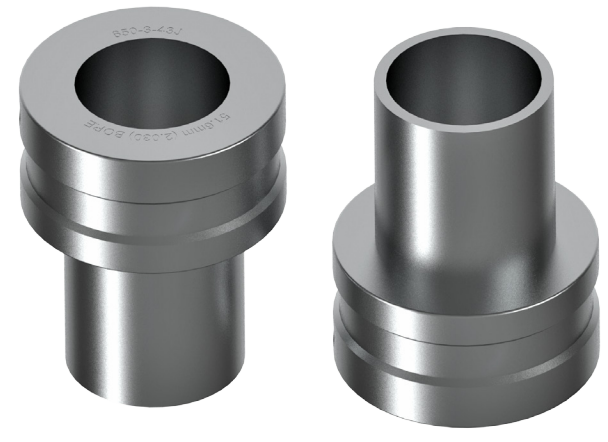
(Sold in pairs)

**650-3-43H Bushing - (2.120" +/- .0007)**

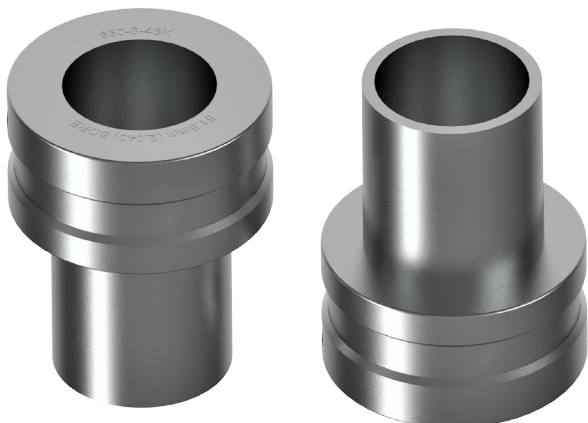
(Sold in pairs)

**650-3-43J Bushing - (2.030" +/- .0007)**

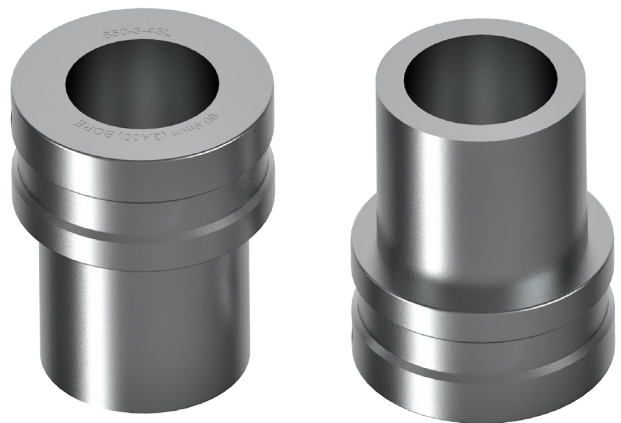
(Sold in pairs)

**650-3-43K Bushing - (2.040" +/- .0015)**

(Sold in pairs)

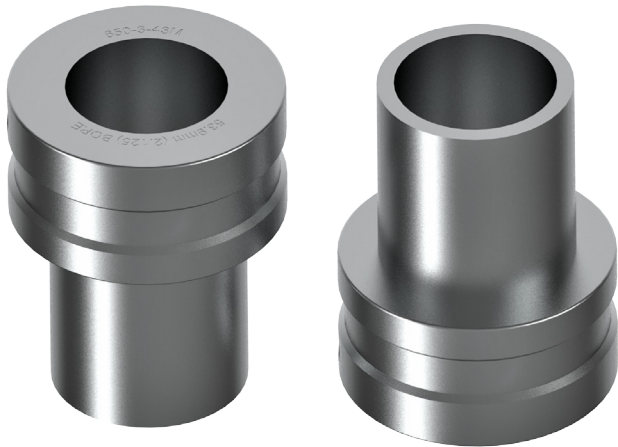
**650-3-43L Bushing - (2.400" +/- .0007)**

(Sold in pairs)



