

ROTTLER

EM103/4/5 SERIES CNC MACHINING CENTER OPTIONAL EQUIPMENT CATALOG



EM103/4/5



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 do not 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. For customers within the U.S. send emails to parts@rottlermfg.com, for customers outside of the U.S. use intlparts@rottlermfg.com

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

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

THERE IS A MINIMUM ORDER OF \$25.00

EM103/4/5 H SERIES OPTIONAL EQUIPMENT CATALOG

RPATH-4C Software Package	1
Cutting Tools	2
Boring Tools	2
10118 Blind Hole Cutterhead Kit, 1 ½-4.1" (38-104mm) x 7" (176mm).....	2
10131 Blind Hole Cutterhead Kit, 2.92-6.74" (74-171mm) x 9 5/8" (245mm).....	3
10108B Blind Hole Cutterhead Kit, 2.92-6.74" (74-171mm) x 11 ¼" (286mm)	4
10117 Blind Hole Cutterhead Kit, 5.63-9.34" (143-237mm) Dia.....	5
10107B Blind Hole Cutterhead Kit, 7 ¾" (197mm) Dia	6
10104B Blind Hole Cutterhead Kit, 12" (305mm) Dia	7
Surfacing Tools	8
10119 Surfacing Flycutter Kit, 10" (254mm) Dia.....	8
10106C Surfacing Flycutter Kit, 14" (356mm) Dia	8
10115 Surfacing Flycutter Kit, 18" (457mm) Dia.....	9
10106B Surfacing Flycutter Kit, 22" (559mm) Dia	9
10129 Shell Mill Kit, 5" (127mm) Dia	10
10130 Shell Mill Kit, 6" (152mm) Dia	10
10109D Shell Mill Kit, 8" (203mm) Dia.....	11
10109B Shell Mill Kit, 18" (457mm) Dia	11
Right Angle Drives	12
13001 Right Angle Drive, 2" Extended.....	12
13002 Mid-Size Right Angle Drive	13
13003 Belt Driven Right Angle Drive	14
13004 Special Narrow Right Angle Drive	15
13000 Heavy Duty Offset Right Angle Drive.....	16
Right Angle Drive Accessories.....	17
650-2-39B Line Boring Cutterhead Kit, 1.94-4.11" (49.28-104.39mm) Dia	17
650-2-39C Line Boring Cutterhead Kit, 2.82-5.52" (71.63-140.21mm) Dia	18
650-2-39A Line Boring Cutterhead Kit, 5.4-8.1" (137-206mm) Dia	19
6519V HD Line Boring Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 3" (76mm).....	20
6519P HD Line Boring Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 4.25" (108mm).....	21
6519M HD Line Boring Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 5.1" (130mm)	22

6519N HD Line Boring Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 6" (152mm).....	23
6779L Flycutter, 10" (254mm) Dia	24
6779M Flycutter, 14" (356mm) Dia	24
6779N Crossfeed Head Kit	25
6855C Thrust Facing Tool Package	25
6779H CAT 40 Adapter Kit	26
Insert Holders	27
6801 Series Insert Holder	27
6593 Series Insert Holder	27
6520 Series Insert Holder	28
6259 Series Insert Holder	28
6206L Insert Cartridge	29
6206M Insert Cartridge	29
6593S Insert Cartridge	30
6598 Insert Cartridge	30
Micrometers	31
900-2-19 Micrometer.....	31
900-2-20 Micrometer.....	31
General Purpose Tooling	32
10121A Caterpillar 3400 Tappet Bore Repair Kit	32
10124 CAT 40 Collet Kit	33
650-2-45G Carbide Endmill, 1" (25.4mm) Dia x 4.0" (101.4mm).....	33
650-2-43F Four-Flute Endmill, $\frac{3}{4}$ " (19.05mm) x 4.0" (101.4mm).....	33
10113 Spindle Adapter for 1.0" (25.4mm) Dia Shank Tools	34
10113A Spindle Adapter for 0.75" (19.05mm) Dia Shank Tools	34
10125 Adapter, Blank	34
10126 CAT 40 Taper Adapter.....	35
10127 R8 Taper Adapter	35
10128 #5 Morse Taper Adapter	36
10122 Small Precision Adjustable Boring Head Kit	36
6900B Crossfeed Head Assembly	37
Fixturing	38
Parallels	38
6511 $\frac{3}{4}$ " (19.05mm) Clamping Kit	38
11115 Parallels, 2" x 3" (51mm x 76mm).....	38
7219W Parallels, 5.2" (132mm)	39
6370Z Parallels, 10" (254mm)	39

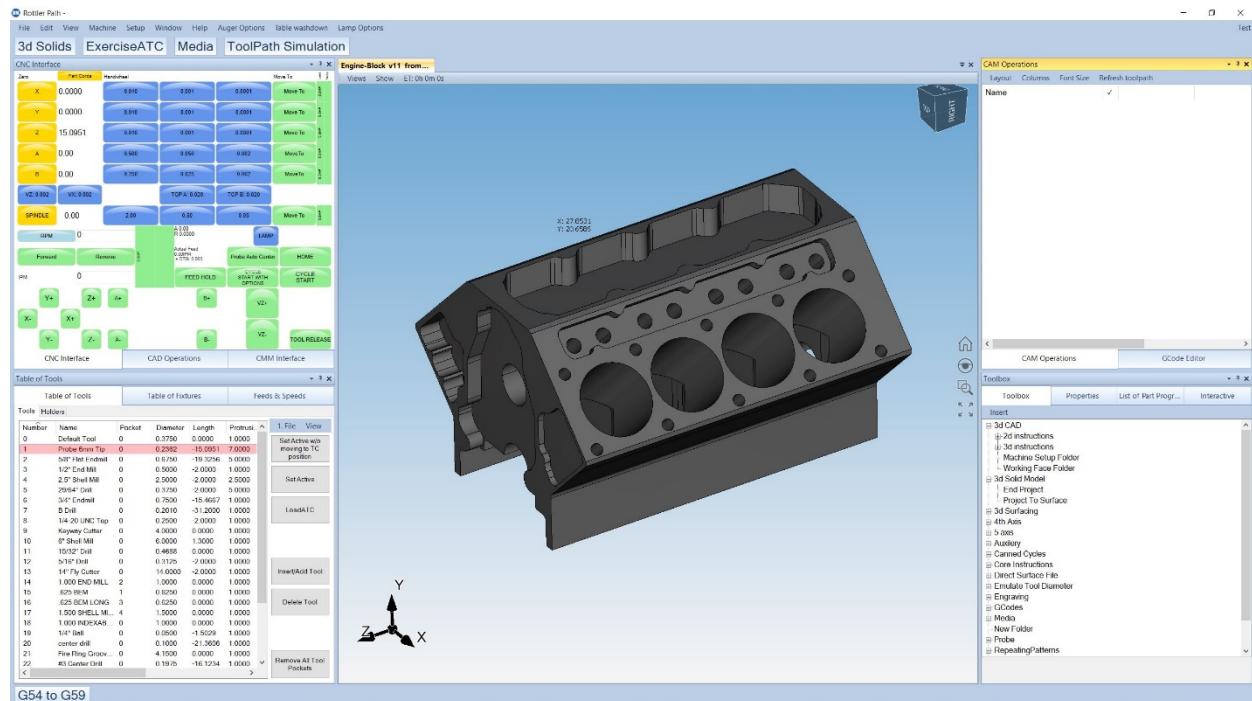
6370C Parallels, 18" (457mm)	40
Main Bore Locating Fixtures	41
6725 Small to Mid-Range Fixture Kit	41
6405F Large V-Block Fixture Kit	42
Main Bearing Locator Sets.....	43
Line Bore Fixtures.....	45
650-3-56 Line Bore Pivot Table Fixture Kit.....	45
6821 Adjustable Universal Line Boring Fixture Kit.....	45
6843 90° V-Block Support Kit	46
6823E Large 90° V-Block Support Kit.....	46
6789L 113° V-Block Support Kit	47
6789N 116° V-Block Support Kit.....	47
6789E 115° V-Block Support Kit	48
6823B 120° V-Block Support Kit	48
6789K 130° V-Block Support Kit	49
6789Q 140° V-Block Support Kit.....	49
6789T 110° V-Block Support Kit	50
6846 White Superior 12 & 16 G825 Line Boring Fixture.....	51
6810 Waukesha 7042, 9390 & CAT 379, 398, 399 Line Boring Fixture.....	51
Miscellaneous Fixtures/Accessories	52
6309N Tower Type Hold Down Clamp Kit	52
7152A Dual Axis Level.....	52
7209M Leveling Table.....	53
7209N 2-Piece Vice	53
9111A T-Slot Plate for F60 Fixtures.....	54
650-3-66 Compressor Conrod Cap Surfacing Fixture	54
6870 Precision Large Connecting Rod Fixture Kit.....	55
Auxiliary Equipment.....	56
10110 Renishaw Wireless Probe Kit.....	56
502-12-7B Digital Runout Probe and Readout Kit.....	56
502-9-9A Mechanical Runout Indicator, Inch.....	57
502-9-9J Mechanical Runout Indicator, Metric	57
502-9-9S Indicator Mount	57
502-12-4A Magnetic Indicator Holder	57
502-12-4 General Purpose Magnetic Indicator Holder	57
650-3-44R Precision Connecting Rod Fixture System	58
650-3-64 HD Precision Connecting Rod fixture System.....	59



9116 Automatic Rotary Tool Changer.....	60
9234 EM105 Safety Enclosure	61

RPATH-4C Software Package

Next Generation Toolpath Software powered by 4C allows users to quickly and easily produce CNC toolpath programs for producing custom parts and fixtures. Intuitive Conversational programming with no G-code knowledge necessary for 2+1 axis machining.



Cutting Tools

Boring Tools

10118 Blind Hole Cutterhead Kit, 1 ½"-4.1" (38-104mm) x 7" (176mm)



Tool Diameter Range								
Cutterhead Diameter	Centerline Offset		6801A	6801B	6801C	6801D	6801E	6801F
1.5"	-0.655"	Min	1.50"	1.93"	2.30"	2.69"	3.10"	3.50"
		Max	2.02"	2.53"	2.90"	3.29"	3.70"	4.10"

10131 Blind Hole Cutterhead Kit, 2.92"-6.74" (74-171mm) Dia x 9 5/8" (245mm)

Tool Diameter Range							
Cutterhead Diameter	Centerline Offset		6593C	6593D	6520H (6598M)	6520A (6598M)	6520B (6598K)
2.88"	-1.080"	Min	2.92"	3.36"	3.48"	3.74"	5.57"
		Max	3.35"	3.79"	3.88"	4.24"	6.74"

10108B Blind Hole Cutterhead Kit, 2.92"-6.74" (74-171mm) Dia x 11 1/4" (286mm)

Tool Diameter Range							
Cutterhead Diameter	Centerline Offset		6593C	6593D	6520H (6598M)	6520A (6598M)	6520B (6598K)
2.88"	-1.080"	Min	2.92"	3.36"	3.48"	3.74"	5.57"
		Max	3.35"	3.79"	3.88"	4.24"	6.74"

10117 Blind Hole Cutterhead Kit, 5.63-9.34" (143-237mm) Dia

Tool Diameter Range									
Cutterhead Diameter	Centerline Offset		6259P	6259C	6259D	6259I	6259E	6259F	6259G
4.5"	-1.762"	Min	5.63"	5.73"	5.63"	5.63"	6.04"	7.04"	8.04"
		Max	6.64"	7.14"	7.64"	8.05"	7.34"	8.34"	9.34"

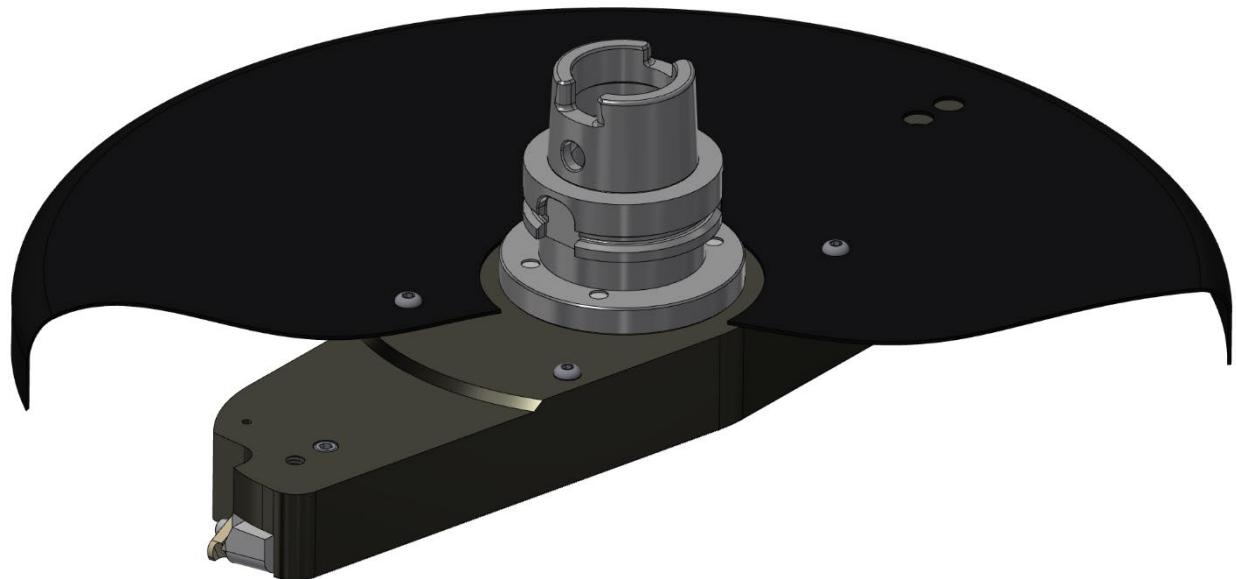
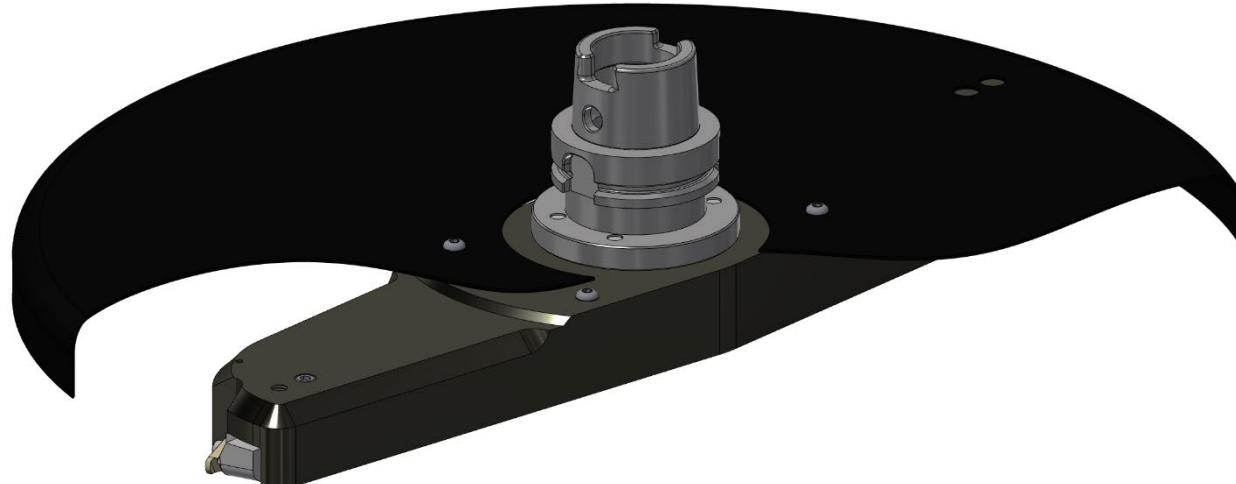
10107B Blind Hole Cutterhead Kit, 7 3/4" (197mm) Dia

