



F100 SERIES



OPTIONAL EQUIPMENT CATALOG

MANUFACTURED BY:

ROTTLER MANUFACTURING LLC
8029 South 200th Street
Kent Washington 98032
USA

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

Contents

Spare Parts for Renishaw Wireless Probe 1

6648U Spare Battery.....1

650-3-59C 50mm long X 6mm diameter stylus1

650-3-59D 100mm long X 6mm diameter stylus1

650-3-59E 20mm long X 2mm diameter stylus.....1

650-3-59K 50mm extension for 50mm & 100mm styli.....1

6648T 10mm stylus extension.....1

6648Q 17.5mm long X 6mm diameter stylus.....1

10118 Blind Hole Stub Cutterhead 2

10108B Blind Hole Stub Cutter Head..... 3

6256Q Blind Hole Cutterhead 4

10107B Blind Hole Cutterhead 5

10104B Blind Hole Cutterhead 6

10105B Blind Hole Cutterhead 7

10116 Extended Blind Hole Cutterhead..... 8

Tooling for Boring Cutterheads 9

6593S Cartridge Assembly9

6594 Cartridge Tool Holder9

6260M Cartridge Assembly.....9

6593C Cartridge Tool Holder9

6593D Cartridge Tool Holder9

6598K Cartridge.....9

6598M Cartridge.....9

6599 Cartridge.....9

6599D Cartridge9

6747K Cartridge Assembly9

6747P Cartridge Assembly10

6747G Cartridge Assembly.....10

6747F Cartridge Assembly10

6747M Cartridge Assembly.....10



6747H Cartridge Assembly 10

6593L Cartridge Assembly..... 10

6593M Cartridge Assembly..... 10

6593N Cartridge Assembly 10

6593P Cartridge Assembly 10

6260L Cartridge 10

6260W Cartridge 11

RT322 Insert..... 11

RT321 Insert..... 11

RT322F Insert..... 11

RT321F Insert..... 11

RTS322 Insert..... 11

RTS321 Insert..... 11

RS322 Insert..... 11

6301E Insert 11

511-29-12C Screw 11

511-29-12D Torque Key 11

6302A Chip Breaker..... 11

6301 Clamp Finger..... 11

6301A Differential Screw..... 11

Brazed Tool Bits for Boring Cutterheads 12

6260C Tool Bit..... 12

6260D Tool Bit..... 12

6260V Tool Bit..... 12

6260P Tool Bit..... 12

6260R Tool Bit..... 12

6513D Tool Bit..... 12

6513E Tool Bit..... 12

6513J Tool Bit 12

6513L Tool Bit 12

6513N Tool Bit..... 12

6513Q Tool Bit..... 12

6532 Tool Bit 12

6532A Tool Bit..... 12

6532B Tool Bit..... 12



6532G Tool Bit..... 12

Surfacing Cutterheads 13

10119 10” (250mm) diameter Surfacing Cutterhead Assembly..... 13

10106C 4” (360mm) diameter Surfacing Cutterhead Assembly 13

10115 18” (460mm) diameter Surfacing Cutterhead Assembly..... 14

10106B 22” (560mm) diameter Surfacing Cutterhead Assembly..... 14

Tooling for Surfacing Cutterheads 15

7202W Tool holder Assembly 15

7202V Tool holder Assembly 15

7202U Tool holder Assembly..... 15

6303K Coated Carbide Insert..... 16

6303M PCD Round Insert..... 16

6303B CBN Round Insert..... 16

6303R CBN Round Insert..... 16

6303S CBN Round Insert 16

6301J CBN Square Insert..... 16

6303Q CBN Round Insert..... 16

6303P PCD Round Insert 16

6303U CBN Round Insert..... 16

6303V CBN Insert..... 16

Special Tooling for Block End Machining 17

6779H Adaptor 17

6779L 10” (250mm) Diameter Surfacing Cutterhead Assembly 17

6779M 14” (360mm) Diameter Surfacing Cutterhead Assembly 18

6779N Crossfeed Head Assembly..... 18

Main Line Bore Equipment 19

6753J Straight 90 Degree Right Angle Drive Assembly..... 19

6856 Straight 90 Degree Right Angle Drive Assembly..... 20

6753L Special Belt Drive 90 Degree Right Angle Drive Assembly..... 21

650-2-39B Cutterhead Package Line Boring..... 22

650-2-39C Cutterhead Package Line Boring..... 23

650-2-39A Cutterhead Package Line Boring..... 24

Tooling for proceeding Cutterheads..... 25

6801B Tool holder Assembly..... 25

6801C Tool holder Assembly..... 25

6801D Tool holder Assembly..... 25

6801E Tool holder Assembly	25
6801F Tool holder Assembly	25
6801G Tool holder Assembly.....	25
6801H Tool holder Assembly.....	25
6801J Tool holder Assembly	25
900-2-19 Universal Micrometer Assembly.....	26
Extension Spacers for Proceeding Right Angle Drive Assemblies	26
650-2-43 Spacer, Extension 1.05" (25.725mm).....	26
650-2-43A Spacer, Extension 1.50" (38.10mm)	26
650-2-43B Spacer, Extension .700" (17.78mm).....	27
650-2-43D Spacer, Extension 1.215" (30.86mm).....	27
650-2-43E Spacer, Extension .41" (10.41mm)	27
Inserts for Proceeding Line Bore Cutterhead Tool holders	28
RT211 Insert	28
RT212 Insert.....	28
RT321 Insert.....	28
RT322 Insert.....	28
RT321F Insert.....	28
RT322F Insert.....	28
6301K Insert	28
Special Right Angle Drive for Line Boring Camshaft Bores	29
650-2-46Y Special Right Angle Drive using Cutterhead 650-2-39B.....	29
650-2-46 Special Right Angle Drive	30
650-2-47C Dedicated Cutterhead for 650-2-46	31
650-2-47 Dedicated Cutterhead for 650-2-46.....	31
650-2-47A Dedicated Cutterhead for 650-2-46	31
650-2-47B Dedicated Cutterhead for 650-2-46	31
Special Dedicated Diameter Cutterheads with Micro Adjust Cartridges for Heavy Duty Straight Right Angle Drive 6856	32
650-2-47E Line Bore Cutterhead Body Assembly	32
650-2-47G Line Bore Cutterhead Body Assembly	32
650-2-47J Line Bore Cutterhead Body Assembly.....	32
650-2-47L Line Bore Cutterhead Body Assembly.....	32
Special Cutterhead for Horizontal Boring with Right Angle Drives.....	33
650-2-39J Cutterhead Assembly	33
Line Bore Fixturing for Small to Large Blocks and Heads	34
650-3-56 Line Bore Pivot Table Fixture.....	34

6821 Adjustable Universal Line Boring Fixture Assembly	35
6843 90 Degree V Block Supports	36
6823E 90 Degree V Block Supports for Large 90 Degree V Blocks	37
6789L 113 Degree V Block Supports	37
6789N 116 Degree V Block Supports for Detroit Diesel V71 & V92.....	38
6789E 115 Degree V Block Supports for CAT 3400	38
6823B 120 Degree V Block Supports for Large 120 Degree V Blocks.....	39
6789K 130 Degree V Block Supports for Komatsu 140.....	39
6789Q 140 Degree V Block Supports for Cummins 1710	40
6789T 110 Degree V Block Supports for Jenbacher 3.....	40
Line Bore Tooling for Extra Large Blocks	41
6898 Extra Heavy Duty 90 Degree Right Angle Drive.....	41
10114 Heavy Duty Offset 90 degree Right Angle Drive Assembly	42
6519V Heavy Duty Line Bore Cutterhead Assembly	43
6519P Heavy Duty Line Bore Cutterhead Assembly	44
6519M Heavy Duty Line Bore Cutterhead Assembly	45
6519N Heavy Duty Line Bore Cutterhead Assembly	46
6519U Heavy Duty Line Bore Cutterhead Assembly	47
6519S Heavy Duty Line Bore Cutterhead Assembly	47
6519Q Heavy Duty Line Bore Cutterhead Assembly.....	47
6519R Heavy Duty Line Bore Cutterhead Assembly.....	47
Extra Large Block Line Bore Fixturing.....	48
6846 White Superior 12 & 16 G825 Line Boring Fixture.....	48
6810 Waukesha 7042, 9390 and CAT 379, 398, 399 Line Boring Fixture	48
6815 White Superior 8G825 Line Boring Fixture	49
Set Up Indicators	49
502-12-7B Digital Runout Probe and Readout.....	49
502-12-4 General Purpose Magnetic Indicator Holder	50
502-12-4A Magnetic Indicator Holder	50
502-9-9A Mechanical Run Out Indicator	50
502-9-9J Mechanical Run Out Indicator	50
6514L Shell Mill 5" (127mm) Diameter	51
7209N 2-piece vise.....	51
Connecting Rod Fixturing and Tooling	52
650-3-44R Rottler Precision Connecting Rod Fixturing System.....	52
10118 Blind Hole Stub Cutterhead.....	53



10131 Blind Hole Stub Cutterhead..... 54

RTCR322 Insert..... 54

Fixturing & Tooling for Machining Large Diesel & Compressor Connecting Rods
..... 55

650-3-64 Rottler Precision Connecting Rod Fixturing System 55

650-3-66 Rottler Precision Compressor Conrod Cap Milling Fixture Assembly 56

6516H Blind Hole Stub Cutterhead 57

6519Z Blind Hole Stub Cutterhead..... 58

RTCR322 Insert..... 58

6855C Thrust Facing Tooling Package For Main Line Bore 59

6757Z Cross Feeding Head Assembly..... 59

6835 Small Precision Adjustable Boring Head 60

6648 Caterpillar 3400 Series Tappet Bore Repair Kit Assembly 61

Spindle Adapters for Mounting Universal Tooling 62

6648M 1” (25.4mm) Spindle Adapter 62

6170C Adapter, Blank..... 62

6170J #40 Taper Adapter Assembly..... 62

6170K R8 Adaptor Assembly..... 63

6514Q #5 Morse Taper Adapter Assembly 63

Tool Changing and Storage System for Heavy Tooling..... 64

6875 Tool Changing and Storage System..... 64

Equipment for Machining Cummins QSK 45 & 60 Block..... 65

650-2-40H 2” (50mm) Shell Mill Assembly 65

6515 Extended Spindle Adapter with 2.5” (63mm) Shell Mill 66

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> 	

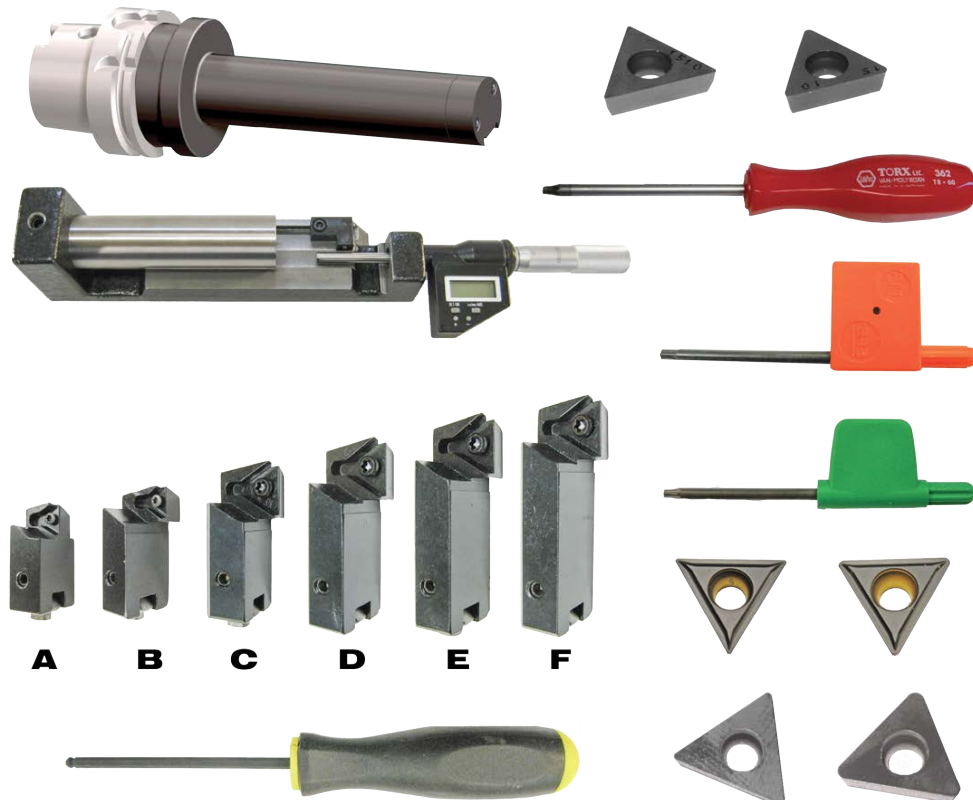
10118 Blind Hole Stub Cutterhead

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



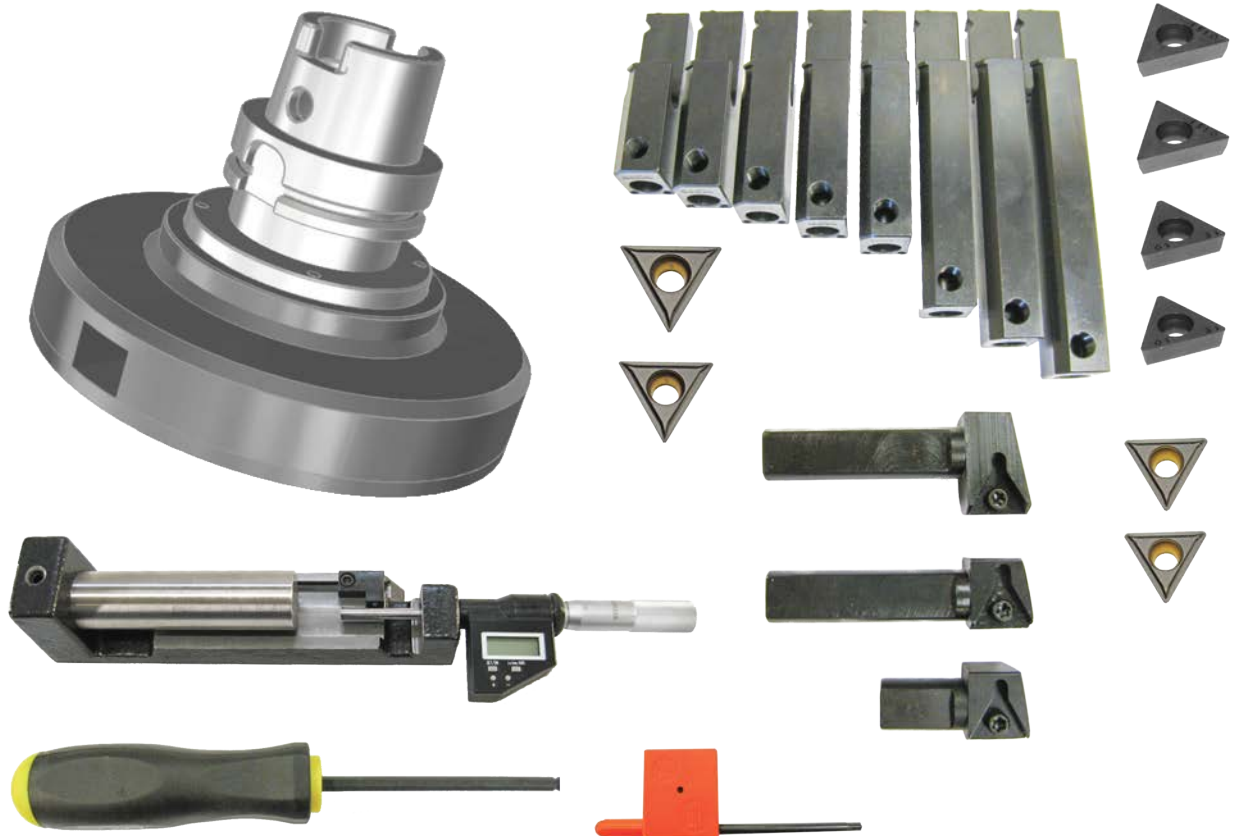
10107B Blind Hole Cutterhead

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

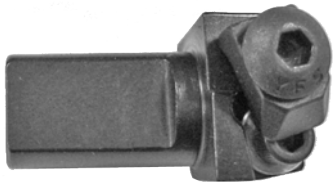
6593S Cartridge Assembly
Circular interpolation counterbore facing, 12-degree relief, 3/8" IC, Positive Rake.



