

ROTTLER

F100 SERIES 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@rottermfg.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



F100 SERIES OPTIONAL EQUIPMENT CATALOG

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Spare Parts for Renishaw Wireless Probe

<p>6648U Spare Battery For Renishaw probe (2 Required)</p> 	<p>650-3-59C 50mm long X 6mm diameter stylus</p> 
<p>650-3-59D 100mm long X 6mm diameter stylus</p> 	<p>650-3-59E 20mm long X 2mm diameter stylus</p> 
<p>650-3-59K 50mm extension for 50mm & 100mm styli</p> 	<p>6648T 10mm stylus extension</p> 
<p>6648Q 17.5mm long X 6mm diameter stylus</p> 	

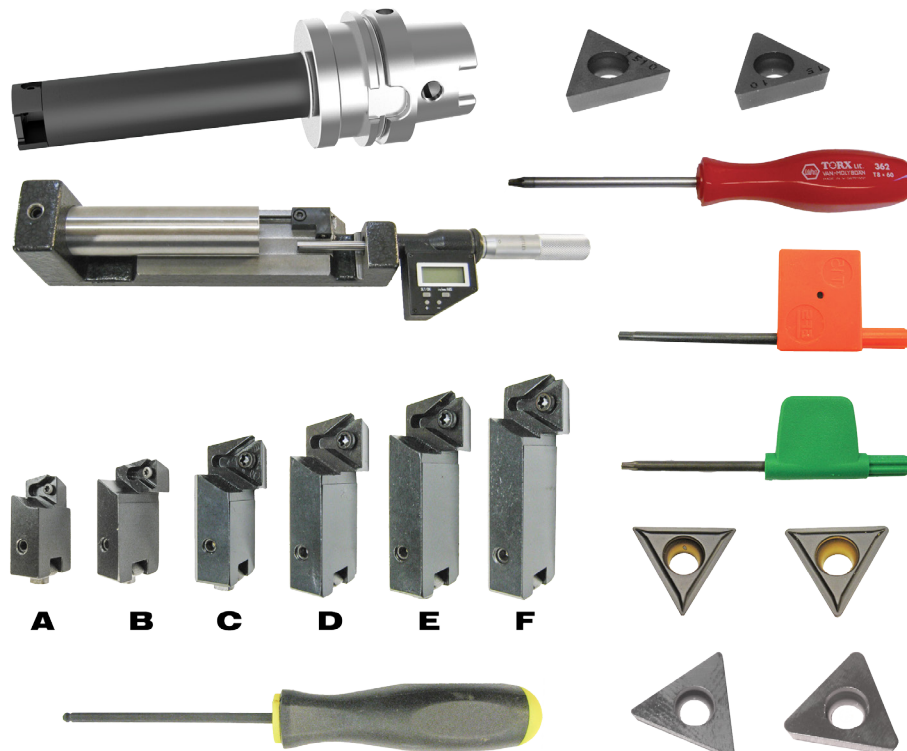
10118 Blind Hole Stub Cutterhead

1.5 - 4.2" (38 - 107mm) diameter x 6.5" (165mm) length

Complete with tooling and Digital Micrometer as listed below

F107/9AH

- (1) 6516G Blind Hole Stub Cutter Head Without Tooling
- (1) 900-2-19 Universal Micrometer Assembly Digital Reading (inch and metric) for 1/2" (12.7mm) tooling
- (1) 6801A Tool holder Assembly Indexable Insert 1/4" Triangle, Positive Rake, Range 1.5 - 2.02" (38 - 53.31mm) diameter. 1.23" (31.24mm) Long
- (1) 6801B Tool holder Assembly Indexable Insert 1/4" Triangle, Positive Rake, Range 1.96 - 2.56" (49.78 - 65.02mm) diameter. 1.44" (36.58mm) Long
- (1) 6801C Tool holder Assembly Indexable Insert 3/8" (9.525mm) Triangle, Positive Rake, Range 2.38 - 2.98" (60.45 - 75.69mm) diameter. 1.65" (41.91mm) Long
- (1) 6801D Tool holder Assembly Indexable Insert 3/8" (9.525mm) Triangle, Positive Rake, Range 2.78 - 3.38" (70.61 - 85.85mm) diameter. 1.85" (46.99mm) Long
- (1) 6801E Tool holder Assembly Indexable Insert 3/8" (9.525mm) Triangle, Positive Rake, Range 3.18 - 3.78" (80.77 - 96.01mm) diameter. 2.05" (52.07mm) Long
- (1) 6801F Tool holder Assembly Indexable Insert 3/8" (9.525mm) Triangle, Positive Rake, Range 3.58 - 4.18" (91 - 106mm) diameter. 2.25" (57.15mm) Long
- (1) 511-29-12D Torx Wrench, for 3/8" (9.525mm) Triangular Insert Cartridge Tool holders
- (1) T8D Wrench, Torx Triangular Insert Cartridge tool holders (1/4" Triangle Insert Holders only)
- (2) RT321 Insert, triangular positive rake, 3/8" (9.525mm) 1/64" (.397mm) radius, general purpose and sleeving.
- (2) RT322 Insert, triangular positive rake, 3/8" (9.525mm) 1/32" (.787mm) radius, general purpose and sleeving.
- (2) RT321F Insert, triangular, 1/64" (.397mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (2) RT322F Insert, triangular, 1/32" (.787mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (1) RT211 Insert, triangular 1/4" (6.35mm) 1/64" (.397mm) radius, 1/4" triangular Insert holders only, general purpose and sleeving
- (1) RT212 Insert, triangular 1/4" (6.35mm) 1/32" (.787mm) radius, 1/4" triangular Insert holders only, general purpose and sleeving
- (1) 501-72A 5/32" (3.962mm) Hex Driver



10108B Blind Hole Stub Cutter Head

2.9 - 5.0" (74 - 152mm) diameter X 9.7" (246mm) length

Complete with tooling and Digital Micrometer as listed below

F107/9AH

- (1) 10108 Cutterhead assembly, Blind hole stub bar, 2 7/8 - 5.00" (73 - 127mm) X 9.7" (246mm) long without tooling.
- (1) 900-2-20 Universal Micrometer Assembly Digital Reading (inch and metric) for 3/4" tooling.
- (1) 6593C Cartridge/Tool Holder Triangular Insert Positive Rake. Range 2.90" - 3.40" (74 - 86mm)
- (1) 6593D Cartridge/Tool Holder Triangular Insert Positive Rake. Range 3.4" - 3.90" (86 - 99mm)
- (1) 6520H Tool Holder, 2-1/4" (57mm) Range 3-3/4 - 4" (95.25 - 102mm)
- (1) 6520A Tool Holder, 2-3/8" (86mm) Range 4 - 4-1/2" (102 - 114mm)
- (1) 6520B Tool Holder, 2-5/8" (67mm) Range 4-1/2 - 5" (114 - 127mm)
- (1) 6520C Tool Holder, 2-7/8" (73mm) Range 5 - 5-1/2" (127 - 140mm)
- (1) 6520D Tool Holder, 3-1/8" (79mm) Range 5-1/2 - 6" (140 - 152mm)
- (1) 6520E Tool Holder, 3-3/8" (86mm) Range 6 - 6-1/2" (152 - 165mm)
- (1) 6520F Tool Holder, 3-5/8" (92mm) Range 6-1/2 - 7-1/2" (165 - 191mm)
- (1) 6520G Tool Holder, 4-1/8" (105mm) Range 7-1/2 - 8" (191 - 103mm)
- (1) 6513D Offset Tool Bit
- (1) 6598K Cartridge Triangle Insert Positive Rake, 2-15/32" (62.72mm) Long
- (1) 6598M Cartridge Triangle Insert Positive Rake, 1-3/8" (34.93mm) Long
- (2) RT321 Insert, triangular positive rake, 3/8" (9.525mm) 1/64" (.397mm) radius, general purpose and sleeving.
- (2) RT322 Insert, triangular positive rake, 3/8" (9.525mm) 1/32" (.787mm) radius, general purpose and sleeving.
- (2) RT321F Insert, triangular, 1/64" (.397mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (2) RT322F Insert, triangular, 1/32" (.787mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (2) 511-29-12C screws (In Cartridge)
- (1) 511-29-12D Torque Key



6256Q Blind Hole Cutterhead

4.5 - 9.0" (114.30 - 228.60mm) diameter

Complete with tooling and Digital Micrometer as listed below

F103/4/5/7/9

- (1) 6256P Production Cutter Head
- (2) 900-2-20 Universal Micrometer Assembly Digital Reading (inch and metric) for 3/4" tooling.
- (1) 6259P Tool Holder, 3-1/8" (79mm) Range 4-1/2 - 4-3/4" (114 - 121mm)
- (1) 6259C Tool Holder, 3-3/8" (86mm) Range 4-3/4 - 5" (121 - 127mm)
- (1) 6259D Tool Holder, 3-5/8" (92mm) Range 5 - 5-1/2" (127 - 140mm)
- (1) 6259I Tool Holder, 3-7/8" (98mm) Range 5-1/2 - 6" (140 - 152mm)
- (1) 6259E Tool Holder, 4-1/8" (105mm) Range 6 - 7" (152 - 178mm)
- (1) 6259F Tool Holder, 4-5/8" (105mm) Range 7 - 8" (178 - 203mm)
- (1) 6259G Tool Holder, 5-1/8" (130mm) Range 8 - 9" (203 - 229mm)
- (1) 6598K Cartridge Triangle Insert Positive Rake, 2-15/32" Long (62.71mm)
- (1) 6598M Cartridge Triangle Insert Positive Rake, 1-3/8" Long (34.925mm)
- (1) 6260L Cartridge Assembly, Indexable Insert 1-7/8" (47.625mm) For Square Negative Rake Inserts
- (1) 6260M Cartridge Assembly, Indexable Insert 13/16" (20.65mm) For Square Negative Rake Inserts
- (1) RS322 Insert, square negative rake, 1/32" (.787mm) radius, 3/8 IC, black ceramic coated for high speed oversize through boring
- (2) 511-29-12C Screws (for Cartridges)
- (1) 511-29-12D Torque Key for 511-29-12D Screws
- (2) RT321 Insert, triangular positive rake, 3/8" (9.525mm) 1/64" (.397mm) radius, general purpose and sleeving.
- (2) RT322 Insert, triangular positive rake, 3/8" (9.525mm) 1/32" (.787mm) radius, general purpose and sleeving.
- (2) RT321F Insert, triangular, 1/64" (.397mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (2) RT322F Insert, triangular, 1/32" (.787mm) radius, 3/8" (9.525mm) IC, precision counterboring



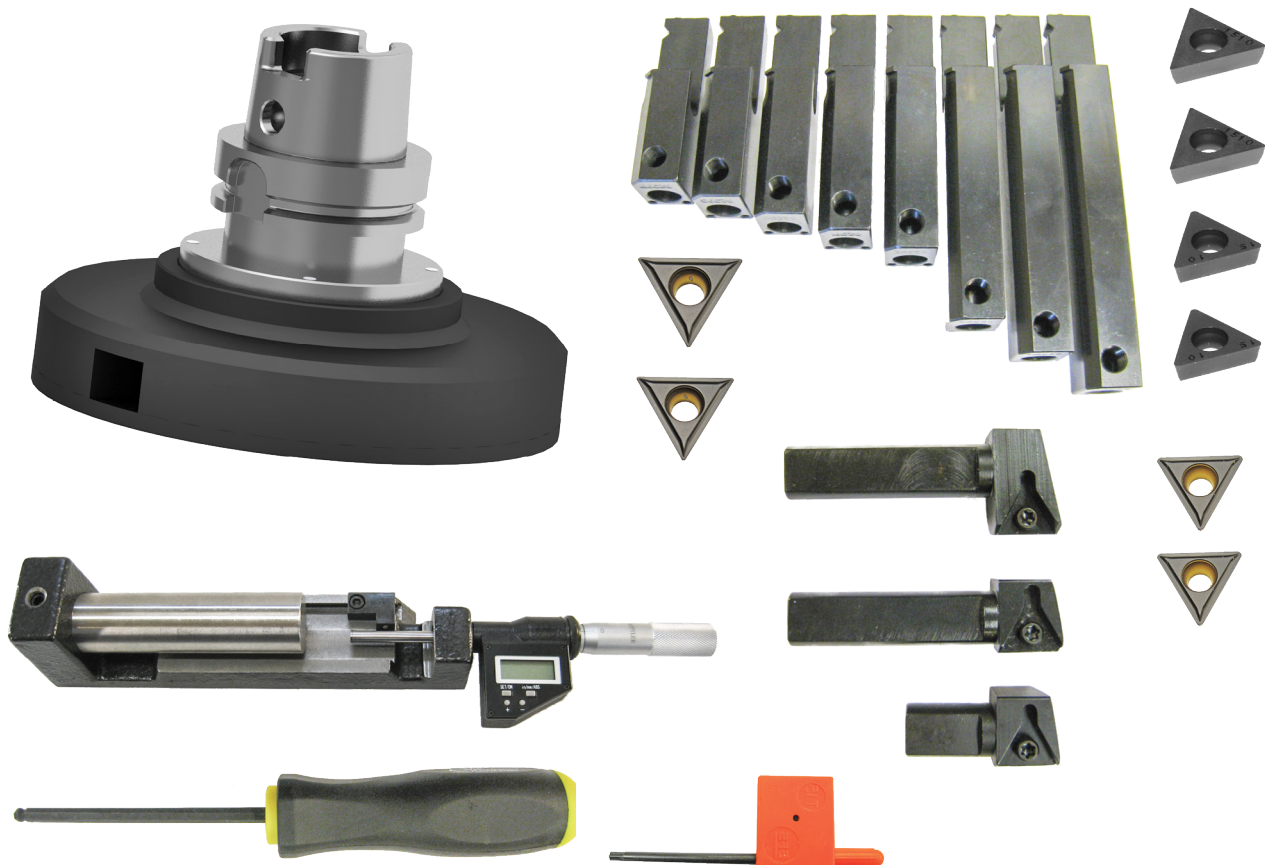
10107B Blind Hole Cutterhead

8.0 - 14.0" (203 - 360mm) diameter

Complete with tooling and Digital Micrometer as listed below

F107/9AH

- (1) 10107 Blind Hole Cutter Head, 8.0 - 14.0" (203.2 - 355.6mm) Without Tooling
- (2) 900-2-20 Universal Micrometer Assembly Digital Reading (inch and metric) for 3/4" tooling.
- (1) 6259C Tool Holder, 3-3/8" (86mm) Range 8 - 8-1/4" (203 - 210mm)
- (1) 6259D Tool Holder, 3-5/8" (92mm) Range 8-1/4 - 8-3/4" (210 - 222mm)
- (1) 6259I Tool Holder, 3-7/8" (93mm) Range 8-3/4 - 9-1/4" (222 - 235mm)
- (1) 6259E Tool Holder, 4-1/8" (105mm) Range 9-1/4 - 10-1/4" (235 - 260mm)
- (1) 6259F Tool Holder, 4-5/8" (118mm) Range 10-1/4 - 11-1/4" (260 - 286mm)
- (1) 6259G Tool Holder, 5-1/8" (130mm) Range 11-1/4 - 12-1/4" (286 - 311mm)
- (1) 6259H Tool Holder, 5-5/8" (143mm) Range 12-1/4 - 13-1/4" (311 - 337mm)
- (1) 6259J Tool Holder, 6-1/8" (156mm) Range 13-1/4 - 14-1/4" (337 - 362mm)
- (1) 6513D Offset Tool Bit
- (1) 6598K Cartridge Triangle Insert Positive Rake, 2-15/32" (62.71mm) Long
- (1) 6598M Cartridge Triangle Insert Positive Rake, 1-3/8" (34.93mm) Long
- (2) 511-29-12C Screws (For Cartridges)
- (1) 511-29-12D Torque Key for 511-29-12D Screws
- (2) RT321 Insert, triangular positive rake, 3/8" (9.525mm) 1/64" (.397mm) radius, general purpose and sleeving.
- (2) RT322 Insert, triangular positive rake, 3/8" (9.525mm) 1/32" (.787mm) radius, general purpose and sleeving.
- (2) RT321F Insert, triangular, 1/64" (.397mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (2) RT322F Insert, triangular, 1/32" (.787mm) radius, 3/8" (9.525mm) IC, precision counterboring



10104B Blind Hole Cutterhead

11.75" - 16" (298-406mm) diameter

Complete with tooling and Digital Micrometer
F107/9AH

- (1) 10104 Blind Hold Cutter Head 11.75 - 16" (298 - 406mm) without tooling
- (2) 900-2-20 Universal Micrometer Assembly Digital Reading (inch and metric) for 3/4" tooling.
- (1) 6259C Tool Holder, 3-3/8" (86mm) Range 8 - 8-1/4" (203 - 210mm)
- (1) 6259D Tool Holder, 3-5/8" (92mm) Range 8-1/4 - 8-3/4" (210 - 222mm)
- (1) 6259I Tool Holder, 3-7/8" (93mm) Range 8-3/4 - 9-1/4" (222 - 235mm)
- (1) 6259E Tool Holder, 4-1/8" (105mm) Range 9-1/4 - 10-1/4" (235 - 260mm)
- (1) 6259F Tool Holder, 4-5/8" (118mm) Range 10-1/4 - 11-1/4" (260 - 286mm)
- (1) 6259G Tool Holder, 5-1/8" (130mm) Range 11-1/4 - 12-1/4" (286 - 311mm)
- (2) RT321F Inserts, triangle, 1/64" radius 3/8" IC precision counterboring.
- (2) RT322F Inserts, triangle, 1/32" radius 3/8" IC precision counterboring.