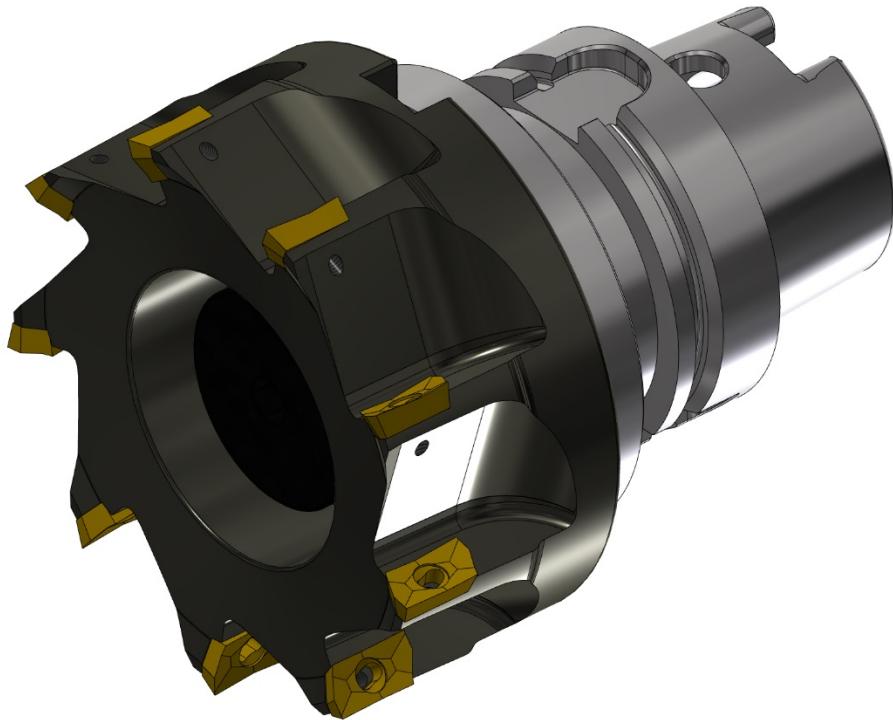
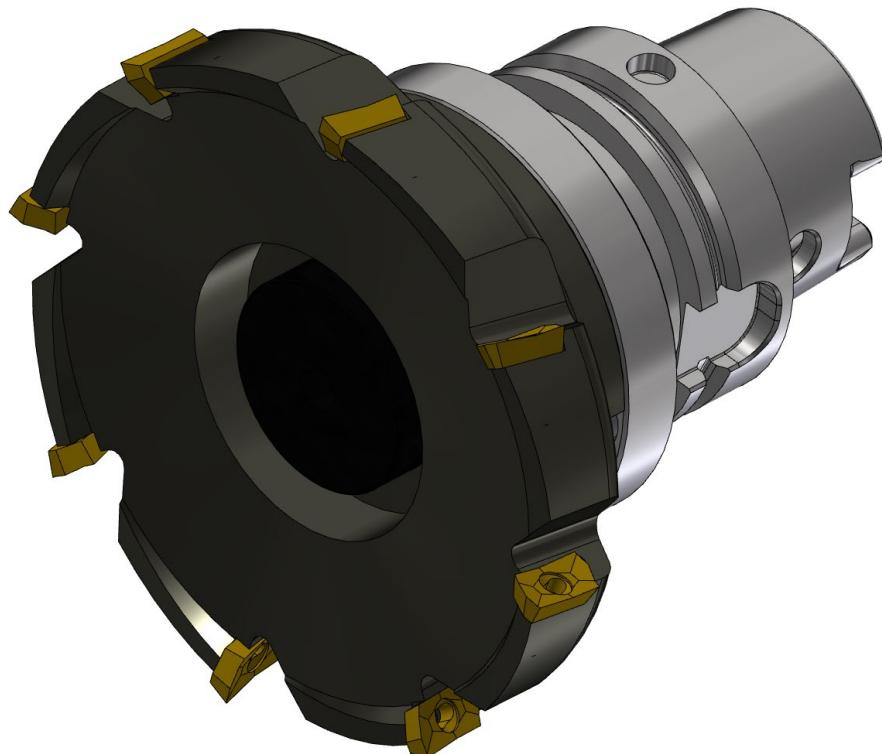
Tool Diameter Range										
Cutterhead Diameter	Centerline Offset		6259C	6259D	6259I	6259E	6259F	6259G	6259H	6259J
7.75"	-0.280"	Min	8.68"	8.58"	8.58"	8.99"	9.99"	10.99"	11.99"	12.99"
		Max	10.09"	10.59"	11.00"	10.29"	11.29"	12.29"	13.29"	14.29"

10104B Blind Hole Cutterhead Kit, 12" (305mm) Dia

Tool Diameter Range								
Cutterhead Diameter	Centerline Offset		6259C	6259D	6259I	6259E	6259F	6259G
12"	1.570"	Min	12.10"	12.10"	12.10"	12.51"	13.51"	14.51"
		Max	13.61"	14.11"	14.52"	13.81"	14.81"	15.81"

Surfacing Tools**10119 Surfacing Flycutter Kit, 10" (254mm) Dia****10106C Surfacing Flycutter Kit, 14" (356mm) Dia**

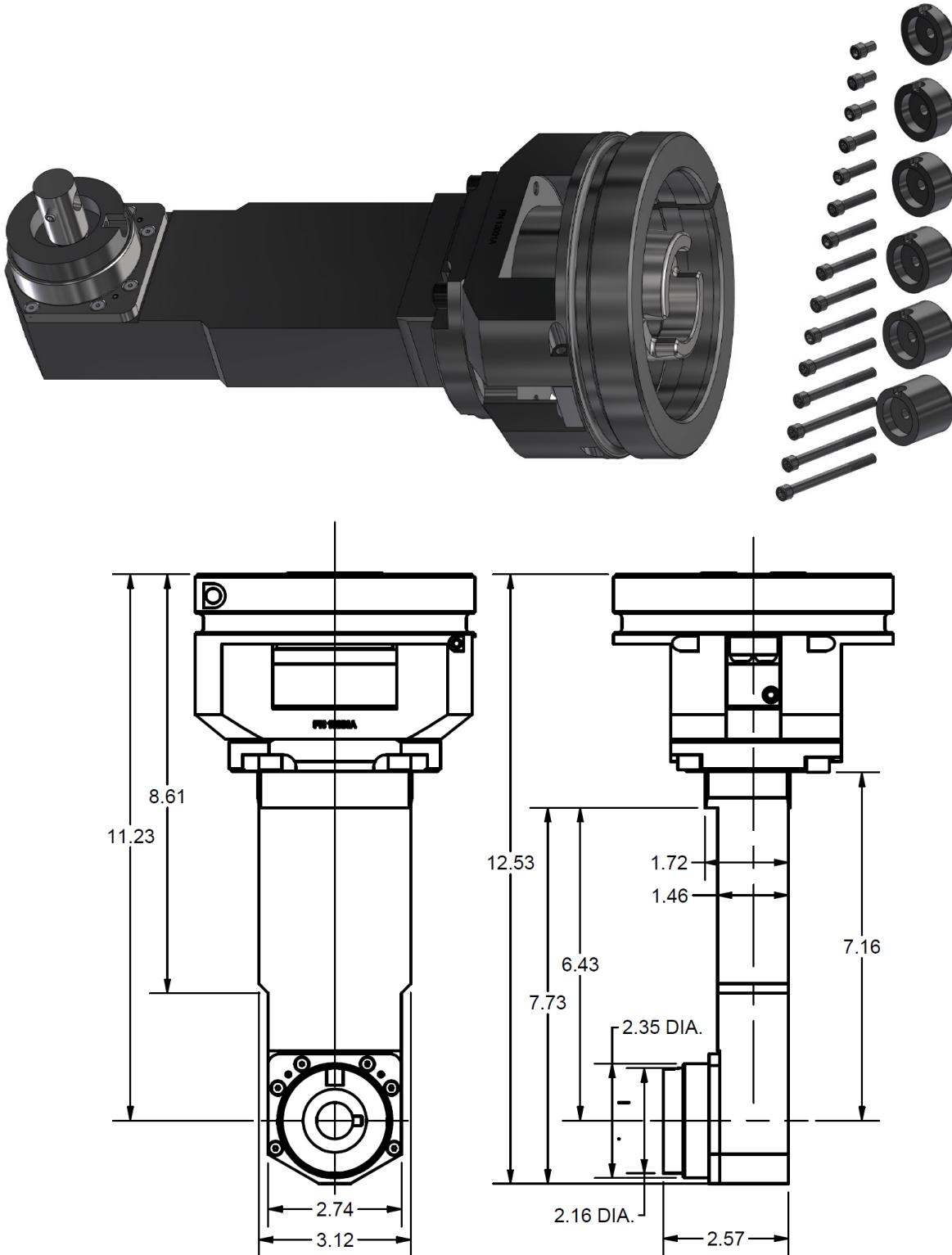
10115 Surfacing Flycutter Kit, 18" (457mm) Dia**10106B Surfacing Flycutter Kit, 22" (559mm) Dia**

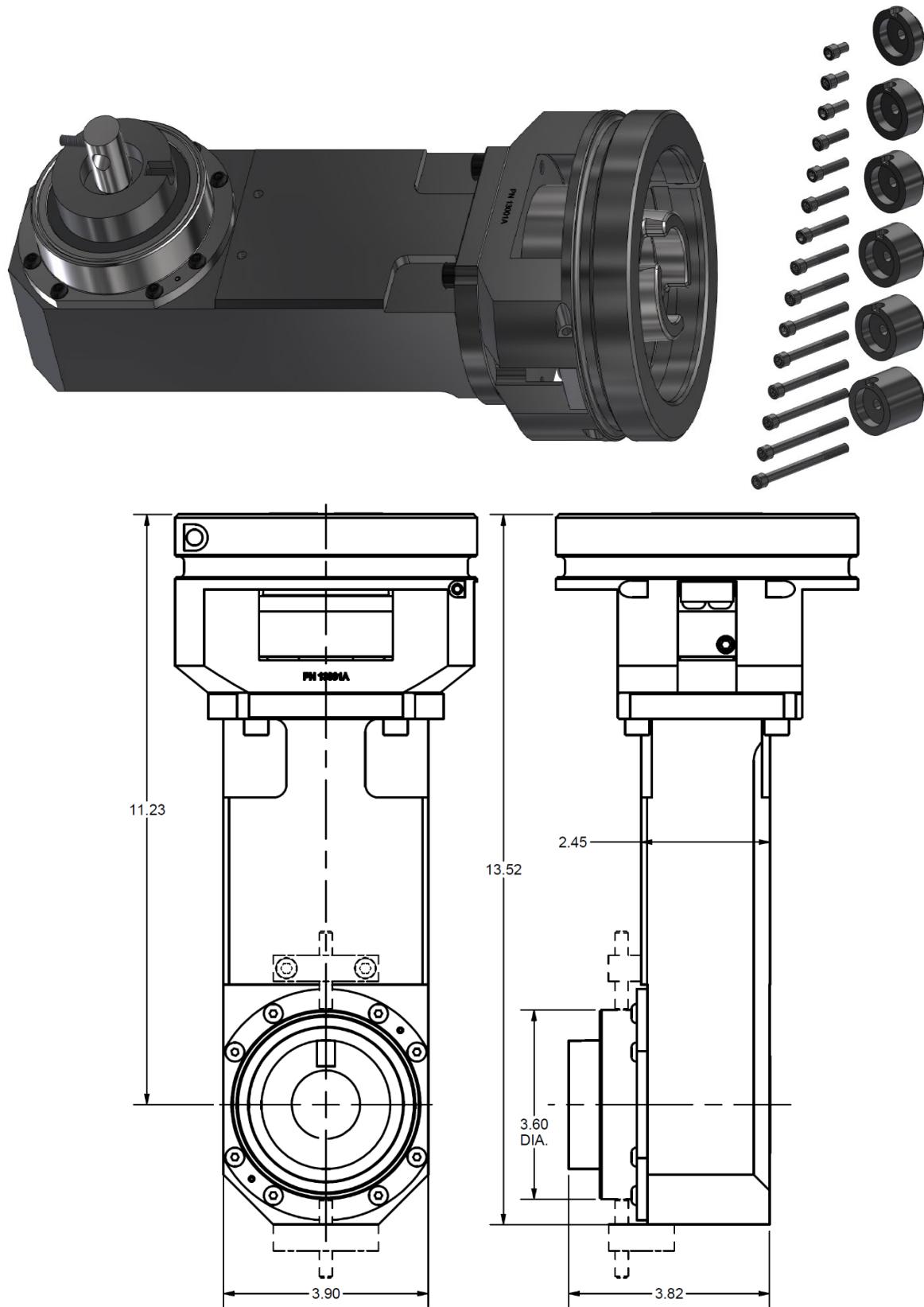
10129 Shell Mill Parts, 5" (127mm) Dia**10130 Shell Mill Parts, 6" (152mm) Dia**