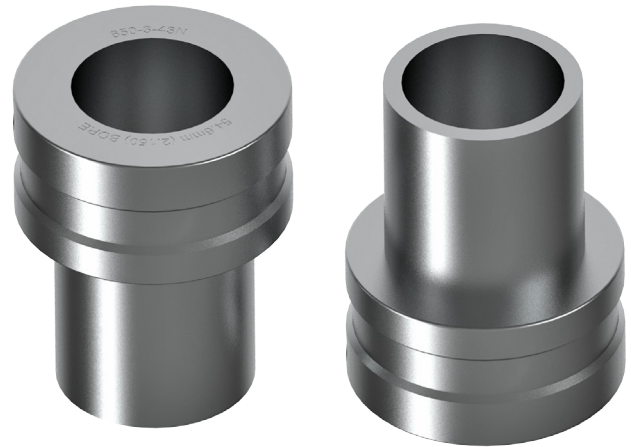
650-3-43M Bushing - (2.125" +/- .0007)

(Sold in pairs)



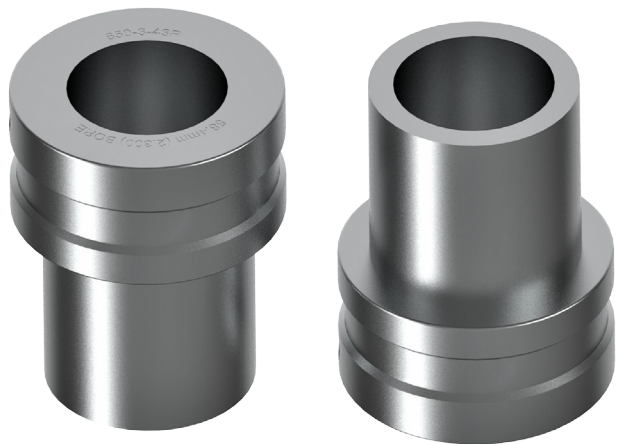
650-3-43N Bushing - (2.150" +/- .0007)

(Sold in pairs)



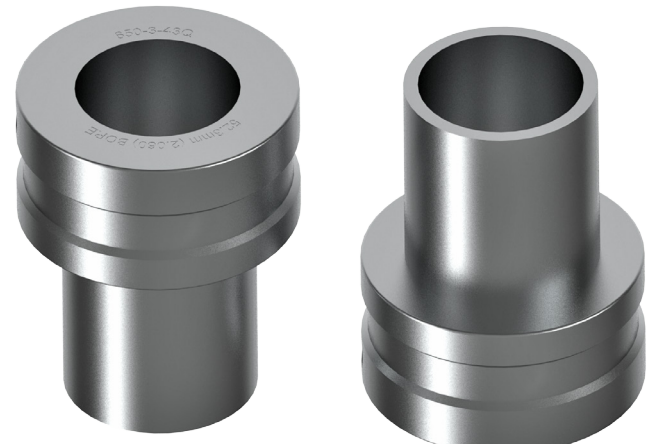
650-3-43P Bushing - (2.300" +/- .0007)

(Sold in pairs)



650-3-43Q Bushing - (2.060" +/- .0007)

(Sold in pairs)



650-3-43R Bushing - (2.6733" +/- .0007)

(Sold in pairs)



650-3-43S Bushing - (2.0450 +/- .0007)

(Sold in pairs)



THREAD TAPPING TOOLING**650-2-11K Quick Change Tap Holder Cartridge Assembly with Adapter**

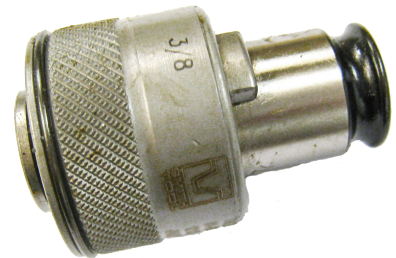
650-2-11C Torque Control Tap Holder for 1/4" (6.35mm) taps



650-2-11D Torque Control Tap Holder for 5/16" (7.95mm) taps



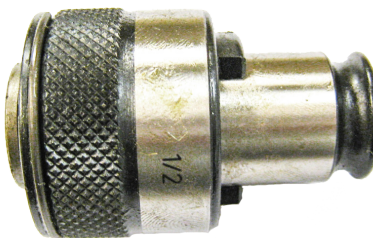
650-2-11E Torque Control Tap Holder for 3/8" (9.525mm) taps