10105B Blind Hole Cutterhead

14.0 - 20.0" (356 - 508mm) diameter

Complete with tooling and Digital Micrometer as listed below

F107/9AH

- (1) 10105 Blind Hole Cutter Head, 6587 Without Tooling
- (2) 900-2-20 Universal Micrometer Assembly Digital Reading (inch and metric) for 3/4" tooling.
- (1) 6259C Tool Holder, 3-3/8" (86mm) Range 8 - 8-1/4" (203 - 210mm)
- (1) 6259D Tool Holder, 3-5/8" (92mm) Range 8-1/4 - 8-3/4" (210 - 222mm)
- (1) 6259I Tool Holder, 3-7/8" (93mm) Range 8-3/4 - 9-1/4" (222 - 235mm)
- (1) 6259E Tool Holder, 4-1/8" (105mm) Range 9-1/4 - 10-1/4" (235 - 260mm)
- (1) 6259F Tool Holder, 4-5/8" (118mm) Range 10-1/4 - 11-1/4" (260 - 286mm)
- (1) 6259G Tool Holder, 5-1/8" (130mm) Range 11-1/4 - 12-1/4" (286 - 311mm)
- (1) 6259H Tool Holder, 5-5/8" (143mm) Range 12-1/4 - 13-1/4" (311 - 337mm)
- (1) 6259J Tool Holder, 6-1/8" (156mm) Range 13-1/4 - 14-1/4" (337 - 362mm)
- (2) RT321F Insert, triangular, 1/64" (.397mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (2) RT322F Insert, triangular, 1/32" (.787mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (1) 511-29-12D Torx Wrench



10116 Extended Blind Hole Cutterhead

4.5 - 9.0" (114.30 - 228.60mm) diameter, 12.5" (318mm) long

Complete with tooling and Digital Micrometer as listed below

Required for boring diameters smaller than the F107/9 spindle diameter 6" (152.4mm)

F107/9AH

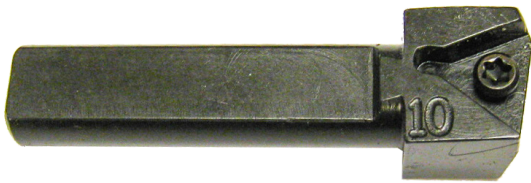
- (1) 10116A Blind Hold Spindle/Cutter Head, without Tooling
- (2) 900-2-20 Universal Micrometer Assembly Digital Reading (inch and metric) for 3/4" tooling.
- (1) 6259P Tool Holder, 3-1/8" (79mm) Range 4-1/2 - 4-3/4" (114 - 121mm)
- (1) 6259C Tool Holder, 3-3/8" (86mm) Range 4-3/4 - 5" (121 - 127mm)
- (1) 6259D Tool Holder, 3-5/8" (92mm) Range 5 - 5-1/2" (127 - 140mm)
- (1) 6259I Tool Holder, 3-7/8" (98mm) Range 5-1/2 - 6" (140 - 152mm)
- (1) 6259E Tool Holder, 4-1/8" (105mm) Range 6 - 7" (152 - 178mm)
- (1) 6259F Tool Holder, 4-5/8" (105mm) Range 7 - 8" (178 - 203mm)
- (1) 6259G Tool Holder, 5-1/8" (130mm) Range 8 - 9" (203 - 229mm)
- (1) 6598K Cartridge Triangle Insert Positive Rake, 2-15/32" Long (62.71mm)
- (1) 6598M Cartridge Triangle Insert Positive Rake, 1-3/8" Long (34.925mm)
- (1) 6260L Cartridge Assembly, Indexable Insert 1-7/8" (47.625mm) For Square Negative Rake Inserts
- (1) 6260M Cartridge Assembly, Indexable Insert 13/16" (20.65mm) For Square Negative Rake Inserts
- (1) RS322 Insert, square negative rake, 1/32" (.787mm) radius, 3/8 IC, black ceramic coated for high speed oversize through boring
- (2) 511-29-12C Screws (for Cartridges)
- (1) 511-29-12D Torque Key for 511-29-12D Screws
- (2) RT321 Insert, triangular positive rake, 3/8" (9.525mm) 1/64" (.397mm) radius, general purpose and sleeving.
- (2) RT322 Insert, triangular positive rake, 3/8" (9.525mm) 1/32" (.787mm) radius, general purpose and sleeving.
- (2) RT321F Insert, triangular, 1/64" (.397mm) radius, 3/8" (9.525mm) IC, precision counterboring
- (2) RT322F Insert, triangular, 1/32" (.787mm) radius, 3/8" (9.525mm) IC, precision counterboring



Tooling for Boring Cutterheads

<p>6593S Cartridge Assembly Circular interpolation counterbore facing, 12-degree relief, 3/8" IC, Positive Rake.</p> 	<p>6594 Cartridge Tool Holder Square Insert Negative Rake Range 2.90 - 3.40" (74 - 86mm) for boring</p> 
<p>6260M Cartridge Assembly Indexable Insert 13/16" (20.65mm) for Square Negative Rake Inserts for boring</p> 	<p>6593C Cartridge Tool Holder Triangular Insert Positive Rake. Range 2.90 - 3.40" (74 - 86mm)</p> 
<p>6593D Cartridge Tool Holder Triangular Insert Positive Rake. Range 3.4 - 3.90" (86 - 99mm)</p> 	<p>6598K Cartridge Triangular, Positive Rake, 2-15/32" (62.71mm) Long, for Counter Boring & sleeving</p> 
<p>6598M Cartridge Triangular, Positive. Rake, 1-3/8" (34.925mm) Long, for Counter Boring & sleeving</p> 	<p>6599 Cartridge Triangular, Zero Rake, 1.88" (47.75mm) Long, for Steel Cutting, requires RTS inserts</p> 
<p>6599D Cartridge Triangular, Zero Rake, 1.88" (47.75mm) Long, insert offset down .250" (6.4mm) for blind holes, for Steel Cutting, requires RTS inserts</p> 	<p>6747K Cartridge Assembly 5 Degree Chamfer for Triangular Positive Rake Inserts</p> 

6747P Cartridge Assembly
10 Degree Chamfer for Triangular Positive Rake Inserts



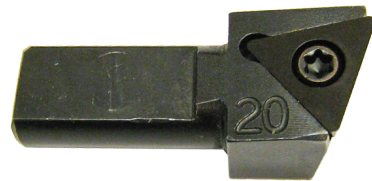
6747G Cartridge Assembly
15 Degree Chamfer for Triangular Positive Rake Inserts



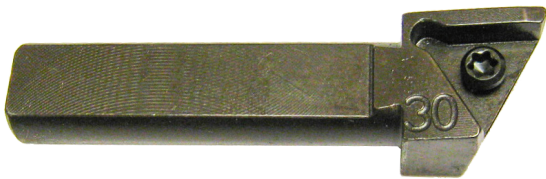
6747F Cartridge Assembly
20 Degree Chamfer for Triangular Positive Rake Inserts



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. Range
3.14 - 3.40" (80 - 86mm)



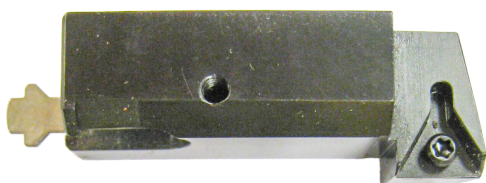
6593M Cartridge Assembly
Offset Indexable Insert, Triangular, Positive Rake. Range
3.40 - 3.90" (86 - 99mm)



6593N Cartridge Assembly
Offset Indexable Insert, Triangular, Positive Rake. Range
3.90 - 4.40" (86 - 112mm)



6593P Cartridge Assembly
Offset Indexable Insert, Triangular, Positive Rake. Range
4.40 - 4.90" (112 - 124mm)


















6260L Cartridge
Square Negative Rake, for Hi Speed Through Boring



<p>6260W Cartridge Square, Negative Rake, Offset, for Cylinders with Clearance Problems.</p> 	<p>RT322 Insert Triangular Positive Rake, 3/8" 1/32" Radius, General Purpose and Sleeving of Cast Iron</p> 	
<p>RT321 Insert Triangular Positive Rake, 3/8" 1/64" Radius, General Purpose and Sleeving of Cast Iron</p> 	<p>RT322F Insert Triangular, 3/8" 1/32" Radius, Precision Counterboring of Cast Iron</p> 	<p>RT321F Insert Triangular, 3/8" 1/64" Radius, Precision Counterboring of Cast Iron</p> 
<p>RTS322 Insert Triangular Positive Rake, 3/8" 1/32" Radius, General Purpose Steel Cutting</p> 	<p>RTS321 Insert Triangular, 3/8" 1/64" Radius, General Purpose Steel Cutting</p> 	<p>RS322 Insert Square negative rake, 1/32" (.787mm) radius, 3/8" IC, black ceramic coated for high speed oversize through boring</p> 
<p>6301E Insert Square, 1/32R, Negative Rake, CBN, High Speed Finishing</p> 	<p>511-29-12C Screw Torx, for Triangle Inserts</p> 	<p>511-29-12D Torque Key For 511-29-12D Screws</p> 
<p>6302A Chip Breaker Required to Hold Inserts in 6260L, M & W</p> 	<p>6301 Clamp Finger Holds Insert in Cartridge</p> 	<p>6301A Differential Screw Used with 6301 Clamp Finger</p> 

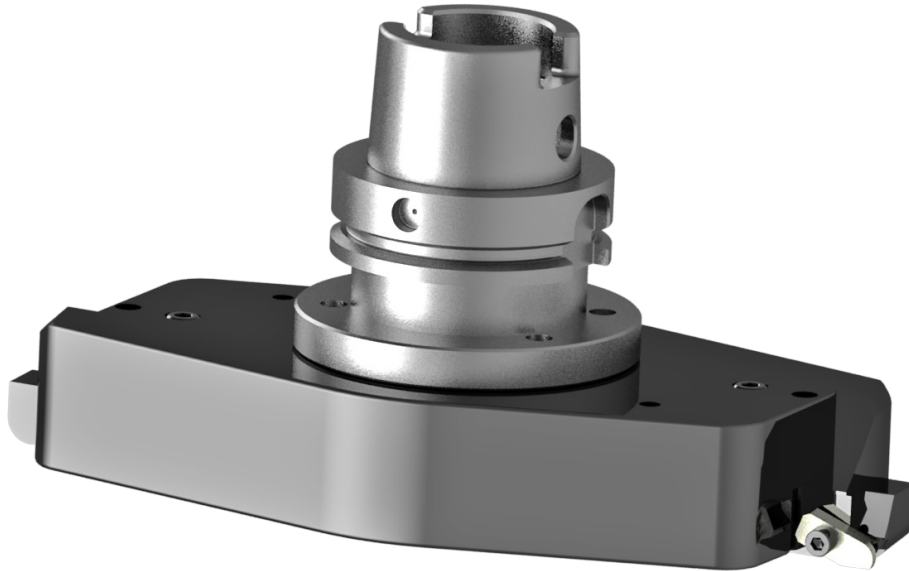
Brazed Tool Bits for Boring Cutterheads

<p>6260C Tool Bit Brazed, R8 Carbide 1-3/16" (30.175mm)</p> 	<p>6260D Tool Bit Brazed, R8 Carbide 1-7/8" (47.625mm)</p> 	<p>6260V Tool Bit Brazed, R1 Carbide 1-7/8" (47.625mm)</p> 
<p>6260P Tool Bit Brazed, Facing, Carbide 1-3/16" (30.175mm)</p> 	<p>6260R Tool Bit Brazed, Facing, Carbide 1-7/8" (47.625mm)</p> 	<p>6513D Tool Bit Brazed, Facing, 5/8" (15.875mm) Offset</p> 
<p>6513E Tool Bit Brazed, Facing, 5/16" (7.950mm) Offset</p> 	<p>6513J Tool Bit .037" (.94mm) Wide Grooving</p> 	<p>6513L Tool Bit .039" (.991mm) Wide Grooving</p> 
<p>6513N Tool Bit .060" (1.524mm) Wide Grooving</p> 	<p>6513Q Tool Bit .120" (3.048mm) Wide Grooving</p> 	<p>6532 Tool Bit 15-Degree Chamfer</p> 
<p>6532A Tool Bit 30-Degree Chamfer</p> 	<p>6532B Tool Bit 10-Degree Chamfer</p> 	<p>6532G Tool Bit 45-Degree Chamfer</p> 

Surfacing Cutterheads

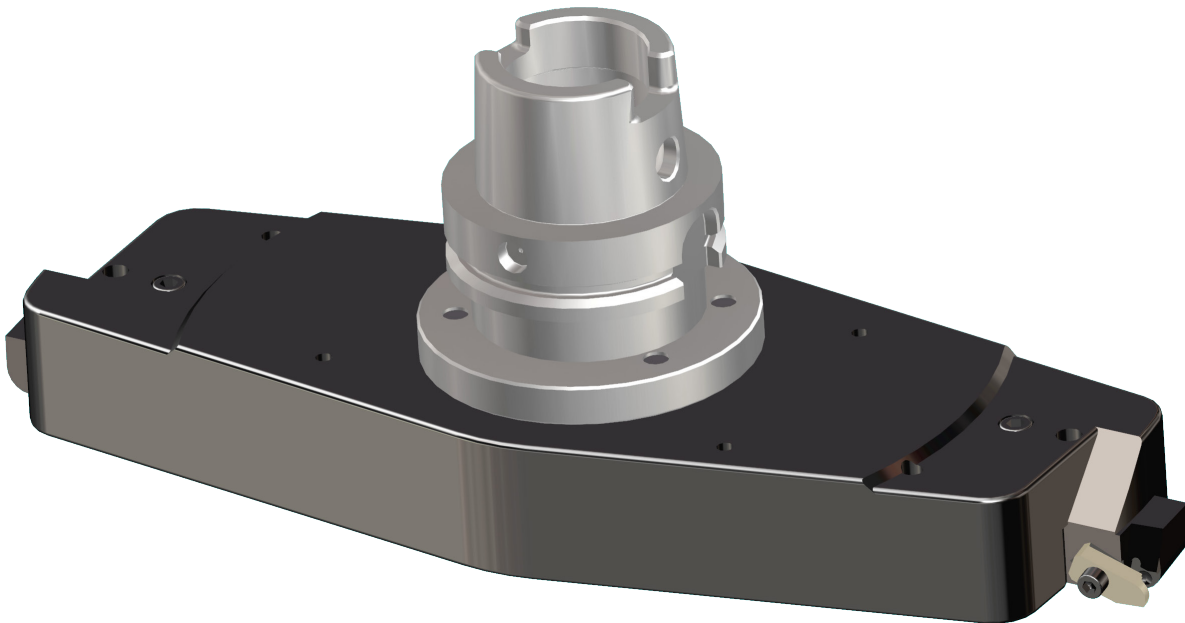
10119 10" (250mm) diameter Surfacing Cutterhead Assembly

Complete with tooling
F107/9AH



10106C 4" (360mm) diameter Surfacing Cutterhead Assembly

Complete with tooling
F107/9AH



10115 18" (460mm) diameter Surfacing Cutterhead Assembly

Complete with tooling
F107/9AH



10106B 22" (560mm) diameter Surfacing Cutterhead Assembly

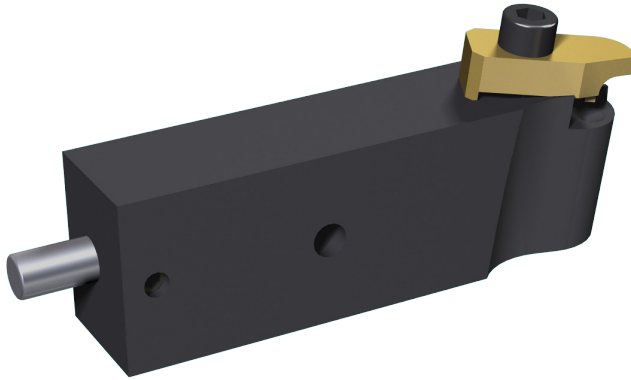
Complete with tooling
F107/9AH



Tooling for Surfacing Cutterheads

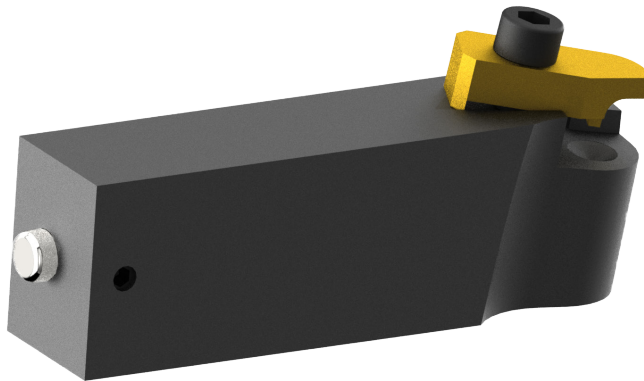
7202W Tool holder Assembly

Square or Round, 3/8" (9.525mm), Negative Rake



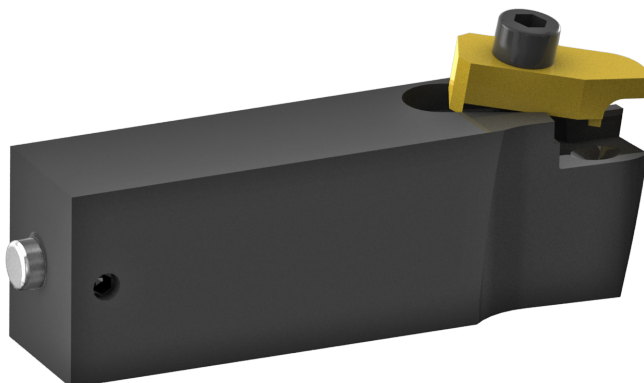
7202V Tool holder Assembly






Square or Round, 1/2" (12.70mm), Negative Rake



7202U Tool holder Assembly

Square or Round, 1/2" (12.70mm), Positive Rake



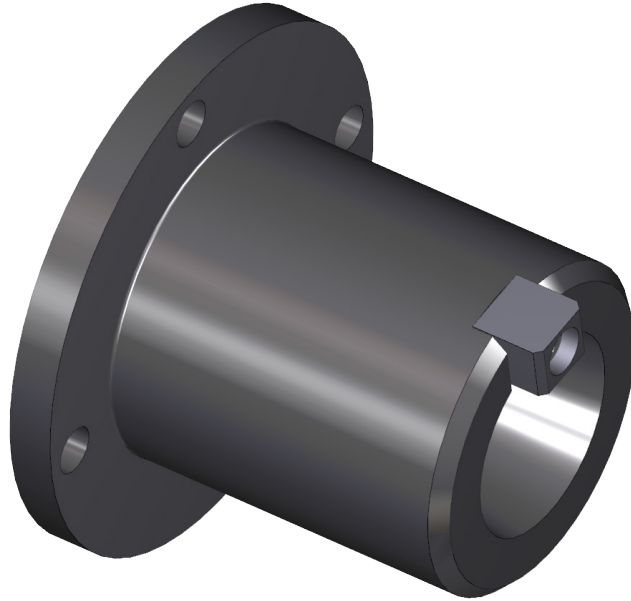
<p>6303K Coated Carbide Insert 3/8" IC, for Aluminum and Cast Iron</p> 	<p>6303M PCD Round Insert 3/8" IC, for Super Finishing Aluminum</p> 
<p>6303B CBN Round Insert Double Sided, 3/8" IC, for Cast Iron</p> 	<p>6303R CBN Round Insert 3/8" IC, for Cast Iron Heads with Steel Pre-Cups</p> 
<p>6303S CBN Round Insert 3/8" IC, for Cutting Aluminum Heads with Steel Pre-Cups and Aluminum Blocks With Liners</p> 	<p>6301J CBN Square Insert Double Sided, 3/8" IC, 1/16" Radius, for Heavy Stock Removal</p> 
<p>6303Q CBN Round Insert Double Sided, 1/2" IC, for Cast Iron</p> 	<p>6303P PCD Round Insert 1/2" IC, for Super Finishing Aluminum</p> 
<p>6303U CBN Round Insert Single Sided, 3/8" IC. For hard cast iron</p> 	<p>6303V CBN Insert Octagonal (16-Cutting Corners) for surfacing large diesel blocks</p> 