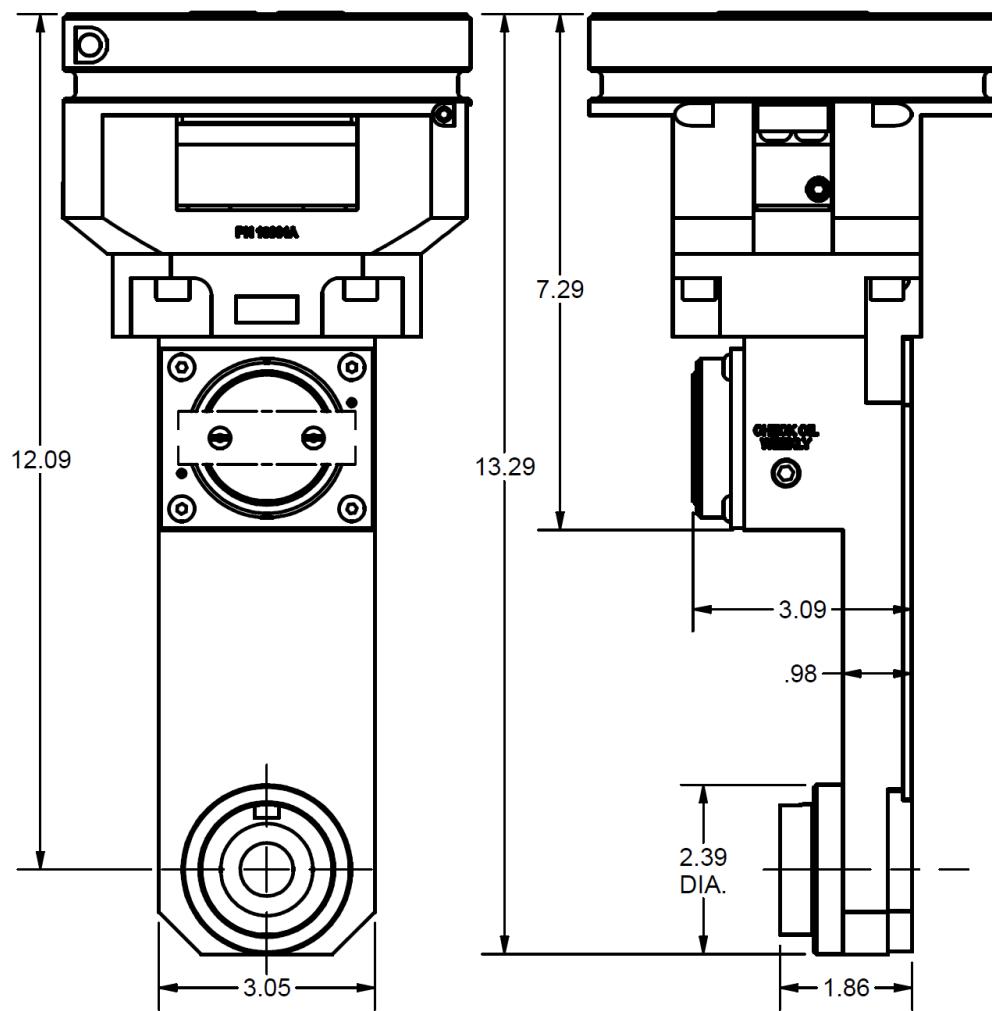
10109D Shell Mill Kit, 8" (203mm) Dia**10109B Shell Mill Kit, 18" (457mm) Dia**

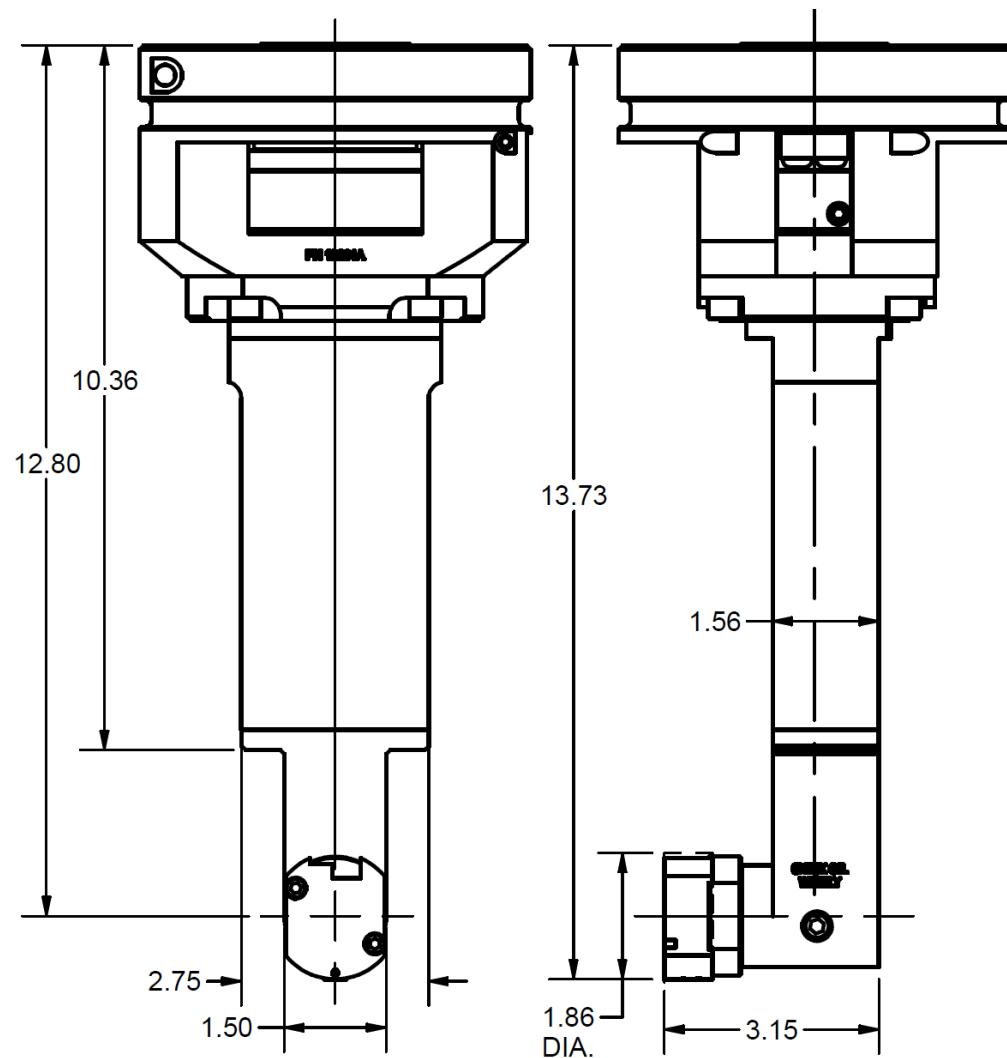
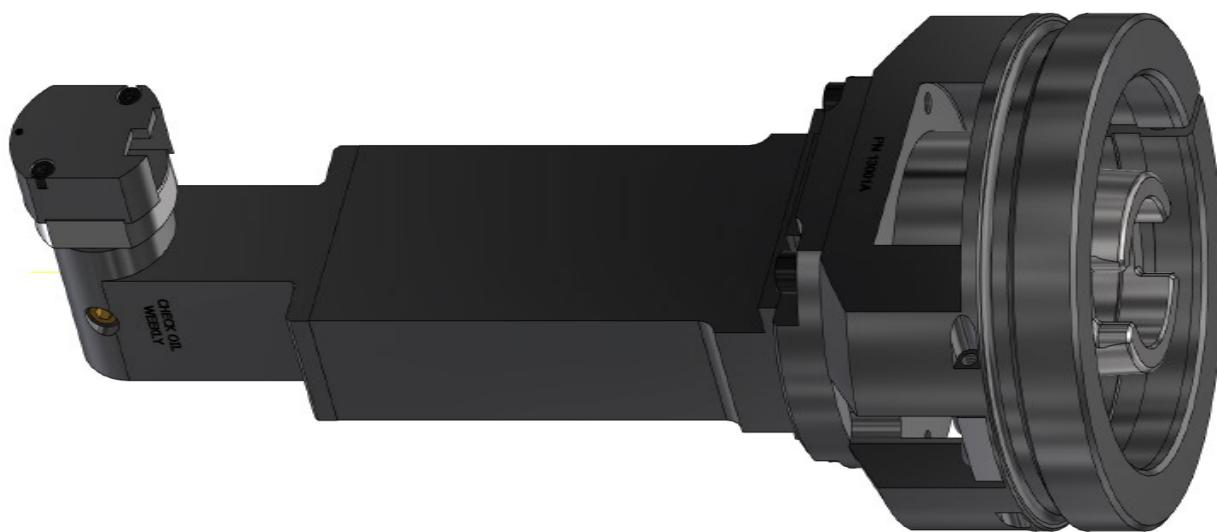
Right Angle Drives

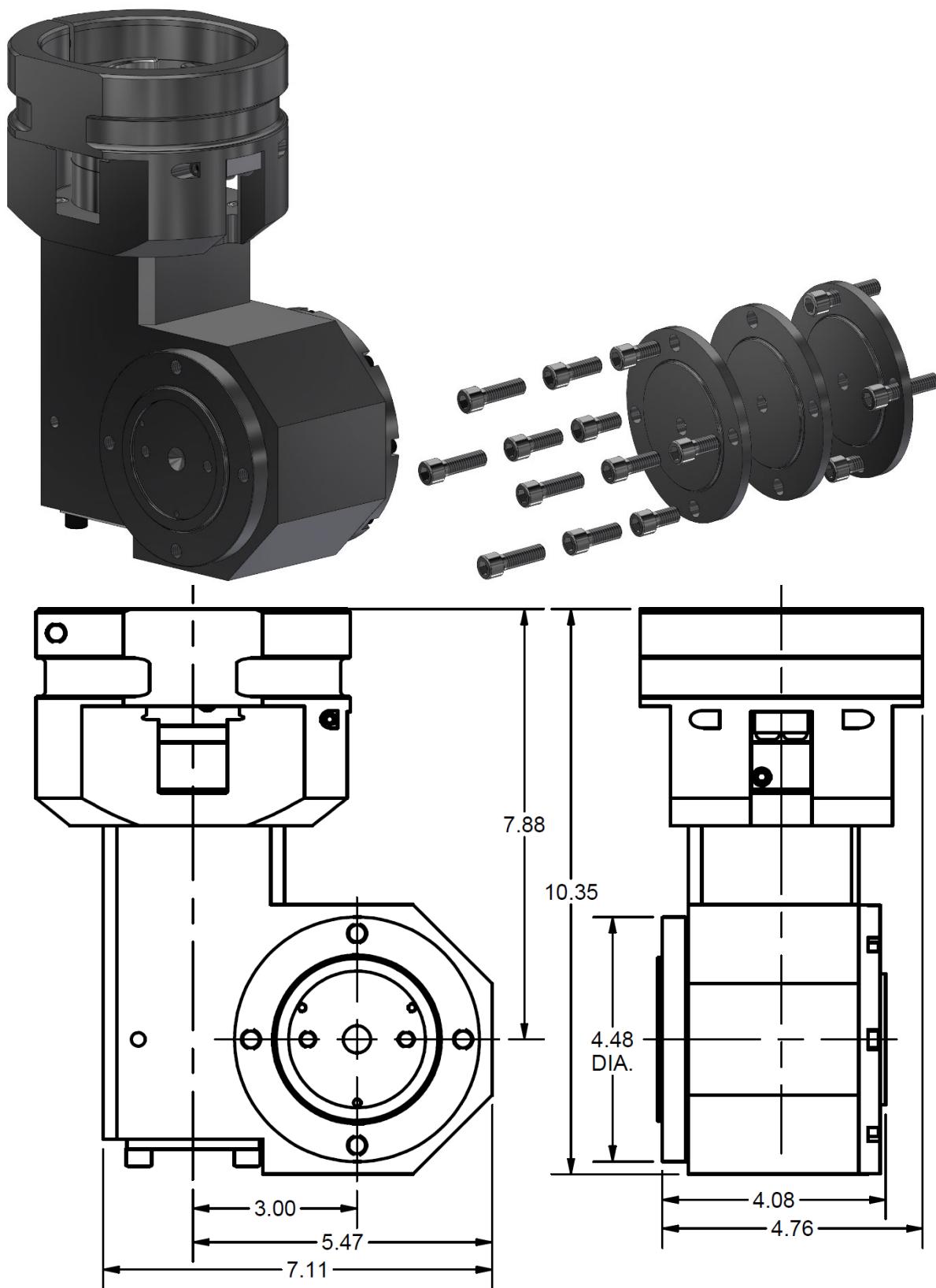
13001 Right Angle Drive, 2" Extended

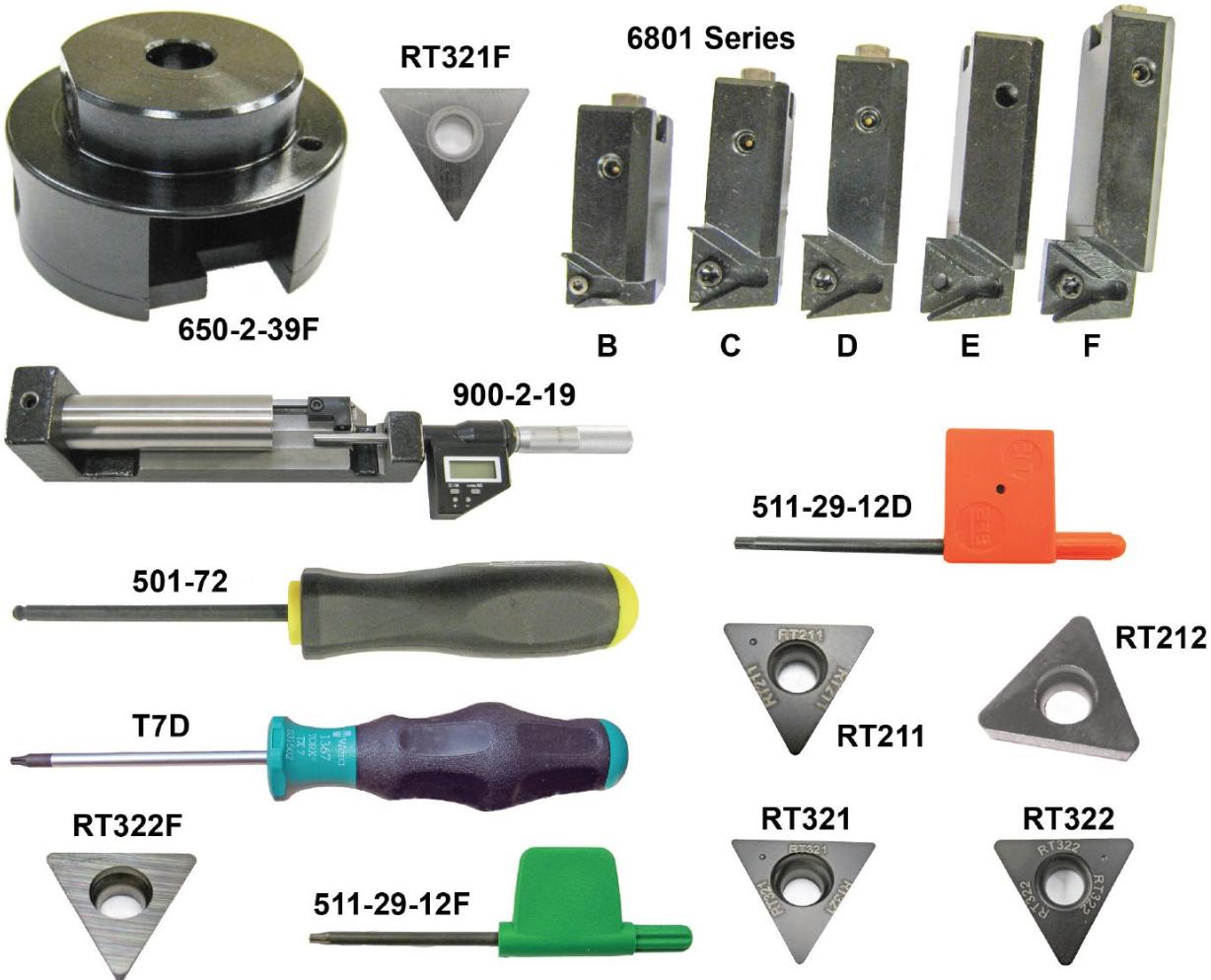


13002 Mid-Size Right Angle Drive

13003 Belt Driven Right Angle Drive

13004 Special Narrow Right Angle Drive

13000 Heavy Duty Offset Right Angle Drive

Right Angle Drive Accessories**650-2-39B Line Boring Cutterhead Kit, 1.94-4.11" (49.28-104.39mm) Dia**