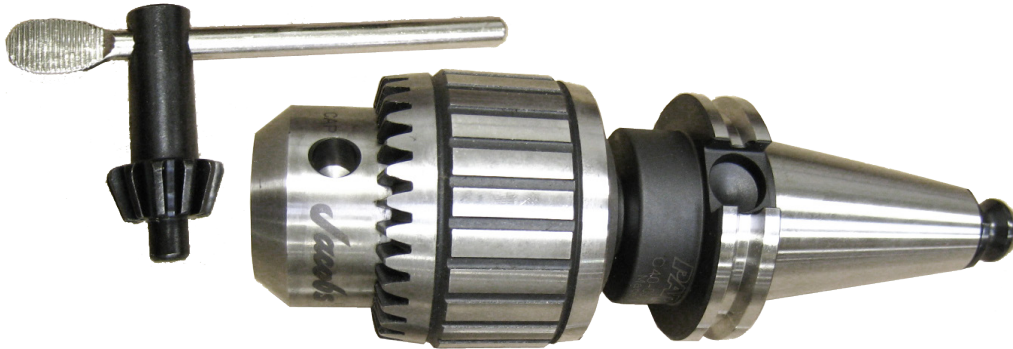
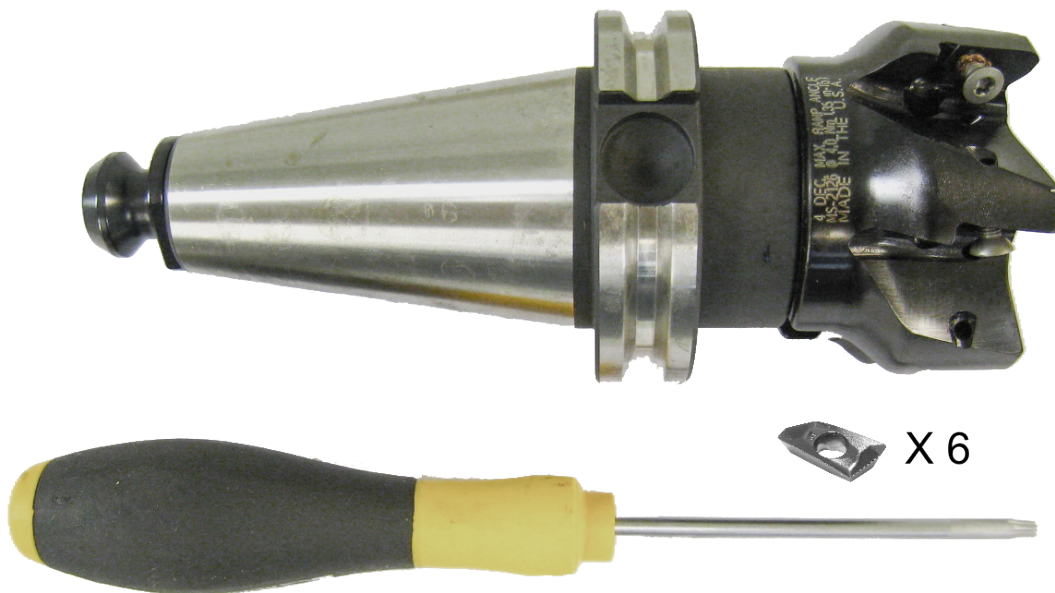


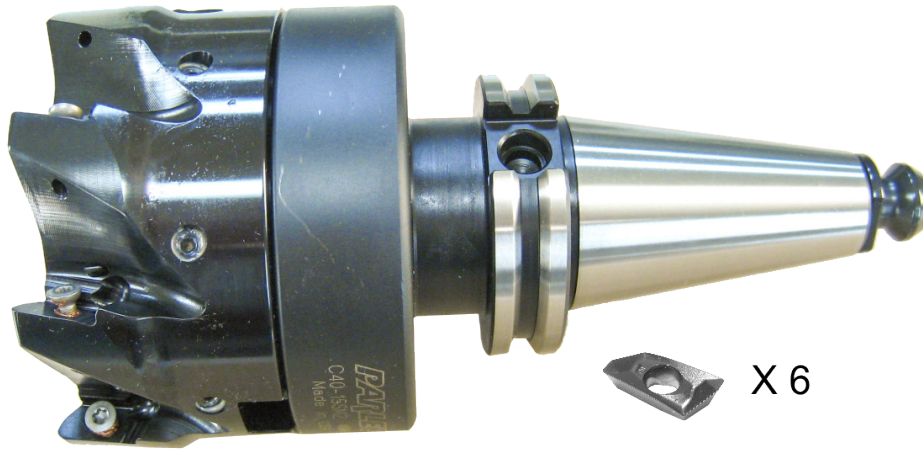
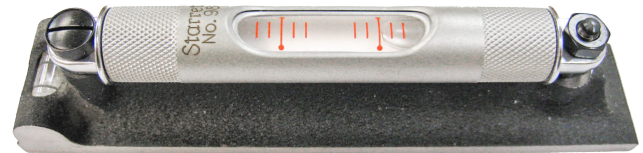
650-2-11F Torque Control Tap Holder for 7/16" 11.13mm) taps