Special Tooling for Block End Machining

Requires Heavy Duty Right Angle Drive 6773F or 6779K

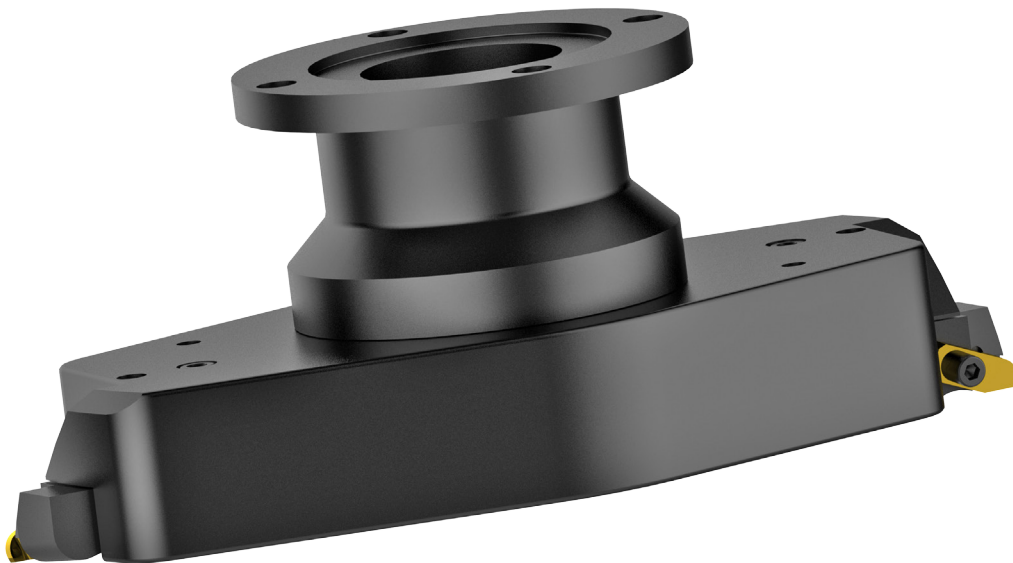
6779H Adaptor

For 40 Taper Tooling such as 6648K Collet Kit



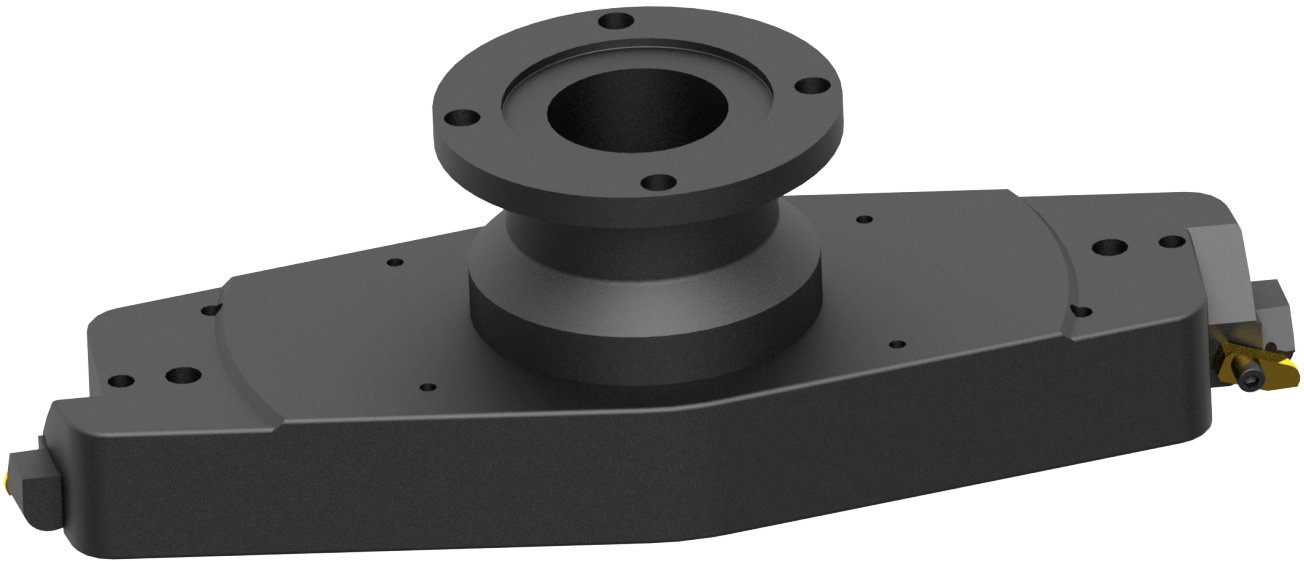
6779L 10" (250mm) Diameter Surfacing Cutterhead Assembly

Complete with Tool holders for .375" (9.52mm) round or square inserts for Block End Surfacing



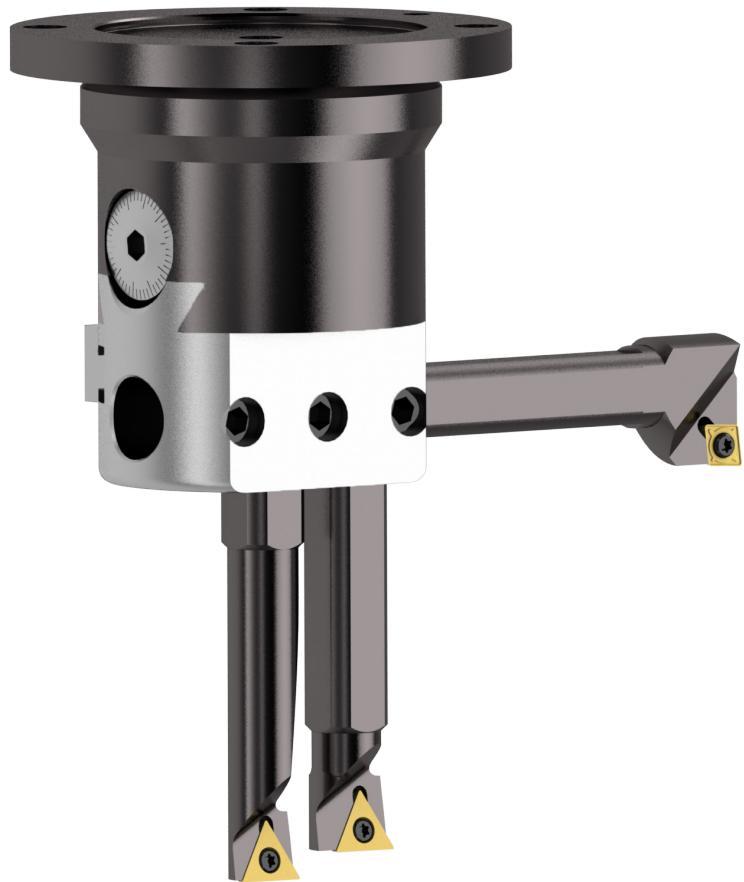
6779M 14" (360mm) Diameter Surfacing Cutterhead Assembly

Complete with Tool holders for .375" (9.52mm) round or square inserts for Block End Surfacing



6779N Crossfeed Head Assembly

Heavy Duty Offset 90 degree right angle drive



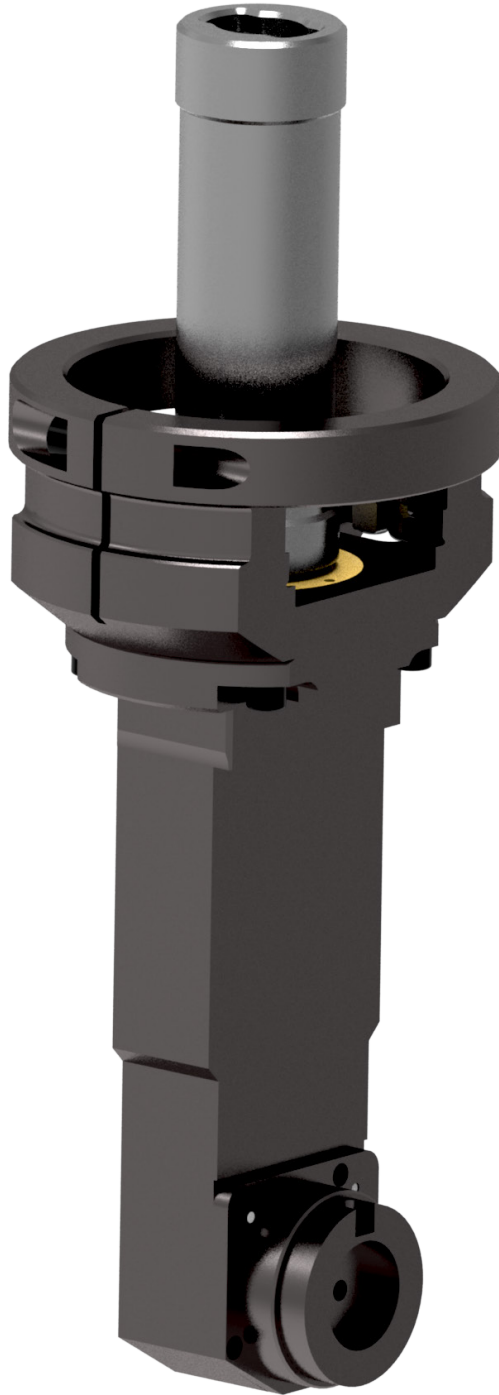
Main Line Bore Equipment

Line Bore Equipment for Small to Large Blocks 1.9 - 8.1" (48 - 206mm) diameter

6753J Straight 90 Degree Right Angle Drive Assembly

For Small to Medium Blocks.

Note: Cutterheads are not included with Right Angle Drive and must be ordered separately
F103/4/5/7/9



6856 Straight 90 Degree Right Angle Drive Assembly

For Medium to Large Blocks.

Note: Cutterheads are not included with Right Angle Drive and must be ordered separately

F103/4/5/7/9



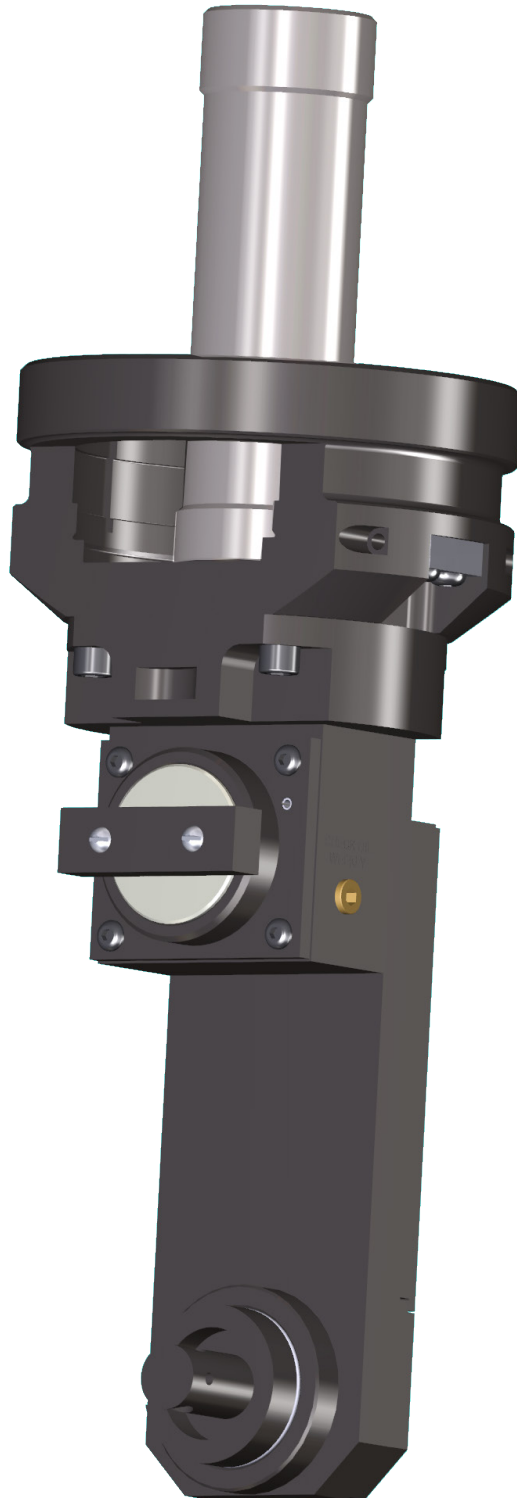
6753L Special Belt Drive 90 Degree Right Angle Drive Assembly

For limited clearance between bearing caps, 1.9 - 4.0" (48 - 101.6mm) diameter

Note: Cutterheads are not included with Right Angle Drive and must be ordered separately

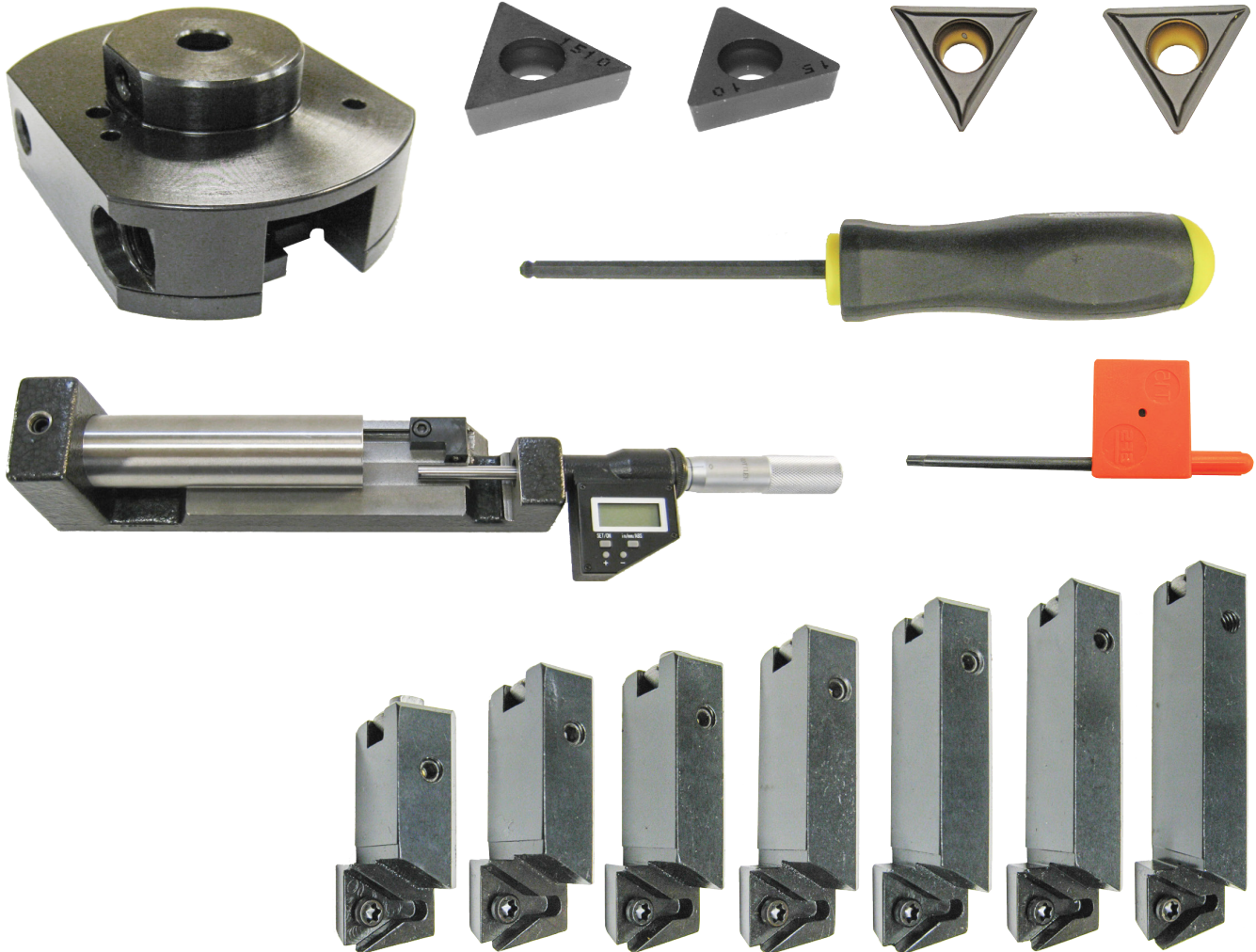
Note: The Belt Drive Right Angle Drive is designed for limited clearance between bearing caps and it's cutting performance will deteriorate as larger diameters are bored and extension spacers are used.

F103/4/5/7/9



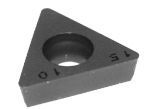
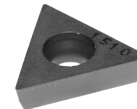
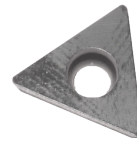
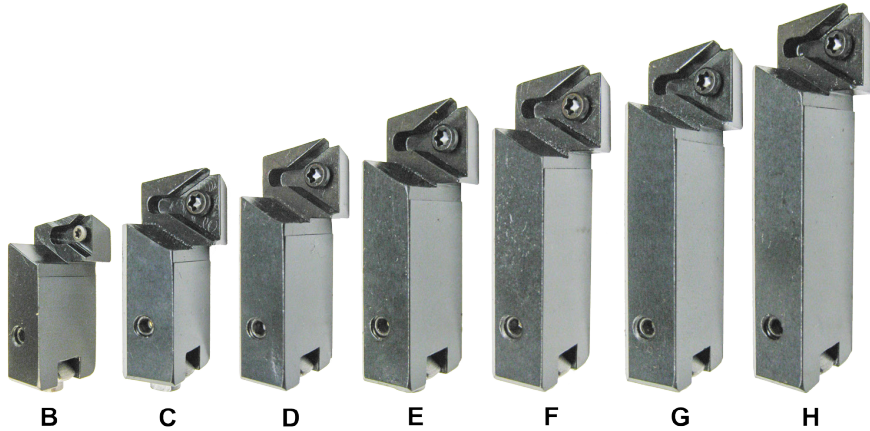
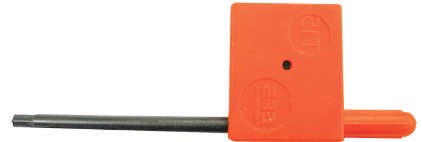
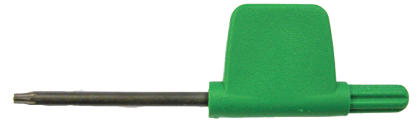
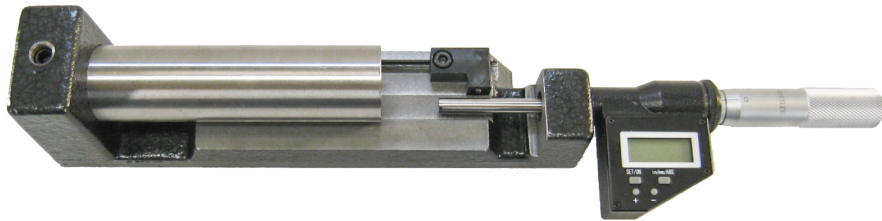
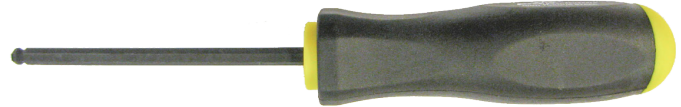
650-2-39C Cutterhead Package Line Boring

2.9 - 5.6" (74 - 142mm) diameter complete with tooling and Digital Micrometer



650-2-39A Cutterhead Package Line Boring

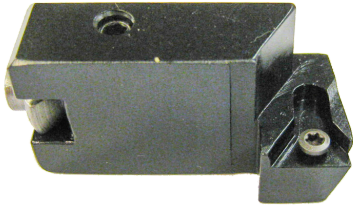
5.4 - 8.1" (137 - 206mm) diameter complete with tooling and Digital Micrometer