Tool Diameter Range							
Cutterhead Diameter	Centerline Offset		6801B	6801C	6801D	6801E	6801F
1.9"	-0.650"	Min	1.94"	2.31"	2.70"	3.11"	3.51"
		Max	2.54"	2.91"	3.30"	3.71"	4.11"

650-2-39C Line Boring Cutterhead Kit, 2.82-5.52" (71.63-140.21mm) Dia

Tool Diameter Range									
Cutterhead Diameter	Centerline Offset		6801C	6801D	6801E	6801F	6801G	6801H	6801J
2.82"	-0.500"	Min	2.82"	2.99"	3.40"	3.80"	4.20"	4.63"	4.92"
		Max	3.20"	3.59"	4.00"	4.40"	4.80"	5.23"	5.52"

650-2-39A Line Boring Cutterhead Kit, 5.4-8.1" (137-206mm) Dia**501-72J****501-72****650-2-39E****T8D****900-2-19****511-29-12F****511-29-12D****6801 Series****E****F****G****H****RT211****RT212****RT321****RT322****RT321F****RT322F**

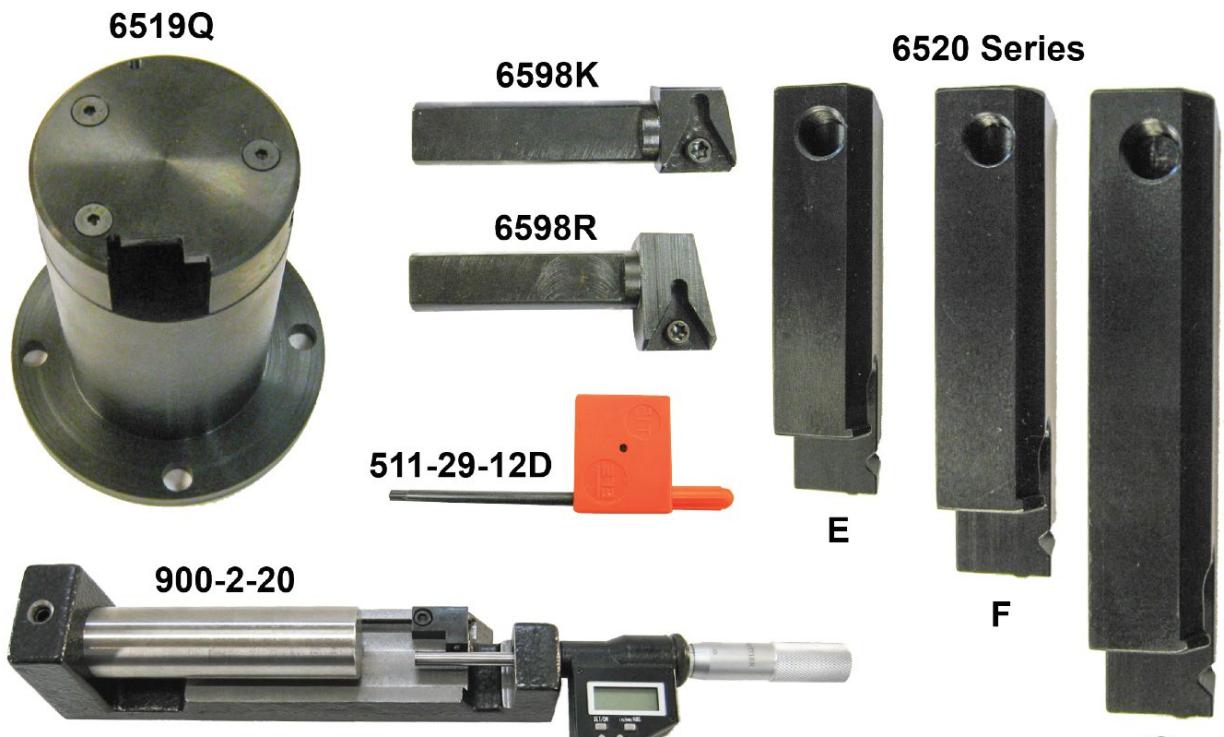
Tool Diameter Range									
Cutterhead Diameter	Centerline Offset		6801B	6801C	6801D	6801E	6801F	6801G	6801H
5.4"	0.960"	Min	5.4"	5.46"	5.85"	6.26"	6.66"	7.06"	7.49"
		Max	5.69"	6.06"	6.45"	6.86"	7.26"	7.66"	8.09"

6519V Heavy Duty Line Bore Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 3" (76mm)

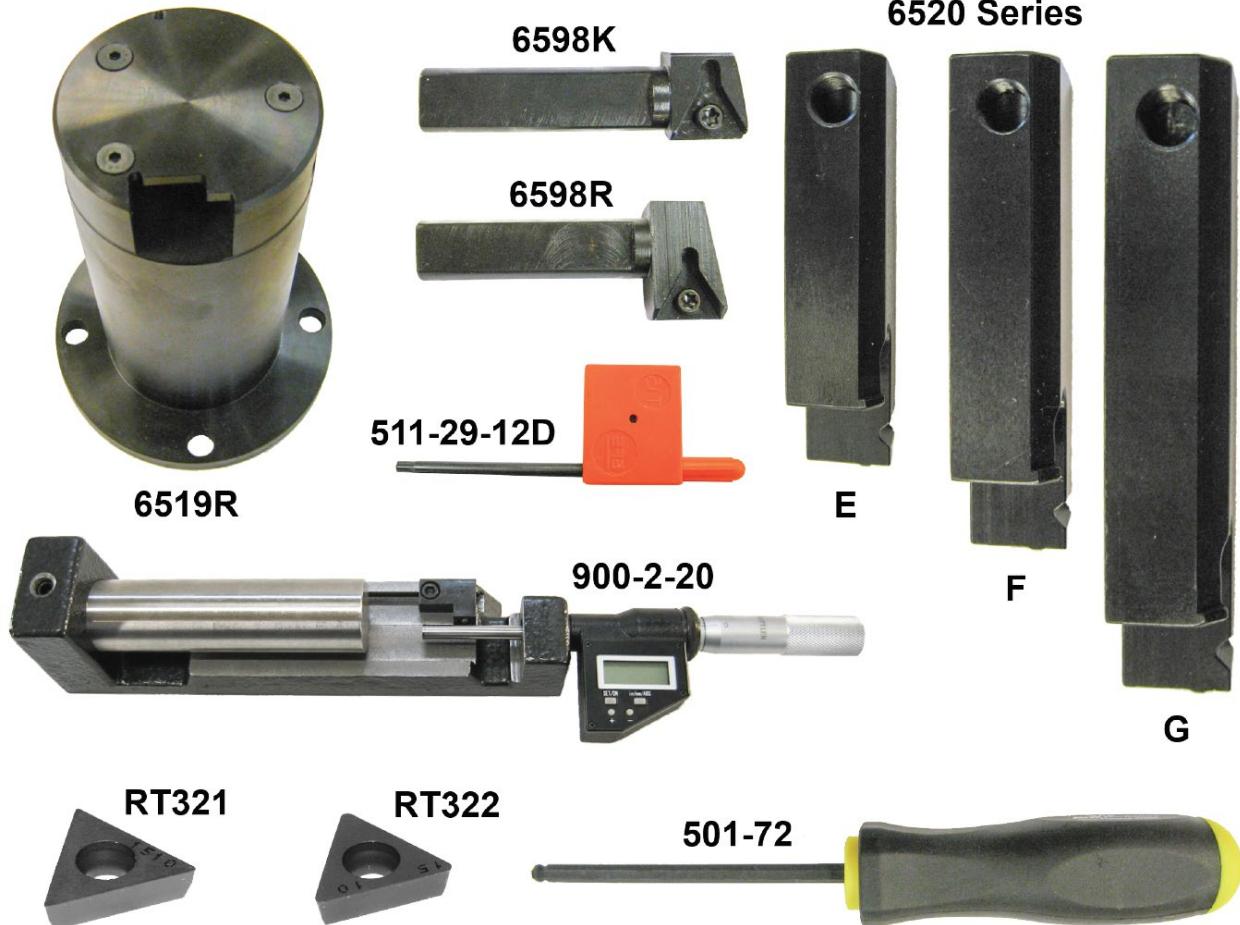
Tool Diameter Range					
Cutterhead Diameter	Centerline Offset		6520E	6520F	6520G
2.88"	-1.080"	Min	5.74"	6.24"	7.24"
		Max	8.34"	8.84"	9.84"

**6519P Heavy Duty Line Bore Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 4.25"
(108mm)**

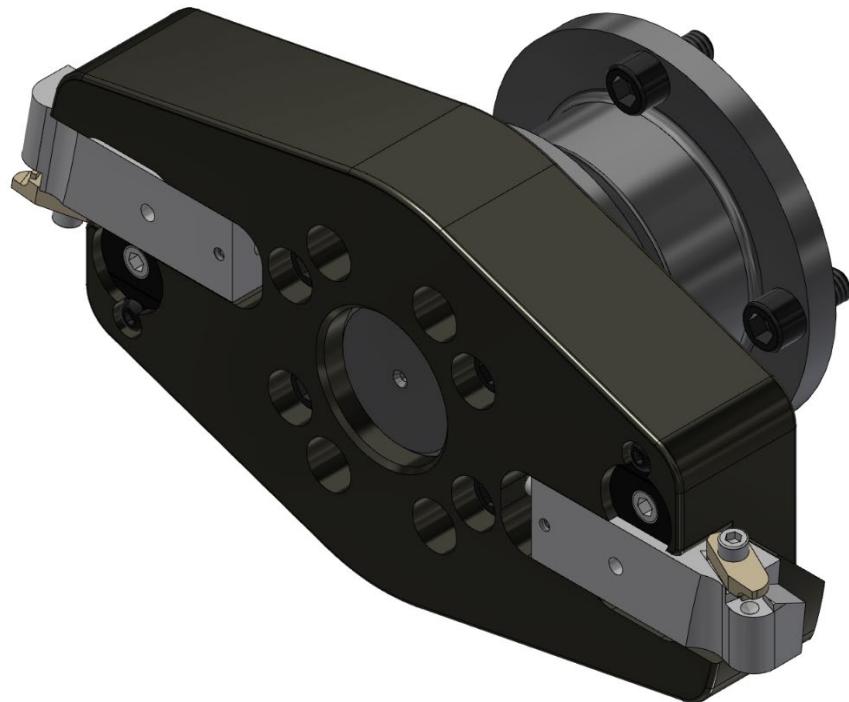

Tool Diameter Range					
Cutterhead Diameter	Centerline Offset		6520E	6520F	6520G
2.88"	-1.080"	Min	5.74"	6.24"	7.24"
		Max	8.34"	8.84"	9.84"

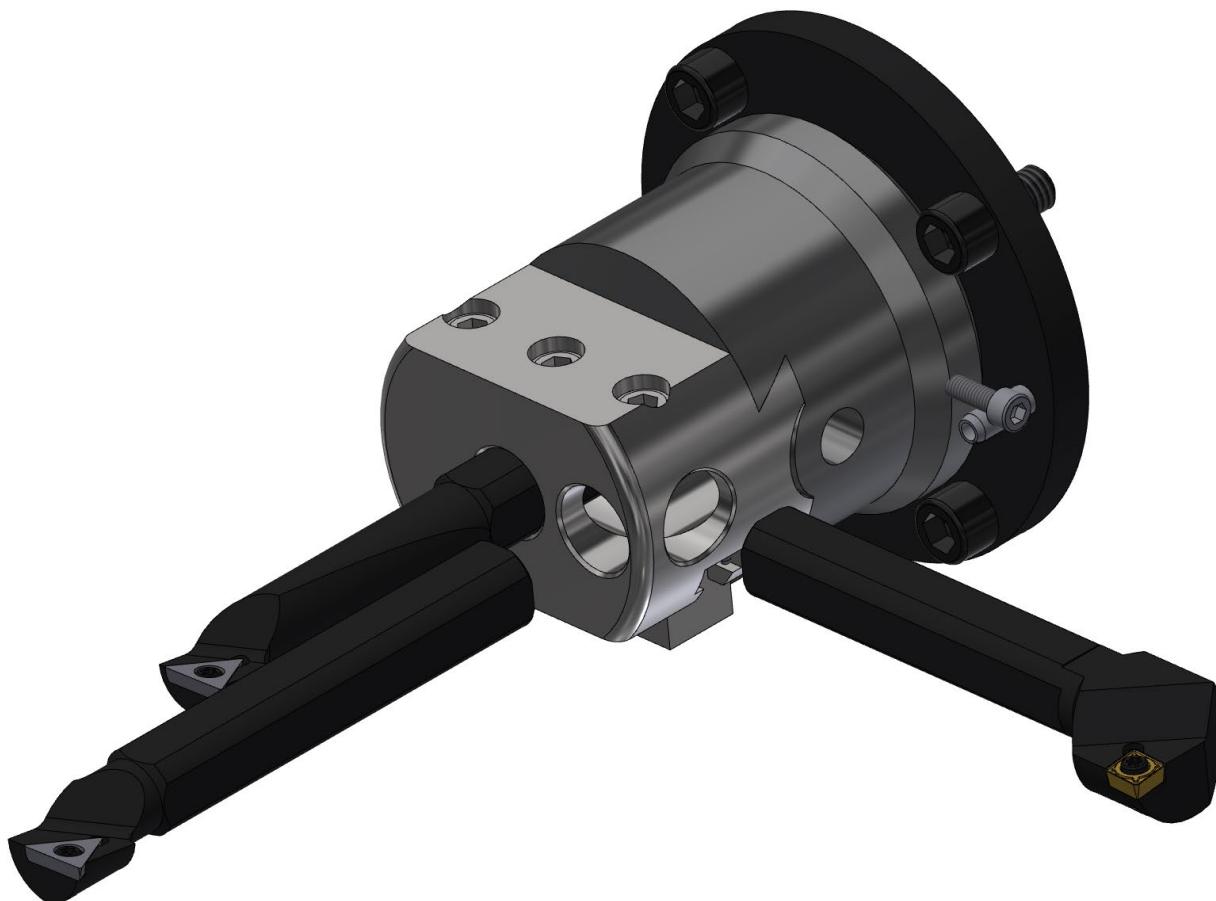
**6519M Heavy Duty Line Bore Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 5.1"
(130mm)**