650-2-11G Torque Control Tap Holder for 1/2" (12.70mm) taps



DRILL TOOLING**650-2-44M Precision Drill Chuck Assembly****SHELL MILL ASSEMBLIES****650-2-44N 2 1/2" (63.50mm) Shell Mill Assembly**

650-2-44P 4" (101.60mm) Shell Mill Assembly**GAGES AND INDICATORS****650-3-38 Level-for Intake and Exhaust Manifolds****7152A Dual Axis Level Assembly**

650-2-44Q Three Dimensional Electronic Position Finder

With Spindle Adaptor and Retention Knob



502-9-9S Indicator Mount

Angled for small diameter main line bores



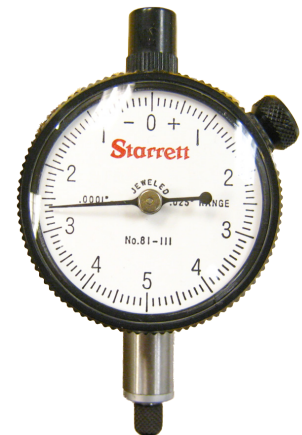
502-9-9A Mechanical Run Out Indicator

General Purpose (.001 Resolution)



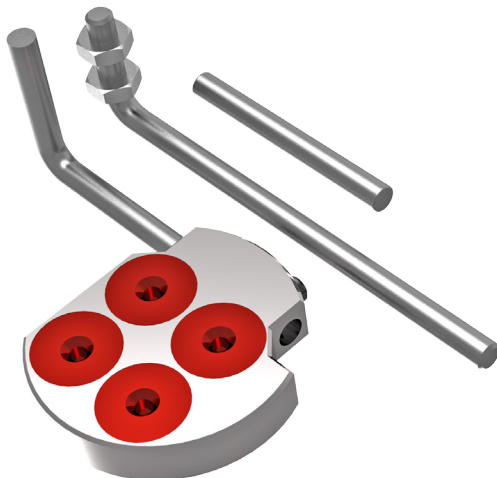
502-11-39D Mechanical Run Out Indicator

For Precision Bore Adjustment (.0001 Resolution)



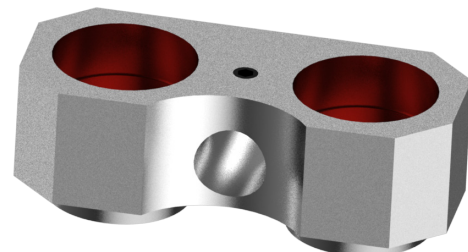
502-12-4 Magnetic Base

Including (2) Extension Arms for Indicators (for centering cylinder bores) requires 502-9-9A



502-12-4A Magnetic Indicator Holder Assembly

For centering on main bores for line boring. (Requires 502-9-9A Mechanical Runout Indicator)



TOOLING FOR CRANKSHAFT STROKER CLEARANCING/NOTCHING**650-2-45H Roughing End Mill**

1" (25.4mm) diameter X 8 1/2" (216mm) long for block stoker clearance

**650-2-44A End Mill Adapter**

1" (25.4mm) Complete with 650-2-44L Retention Knob CAT 40 Taper



TOOLING FOR SPLAYED 4 BOLT MAIN CAP MACHINING**650-2-53 Splayed 4 Bolt Main Cap Machining Tooling Package**

Includes CAT40 Spindle adapters, spot facer, center drill, drill, 7/16" tap and torque tap holder. Recommend software packages 8300 & 9043 and 4th Axis Block Fixture 690-3-63.