Tooling for Proceeding Cutterheads

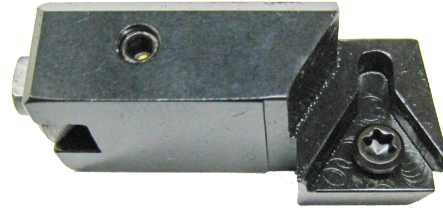
6801B Tool holder Assembly

Indexable Insert 1/4" triangle, positive rake, 1.44" (37mm) overall length



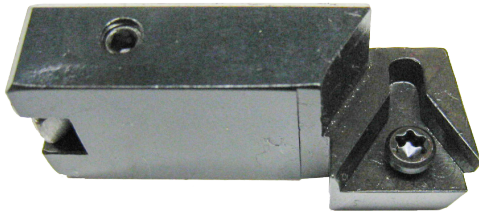
6801C Tool holder Assembly

Indexable Insert 3/8" triangle, positive rake, 1.65" (42mm) overall length



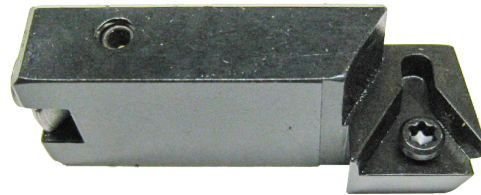
6801D Tool holder Assembly

Indexable Insert 3/8" triangle, positive rake, 1.85" (47mm) overall length



6801E Tool holder Assembly

Indexable Insert 3/8" triangle, positive rake, 2.05" (52mm) overall length



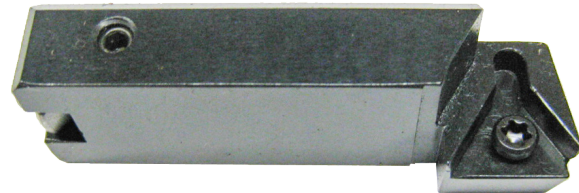
6801F Tool holder Assembly

Indexable Insert 3/8" triangle, positive rake, 2.25" (57mm) overall length



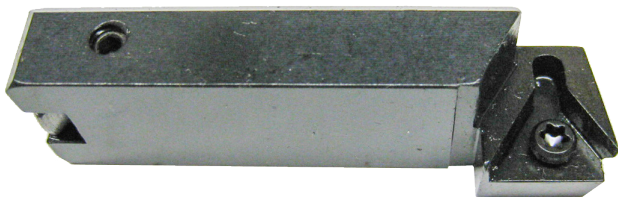
6801G Tool holder Assembly

Indexable Insert 3/8" triangle, positive rake, 2.45" (62mm) overall length



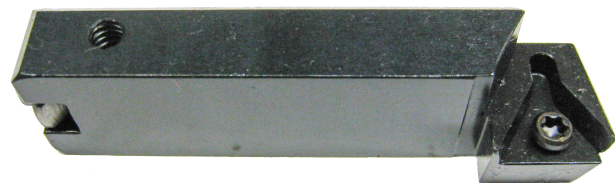
6801H Tool holder Assembly

Indexable Insert 3/8" triangle, positive rake, 2.65" (67mm) overall length



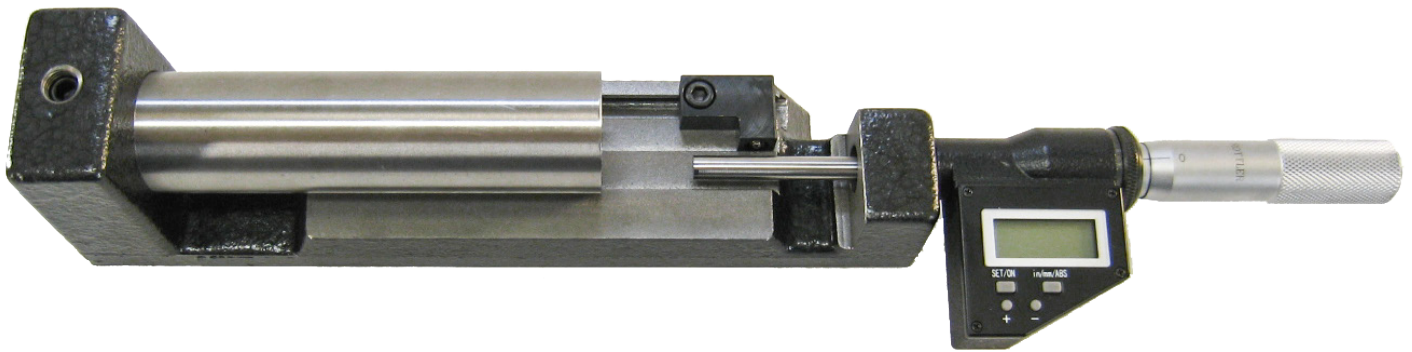
6801J Tool holder Assembly

Indexable Insert 3/8" triangle, positive rake, 2.85" (72mm) overall length



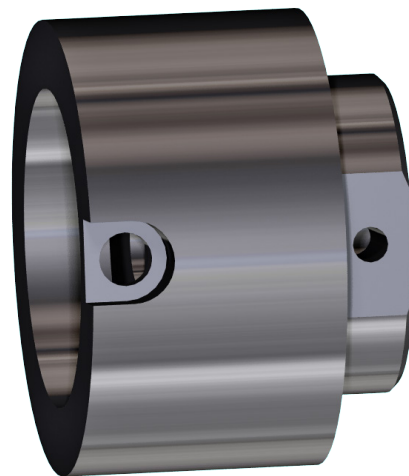
900-2-19 Universal Micrometer Assembly

Digital Reading (inch and metric) for 1/2" tooling (6801 series)



Extension Spacers for Proceeding Right Angle Drive Assemblies

650-2-43 Spacer, Extension 1.05" (25.725mm)



650-2-43A Spacer, Extension 1.50" (38.10mm)



650-2-43B Spacer, Extension .700" (17.78mm)





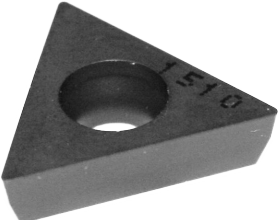
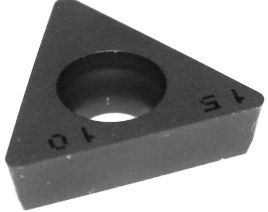



650-2-43D Spacer, Extension 1.215" (30.86mm)



650-2-43E Spacer, Extension .41" (10.41mm)



Inserts for Proceeding Line Bore Cutterhead Tool holders

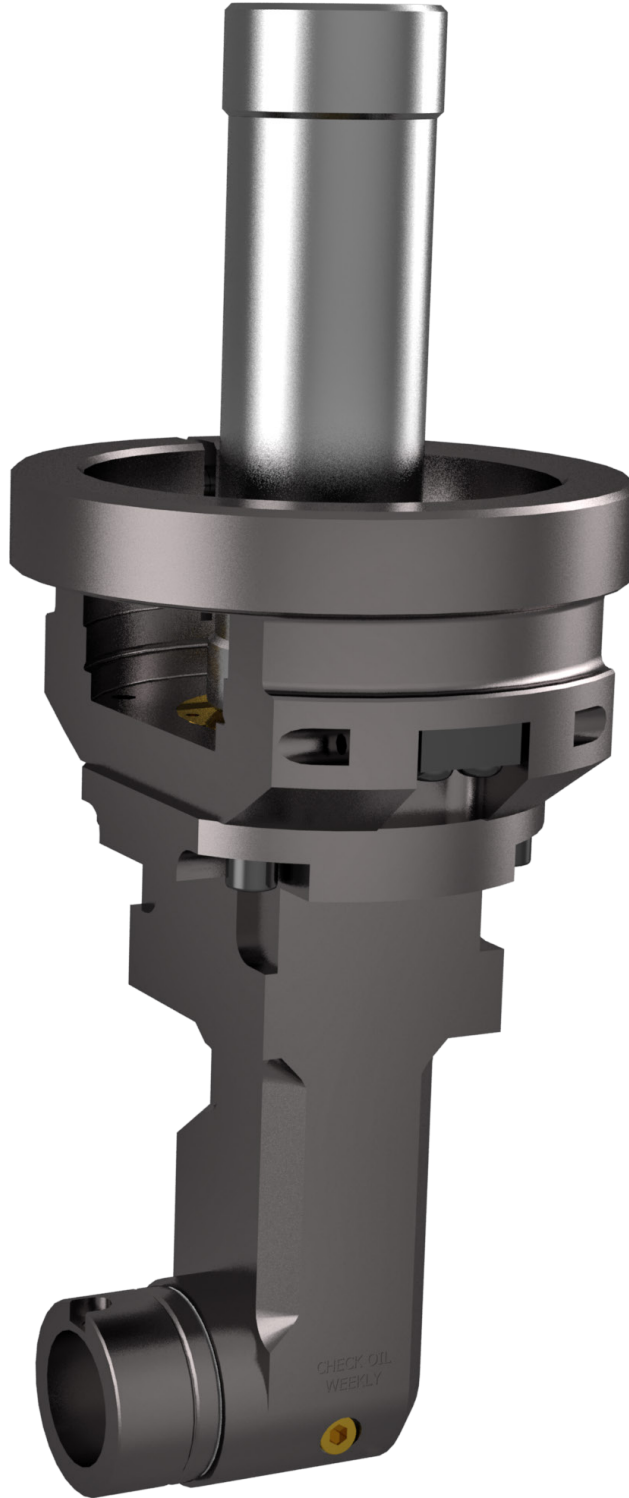
<p>RT211 Triangular Insert 1/4" (6.35mm) 1/64" (.397mm) radius, 1/4" triangular Insert holders only, general purpose and sleeving (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p> 	<p>RT212 Triangular Insert 1/4" (6.35mm) 1/32" (.787mm) radius, 1/4" triangular Insert holders only, general purpose and sleeving (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p> 
<p>RT321 Triangular Insert Positive rake, 3/8" (9.525mm) 1/64" (.397mm) radius, general purpose and sleeving (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p> 	<p>RT322 Triangular Insert Positive rake, 3/8" (9.525mm) 1/32" (.787mm) radius, general purpose and sleeving (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p>  or
<p>RT321F Triangular Insert 1/64" (.397mm) radius, 3/8" (9.525mm) IC, precision counterboring (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p> 	<p>RT322F Triangular Insert 1/32" (.787mm) radius, 3/8" (9.525mm) IC, precision counterboring (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p> 
<p>6301K Insert 1/4" (6.35mm) 1/32" (.787mm) Radius Diamond Tipped for Line Boring Aluminum</p> 	

Special Right Angle Drive for Line Boring Camshaft Bores

For F103/4/5

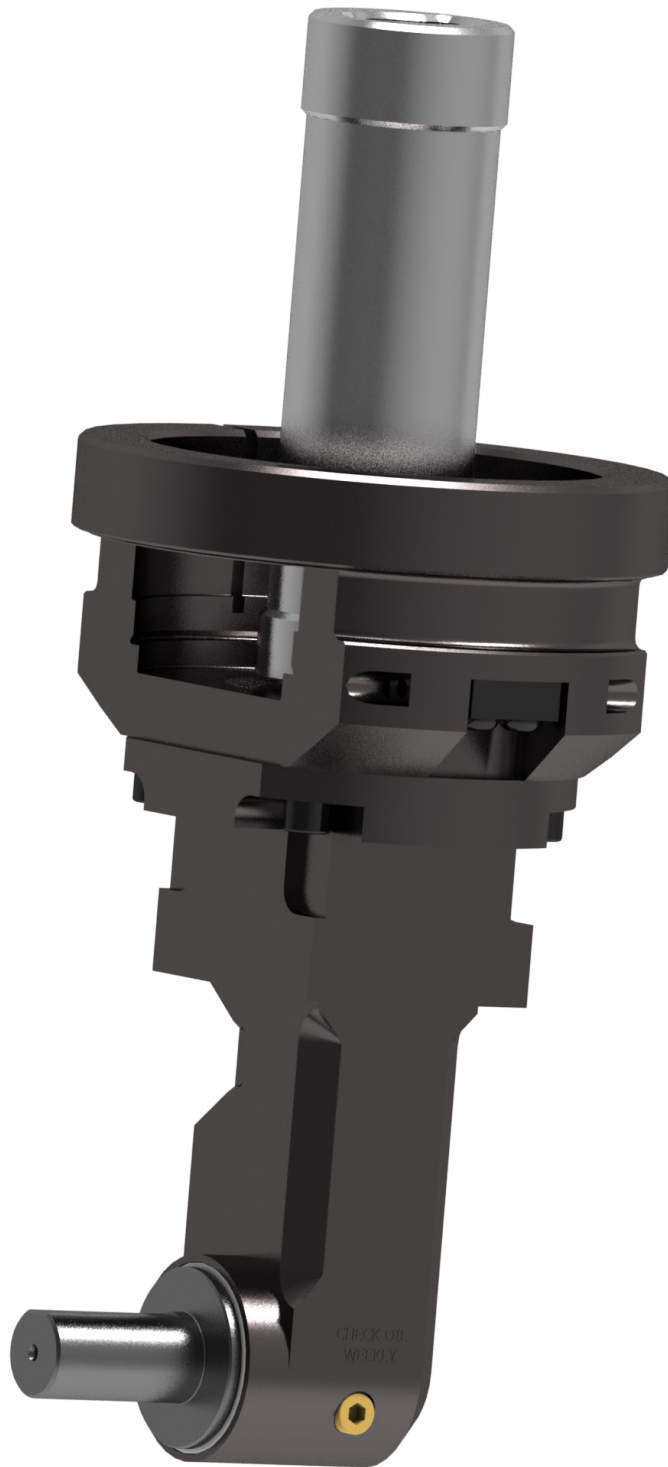
650-2-46Y Special Right Angle Drive using Cutterhead 650-2-39B

For F103/4/5/7/9

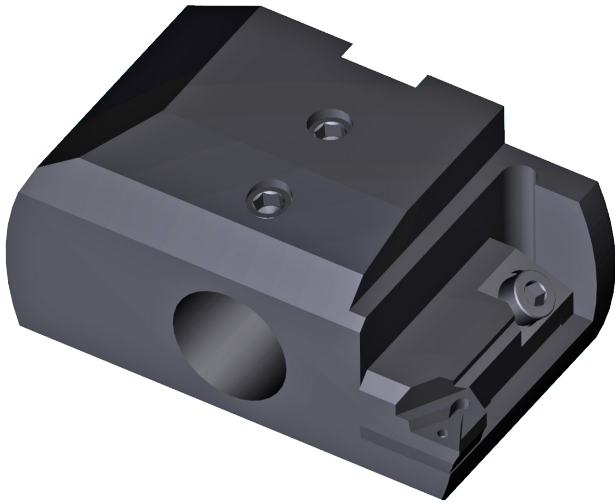


650-2-46 Special Right Angle Drive

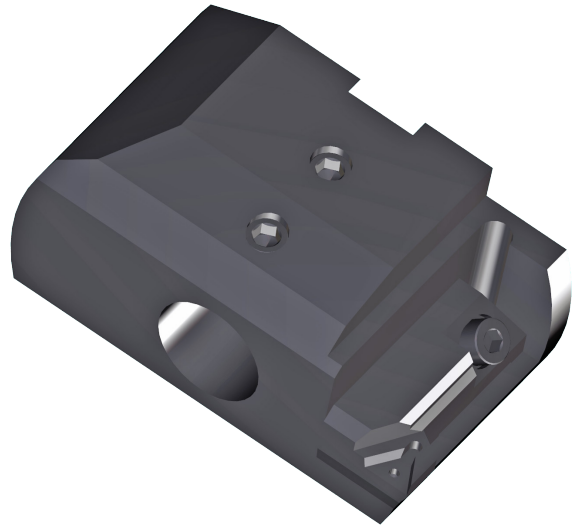
Uses dedicated cutter heads listed following: for F103/4/5
F103/4/5/7/9



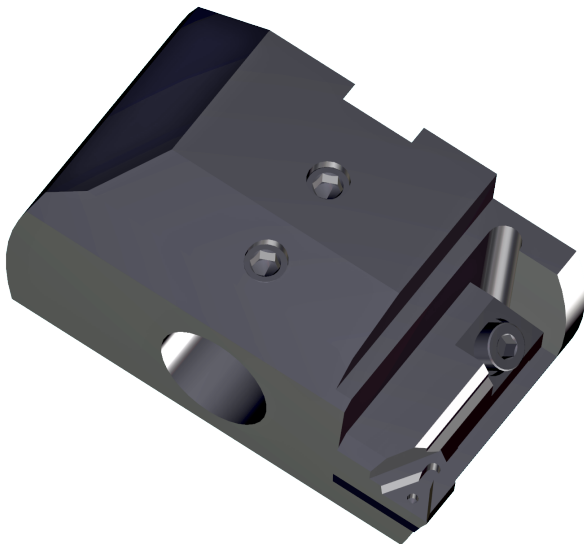
650-2-47C Dedicated Cutterhead for 650-2-46
Diameter 3.592" (91.24mm) with Micro Adjust



650-2-47 Dedicated Cutterhead for 650-2-46
Diameter 3.612" (91.74mm) with Micro Adjust



650-2-47A Dedicated Cutterhead for 650-2-46
Diameter 3.632" (92.25mm) with Micro Adjust



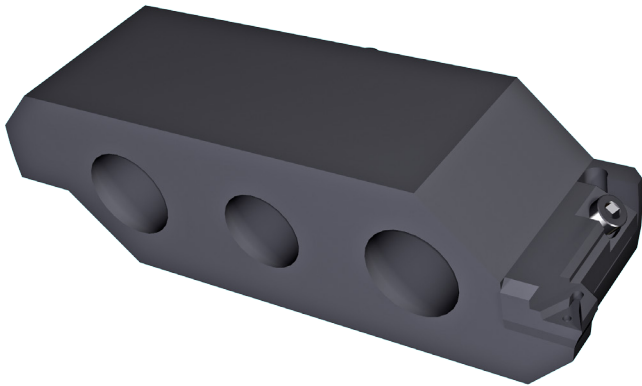
650-2-47B Dedicated Cutterhead for 650-2-46
Diameter 3.652" (92.76mm) with Micro Adjust



Special Dedicated Diameter Cutterheads with Micro Adjust Cartridges for Heavy Duty Straight Right Angle Drive 6856

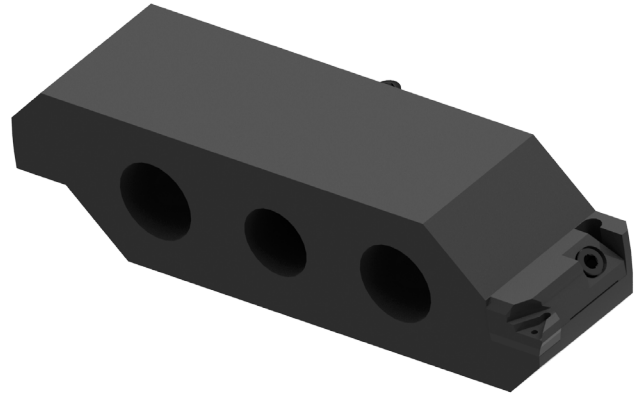
650-2-47E Line Bore Cutterhead Body Assembly

6.8450" (173.86mm) Diameter (Cummins K-38/K-50)



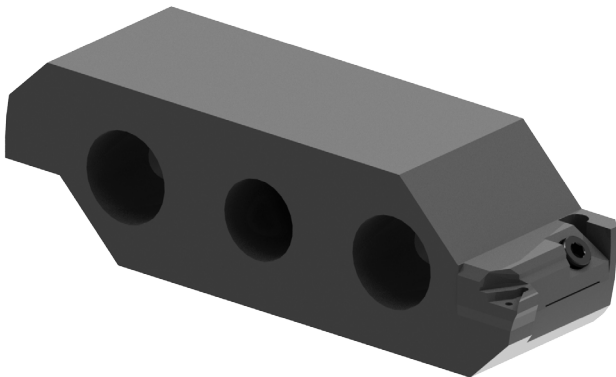
650-2-47G Line Bore Cutterhead Body Assembly

7.5954" (192.92mm) Diameter (Cummins QSK-45/QSK-60)



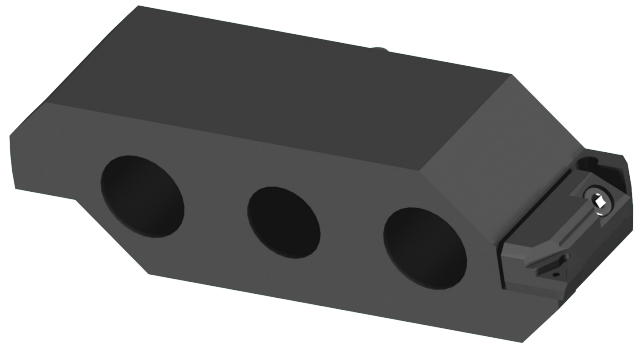
650-2-47J Line Bore Cutterhead Body Assembly

6.6820" (169.72mm) Diameter (CAT 3500)