Tool Diameter Range					
Cutterhead Diameter	Centerline Offset		6520E	6520F	6520G
2.88"	-1.080"	Min	5.74"	6.24"	7.24"
		Max	8.34"	8.84"	9.84"

6519N Heavy Duty Line Bore Cutterhead Kit, 5.74-9.84" (145.8-249.9mm) Dia x 6" (152mm)

Tool Diameter Range					
Cutterhead Diameter	Centerline Offset		6520E	6520F	6520G
2.88"	-1.080"	Min	5.74"	6.24"	7.24"
		Max	8.34"	8.84"	9.84"

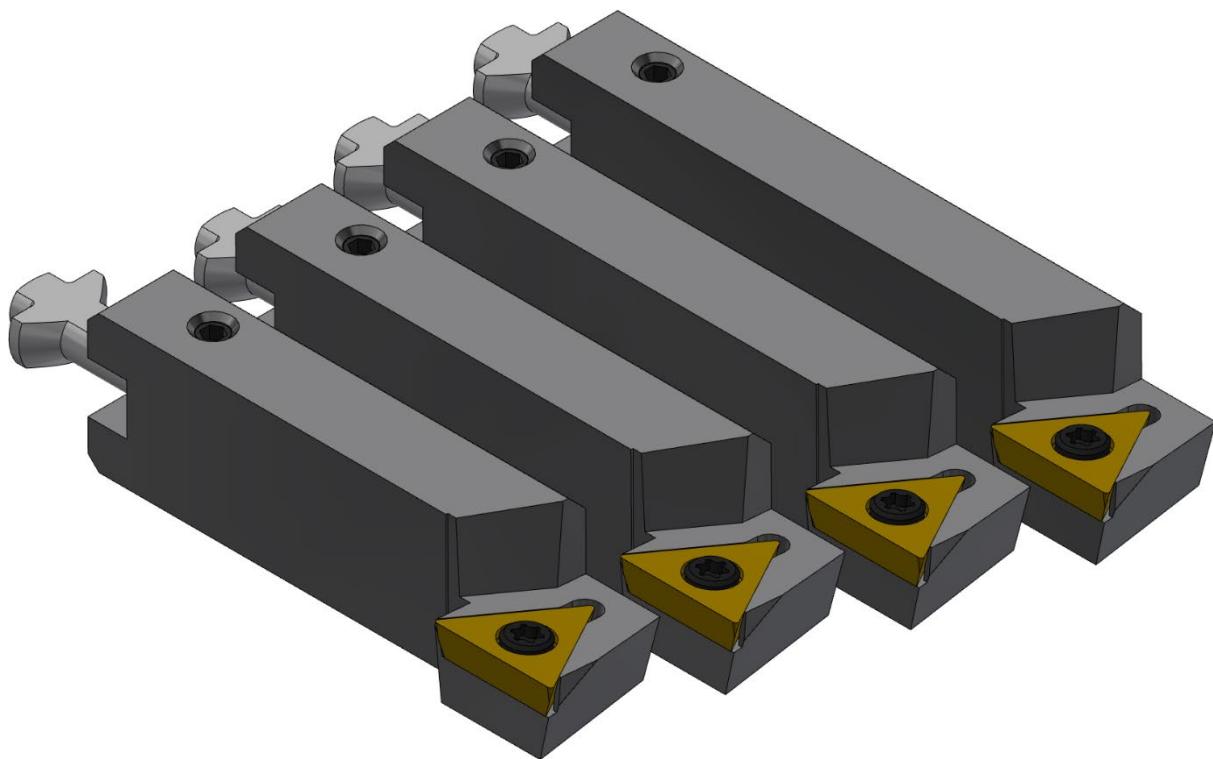
6779L Flycutter Kit for Right Angle Drive, 10" (254mm) Dia**6779M Flycutter Kit for Right Angle Drive, 14" (356mm) Dia**

6779N Crossfeed Head Kit for Right Angle Drive**6855C Thrust Facing Tooling Package**

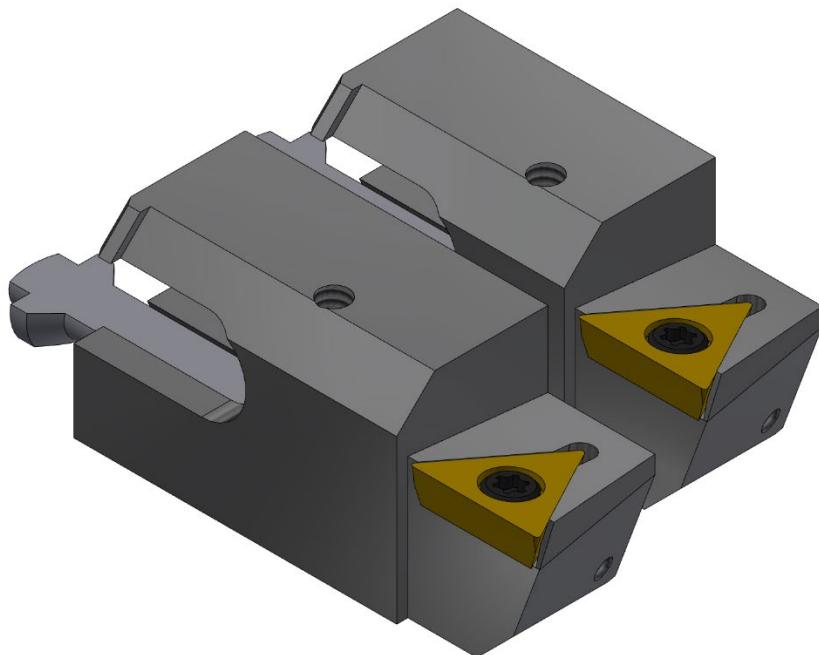
6779H CAT 40 Adapter Kit for Right Angle Drive

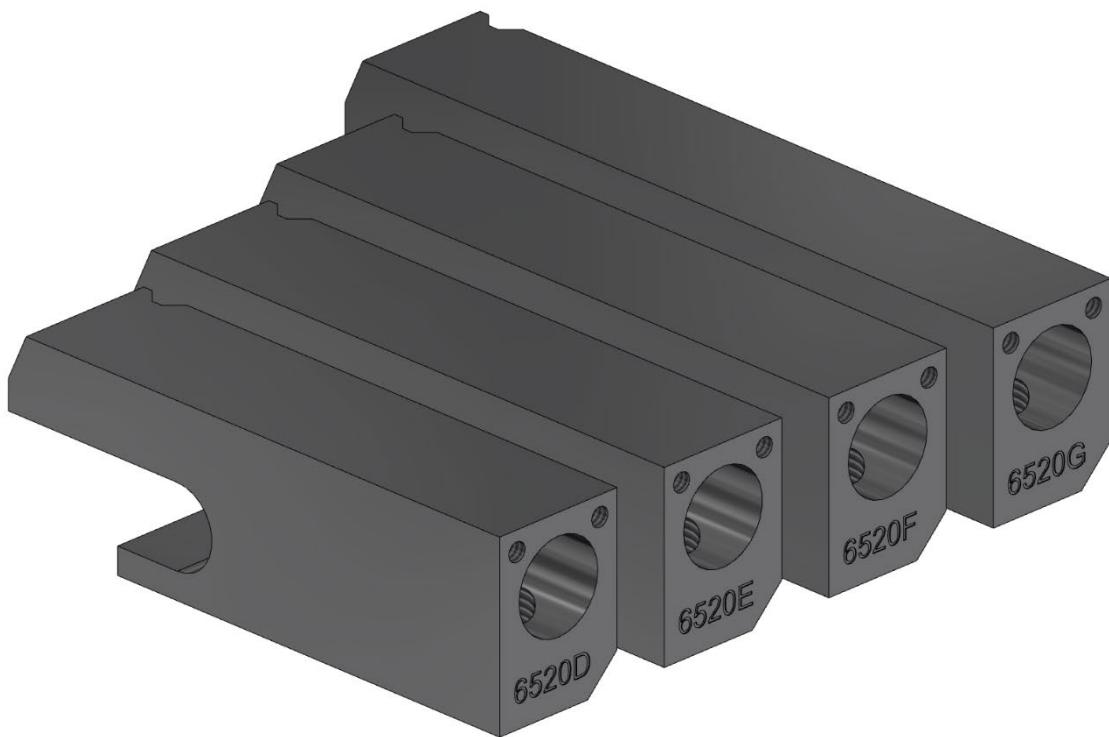
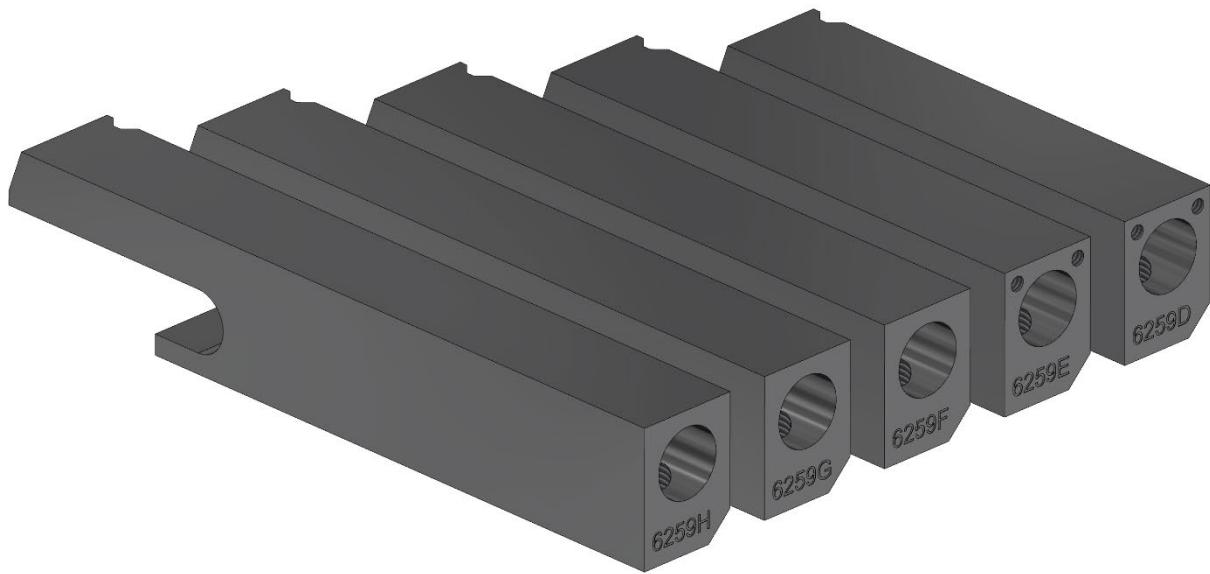
Insert Holders

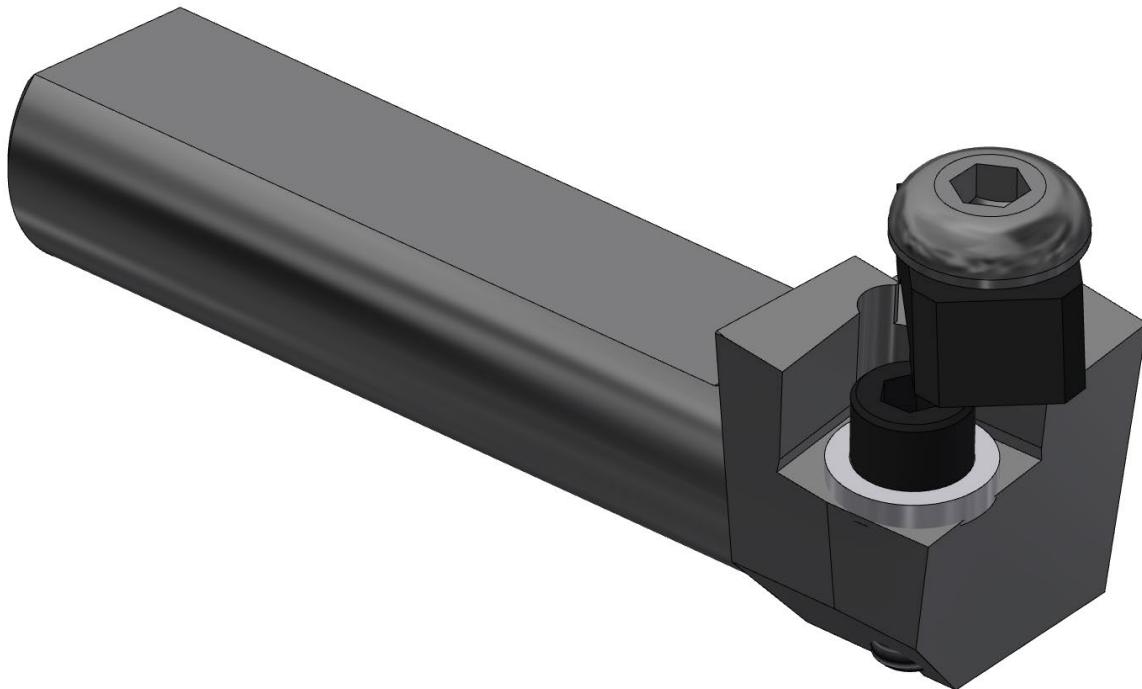
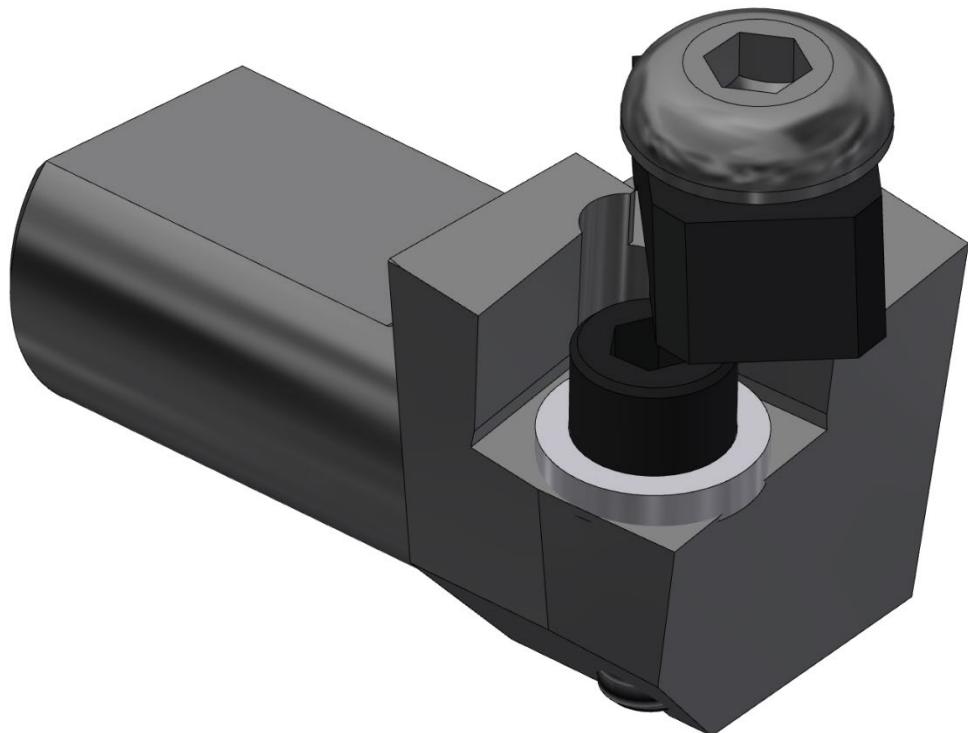
6801 Series Insert Holders