6594 Cartridge Tool Holder
Square Insert Negative Rake Range 2.90 - 3.40" (74 - 86mm) for boring



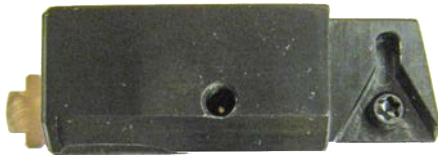
6260M Cartridge Assembly
Indexable Insert 13/16" (20.65mm) for Square Negative Rake Inserts for boring



6593C Cartridge Tool Holder
Triangular Insert Positive Rake. Range 2.90 - 3.40" (74 - 86mm)



6593D Cartridge Tool Holder
Triangular Insert Positive Rake. Range 3.4 - 3.90" (86 - 99mm)



6598K Cartridge
Triangular, Positive Rake, 2-15/32" (62.71mm) Long, for Counter Boring & sleeving



6598M Cartridge
Triangular, Positive. Rake, 1-3/8" (34.925mm) Long, for Counter Boring & sleeving



6599 Cartridge
Triangular, Zero Rake, 1.88" (47.75mm) Long, for Steel Cutting, requires RTS inserts



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



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. 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> 

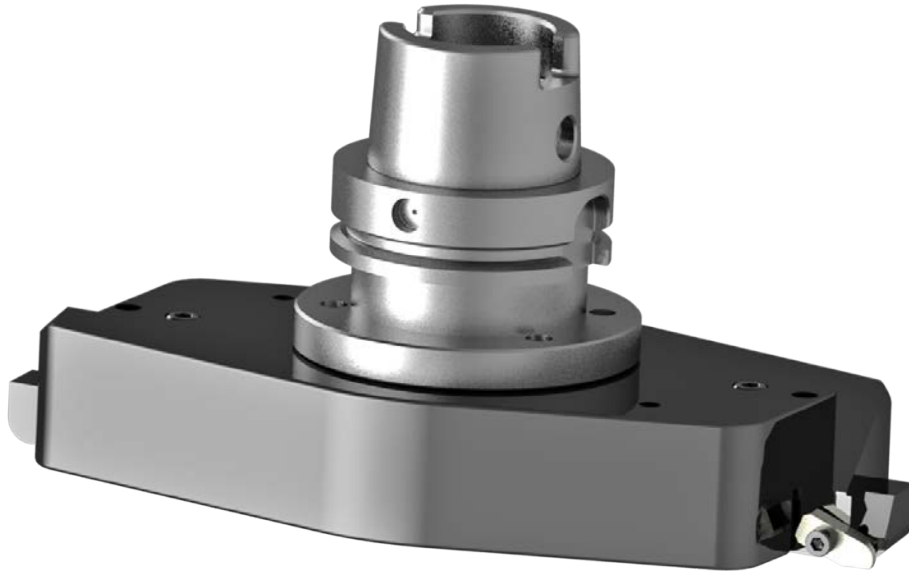
Brazed Tool Bits for Boring Cutterheads

<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

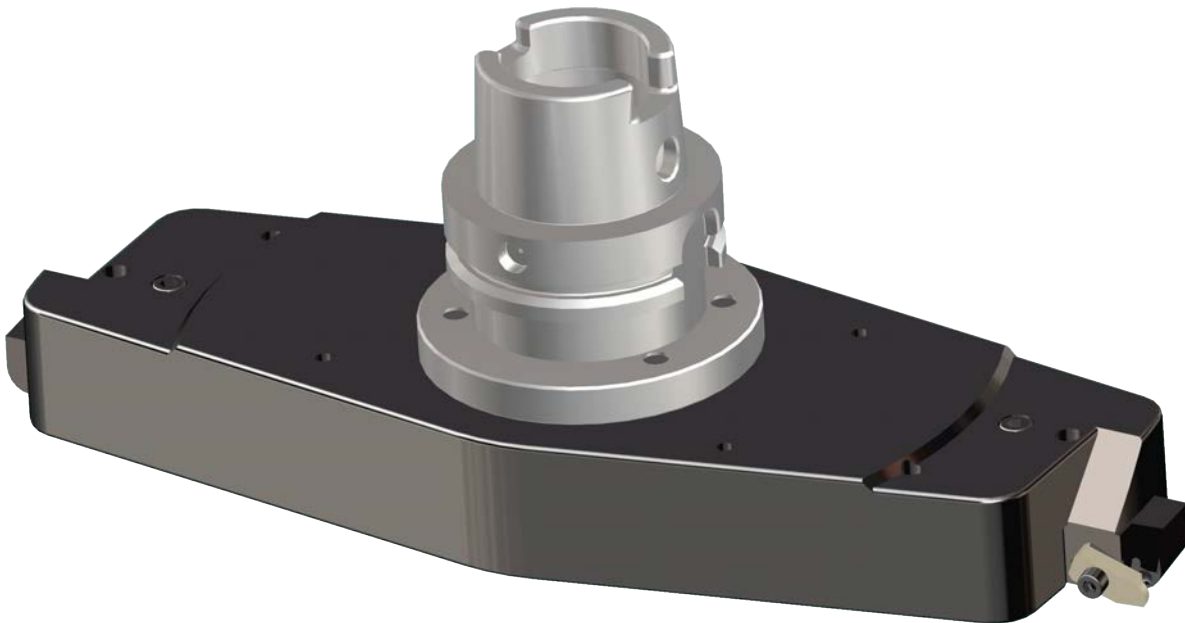
10119 10" (250mm) diameter Surfacing Cutterhead Assembly

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

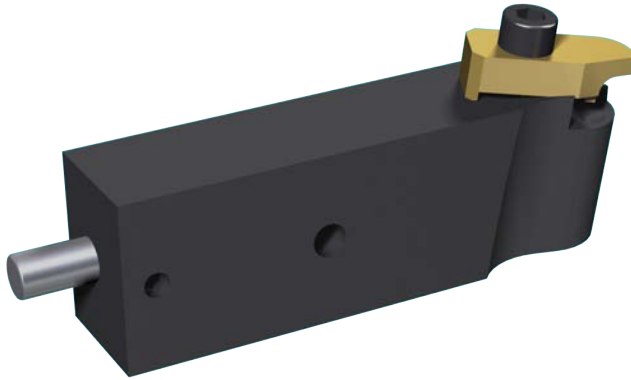
Complete with tooling
F107/9AH



Tooling for Surfacing Cutterheads

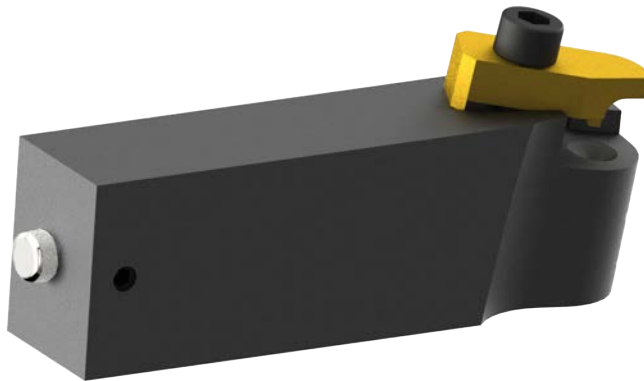
7202W Tool holder Assembly

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



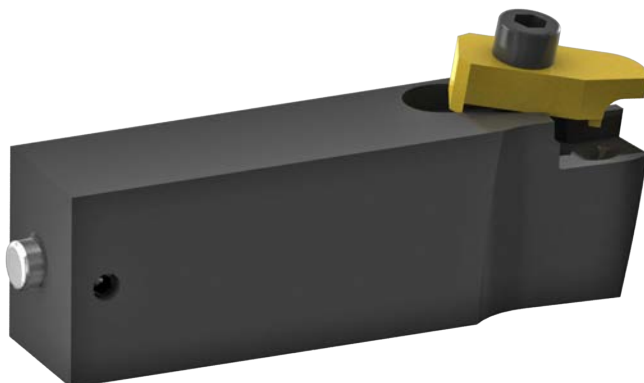
7202V Tool holder Assembly

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

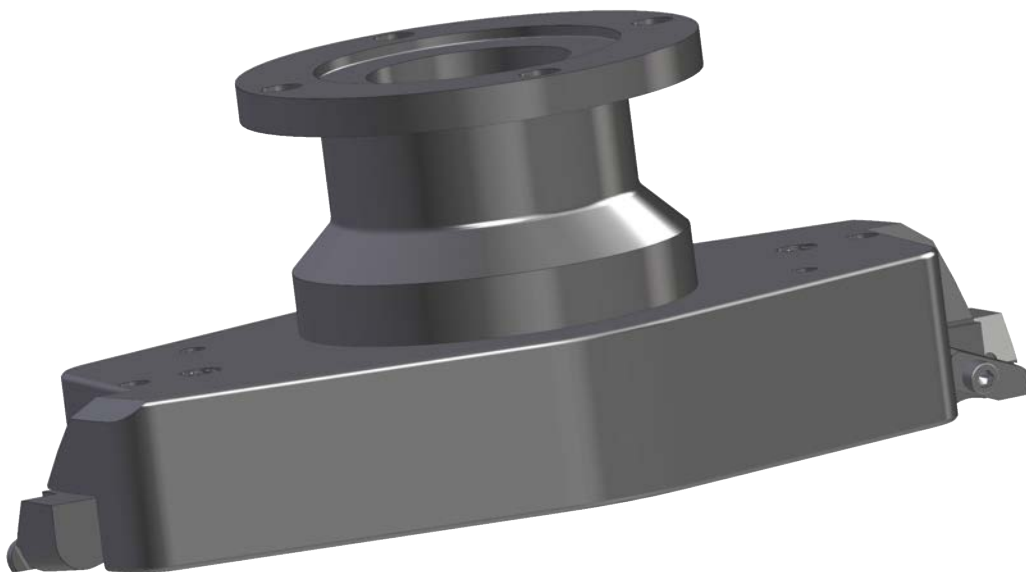
6779H Adaptor

For 40 Taper Tooling such as 6648K Collet Kit



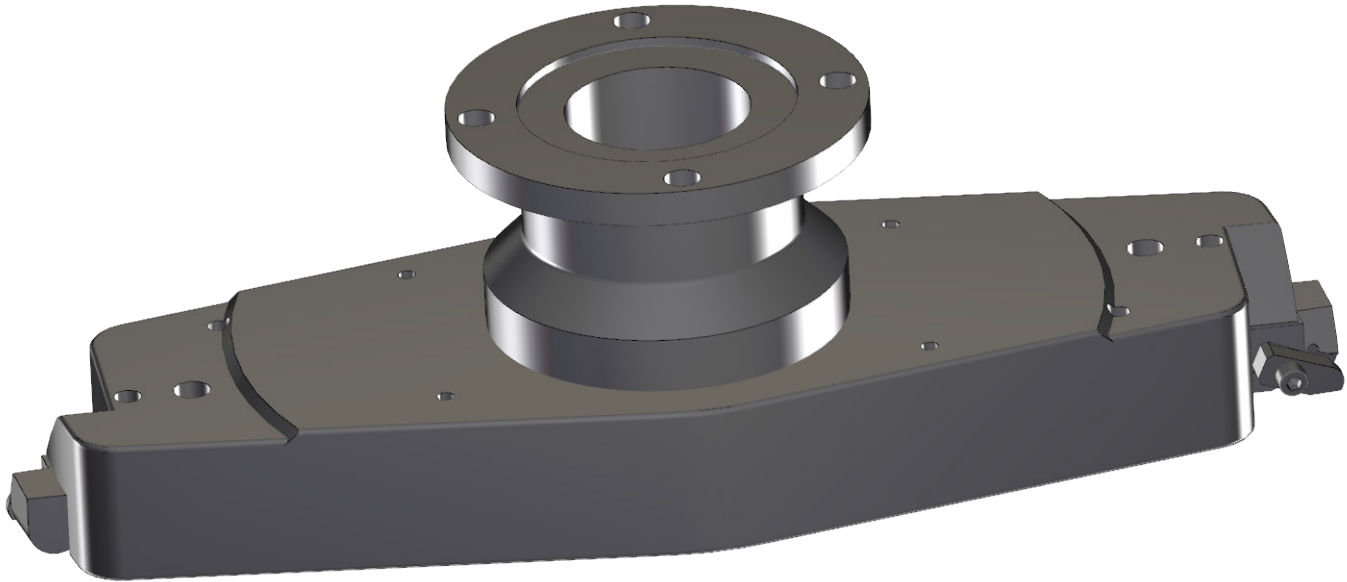
6779L 10" (250mm) Diameter Surfacing Cutterhead Assembly

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



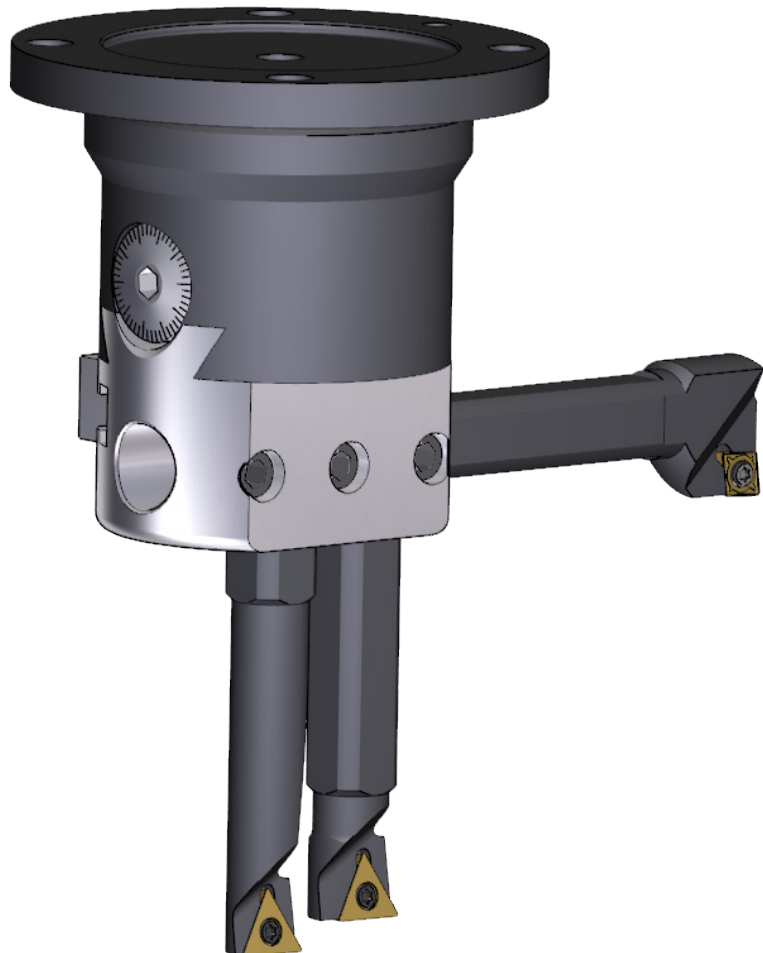
6779M 14" (360mm) Diameter Surfacing Cutterhead Assembly

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.