650-2-47L Line Bore Cutterhead Body Assembly

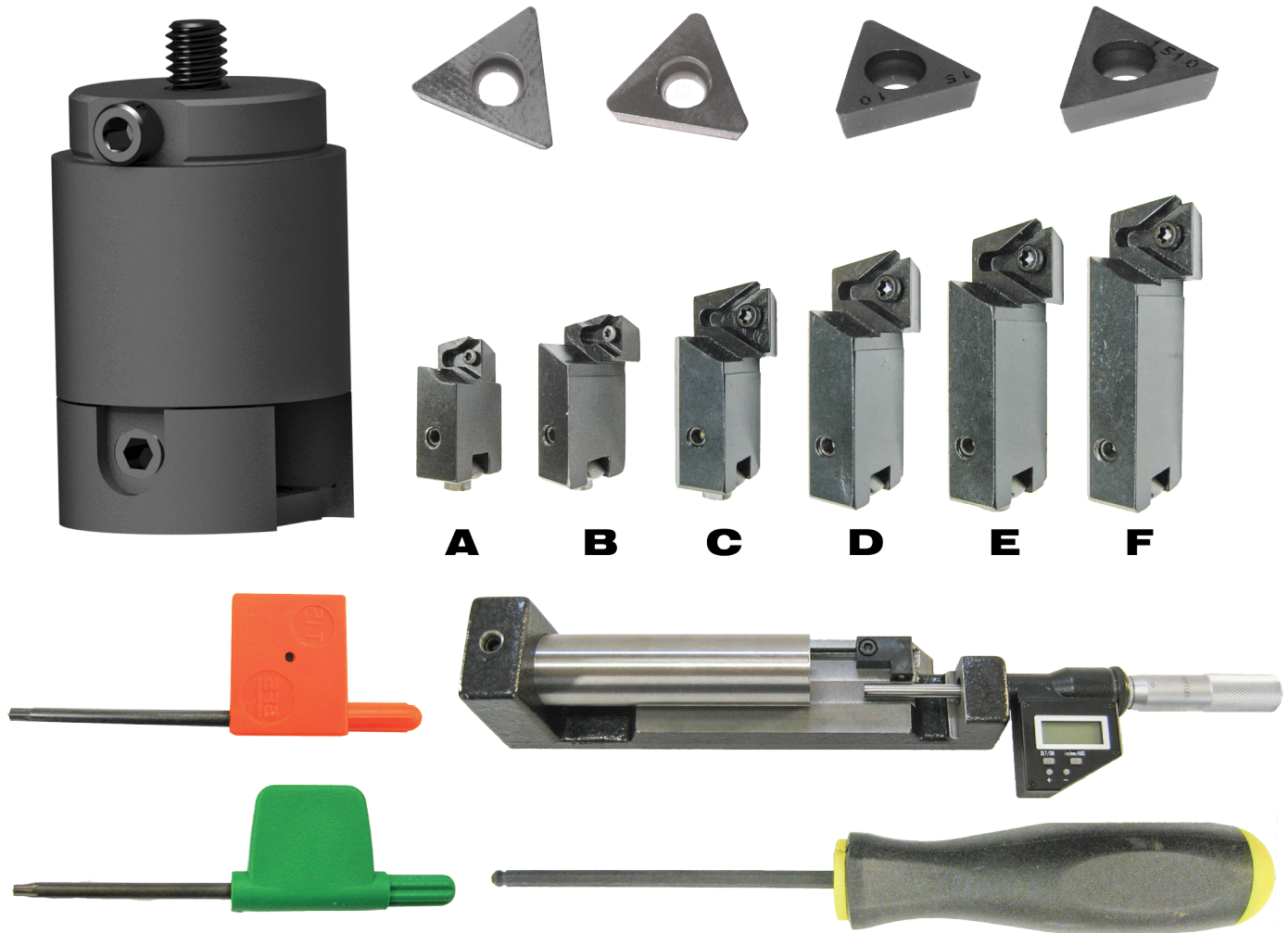
6.7322" (171.00mm) Diameter (MTU 4000)



Special Cutterhead for Horizontal Boring with Right Angle Drives

650-2-39J Cutterhead Assembly

1.5 - 4.0" (38 - 102mm) Diameter X 1.9" (48mm) Length including Tooling and Digital Micrometer for use with Right Angle Drives 6753J, 6856, 6753L for horizontal boring



Line Bore Fixturing for Small to Large Blocks and Heads

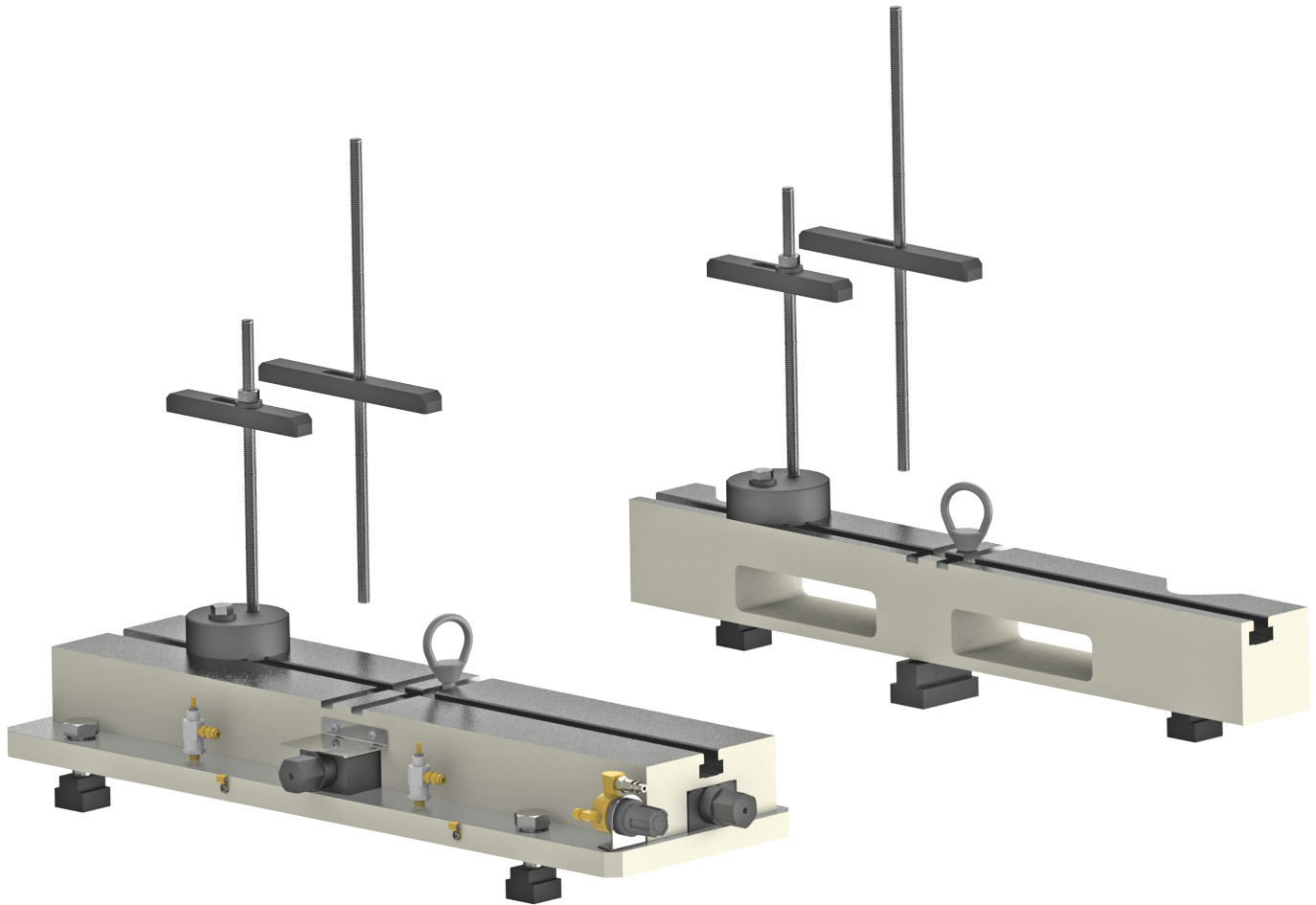
650-3-56 Line Bore Pivot Table Fixture

Complete with Universal Work Holding System for Small In Line and 90 Degree V Blocks, Includes 6843 90 Degree V Block Supports. Also Used for Setting Up Cylinder Heads Such as CAT3406E and Detroit 50/60 Series for Camshaft Line Boring.



6821 Adjustable Universal Line Boring Fixture Assembly

Includes Locators for In-Line Blocks, Supports for V Blocks Must Be Ordered Separately.

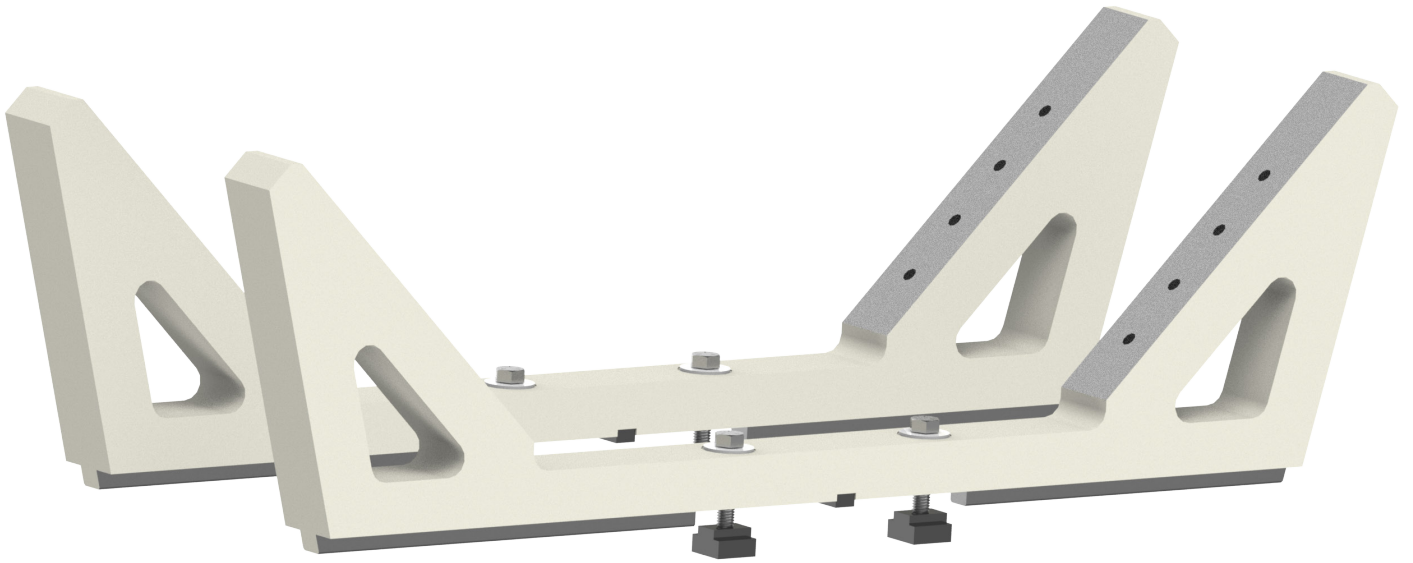


6843 90 Degree V Block Supports

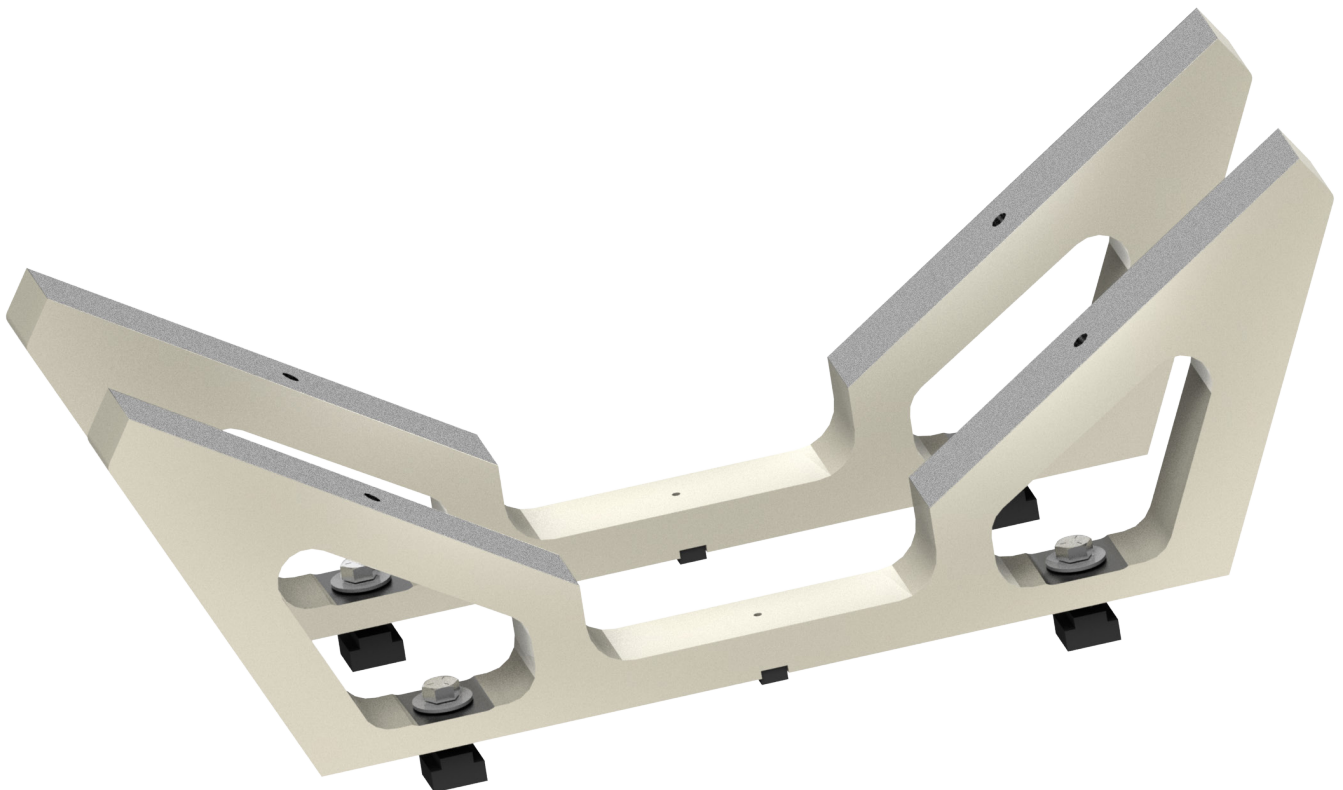
For Small To Mid-Size 90 Degree V Blocks for use on Line Bore Fixtures 6821 and 11113



6823E 90 Degree V Block Supports for Large 90 Degree V Blocks
Such as MTU4000 for use on Line Bore Fixture 6821

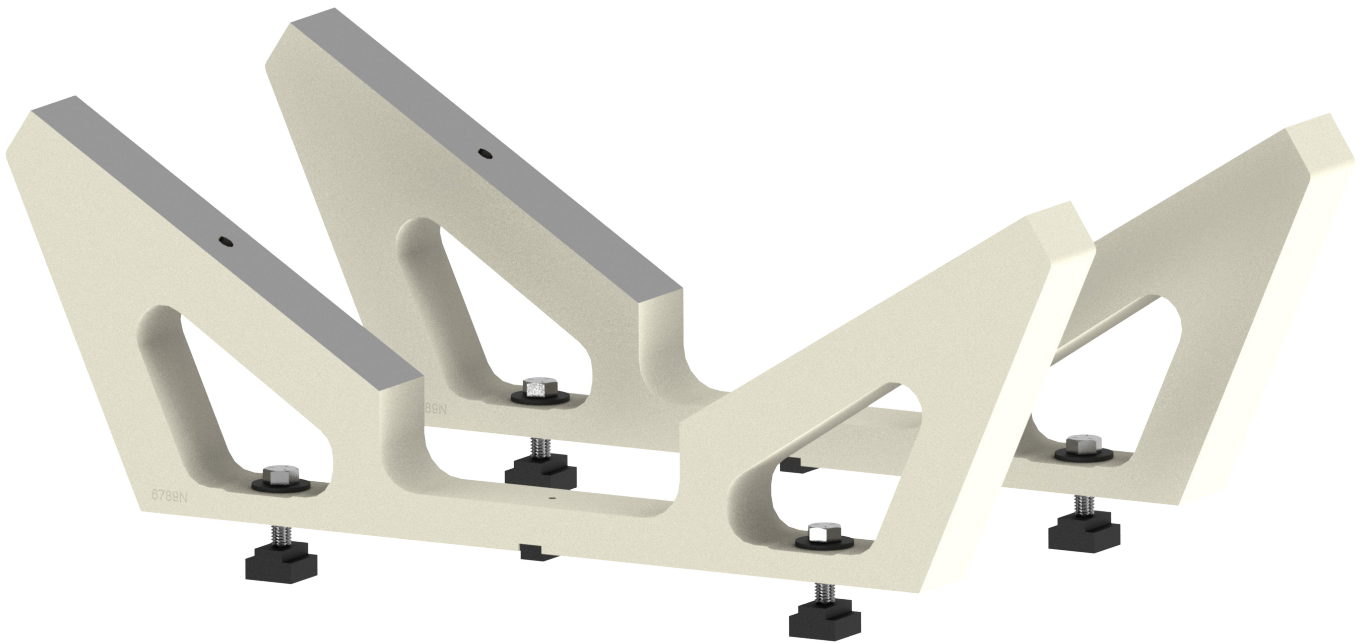


6789L 113 Degree V Block Supports
For Detroit Diesel V53 for use on Line Bore Fixture 6821 and 11113



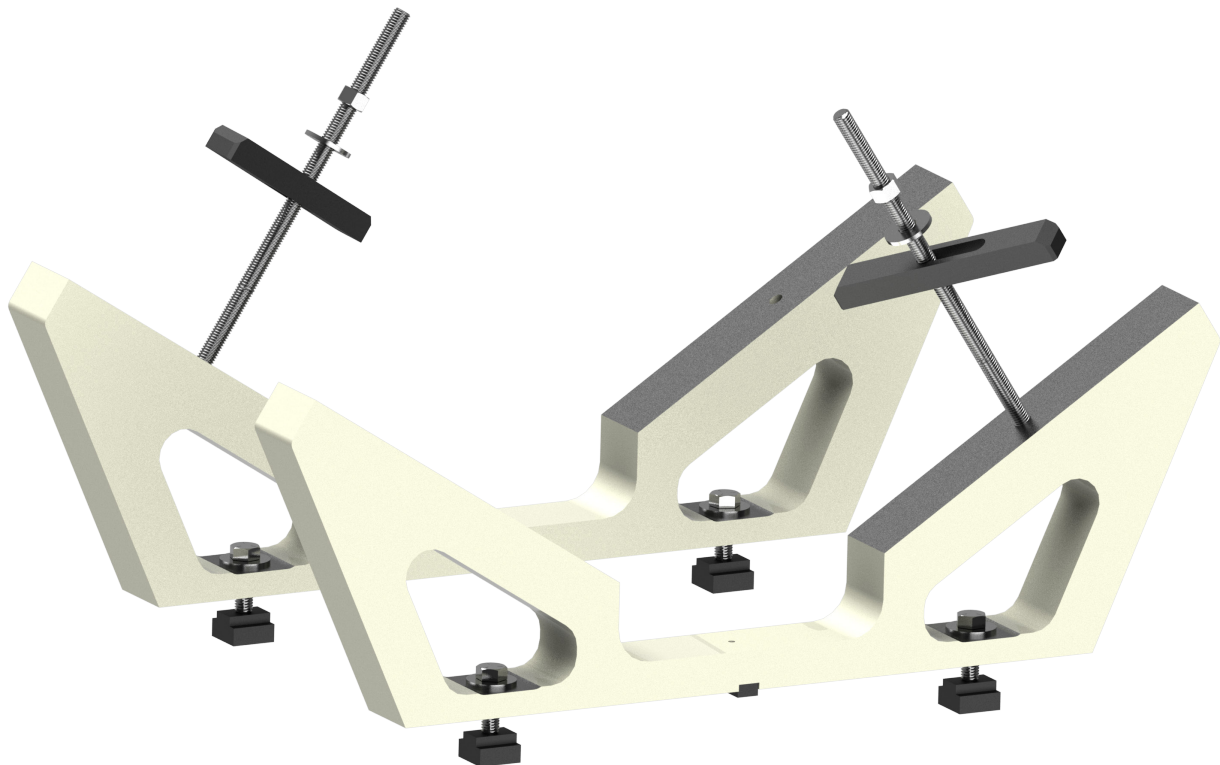
6789N 116 Degree V Block Supports for Detroit Diesel V71 & V92