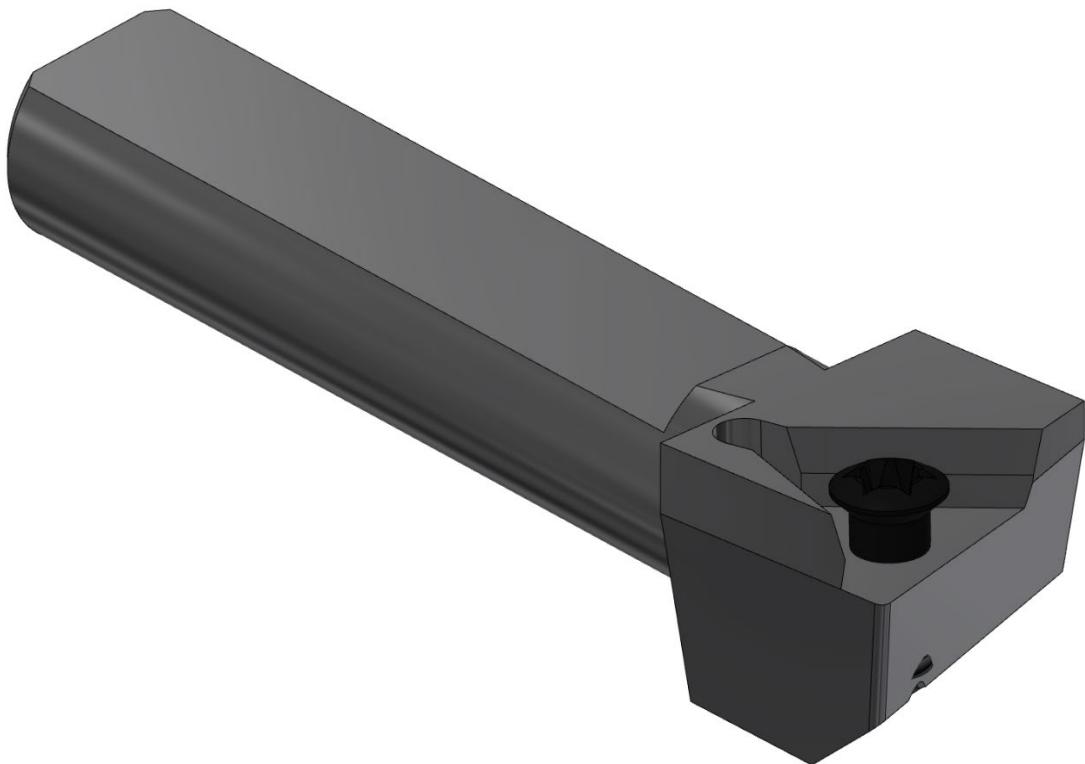


6593 Series Insert Holders



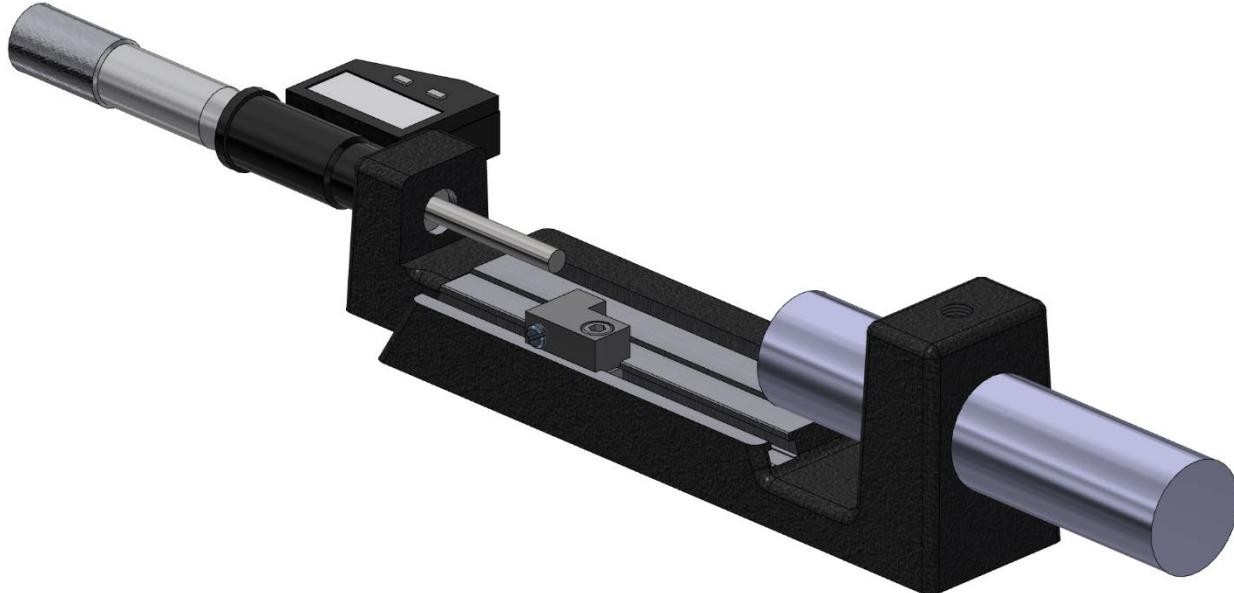
6520 Series Toolholders**6259 Series Toolholders**

6206L Tool Cartridge**6206M Tool Cartridge**

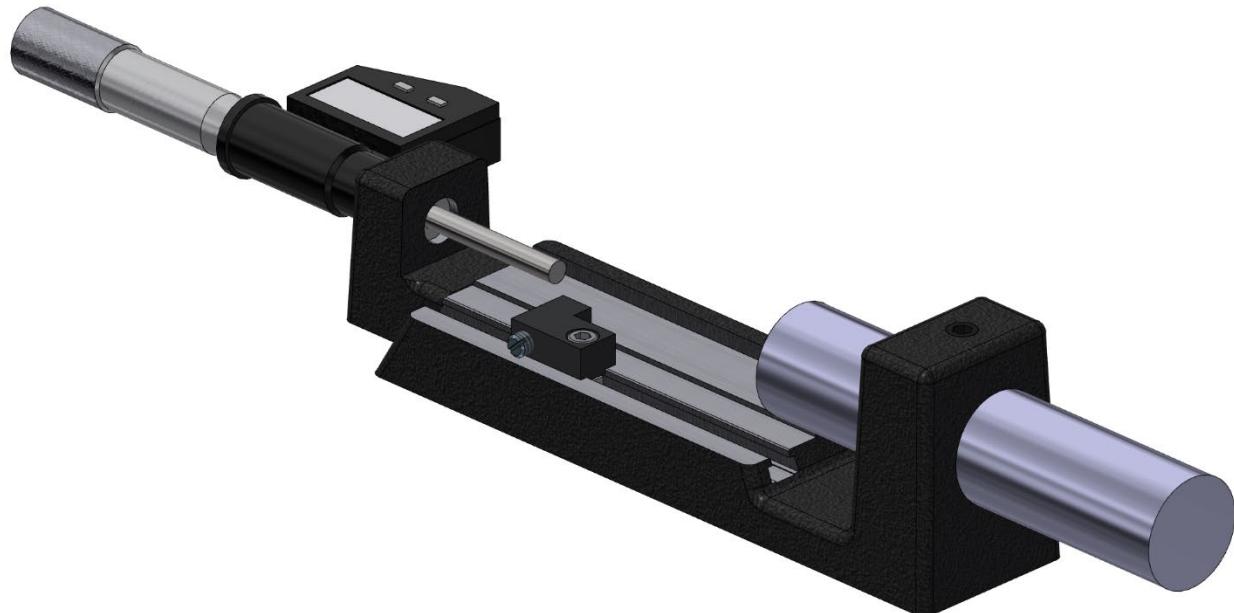
6593S Insert Cartridge**6598 Series Insert Cartridges**

Micrometers

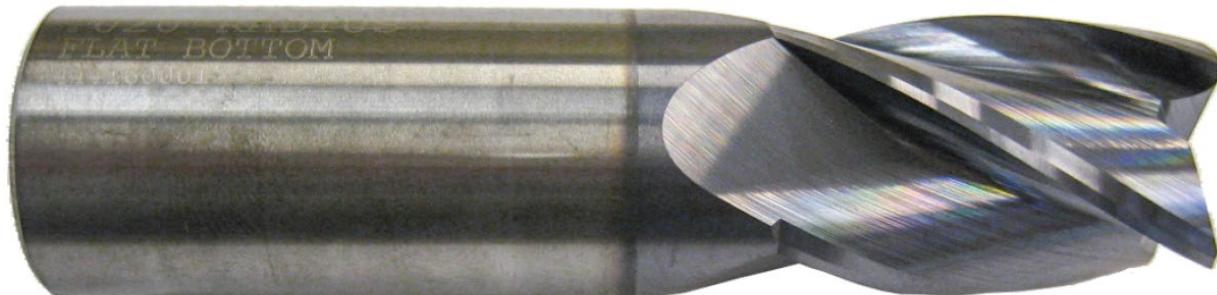
900-2-19 Tool Setting Micrometer, $\frac{1}{2}$ " Tooling



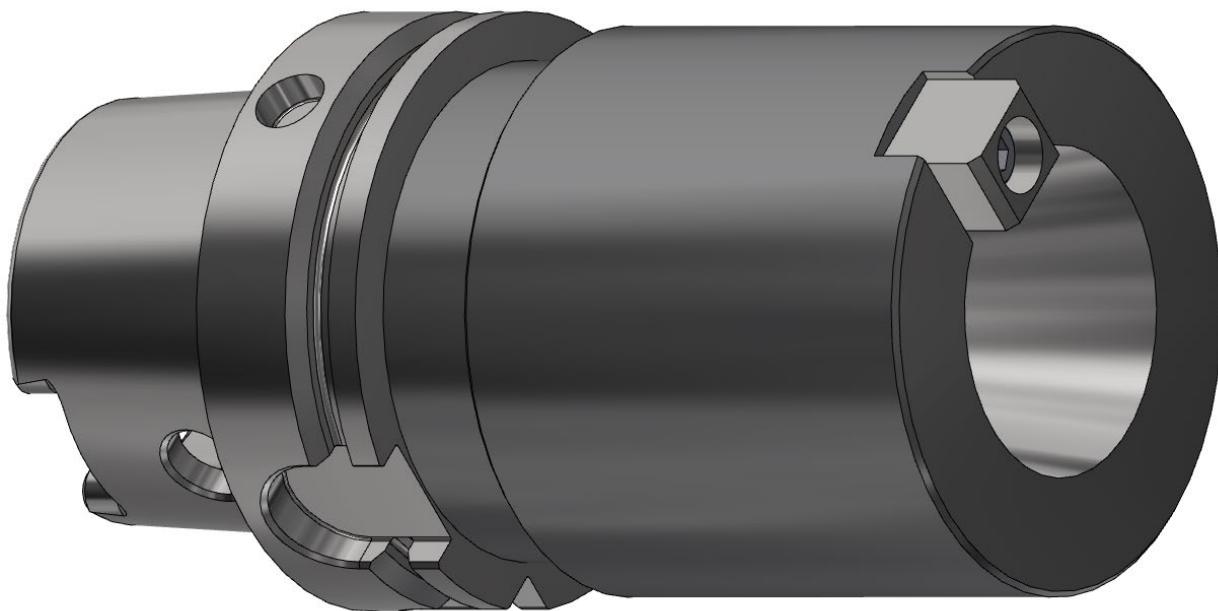
900-2-20 Tool Setting Micrometer, $\frac{3}{4}$ " Tooling