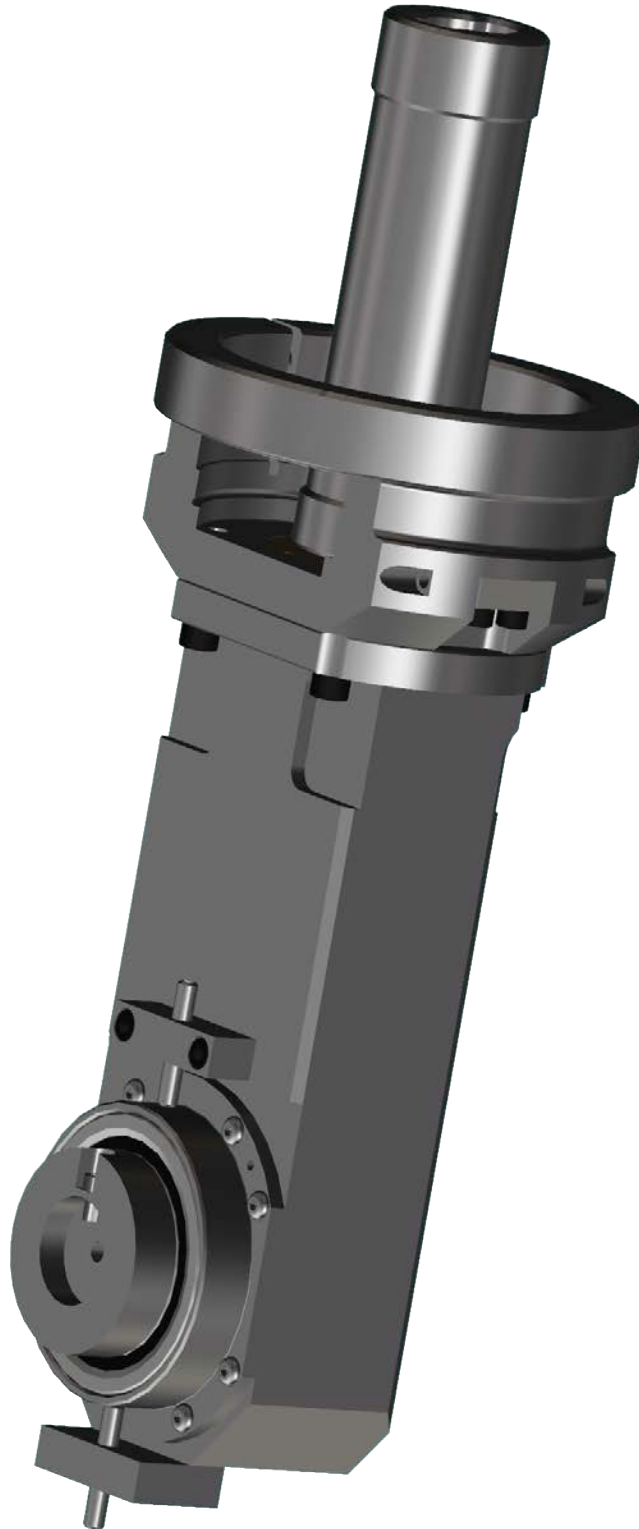
Note: Cutterheads are not included with Right Angle Drive and must be ordered separately
F103/4/5/7/9



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



650-2-39B Cutterhead Package Line Boring

1.9 - 4.0" (48.26 - 101.60mm) diameter complete with tooling and Digital Micrometer. When used with 6753L Drive, minimum distance between bearing housings 2.69" (68.3mm)

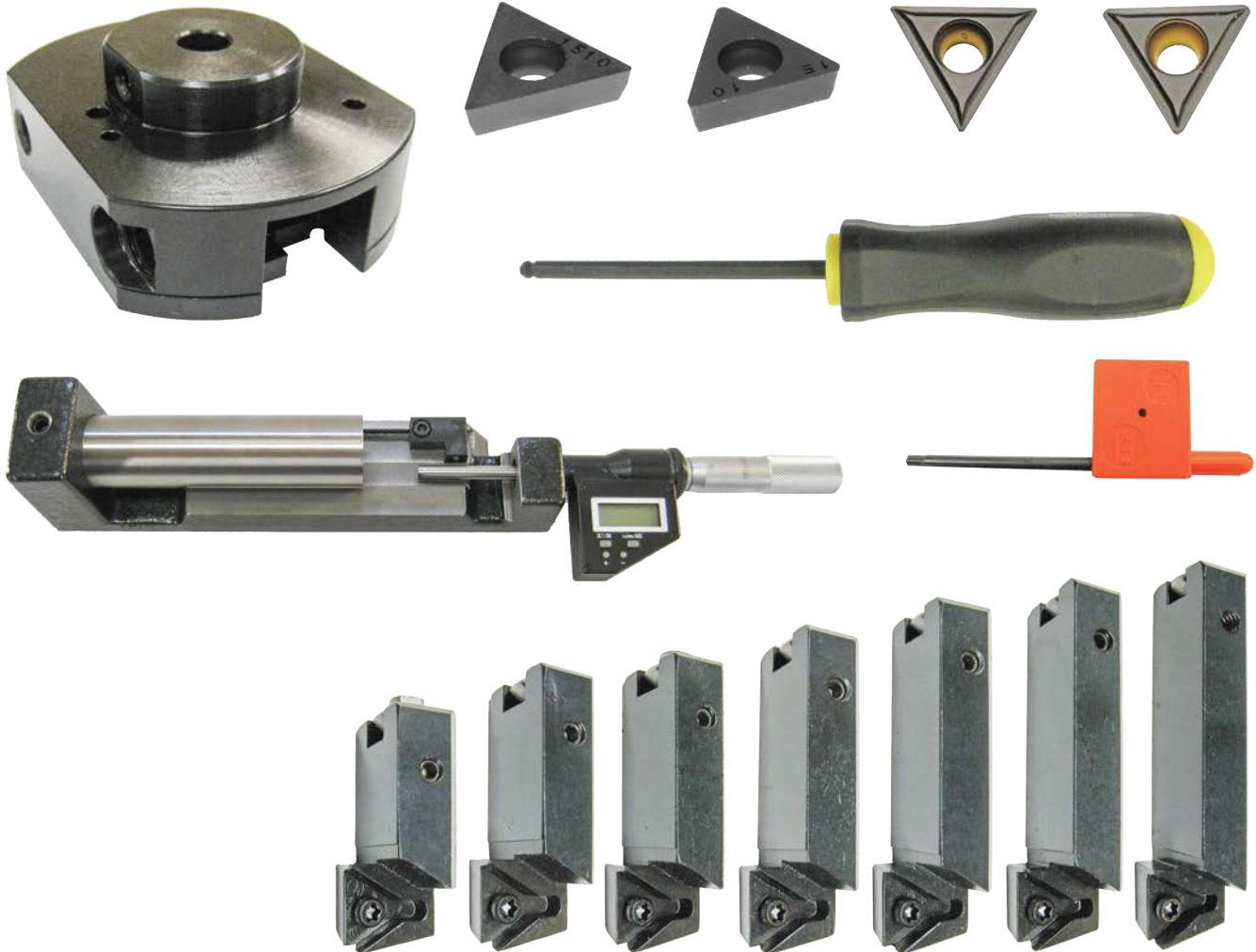
Note: Length of Bores can be increased with extension spacers. The addition of extension spacers will increase the minimum distance between bearing housings by the length of the Spacer. Allow for some clearance either side of the assembly for safety while

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.



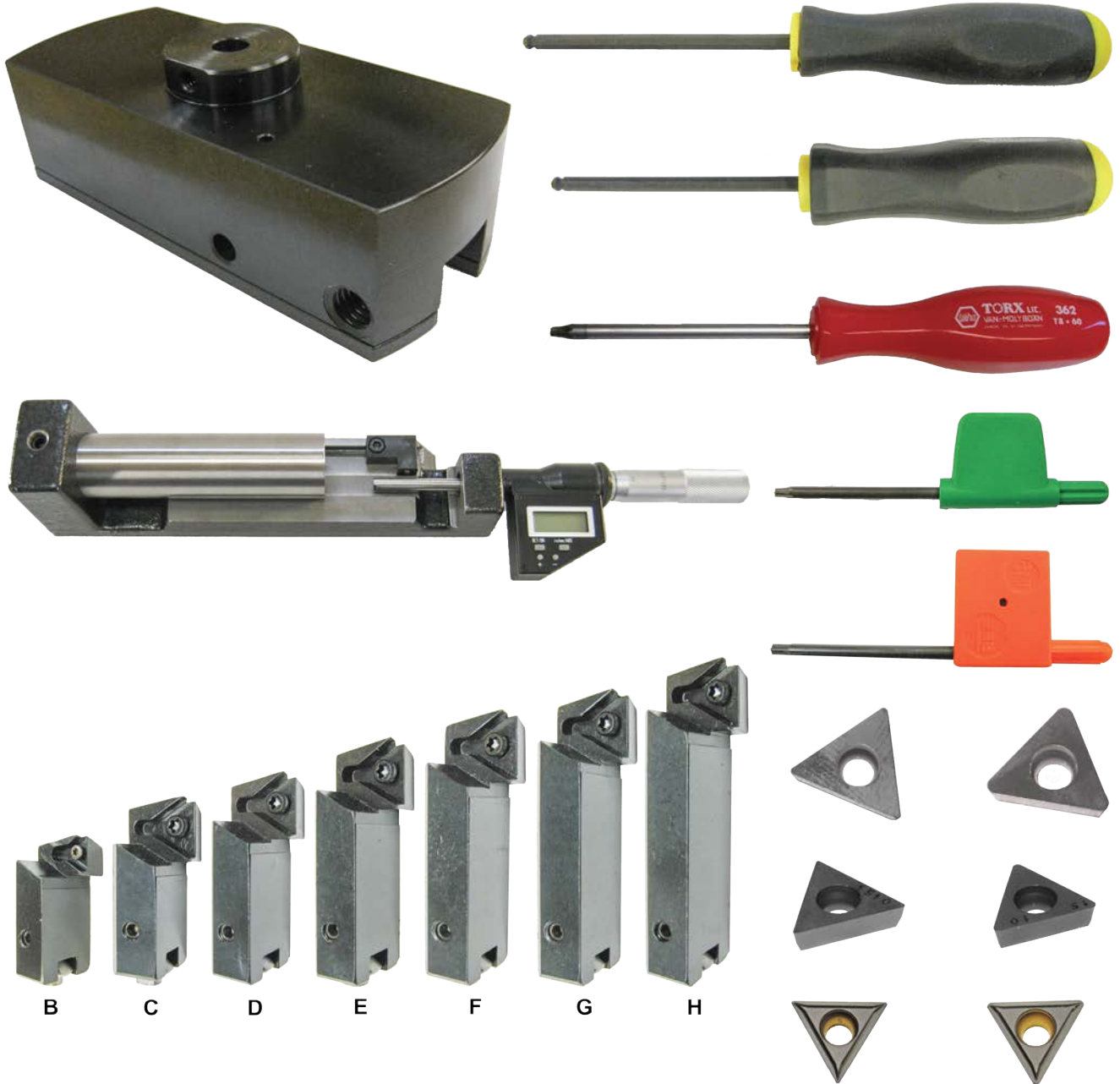
650-2-39C Cutterhead Package Line Boring

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



650-2-39A Cutterhead Package Line Boring

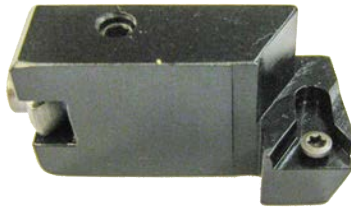
5.4 - 8.1" (137 - 206mm) diameter complete with tooling and Digital Micrometer



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



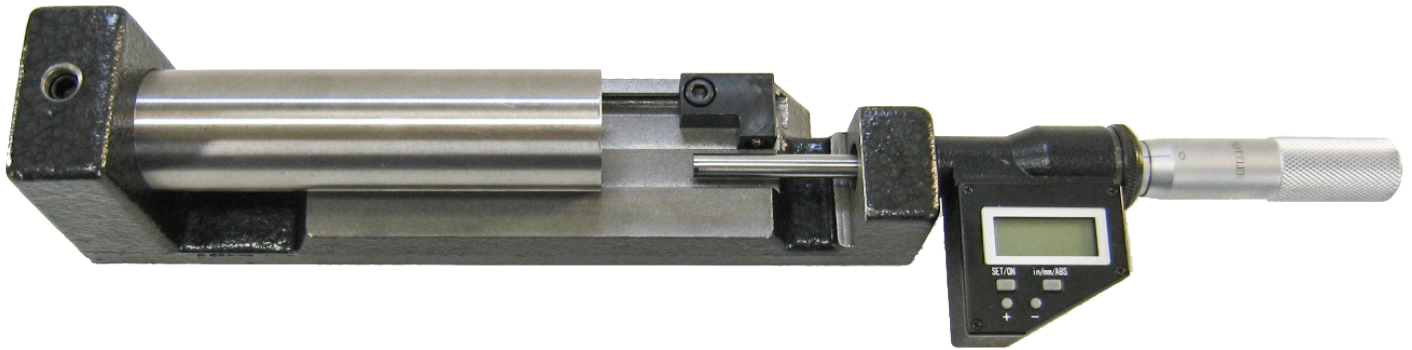
6801J Tool holder Assembly

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)