For use on Line Bore Fixture 6821 and 11113



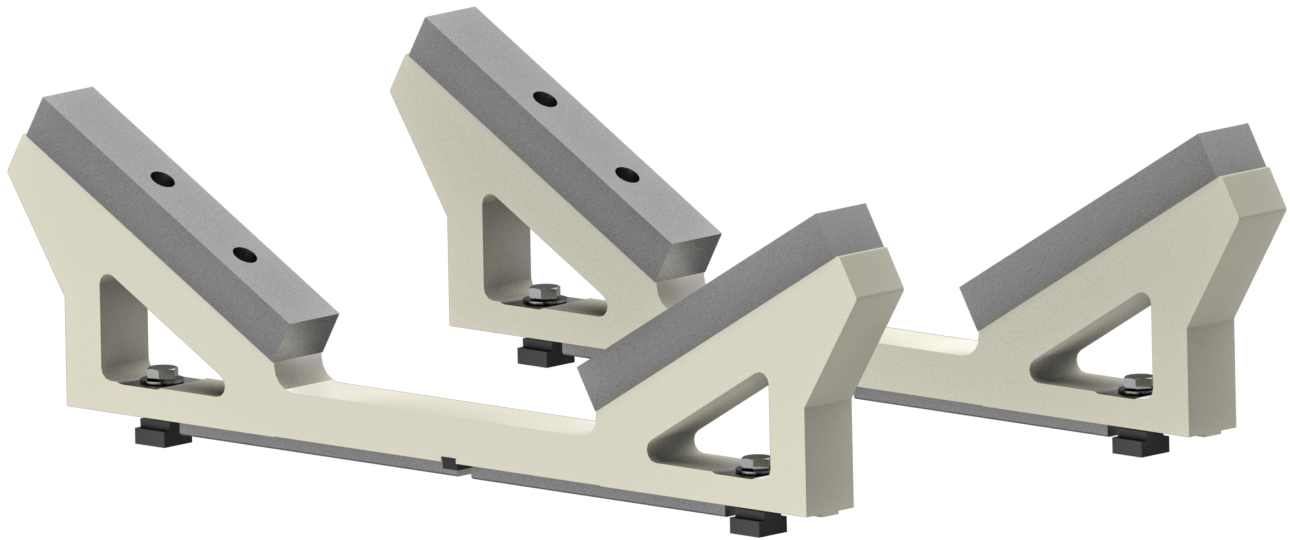
6789E 115 Degree V Block Supports for CAT 3400

For use on Line Bore Fixture 6821 and 11113

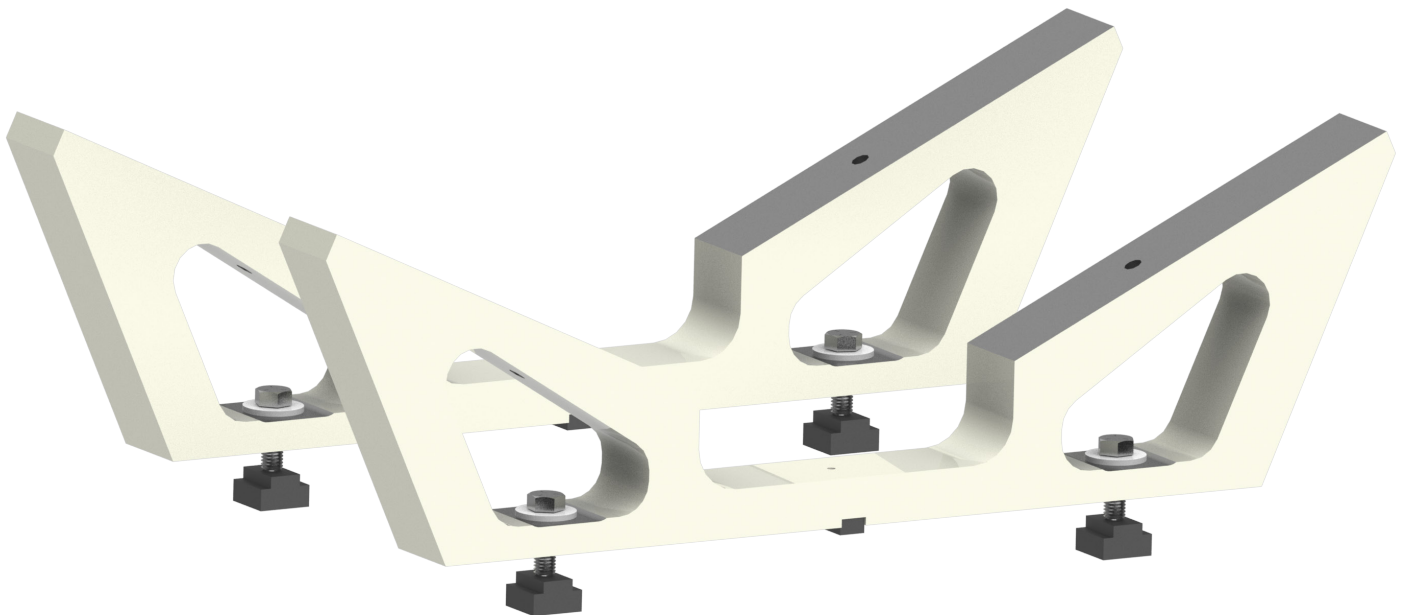


6823B 120 Degree V Block Supports for Large 120 Degree V Blocks

Such as CAT 3500, Cummins K & QSK, Komatsu 170 for use on Line Bore Fixture 6821

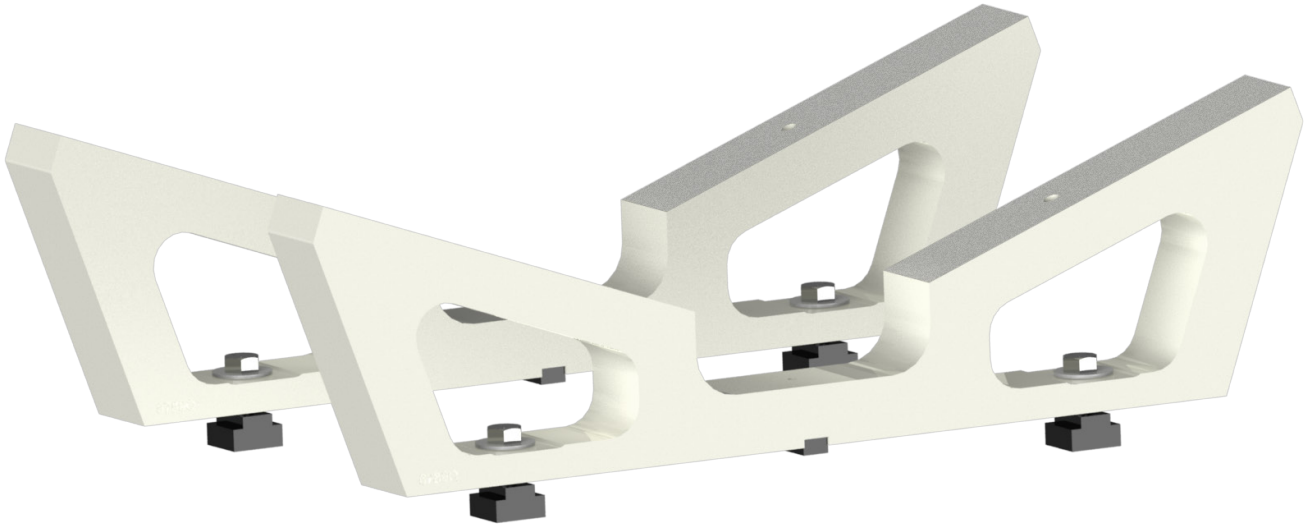
**6789K 130 Degree V Block Supports for Komatsu 140**

For use on Line Bore Fixture 6821



6789Q 140 Degree V Block Supports for Cummins 1710

For use on Line Bore Fixture 6821



6789T 110 Degree V Block Supports for Jenbacher 3

For use on Line Bore Fixture 6821



Line Bore Tooling for Extra Large Blocks

Such as CAT C175, 3500 & 399, Waukesha 7042, White Superior 8G82S
F88, F98 & F99 Only

6898 Extra Heavy Duty 90 Degree Right Angle Drive

Double Sided for machining in left and right directions
F107/9AH

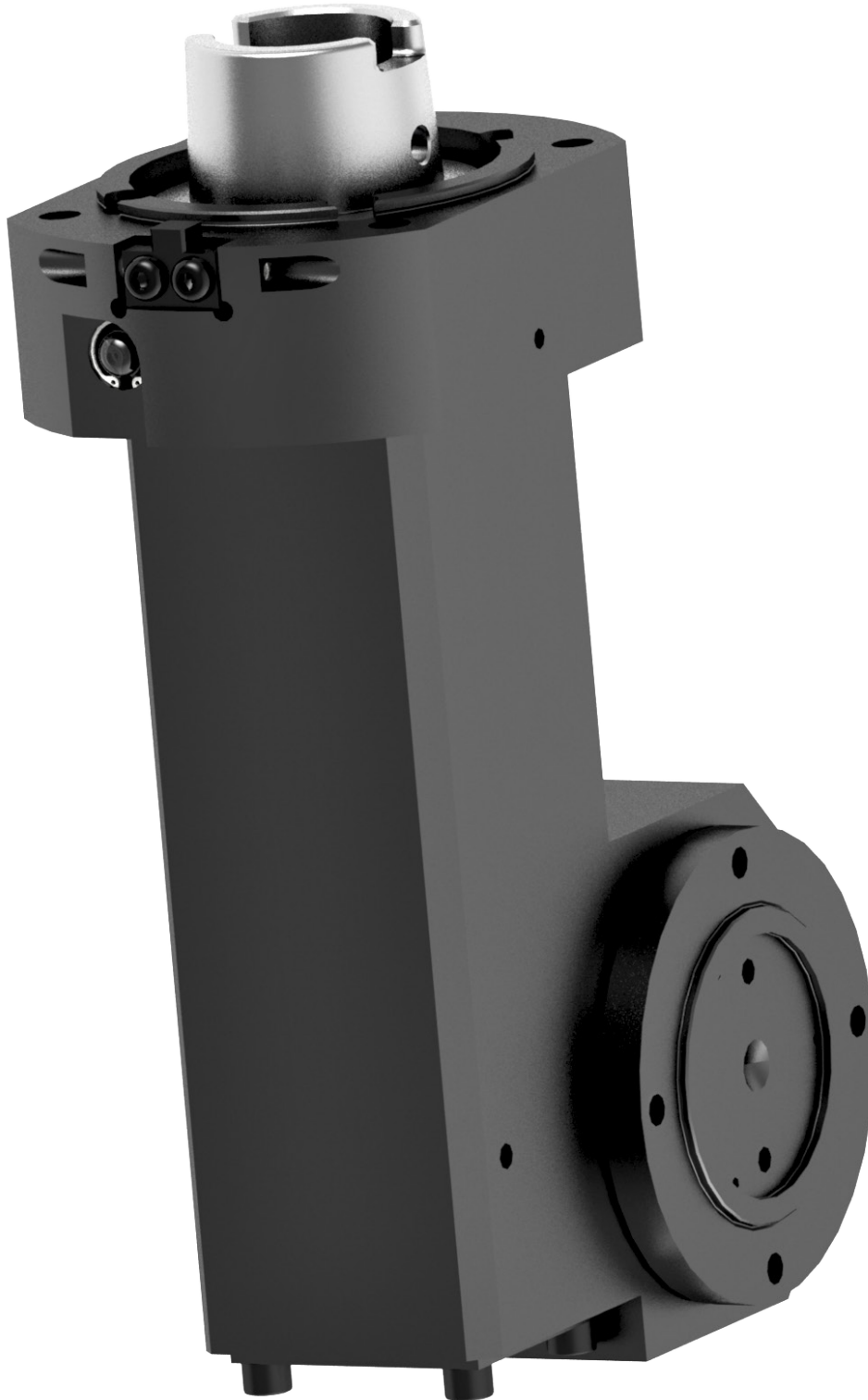


10114 Heavy Duty Offset 90 degree Right Angle Drive Assembly

Without tooling

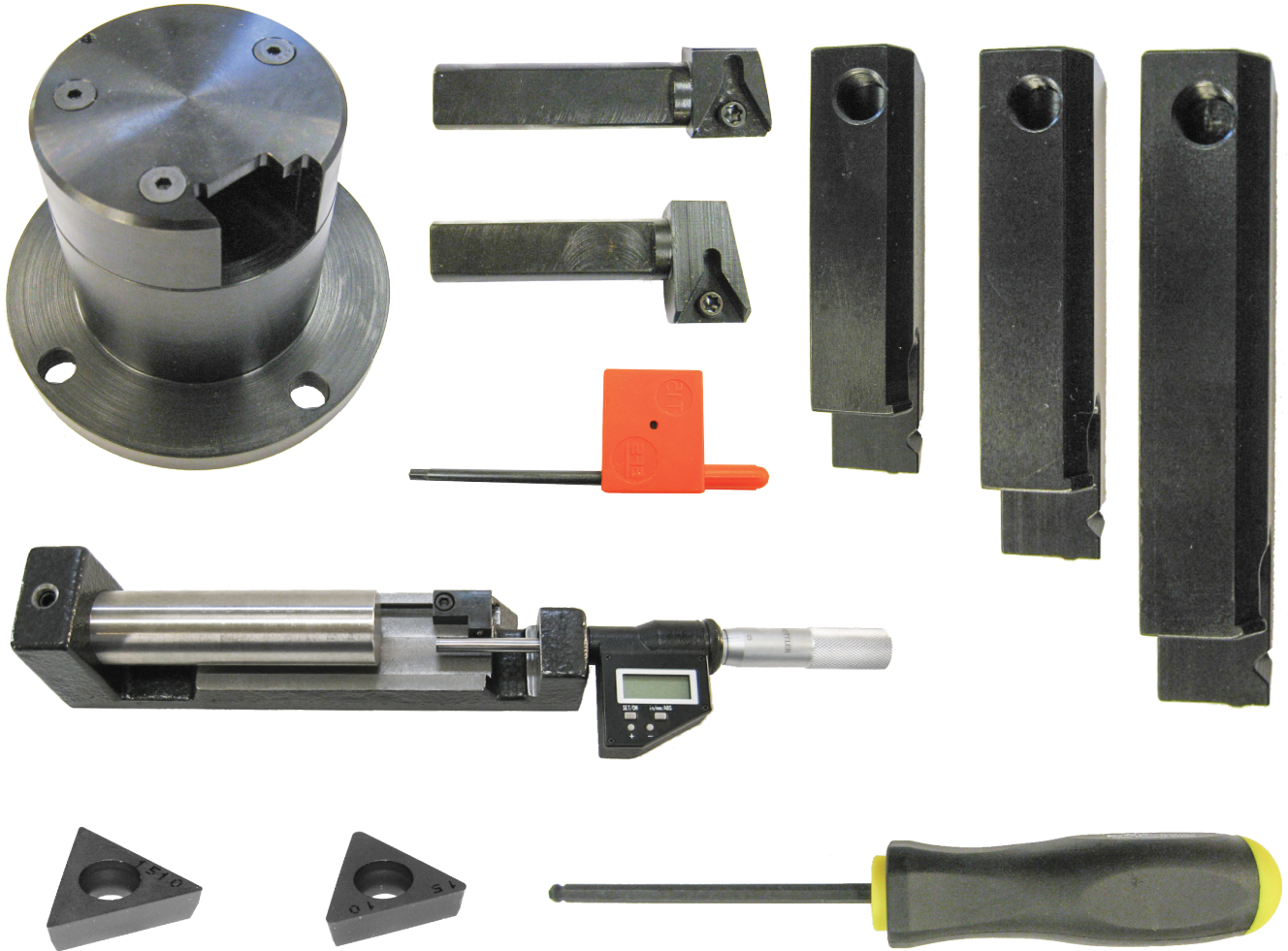
Note: Cutterheads are not included with Right Angle Drive and must be ordered separately

F107/9AH



6519V Heavy Duty Line Bore Cutterhead Package

6.0 - 8.50" (152.40 - 215.90mm) diameter X 3" (76mm) length complete with tooling and Digital Micrometer. Minimum Distance Between Bearing Housings 7.94" (102mm)



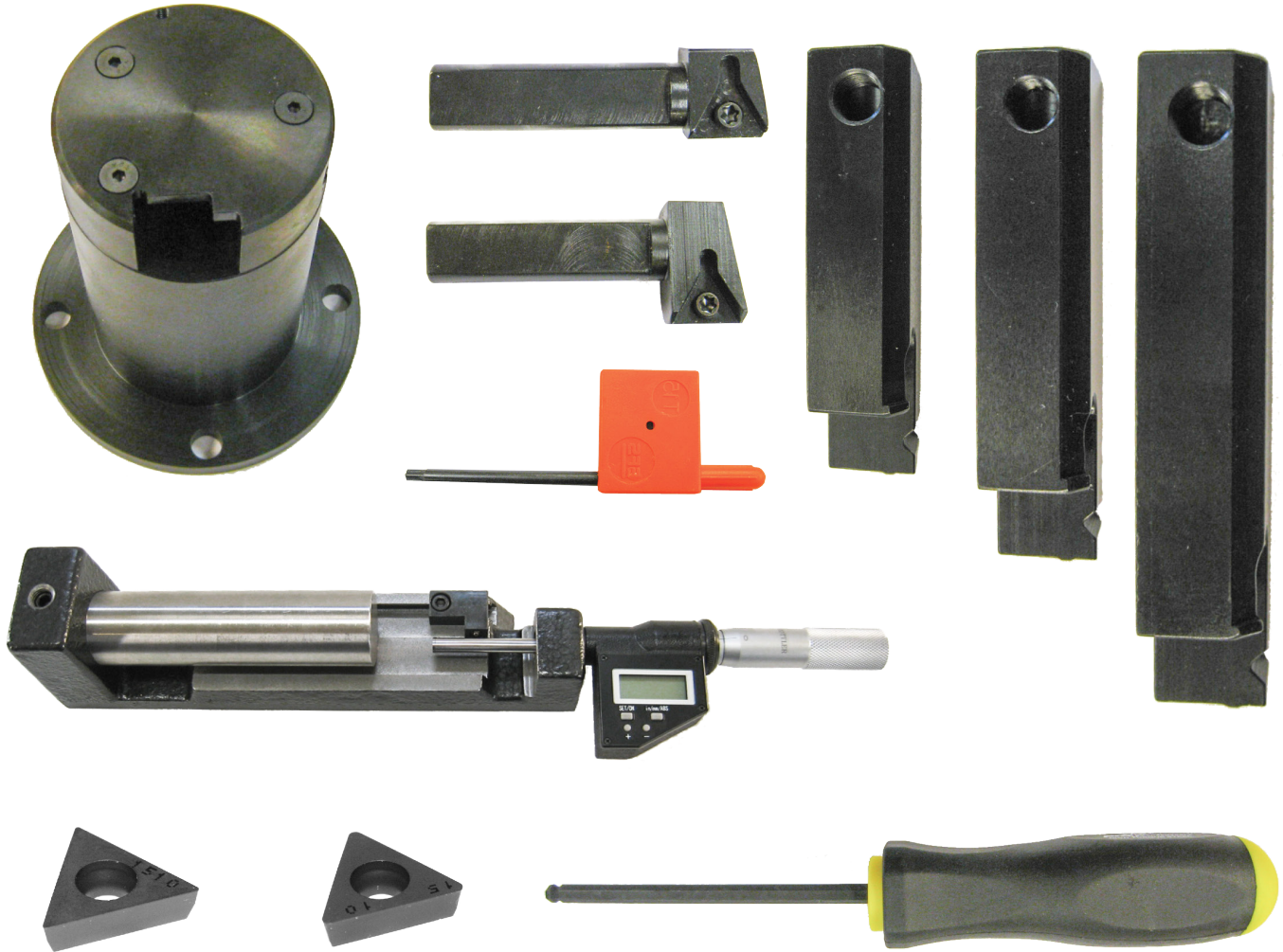
6519P Heavy Duty Line Bore Cutterhead Package