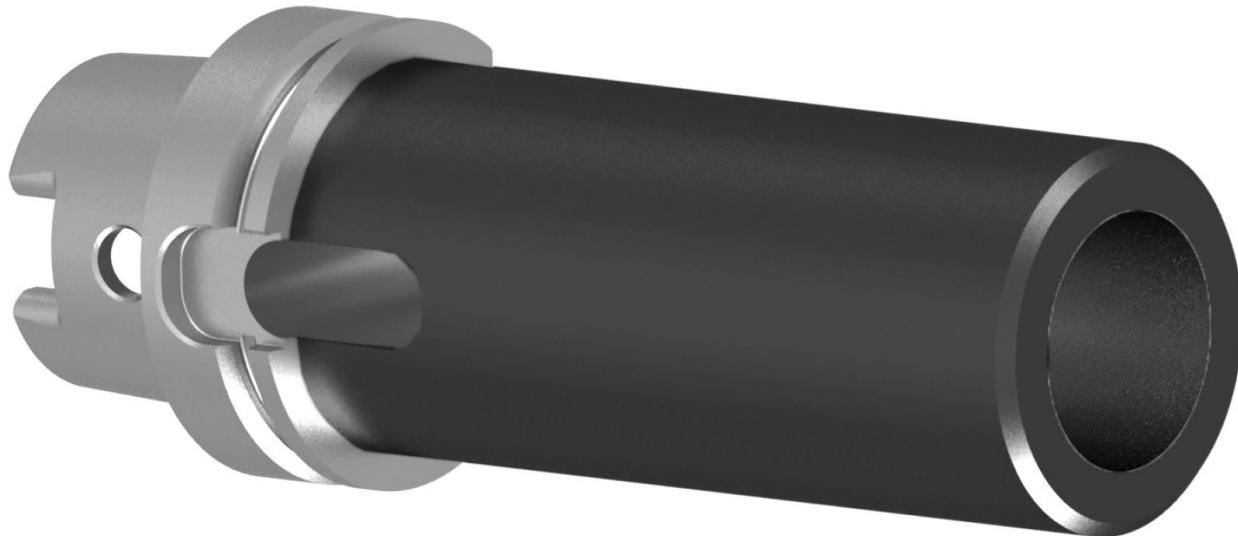


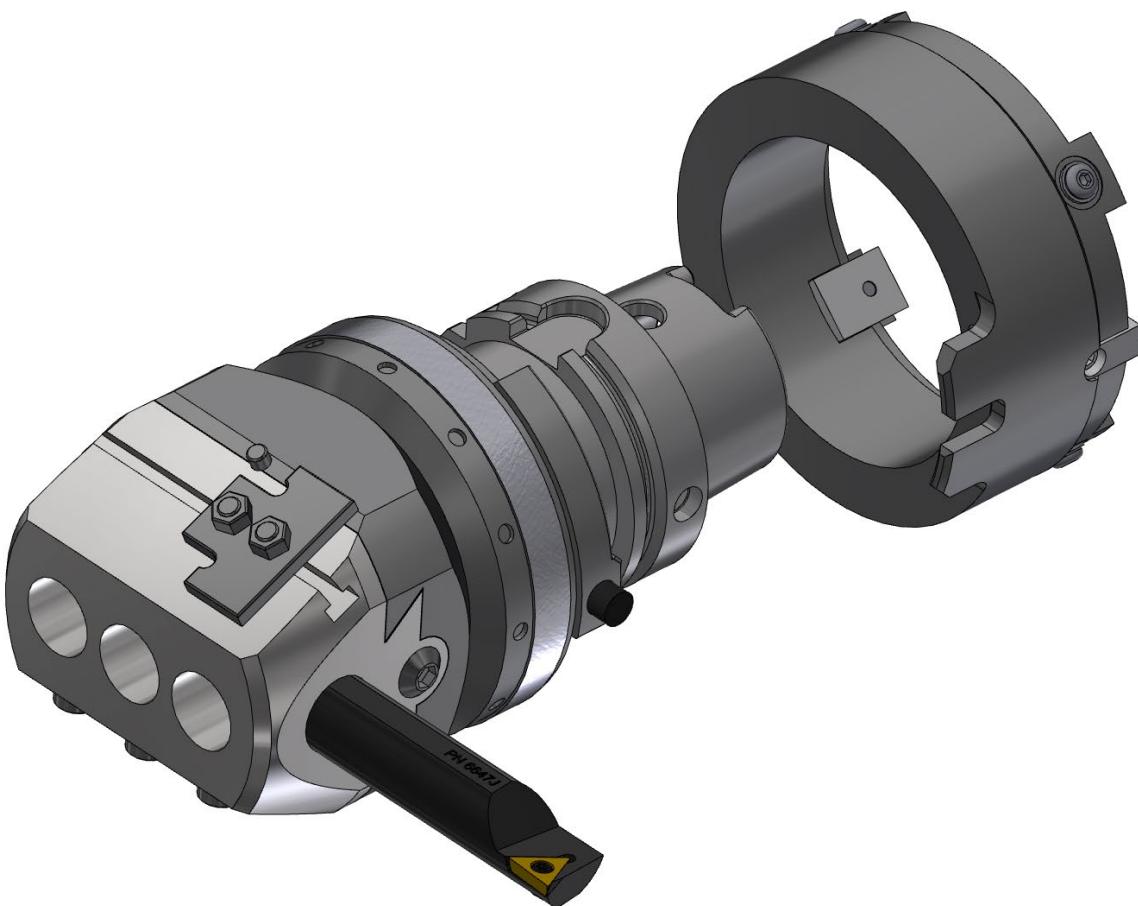
General Purpose Tooling**10121A Caterpillar 3400 Series Tappet Bore Repair Tooling Package**

10124 Collet Kit**650-2-45G Carbide End Mill, 1" (25.4mm) Dia x 4.00" (101.4mm)****650-2-43F Four Fluted End Mill, 3/4" (19.05mm) x 4.00" (101.4mm)**

10113 Spindle Adapter for 1.0" (25.4mm) Diameter Shank Tooling**10113A Spindle Adapter for 0.75" (19.05mm) Diameter Shank Tooling****10125 Adapter, Blank**

10126 CAT 40 Taper Adapter**10127 R8 Taper Adapter**

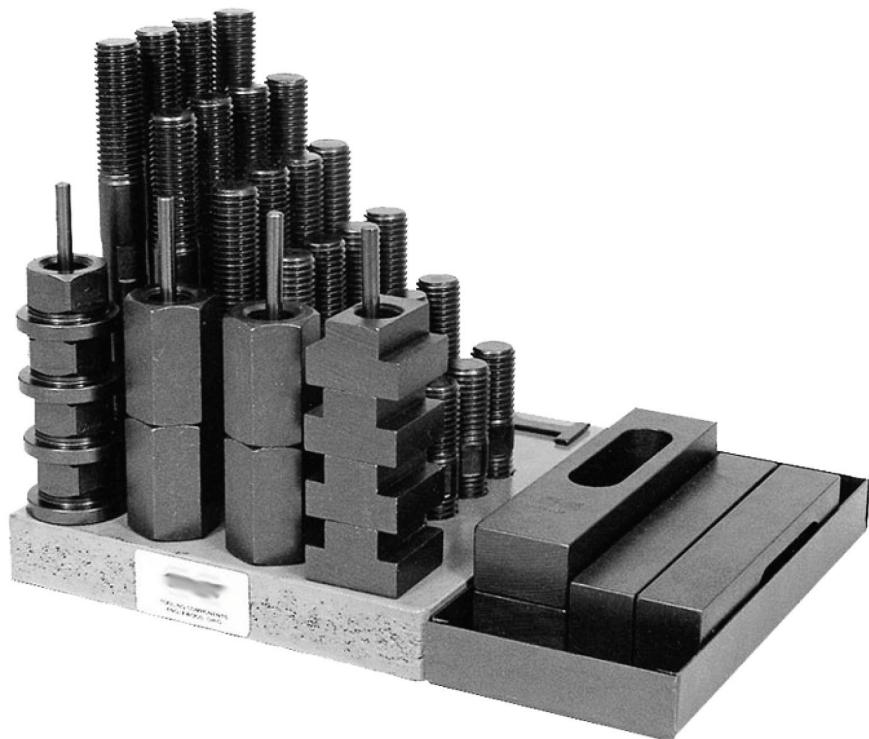
10128 #5 Morse Taper Adapter**10122 Small Precision Adjustable Boring Head Kit**

6900B Cross Feed Head Assembly

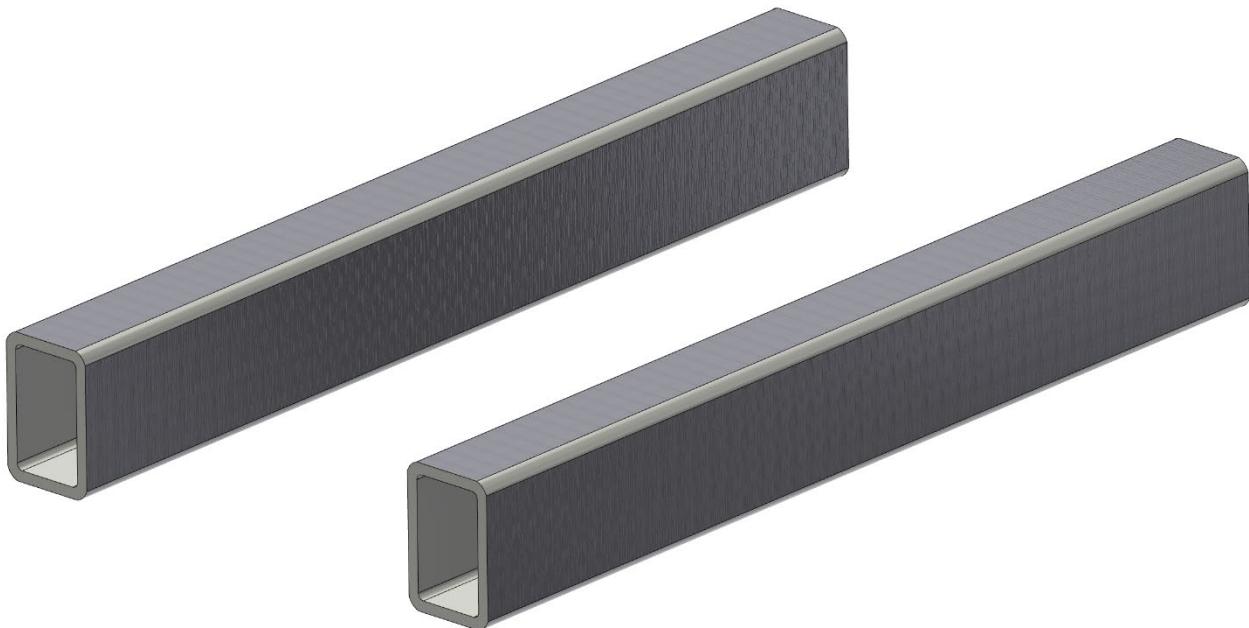
Fixturing

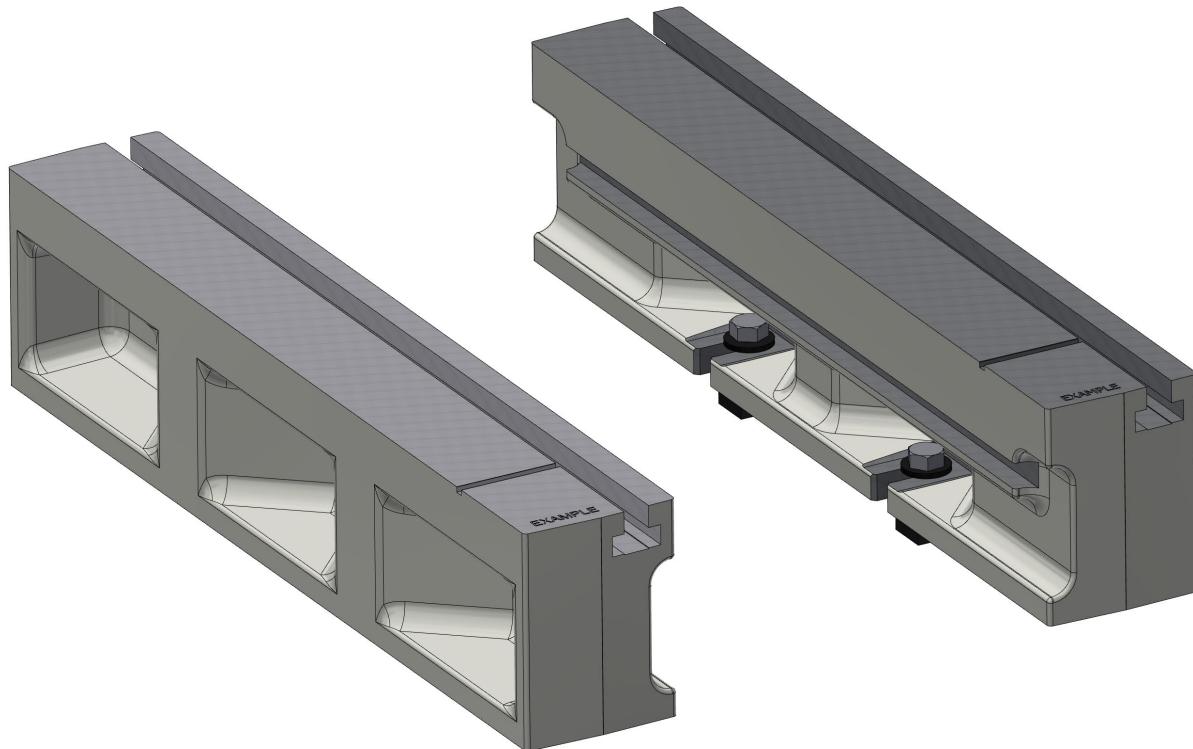
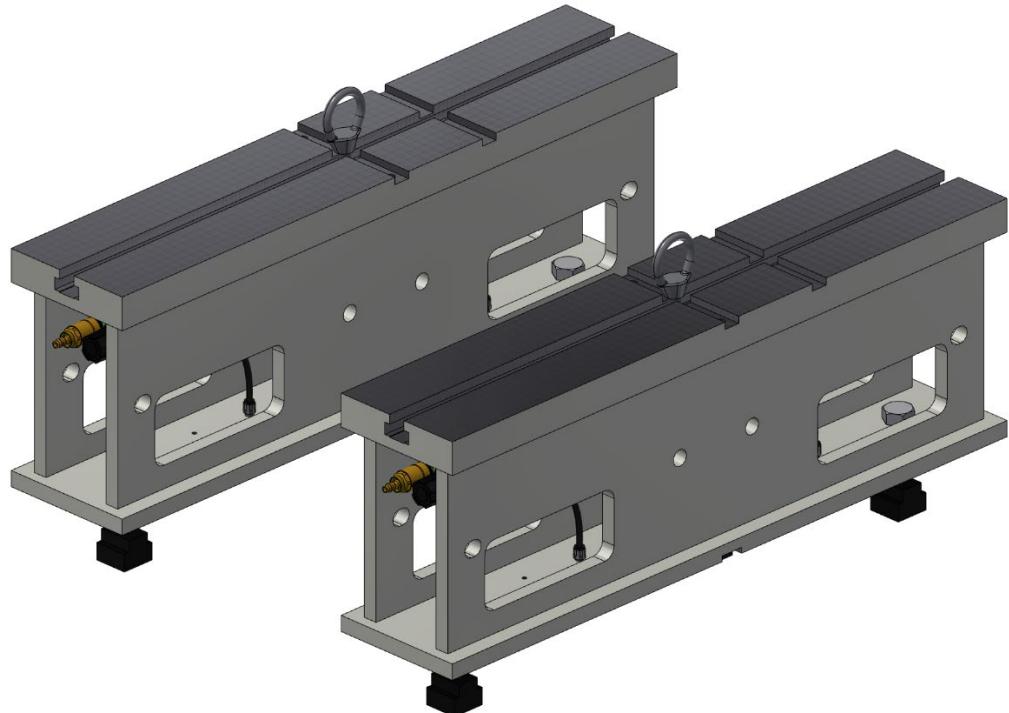
Parallels