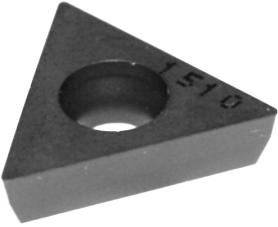
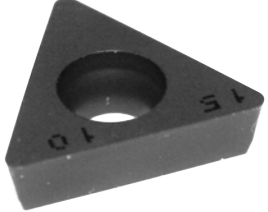



650-2-43D Spacer, Extension 1.215" (30.86mm)



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



Inserts for Proceeding Line Bore Cutterhead Tool holders

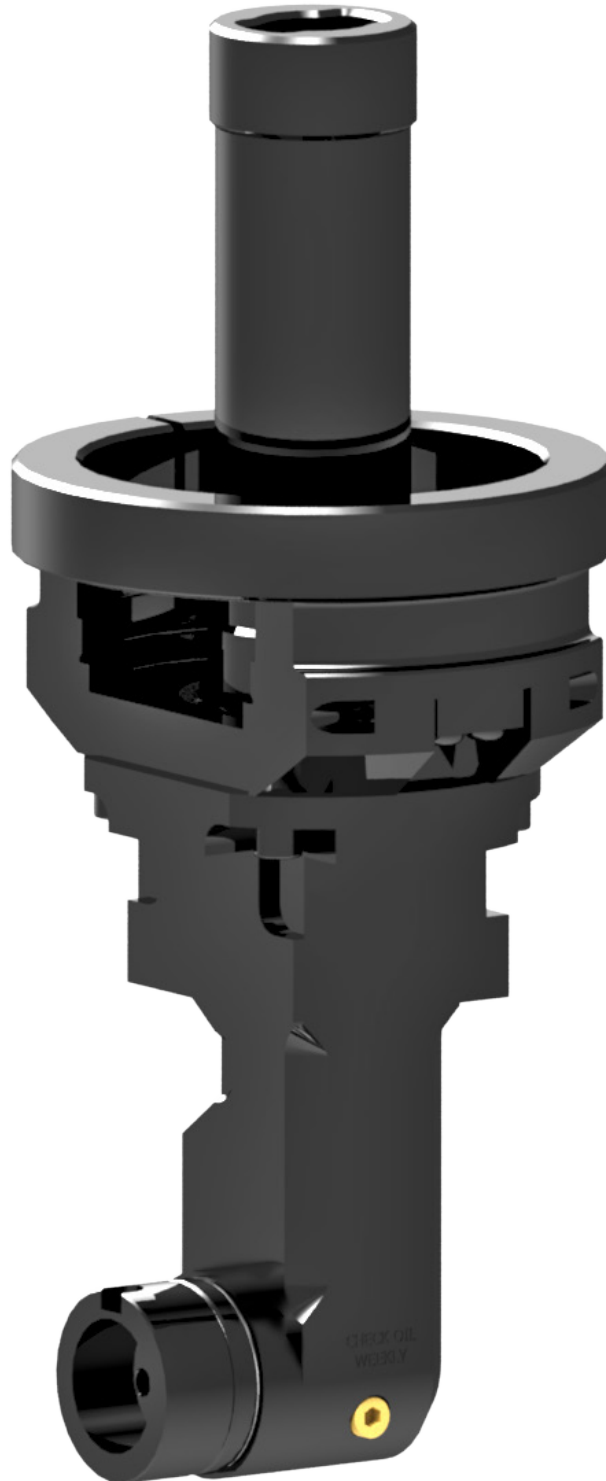
<p>RT211 Insert triangular 1/4" (6.35mm) 1/64" (.397mm) radius, 1/4" triangular Insert holders only, general purpose and sleeving (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p> 	<p>RT212 Insert triangular 1/4" (6.35mm) 1/32" (.787mm) radius, 1/4" triangular Insert holders only, general purpose and sleeving (10% Discount on orders of 10-49, 20% Discount on orders of 50 or more)</p> 
<p>RT321 Insert triangular 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 Insert triangular 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> 
<p>RT321F Insert triangular, 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 Insert triangular, 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

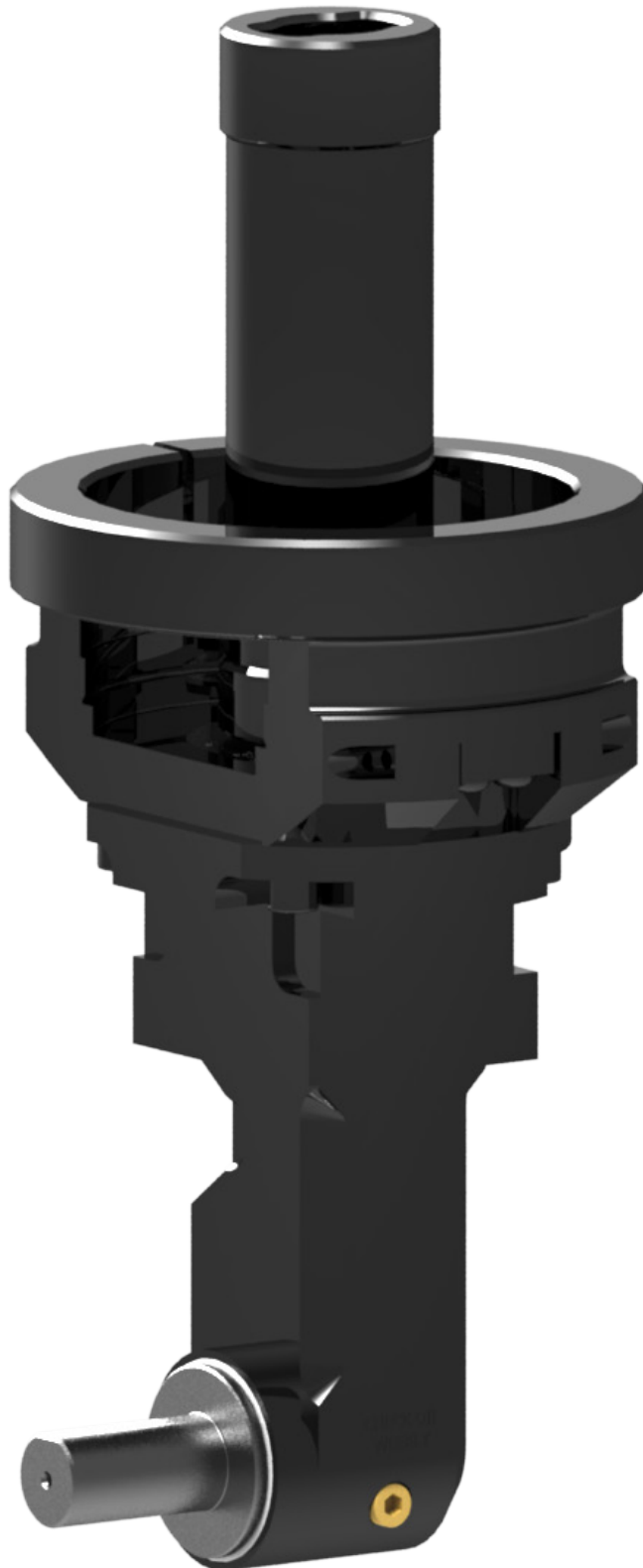
650-2-46Y Special Right Angle Drive using Cutterhead 650-2-39B

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

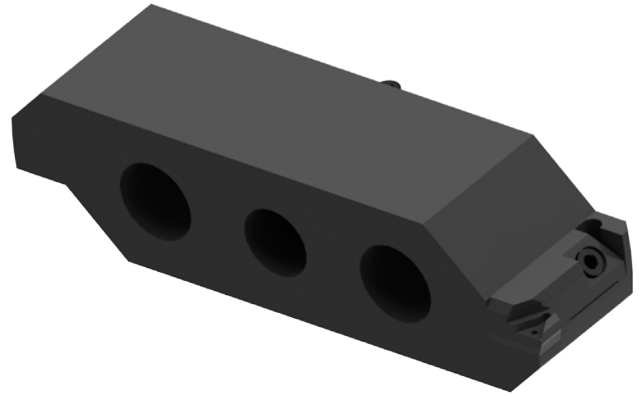
650-2-47E Line Bore Cutterhead Body Assembly

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



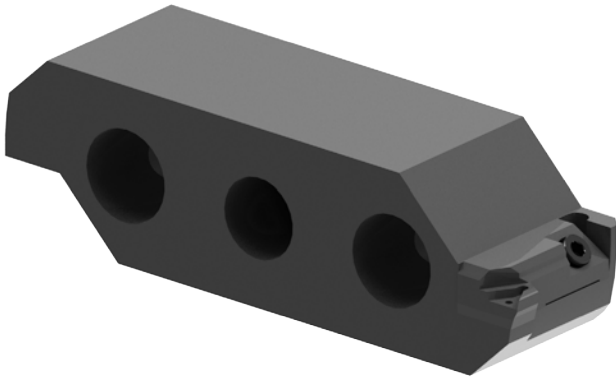
650-2-47G Line Bore Cutterhead Body Assembly

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



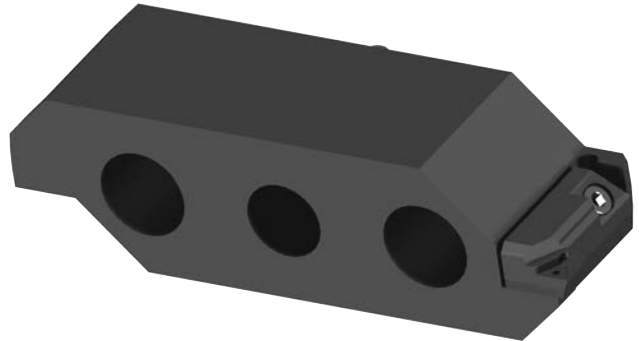
650-2-47J Line Bore Cutterhead Body Assembly

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.



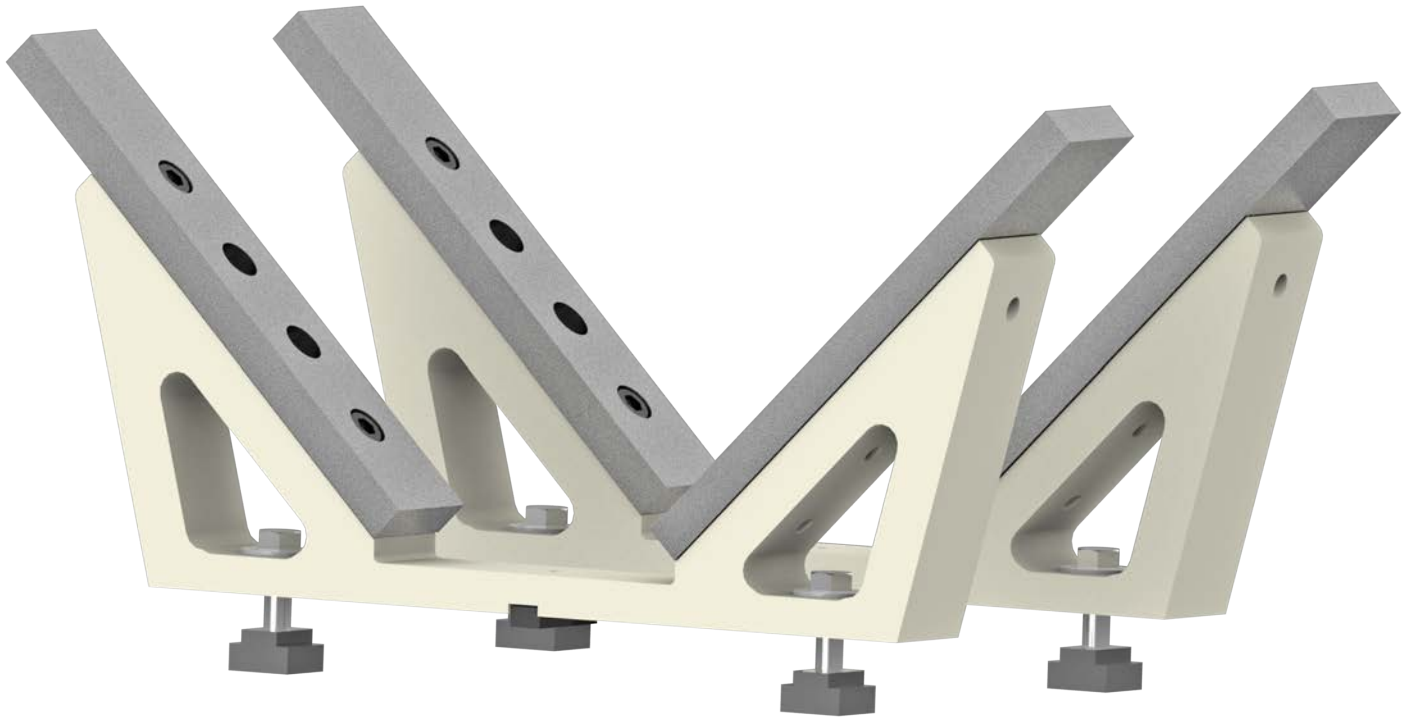
6821 Adjustable Universal Line Boring Fixture Assembly