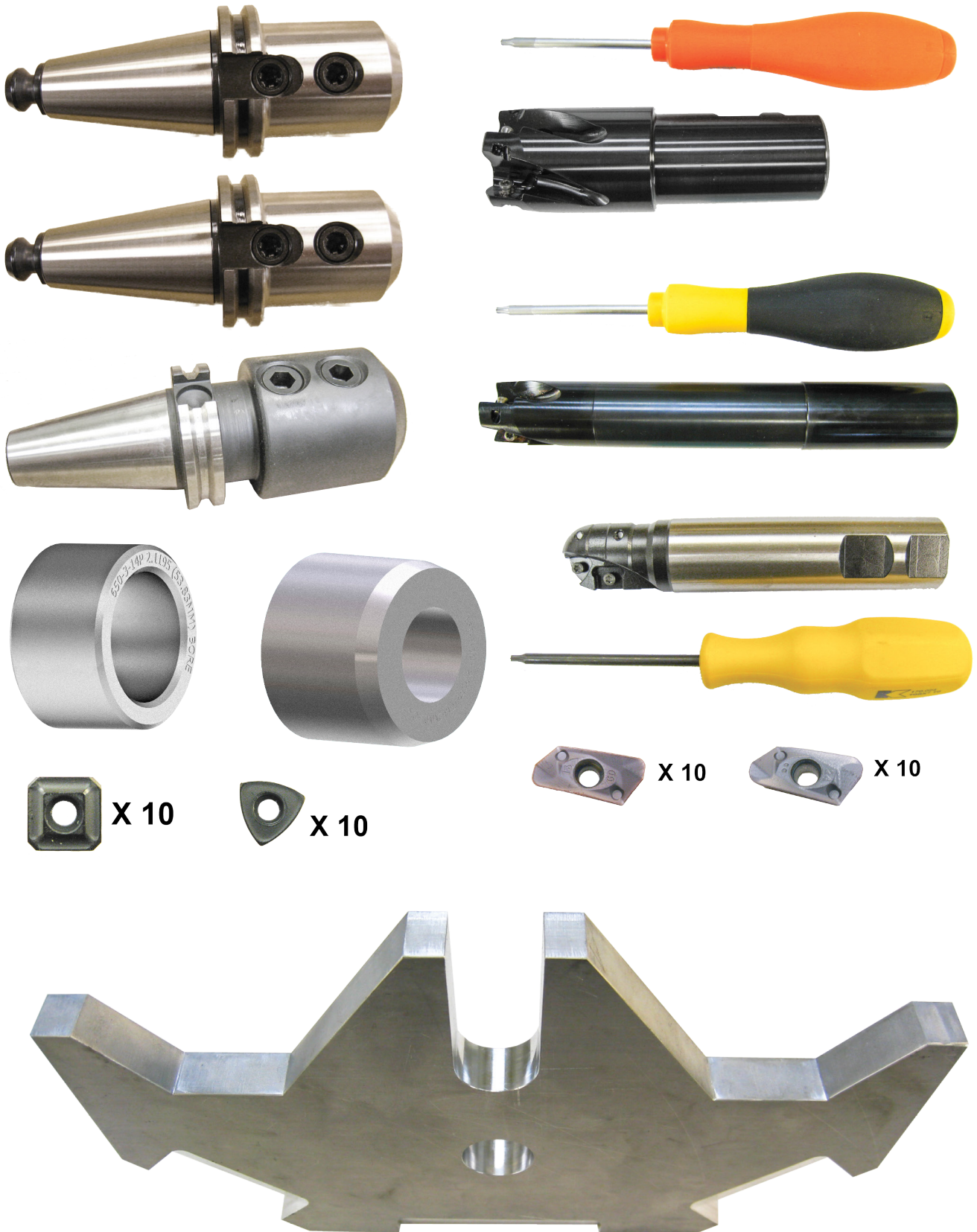
BLOCK LIGHTENING TOOLING PACKAGES

650-2-44W Block Lightening Tooling Package for Dart Small Block Chev



650-2-44X Block Lightening Tooling Package for World Products Small Block Chev



650-2-45J Block Lightening Tooling Package (CAT40 Taper) for Big Block Chevy

650-2-45Q Big Block Main Cap Lightening Fixture Assembly with Tooling