6.0 - 8.50" (152.40 - 215.90mm) Diameter X 4.25" (108mm) Length Complete with Tooling and Digital Micrometer.
Minimum Distance Between Bearing Housings 8.94" (227mm)



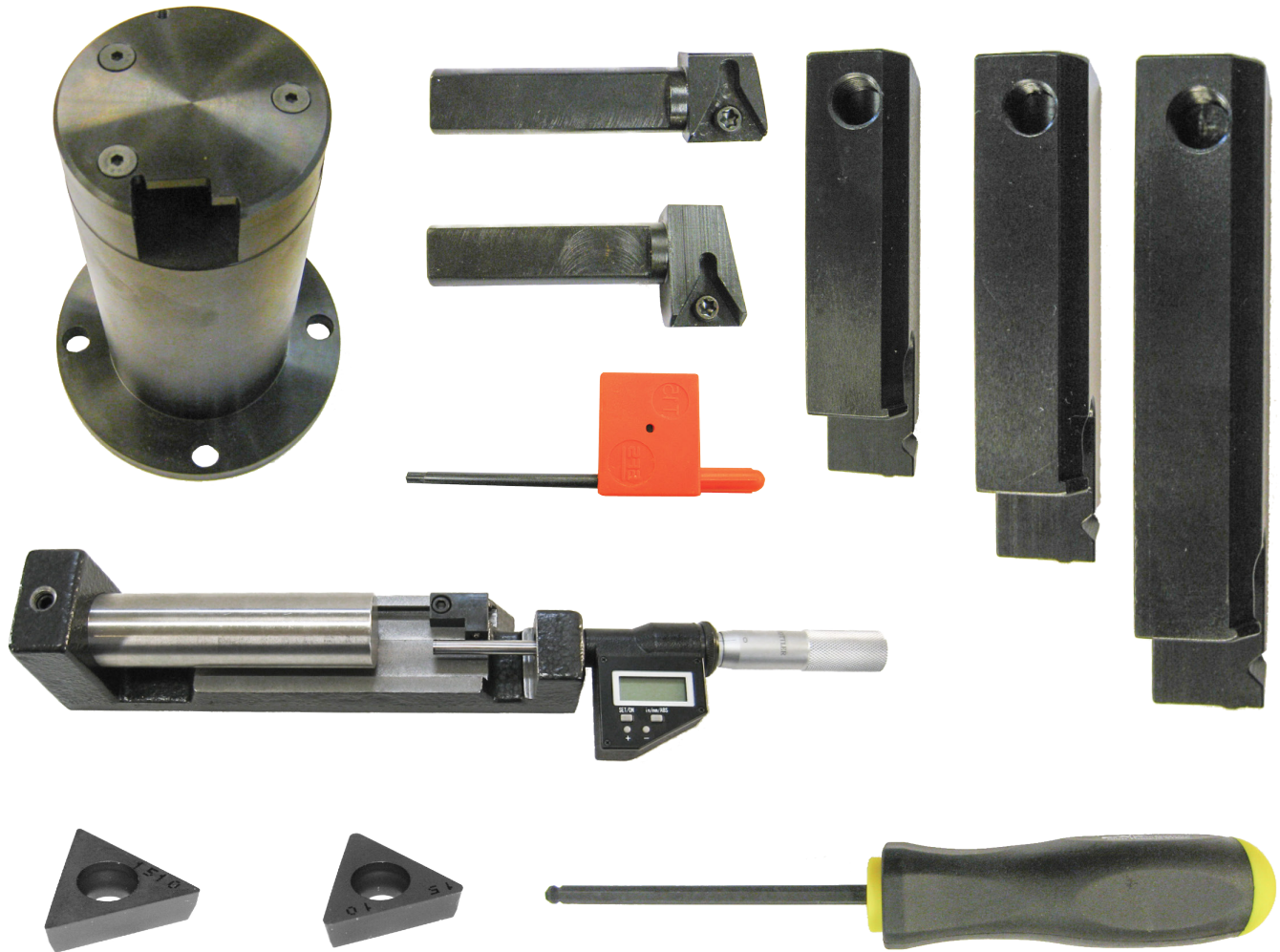
6519M Heavy Duty Line Bore Cutterhead Package

6.0 - 8.50" (152.40 - 215.90mm) Diameter X 5.10" (130mm) Length Complete with Tooling and Digital Micrometer.
Minimum Distance Between Bearing Housings 10.04" (255mm)



6519N Heavy Duty Line Bore Cutterhead Package

6.0 - 8.50" (152.40 - 215.90mm) Diameter X 6.0" (152mm) Length Complete with Tooling and Digital Micrometer. Minimum Distance Between Bearing Housings 10.94" (278mm)



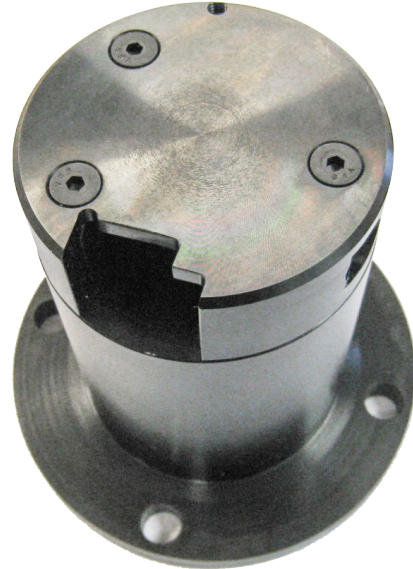
6519U Heavy Duty Line Bore Cutterhead Assembly

Without Tooling. 6.0 - 8.50" (152 - 216mm) Diameter X 3" (76mm) Length. Minimum Distance Between Bearing Housings 7.94" (202mm)



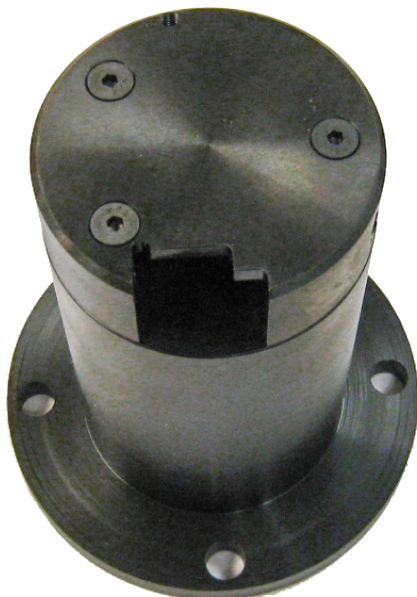
6519S Heavy Duty Line Bore Cutterhead Assembly

Without Tooling. 6.0 - 8.50" (152 - 216mm) Diameter X 4.25" (108mm) Length. Minimum Distance Between Bearing Housings 8.94" (227mm)



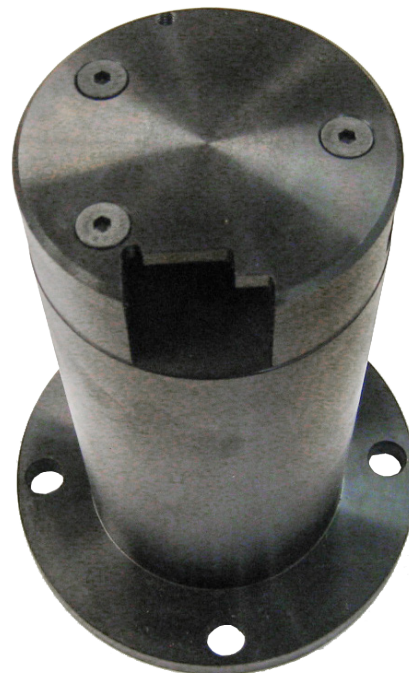
6519Q Heavy Duty Line Bore Cutterhead Assembly

Without Tooling. 6.0 - 8.50" (152 - 216mm) Diameter X 5.10" (130mm) Length. Minimum Distance Between Bearing Housings 10.04" (255mm)

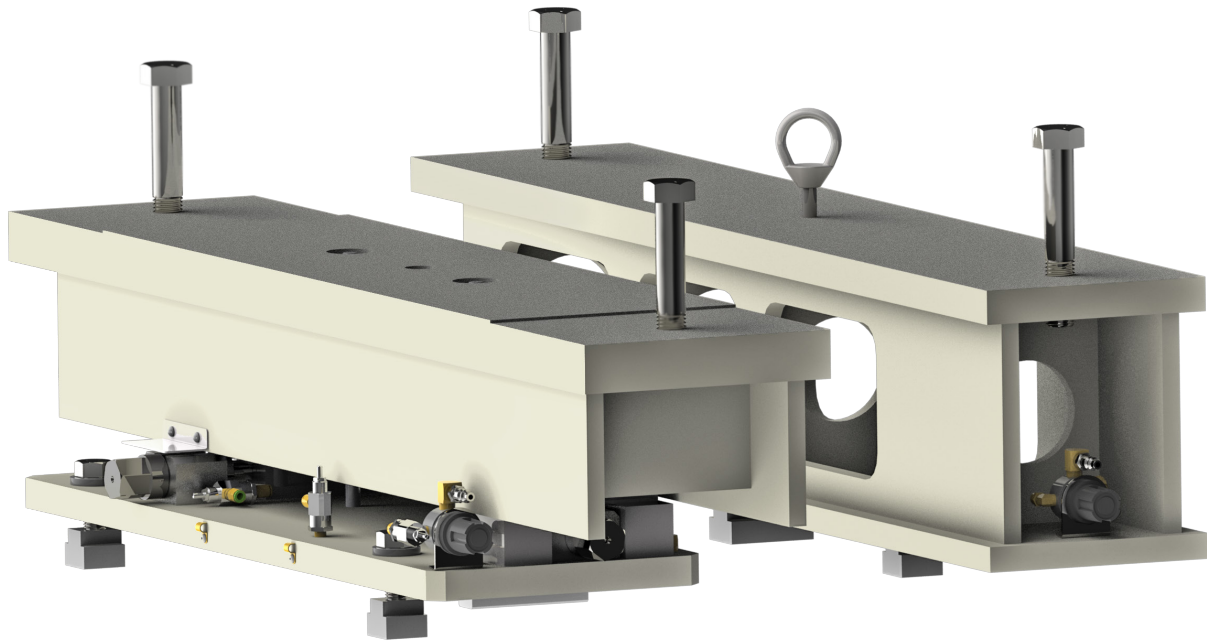


6519R Heavy Duty Line Bore Cutterhead Assembly

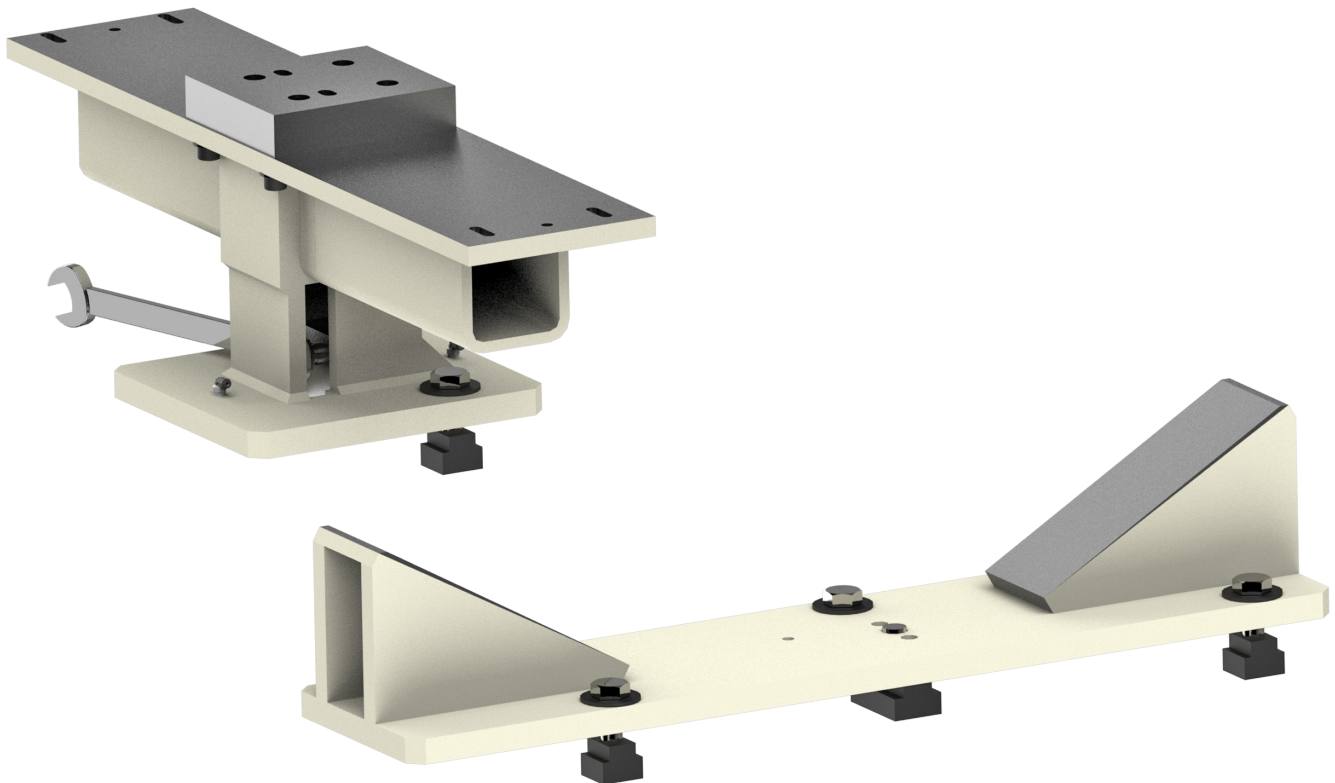
Without Tooling. 6.0 - 8.50" (152 - 216mm) Diameter X 6.0" (152mm) Length. Minimum Distance Between Bearing Housings 10.94" (278mm)



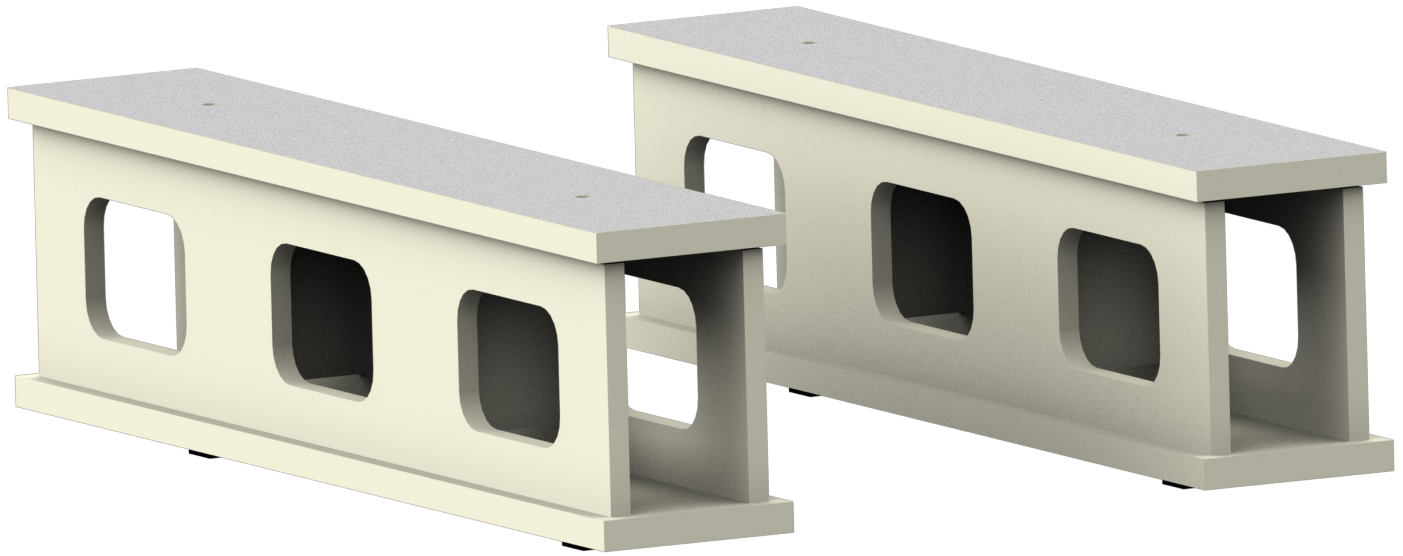
Extra Large Block Line Bore Fixturing
6846 White Superior 12 & 16 G825 Line Boring Fixture



6810 Waukesha 7042, 9390 and CAT 379, 398, 399 Line Boring Fixture



6815 White Superior 8G825 Line Boring Fixture



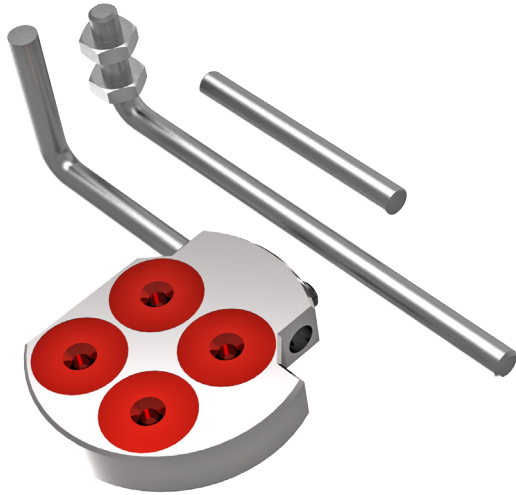
Set Up Indicators

502-12-7B Digital Runout Probe and Readout

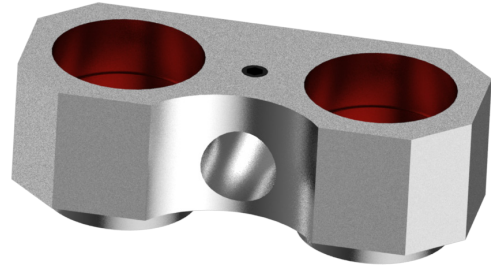
Including Magnetic Holder for Block Set Up and Manual Centering of Cylinder Bores and Main Line Bores



502-12-4 General Purpose Magnetic Indicator Holder
 (Requires #502-9-9A or J Indicator)