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



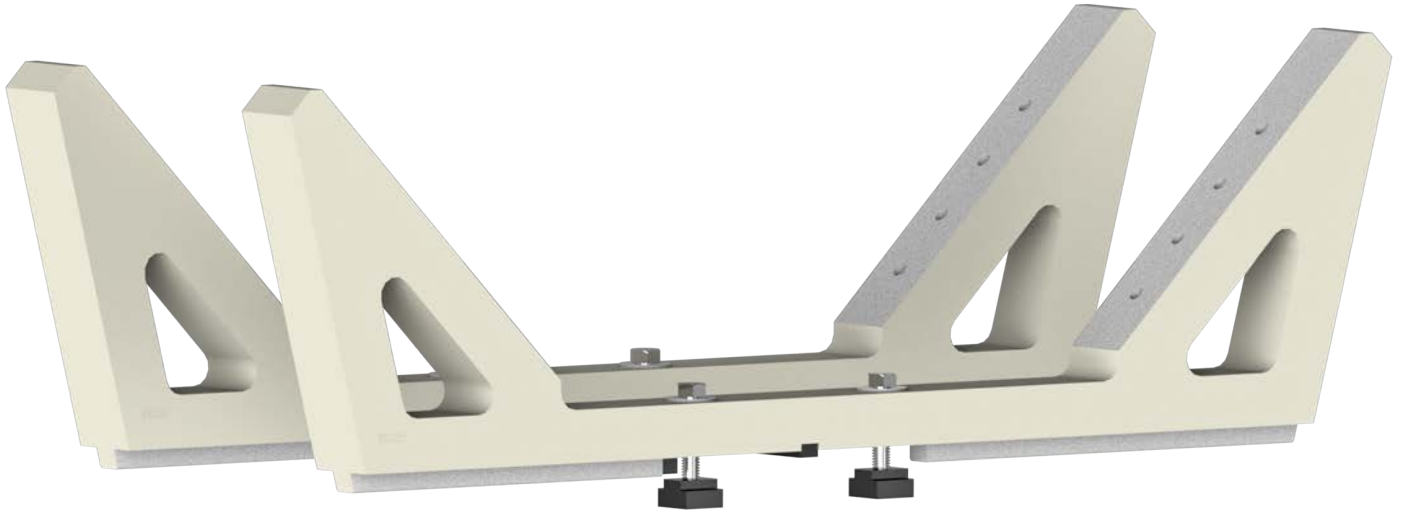
6843 90 Degree V Block Supports

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

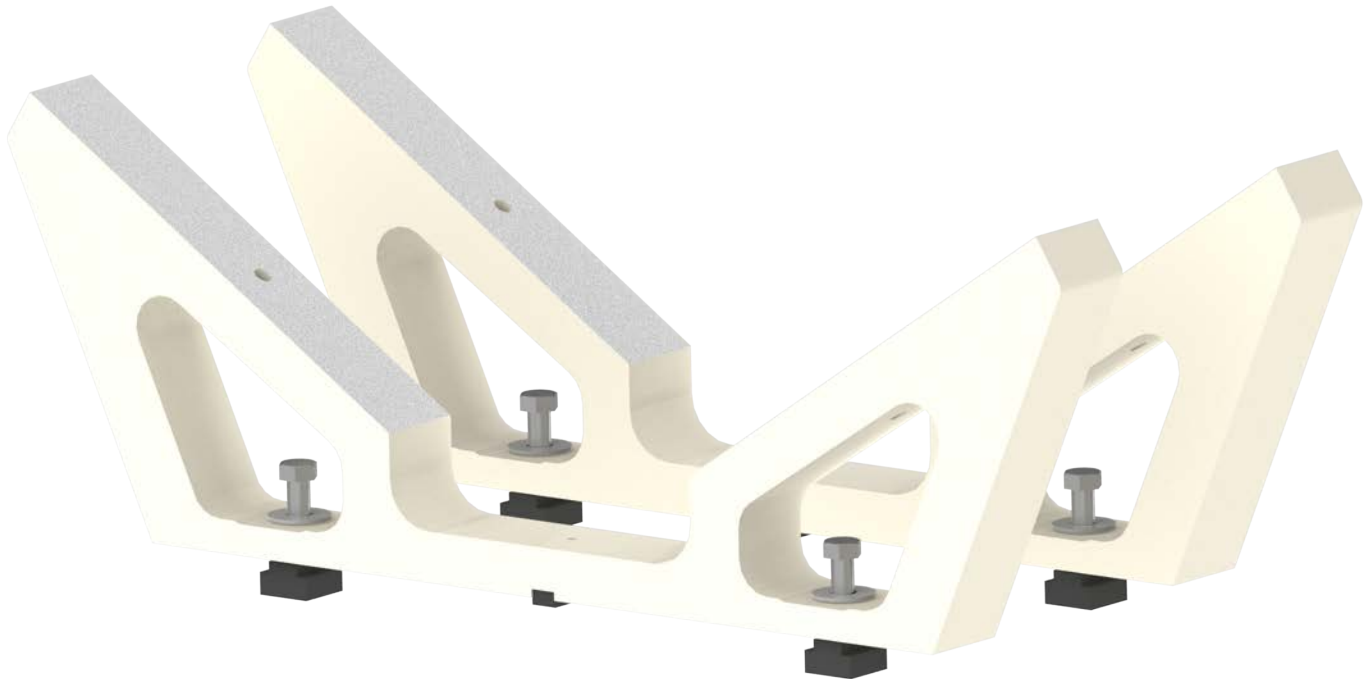


6823E 90 Degree V Block Supports for Large 90 Degree V Blocks

Such as MTU4000 for use on Line Bore Fixture 6821

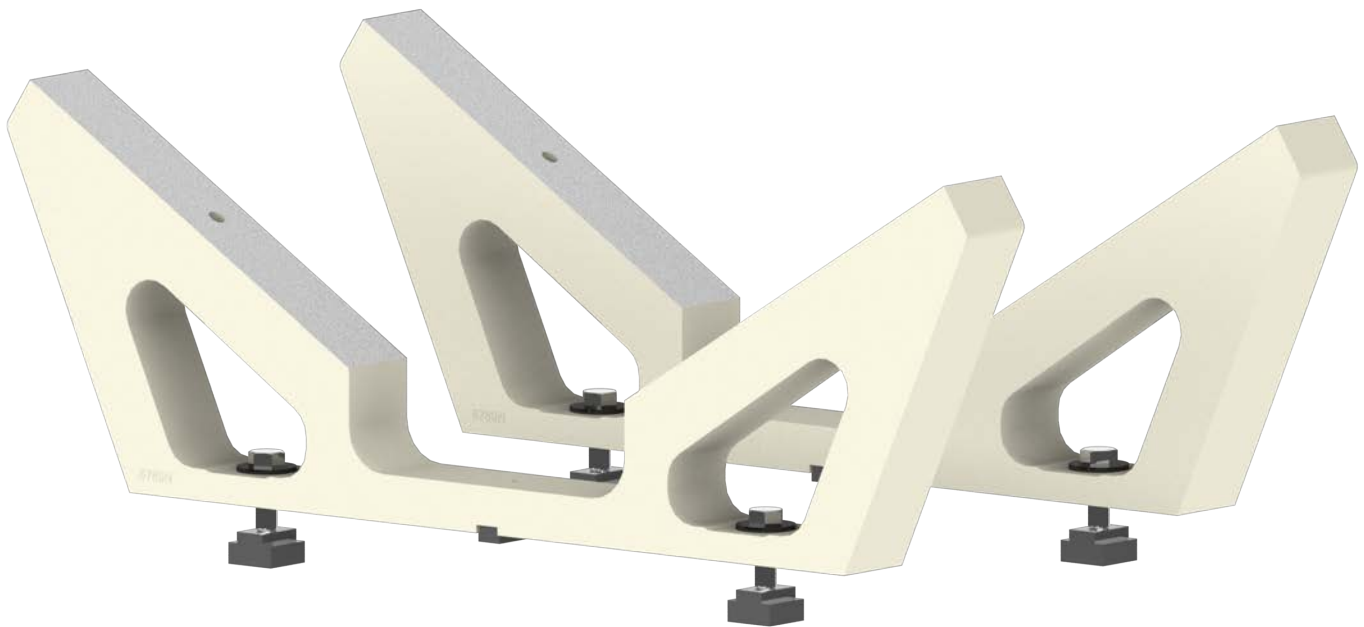
**6789L 113 Degree V Block Supports**

For Detroit Diesel V53 for use on Line Bore Fixture 6821 and 11113



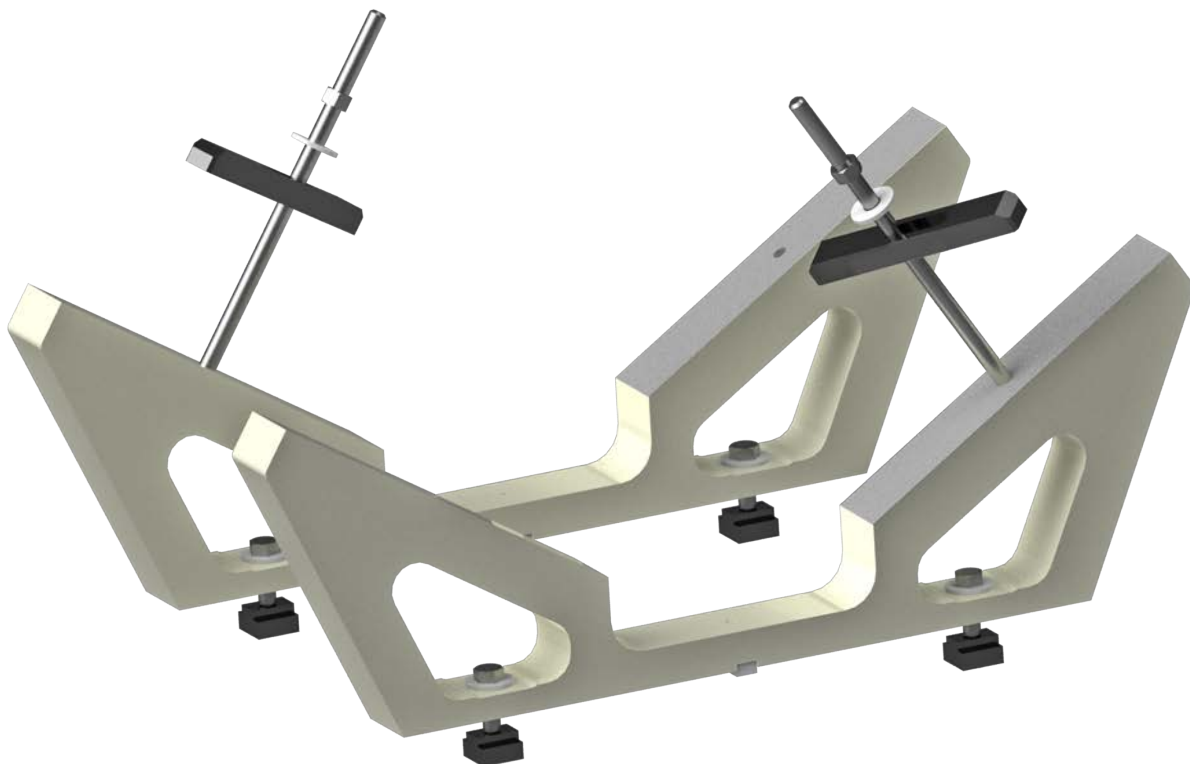
6789N 116 Degree V Block Supports for Detroit Diesel V71 & V92

For use on Line Bore Fixture 6821 and 11113



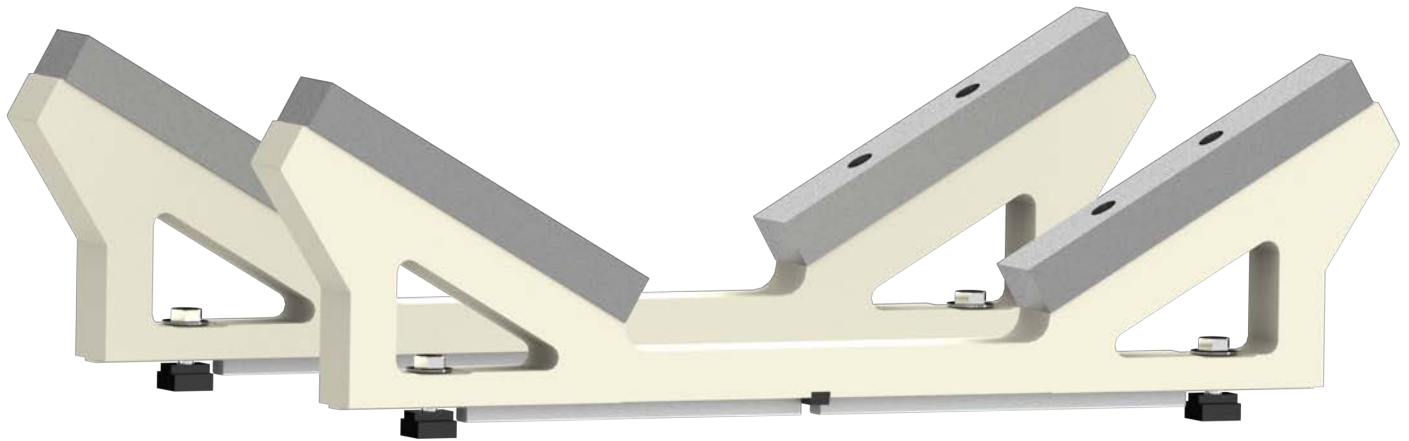
6789E 115 Degree V Block Supports for CAT 3400

For use on Line Bore Fixture 6821 and 11113

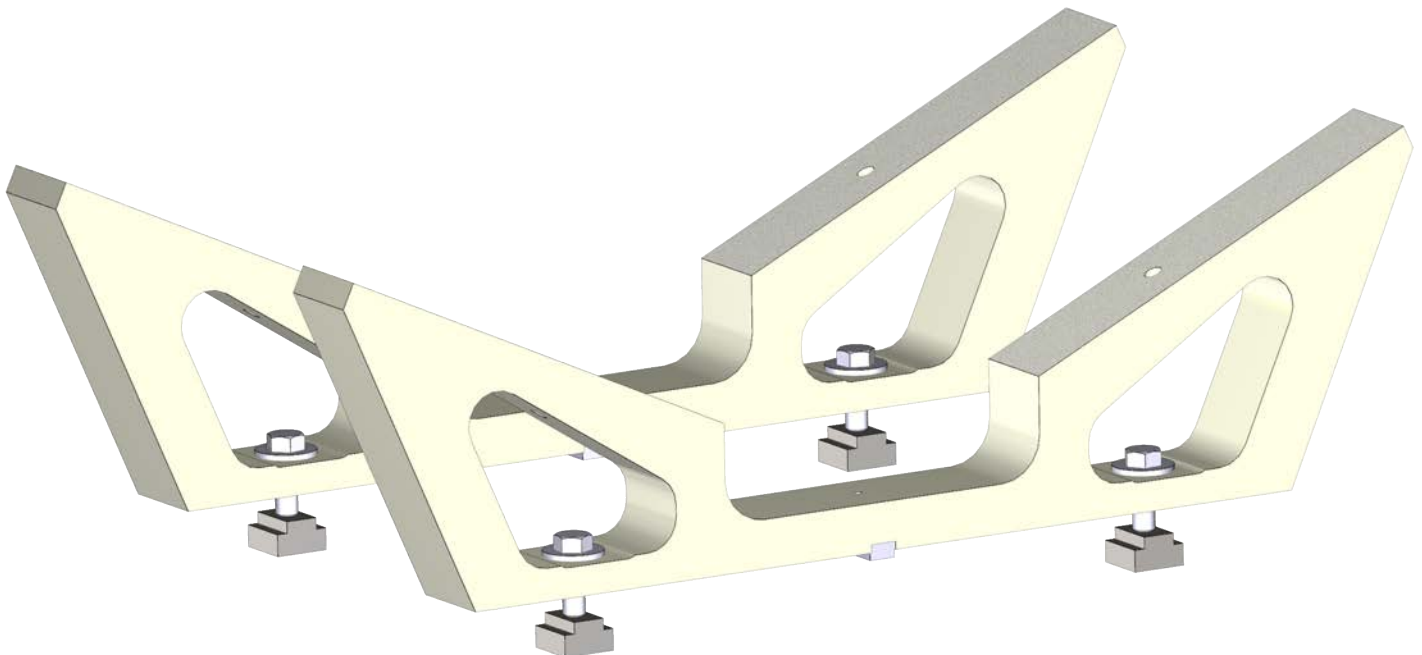


6823B 120 Degree V Block Supports for Large 120 Degree V Blocks

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

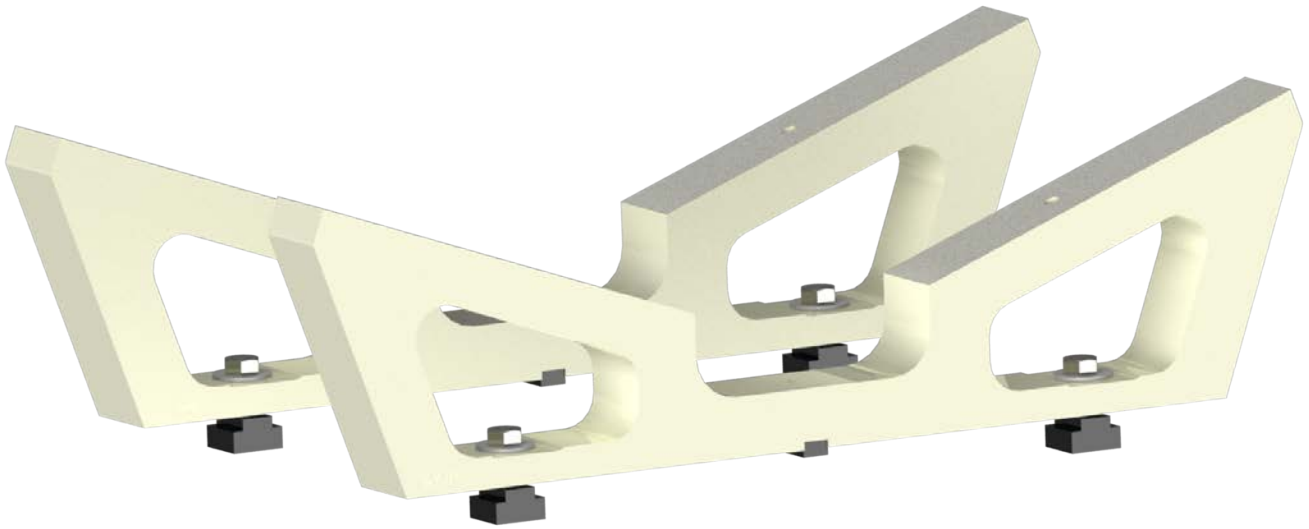
**6789K 130 Degree V Block Supports for Komatsu 140**

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

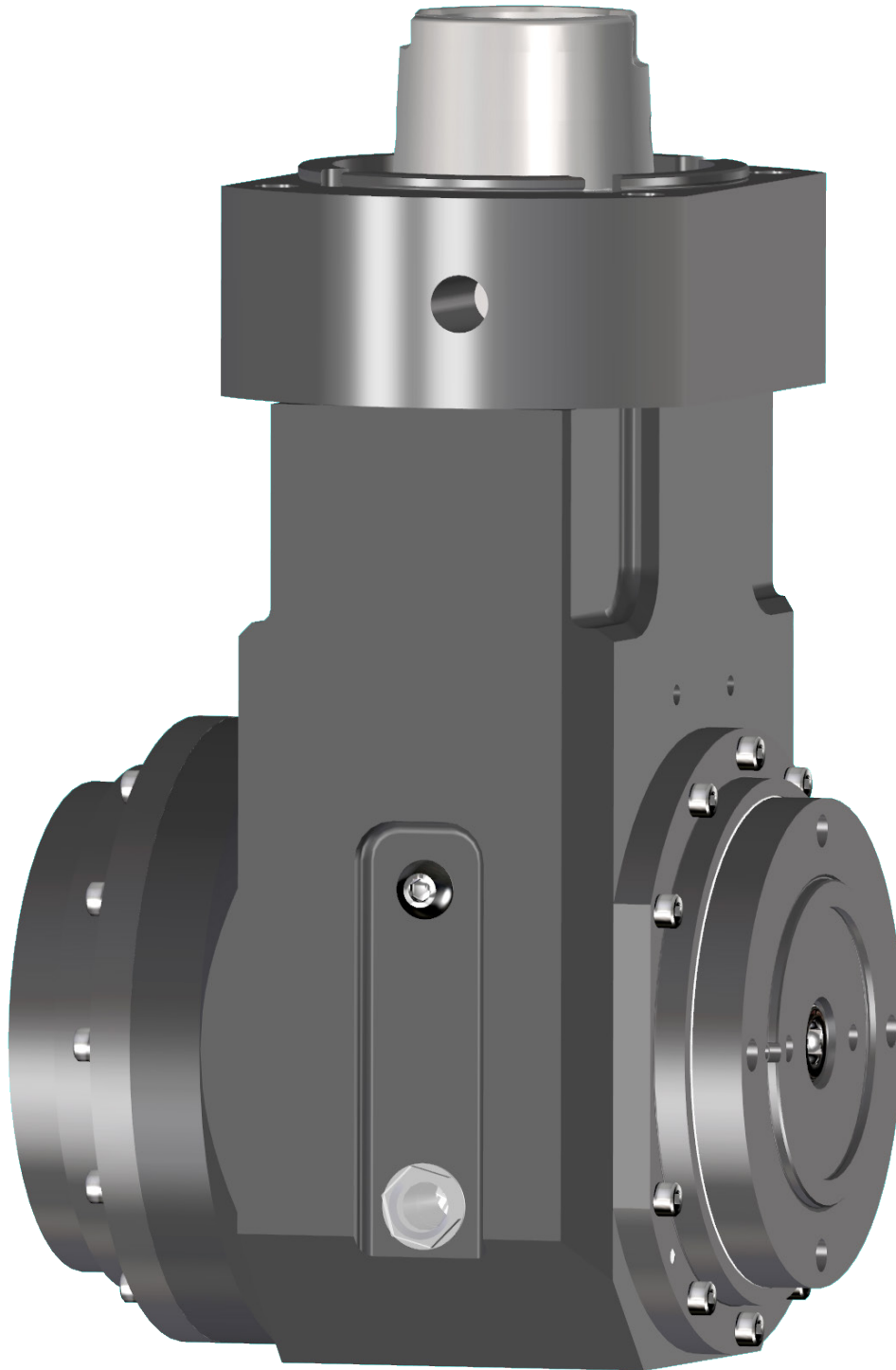


Line Bore Tooling for Extra Large Blocks

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

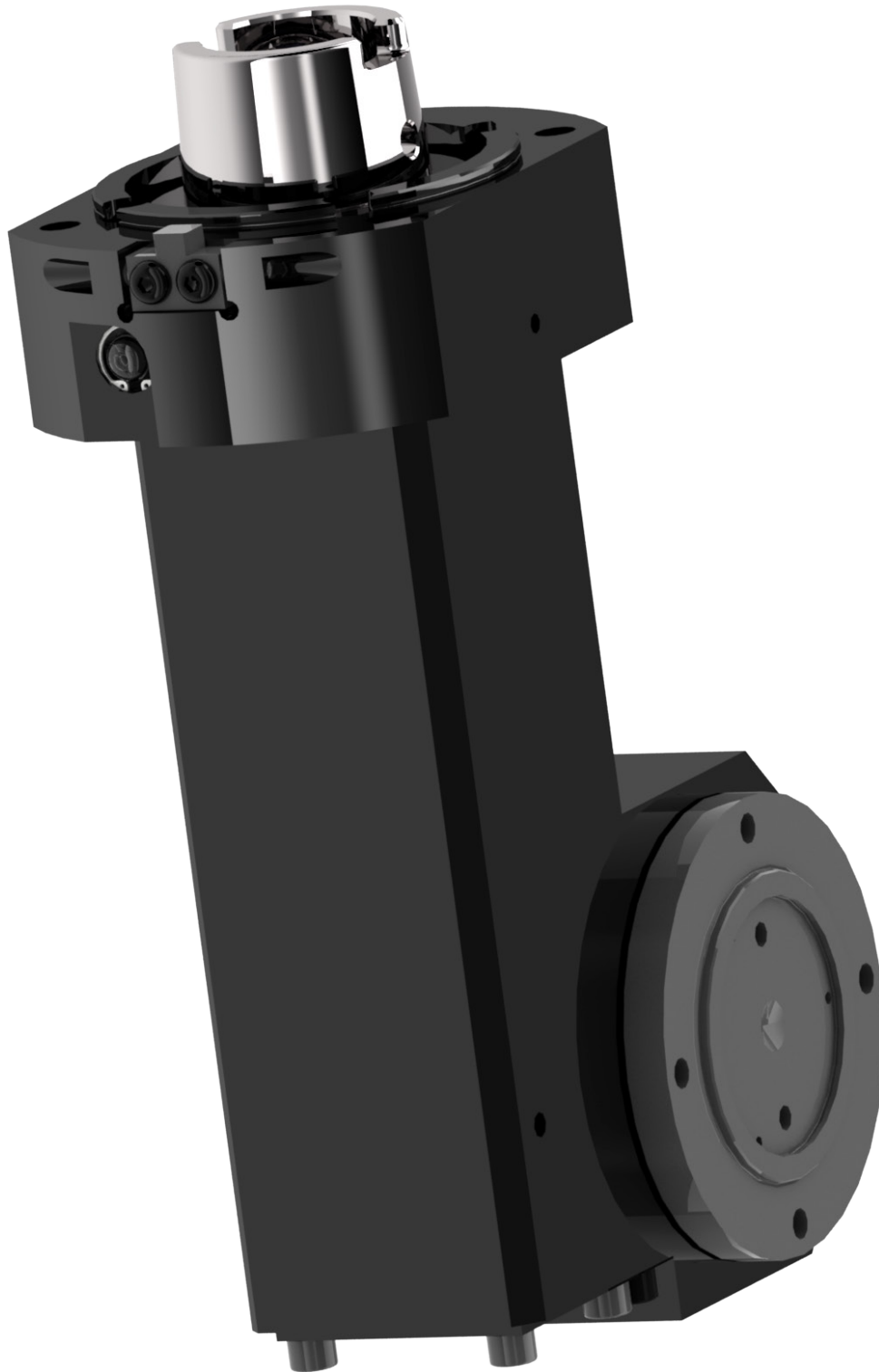


10114 Heavy Duty Offset 90 degree Right Angle Drive Assembly

Without tooling

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

F107/9AH



6519V Heavy Duty Line Bore Cutterhead Assembly

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)



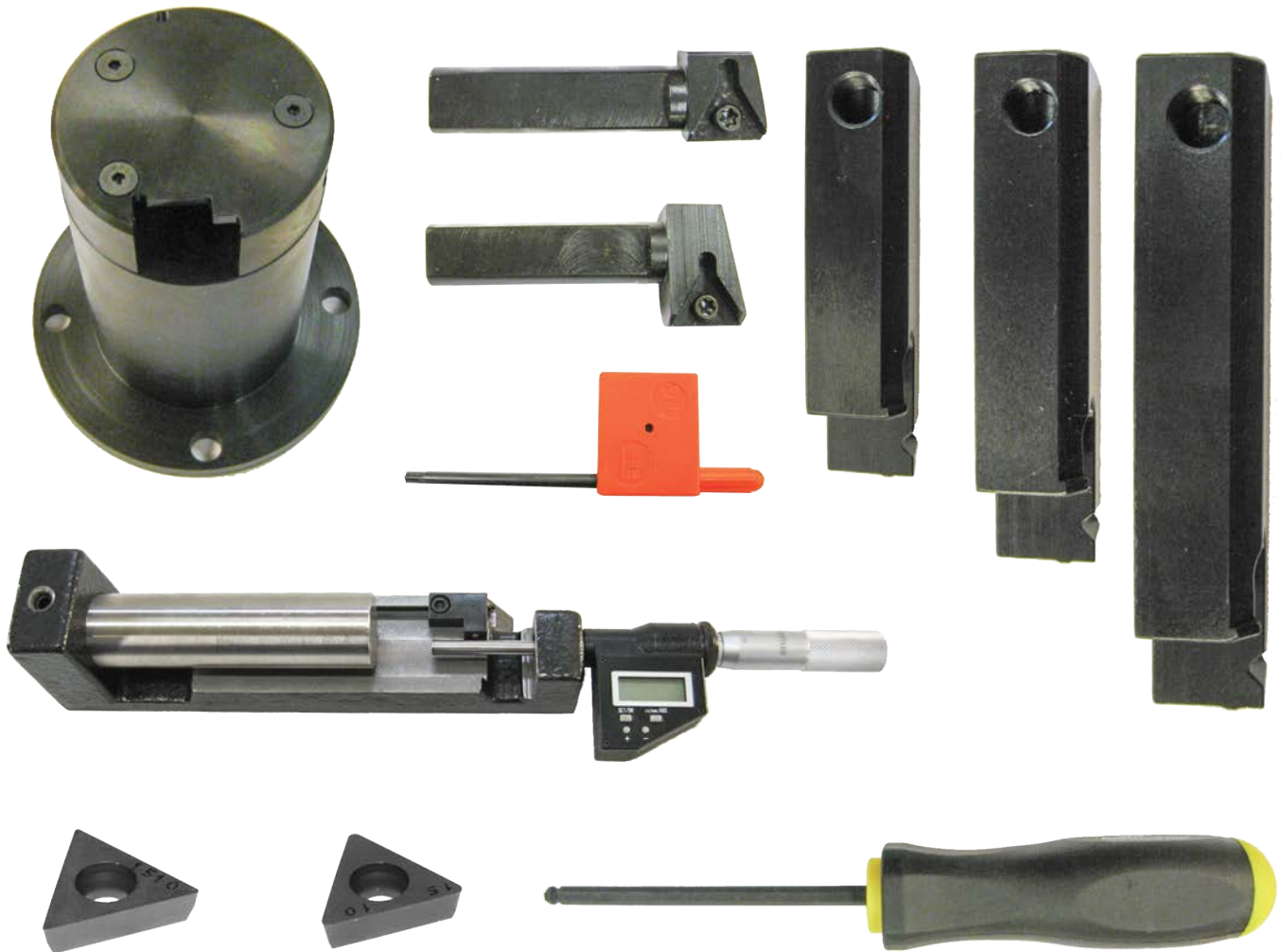
6519P Heavy Duty Line Bore Cutterhead Assembly