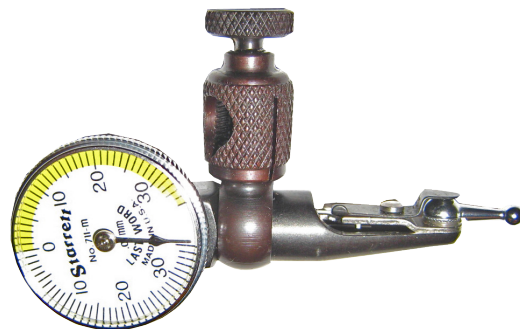
502-12-4A Magnetic Indicator Holder
 For 2 - 3" (50 - 75mm) Diameter (Requires 502-9-9A or J Indicator)



502-9-9A Mechanical Run Out Indicator
 General Purpose (.001" Inch Resolution)



502-9-9J Mechanical Run Out Indicator
 General Purpose (.01mm Metric Resolution)

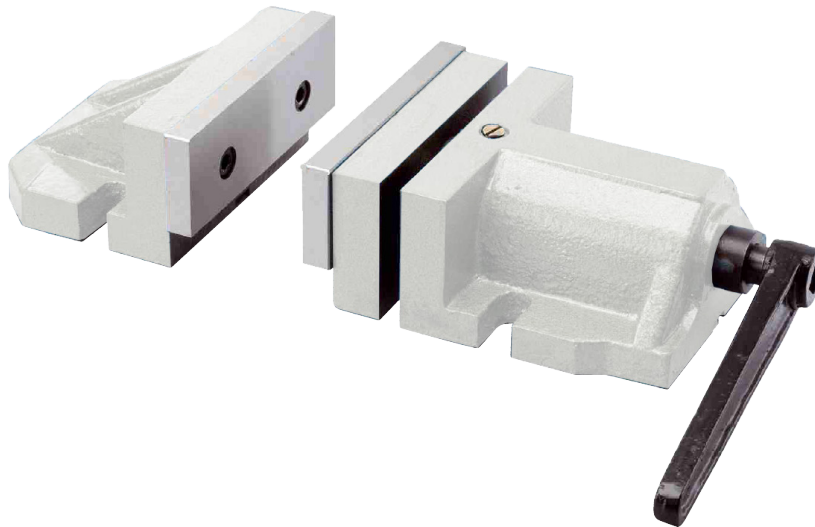


6514L Shell Mill 5" (127mm) Diameter

For surfacing main bearing cap register face in blocks in preparation for main line boring
F103/4/5/7/9

**7209N 2-piece vise**

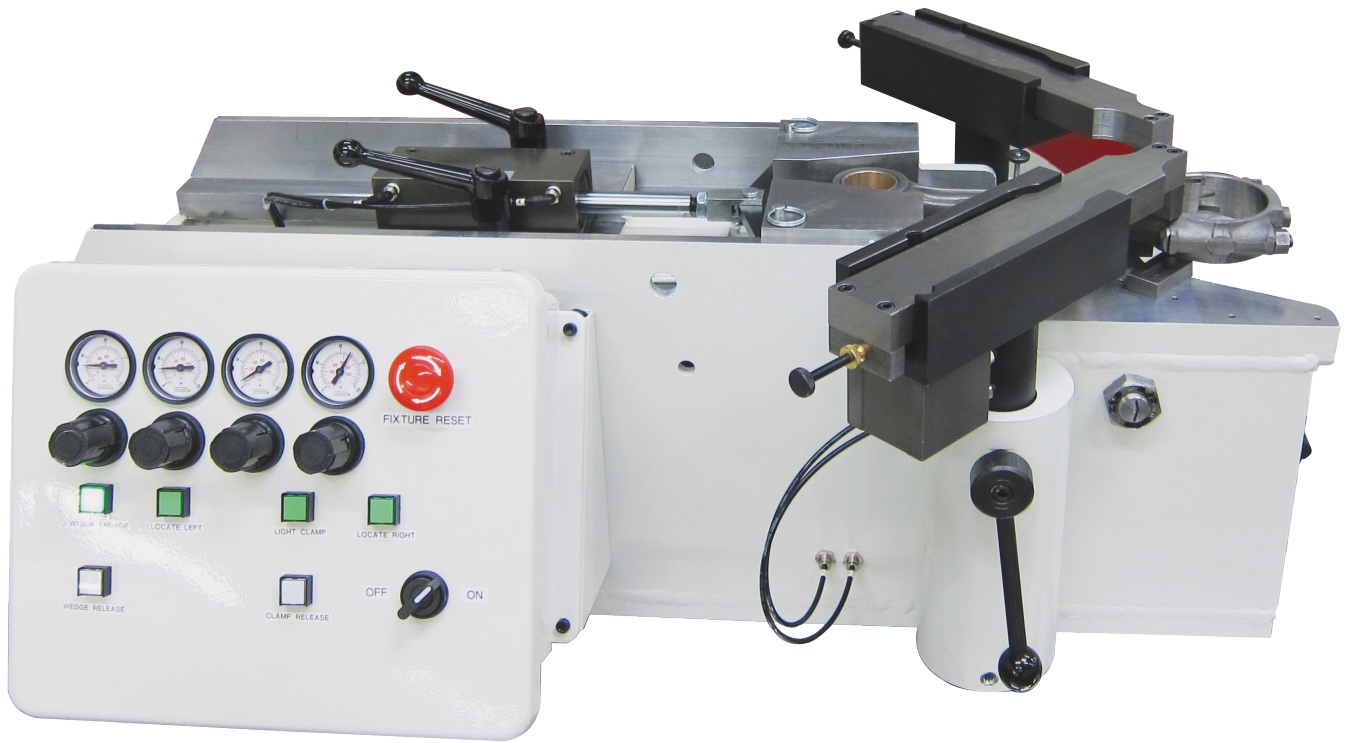
For surfacing main caps in preparation for main line boring. Also used for holding exhaust manifolds for surfacing.
Requires 7209M Leveling Table.



Connecting Rod Fixturing and Tooling

650-3-44R Rottler Precision Connecting Rod Fixturing System

Approximately 8 - 24" (203 - 610mm) center distance - requires (1) pair of 6370C



10118 Blind Hole Stub Cutterhead Package

1.5 - 4.2" (38 - 107mm) diameter x 6.5" (165mm) complete with tooling and Digital Micrometer
F107/9AH



10131 Blind Hole Stub Cutterhead Package

2.9 - 5.0" (74 - 152mm) Diameter X 9.7" (246mm) Length Complete with Tooling and Digital Micrometer
F107/9AH



RTCR322 Insert

Triangular positive rake, 3/8" IC 1/64" (.406mm) radius, for connecting rod steel cutting only



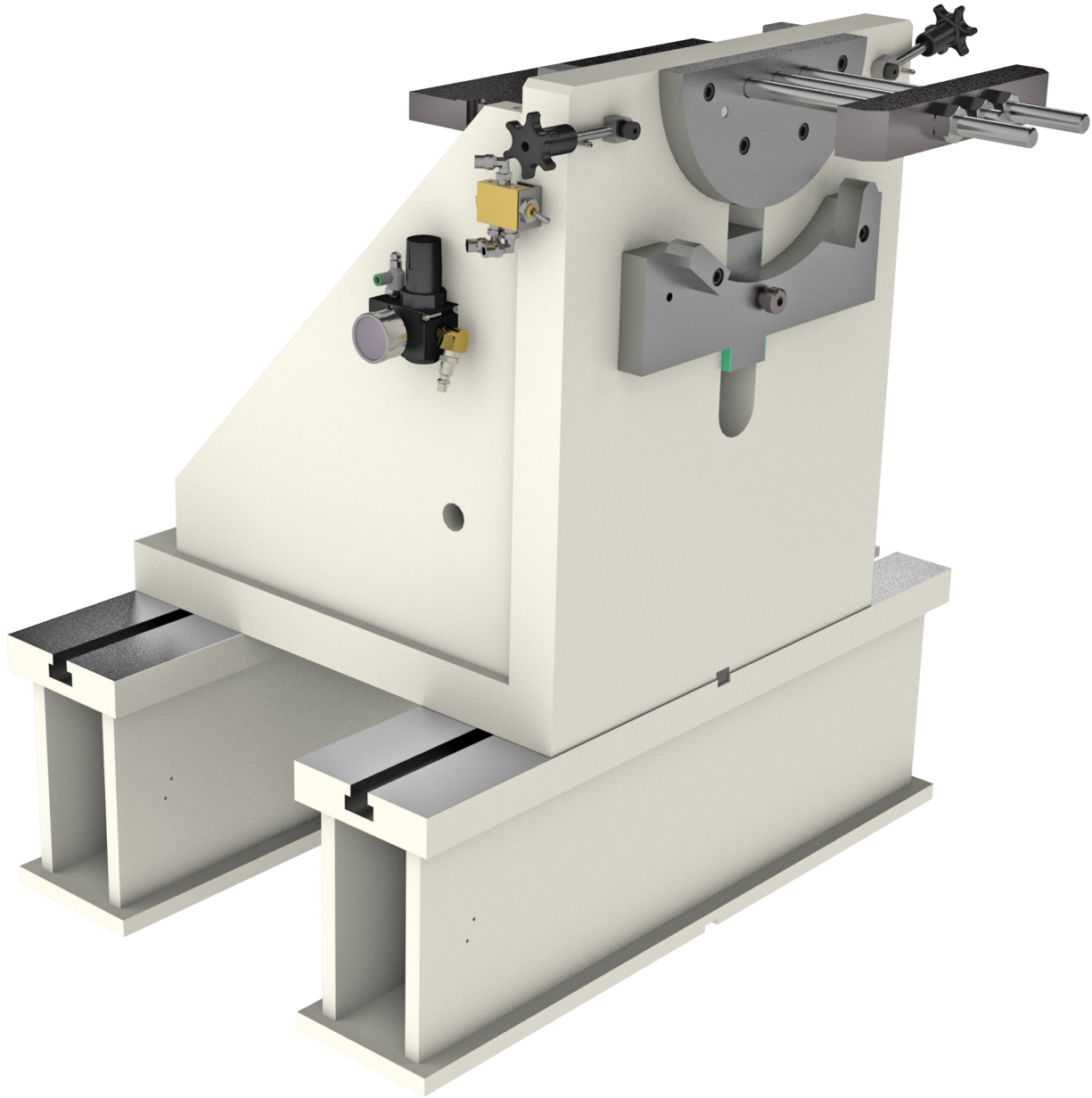
Fixturing & Tooling for Machining Large Diesel & Compressor Connecting Rods

650-3-64 Rottler Precision Connecting Rod Fixturing System

Special Version to handle natural gas compressor connecting rods and large engine connecting rods such as Waukesha 7042 and White Superior 825 - requires (1) pair of 6370C



650-3-66 Rottler Precision Compressor Conrod Cap Milling Fixture Assembly



6516H Blind Hole Stub Cutterhead Package

1.5 - 4.2" (38 - 107mm) diameter x 6.5" (165mm) complete with tooling and Digital Micrometer
F103/4/5/7/9



6519Z Blind Hole Stub Cutterhead Package

2.9 - 5.0" (74 - 152mm) Diameter X 9.7" (246mm) Length Complete With Tooling and Digital Micrometer
 F103/4/5/7/9



RTCR322 Insert

Triangular positive rake, 3/8" IC 1/64" (.406mm) radius, for connecting rod steel cutting only



6855C Thrust Facing Tooling Package For Main Line Bore



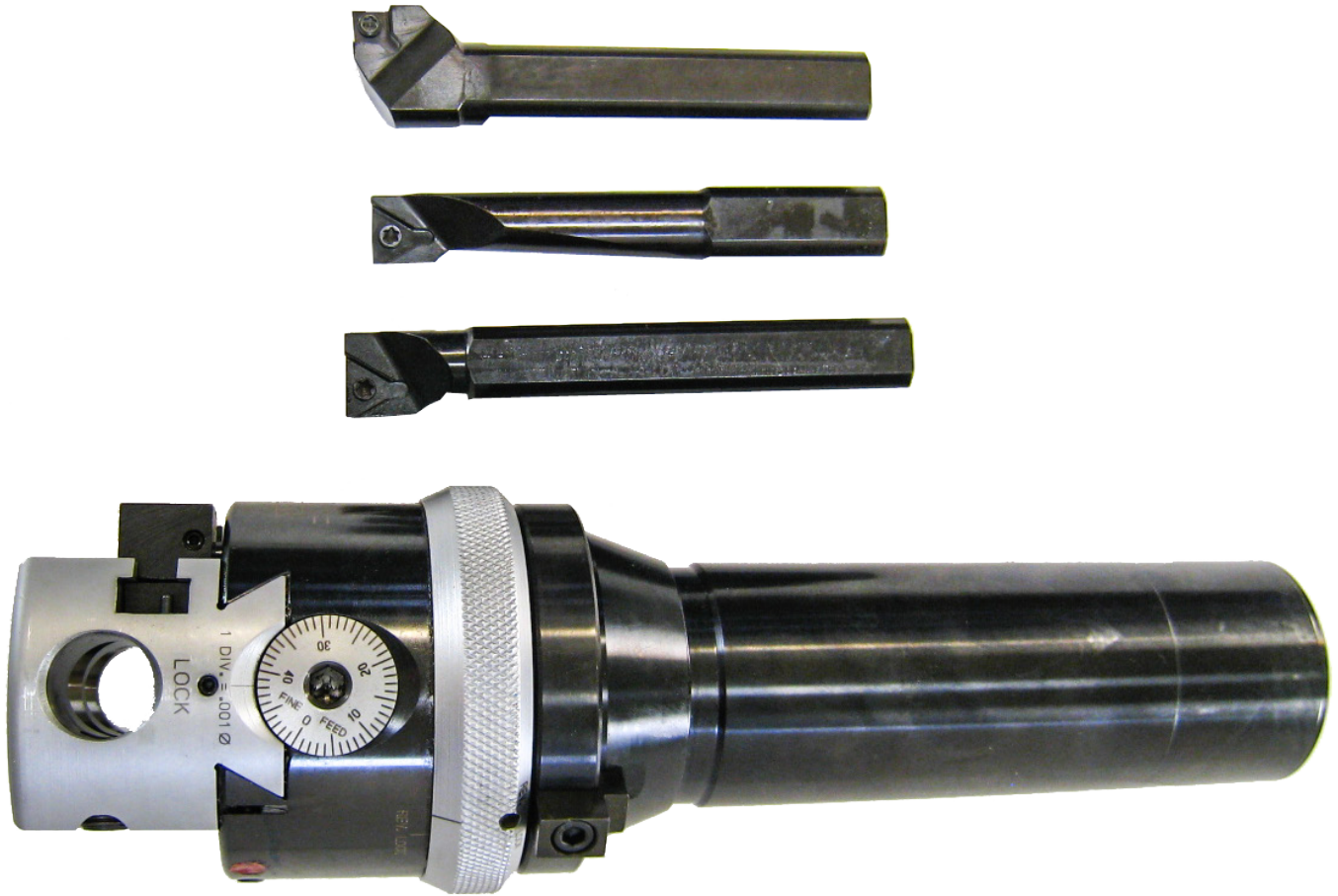
6757Z Cross Feeding Head Assembly For Wide Counterbores and Chamfers including spindle adaptor F103/4/5/7/9



6835 Small Precision Adjustable Boring Head Package

Including Spindle Adapter and Digital Indicator for general purpose boring and facing work, boring range 3/4 - 3" (20-75mm) and facing range 4.9 - 7.0" (125 - 180mm)

F103/4/5/7/9



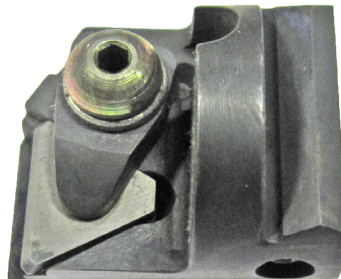
6648 Caterpillar 3400 Series Tappet Bore Repair Kit Assembly
F103/4/5/7/9



6648B Boring Bar Caterpillar Tappet Bore Repair Kit



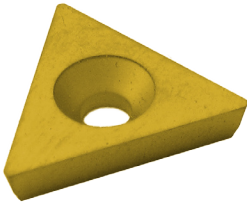
6648C Boring Bar Nose
(4 required)



6648D Alignment Jig



6301F Triangle Insert
1/64" Radius, Gold Coated



650-2-34D Indicator
Digital inch/metric reading



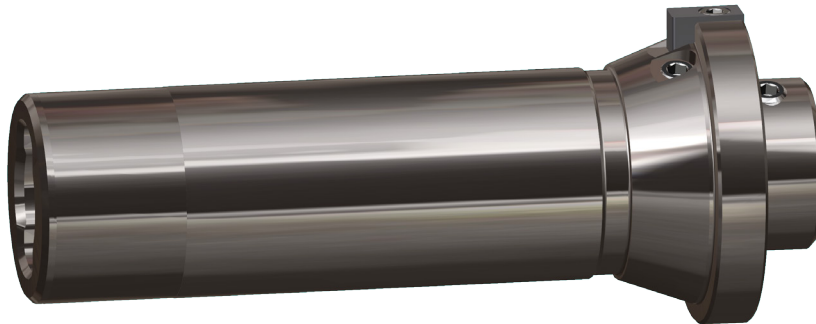
6648F Magnetic Base



Spindle Adapters for Mounting Universal Tooling

6648M 1" (25.4mm) Spindle Adapter

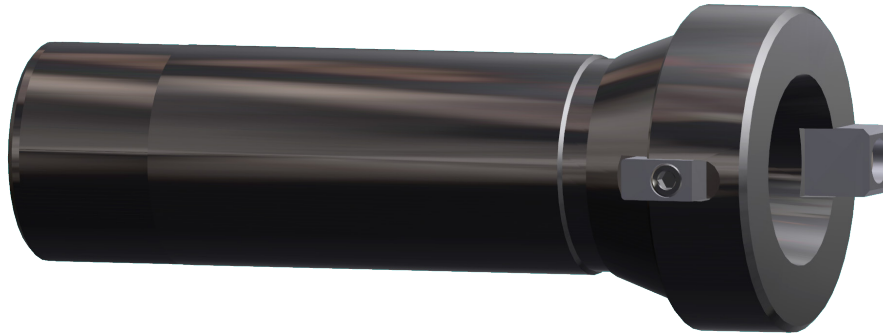
For driving 1" (25.4mm) diameter shank tooling



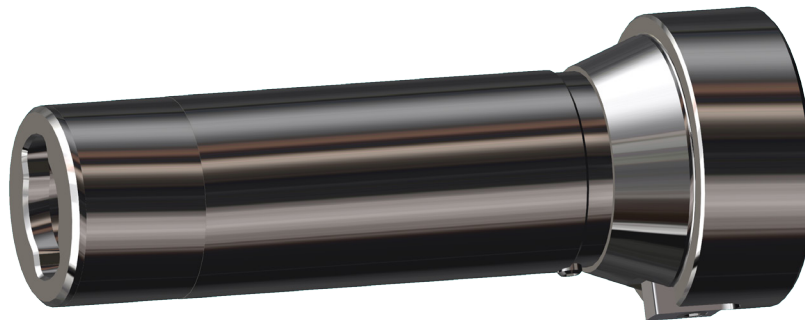
6170C Adapter, Blank



6170J #40 Taper Adapter Assembly



6170K R8 Adaptor Assembly



6514Q #5 Morse Taper Adapter Assembly



Tool Changing and Storage System for Heavy Tooling

6875 Tool Changing and Storage System

For heavy tooling such as Milling Heads, Flycutters and Right Angle Drives



Equipment for Machining Cummins QSK 45 & 60 Block

650-2-40H 2" (50mm) Shell Mill Assembly

With Adapter for machining side walls requires 6856 Right Angle Drive



6515 Extended Spindle Adapter with 2.5" (63mm) Shell Mill

For machining 'dog bone' and oil injector surfaces

F103/4/5/7/9