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)



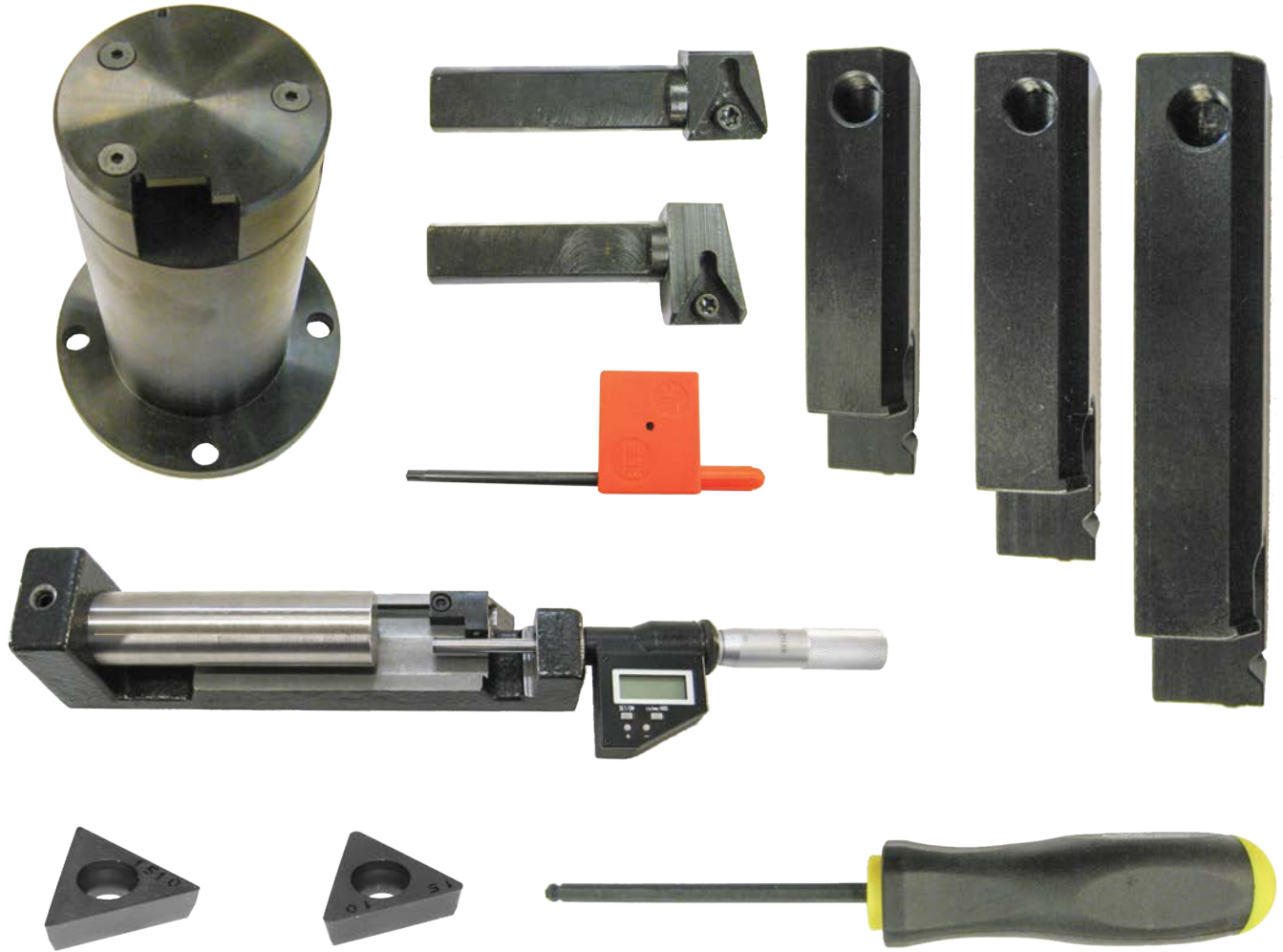
6519M Heavy Duty Line Bore Cutterhead Assembly

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 Assembly

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)



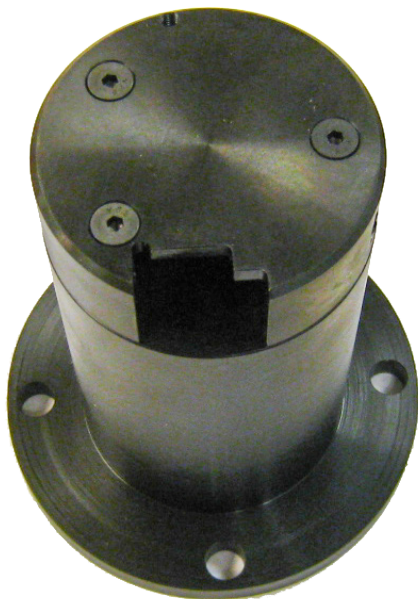
6519S Heavy Duty Line Bore Cutterhead Assembly

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)

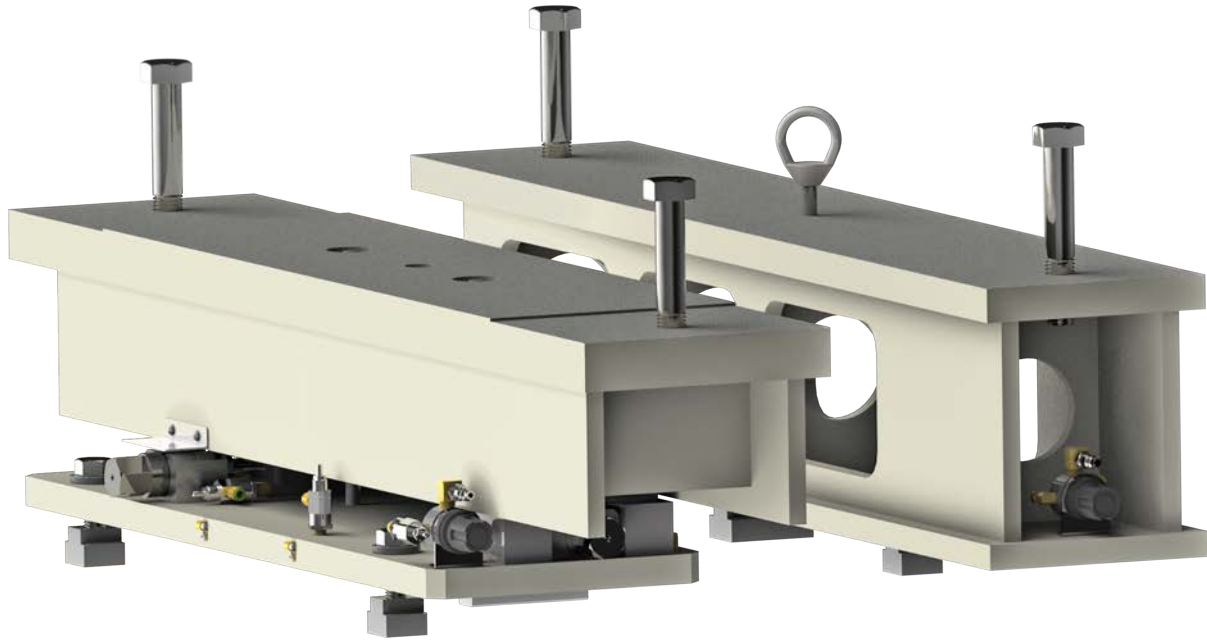


6519R Heavy Duty Line Bore Cutterhead Assembly

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



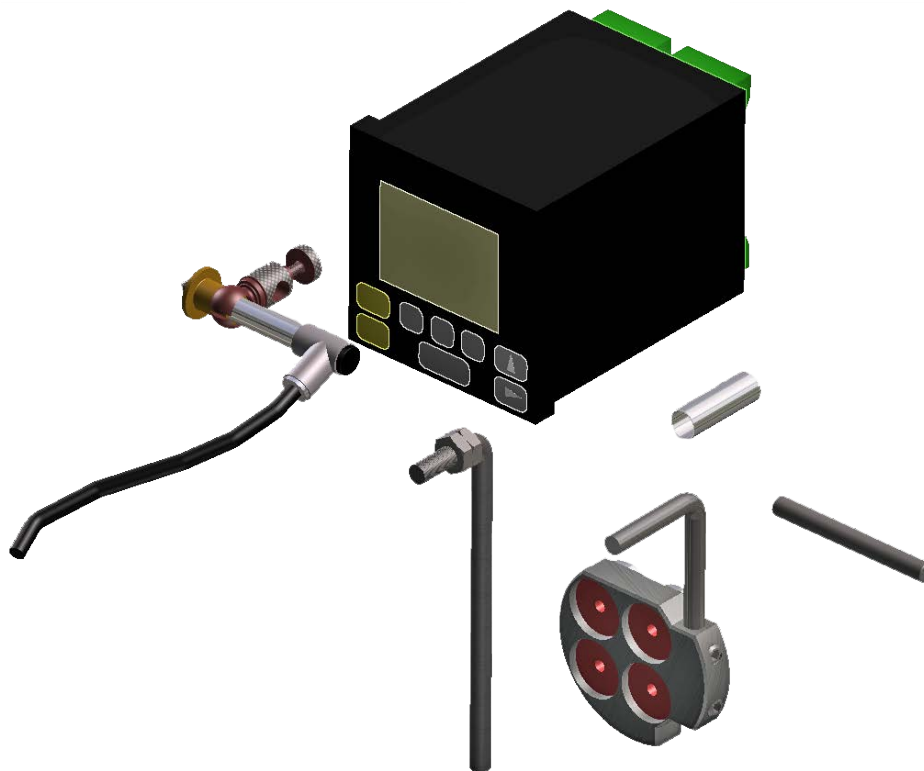
6815 White Superior 8G825 Line Boring Fixture



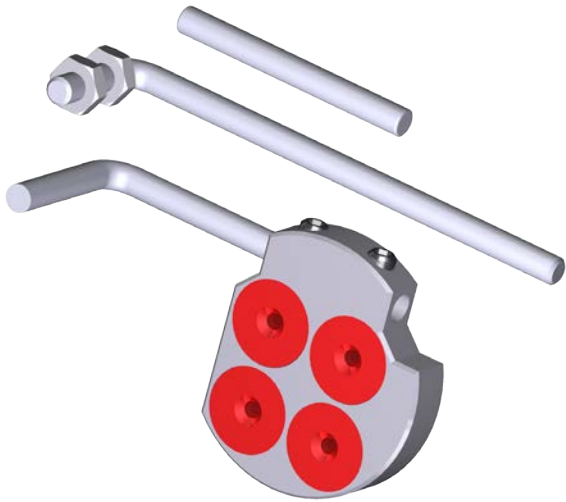
Set Up Indicators

502-12-7B Digital Runout Probe and Readout

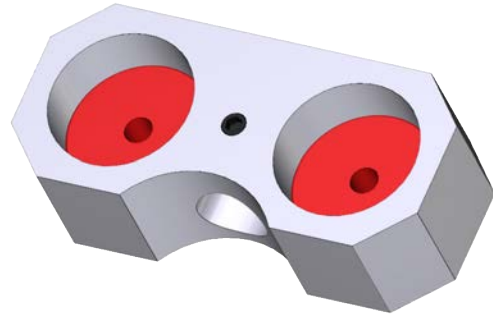
Including Magnetic Holder for Block Set Up and Manual Centering of Cylinder Bores and Main Line Bores



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)

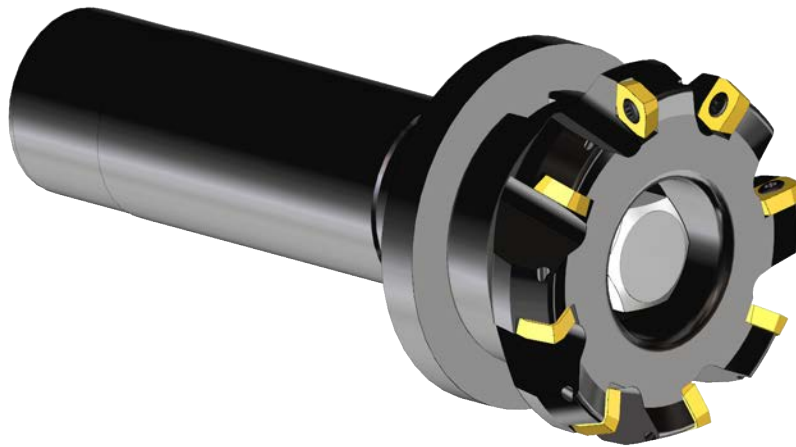


502-9-9J Mechanical Run Out Indicator
 General Purpose (.01mm Metric Resolution)

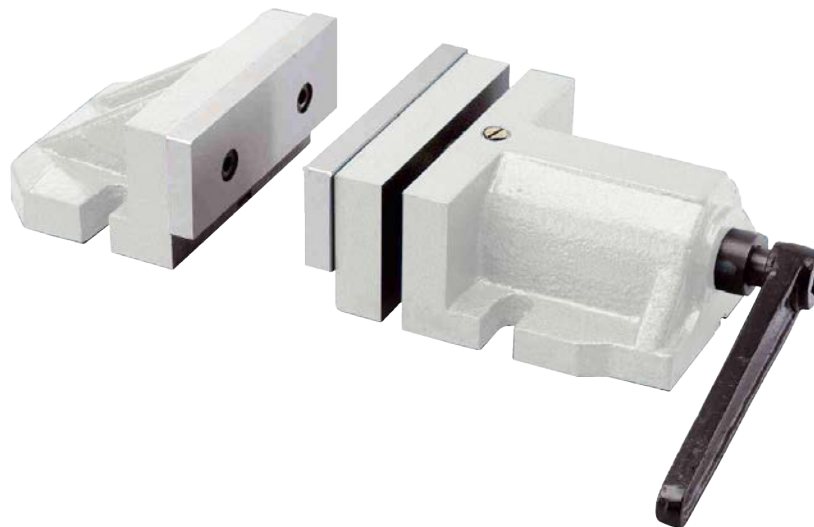


6514L Shell Mill 5" (127mm) Diameter

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

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



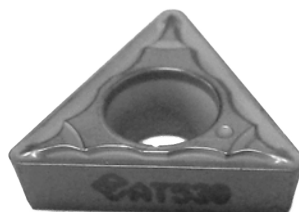
10131 Blind Hole Stub Cutterhead

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



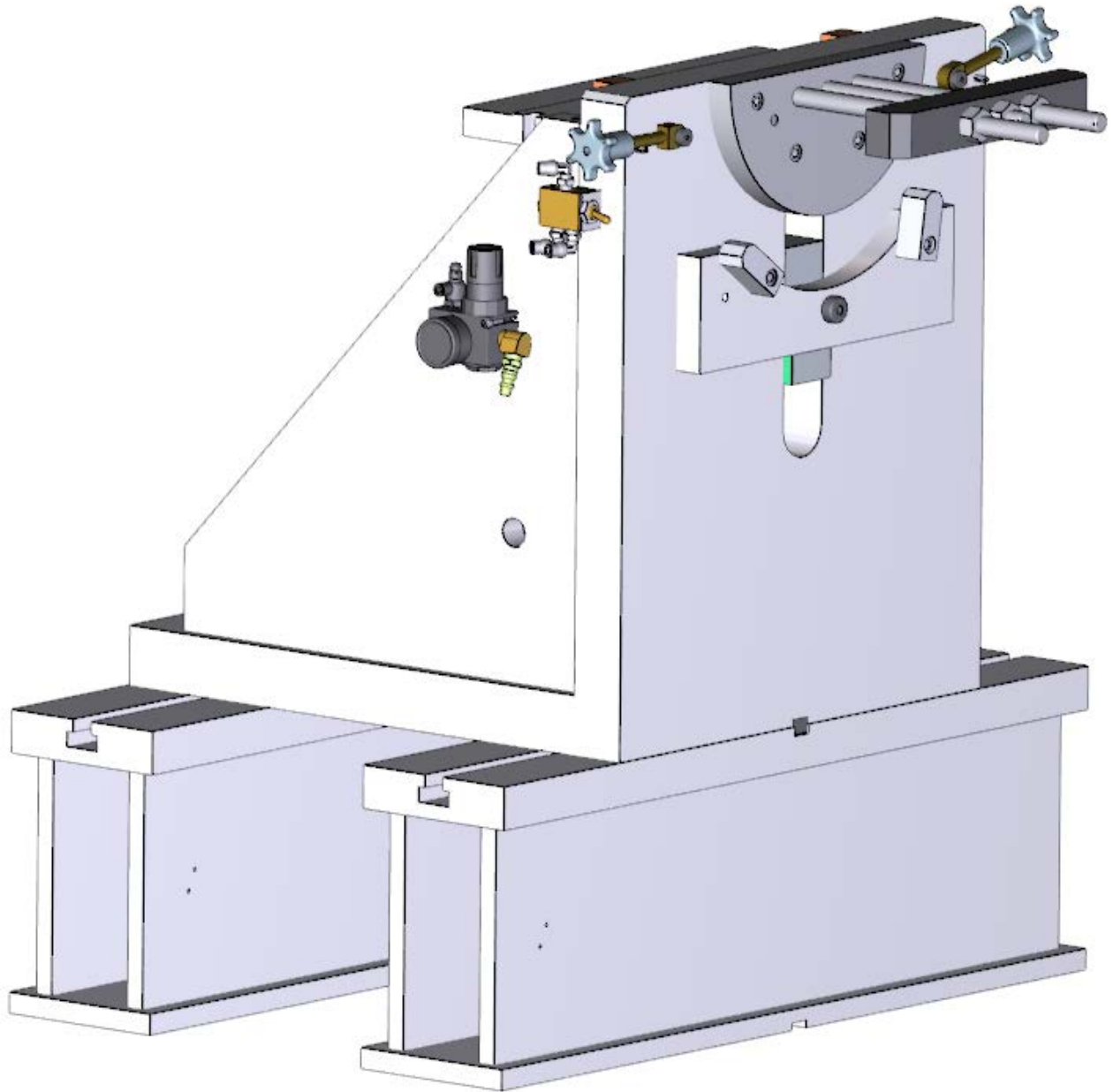
Fixturing & Tooling for Machining Large Diesel & Compressor Connecting Rods

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

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

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

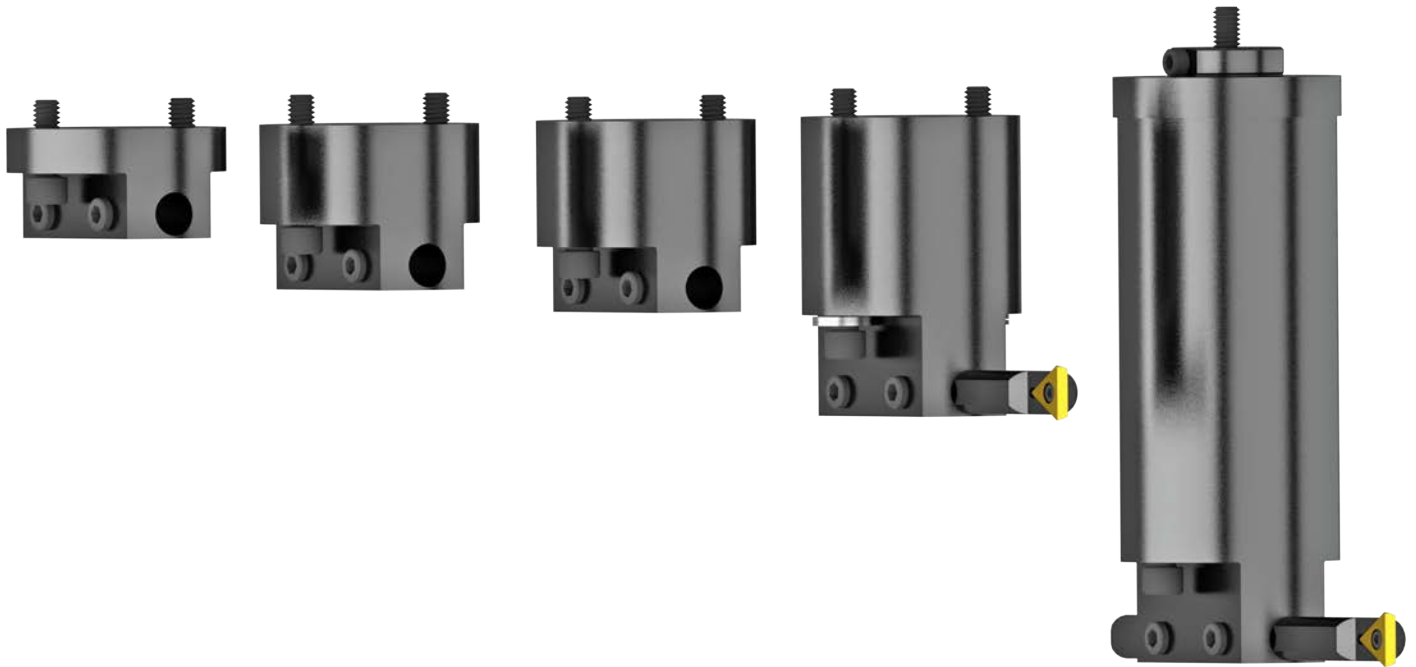


RTCR322 Insert

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

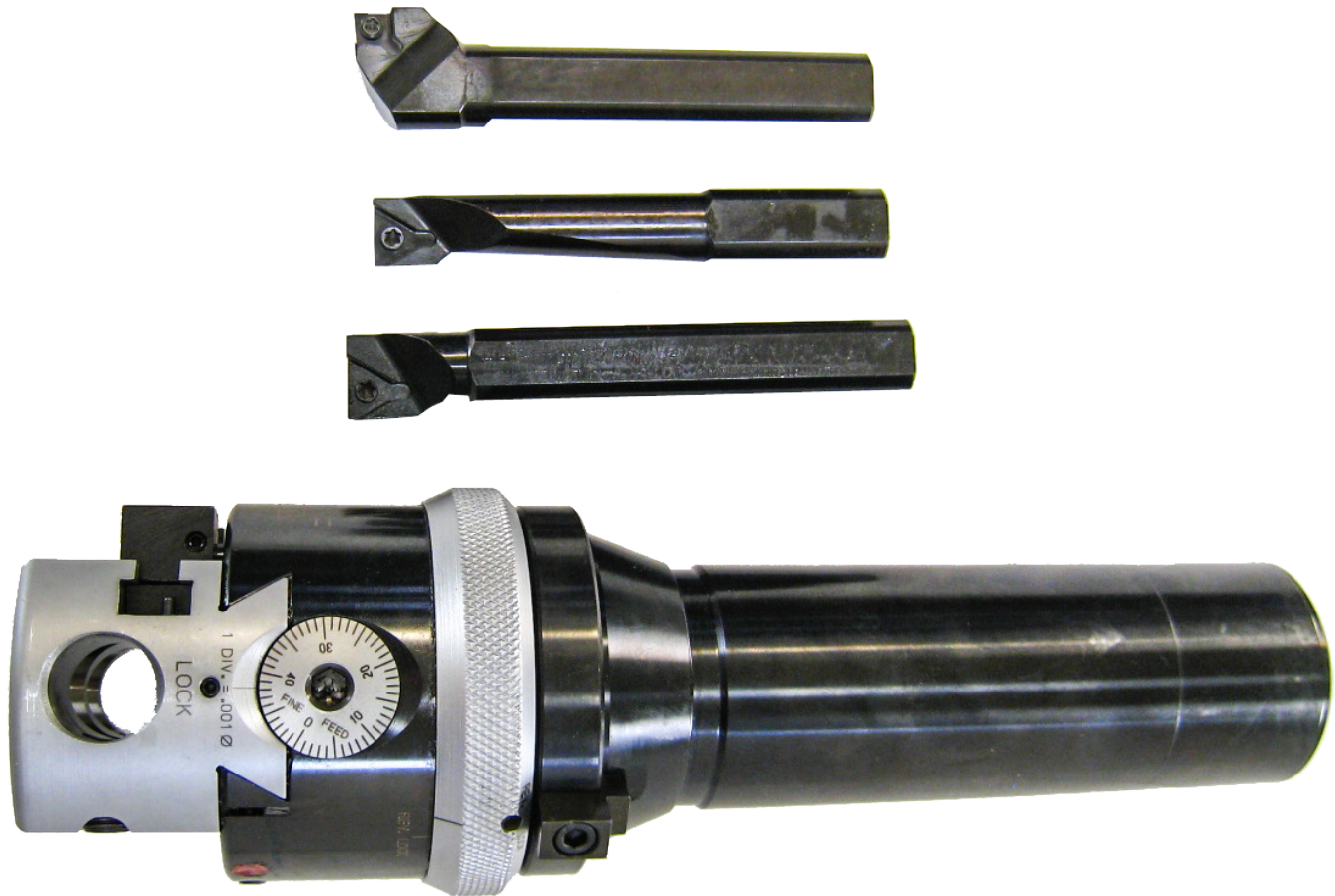
For Wide Counterbores and Chamfers including spindle adaptor
F103/4/5/7/9



6835 Small Precision Adjustable Boring Head

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



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



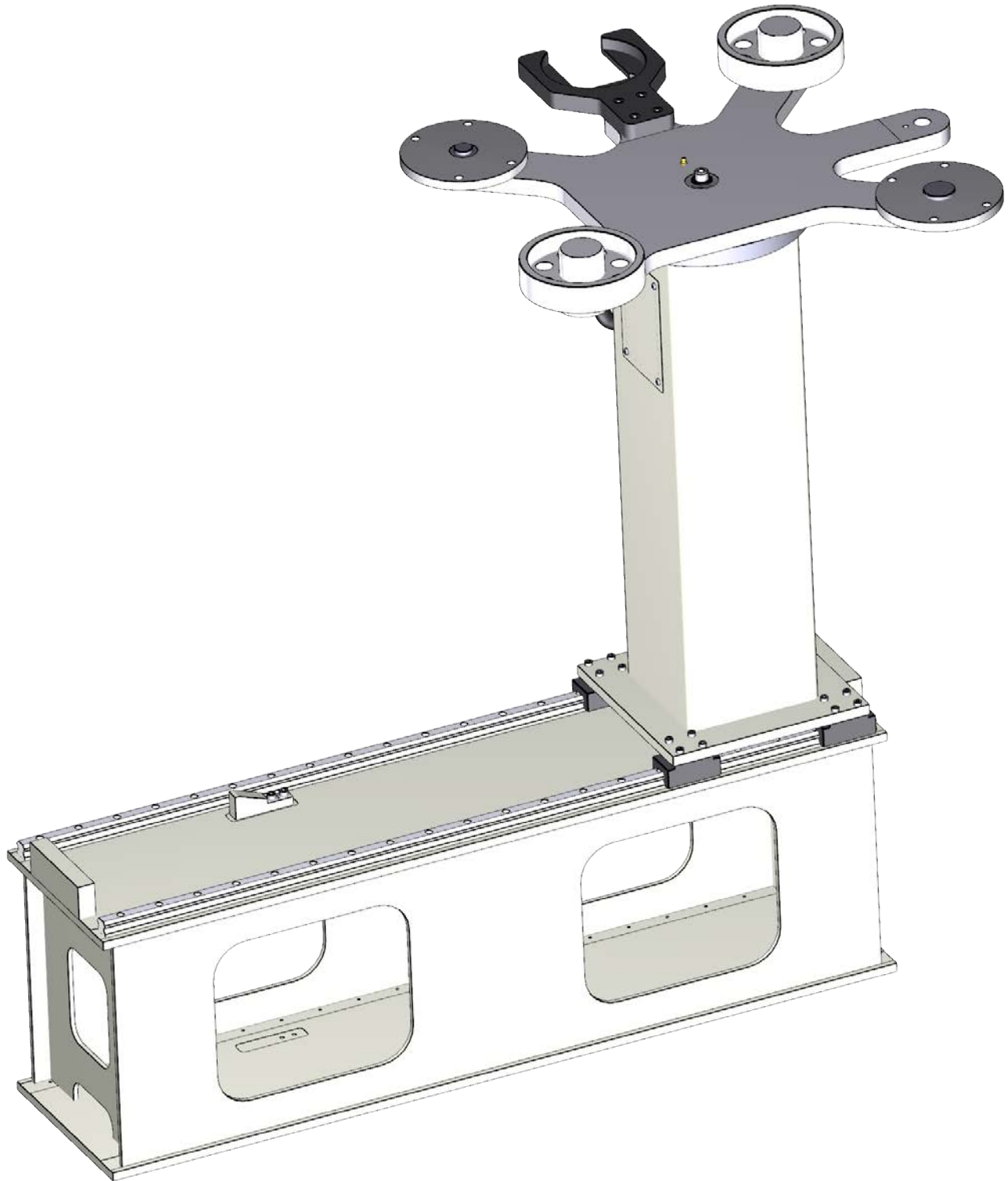
6514Q #5 Morse Taper Adapter Assembly



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