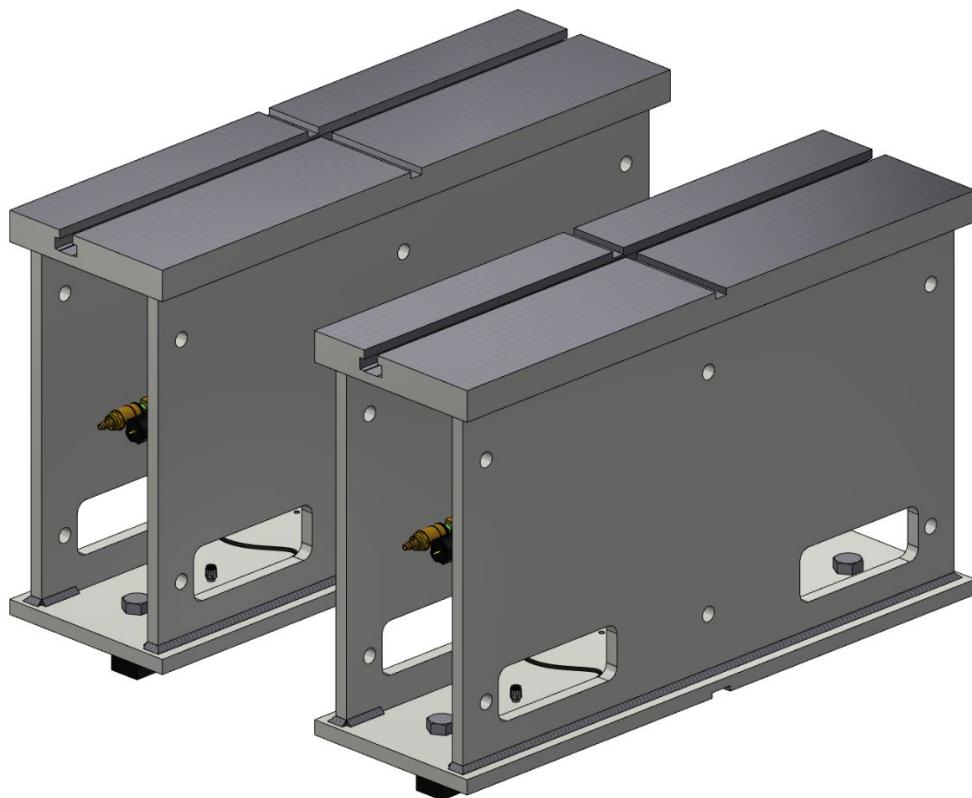
6511 ¾" (19.05mm) Clamp Kit



11115 Parallels, 2" x 3" (51mm x 76mm)

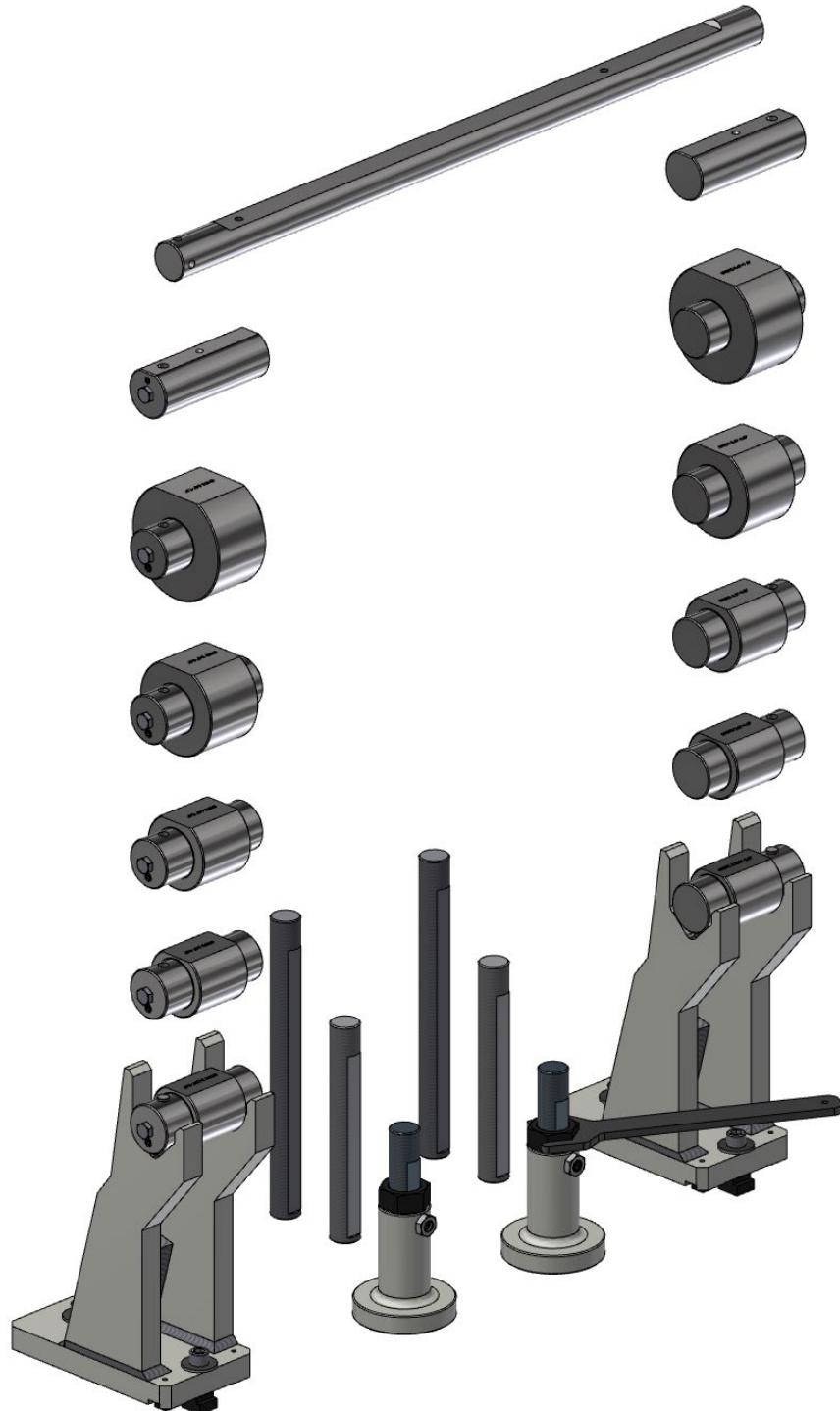


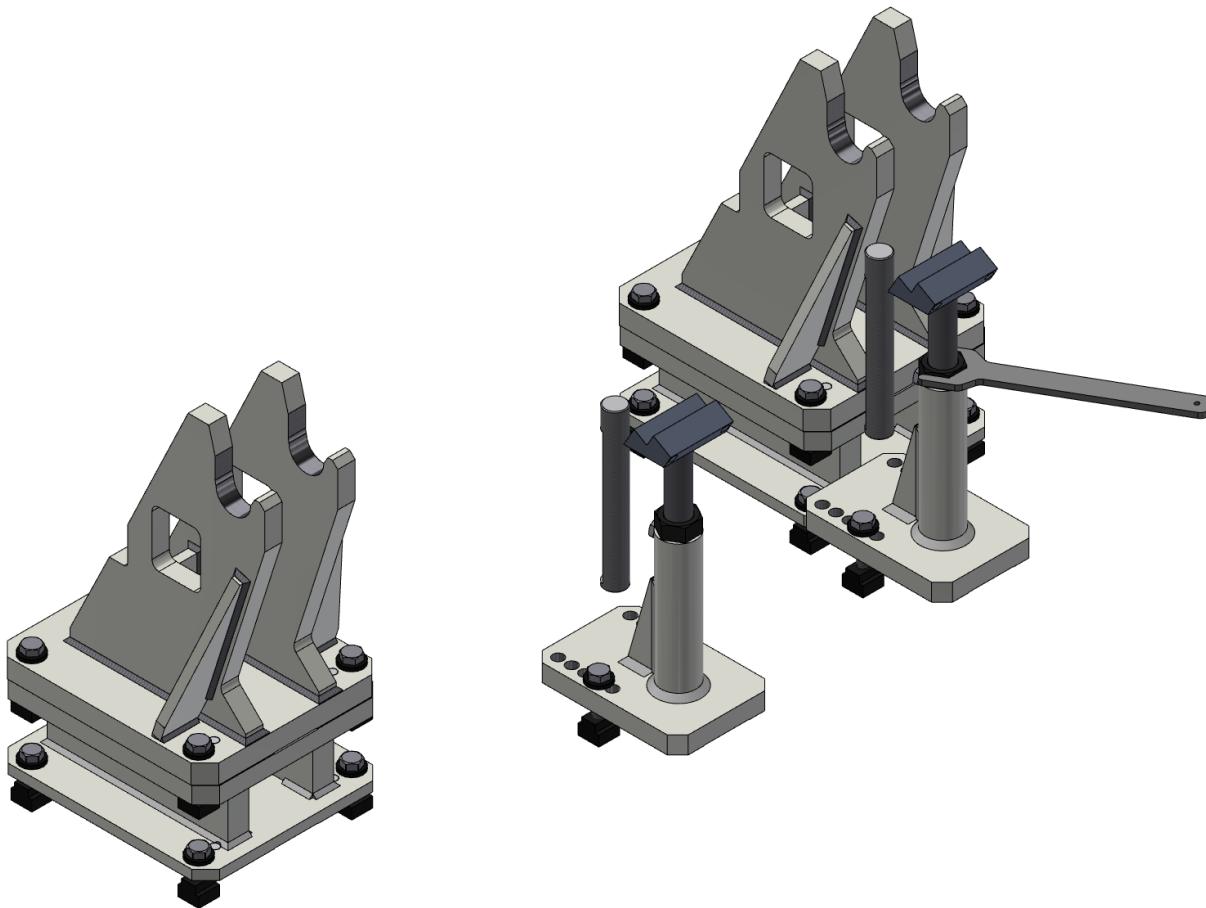
7219W Parallels, 5.2" (132mm)**6370Z Parallels, 10" (254mm)**

6370C Parallels, 18" (457mm)

Main Bore Locating Fixtures

6725 Small- to Mid-Range In-Line and V-Block Fixture Kit, 2"-7" (50.8-177.8mm) Main Bearing Diameter



6405F Large V-Block Fixture Kit
(For use with 6407 series locators)

Main Bearing Bore Locator Sets for 6405F Block Fixture

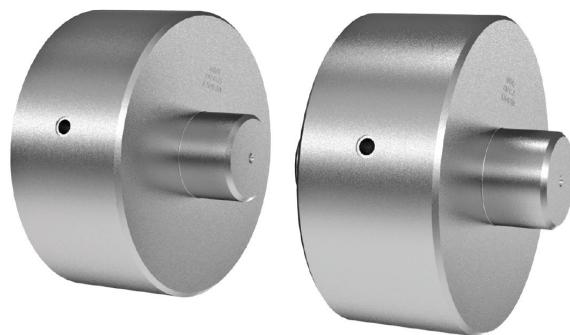
If the Customer requires a size other than those available from stock, Rottler will manufacture the required size. Customer must provide the size, including the tolerance of the main bearing bore.

6407A Locator Assembly, Main, CAT 399 (Matched Pair), 6.3690" (161.773mm) Dia.	6407C Locator Assembly, Main, CAT 3500 (Matched Pair), 6.6789" (169.644mm) Dia.
6407E Locator Assembly, Main, Cummins 170 (Matched Pair), 6.0920" (154.737mm) Dia.	6407G Locator Assembly, Main, Cummins K50 (Matched Pair), 6.8420" (173.787mm) Dia.
6407J Locator Assembly, Main, Cummins QSK (Matched Pair), 7.5915" (192.824mm) Dia.	6407L Locator Assembly, Main, Waukesha 7042 (Matched Pair), 6.6585" (169.126mm) Dia.

**6407N Locator Assembly, Main, MTU 4000
(Matched Pair), 6.7292" (170.922mm) Dia.**



**6407Q Locator Assembly, Main, CAT C175
(Matched Pair), 8.2640" (209.906mm) Dia.**



**6407S Locator Assembly, Main, (Matched Pair),
5.1113" (129.827mm) Dia.**



**6407U Locator Assembly, Main, (Matched Pair),
5.1373" (130.487mm) Dia.**



**6407W Locator Assembly, Main, MTU 396
(Matched Pair), 5.9010" (149.885mm) Dia.**

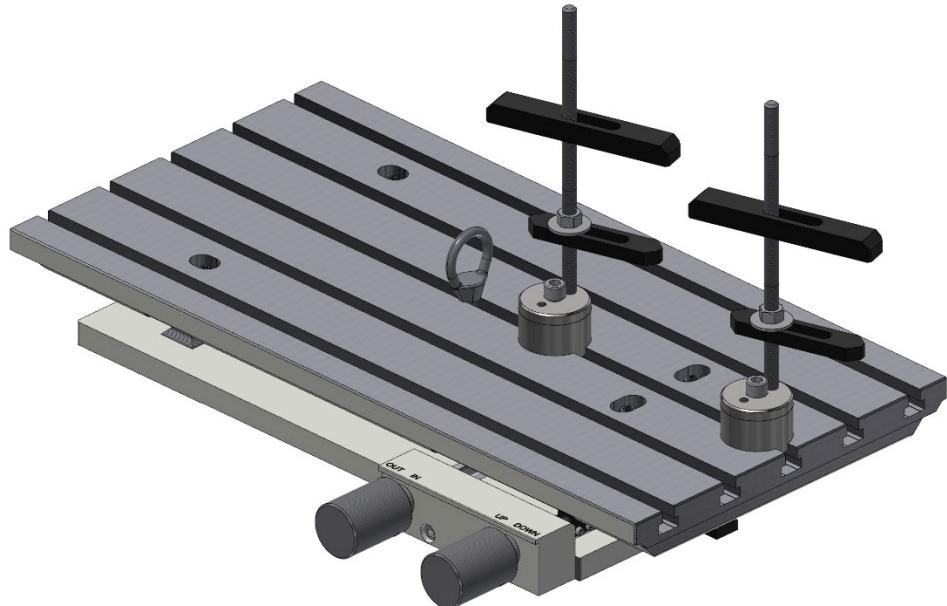


**6419 Locator Assembly, Main, Jenbacher 3,
(Matched Pair), 4.2095" (106.921mm) Dia.**

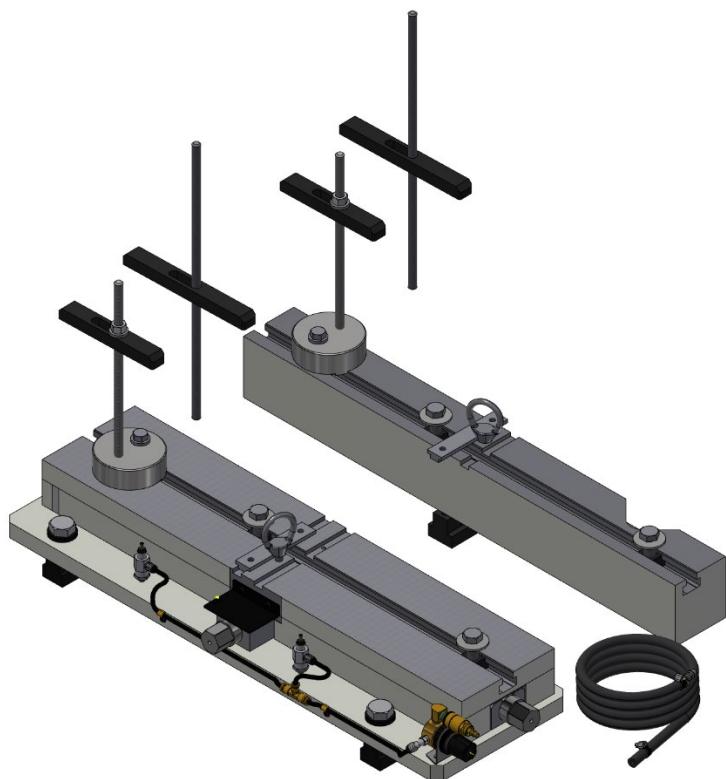


Line Bore Fixturing

650-3-56 Line Bore Pivot Table Fixture Kit

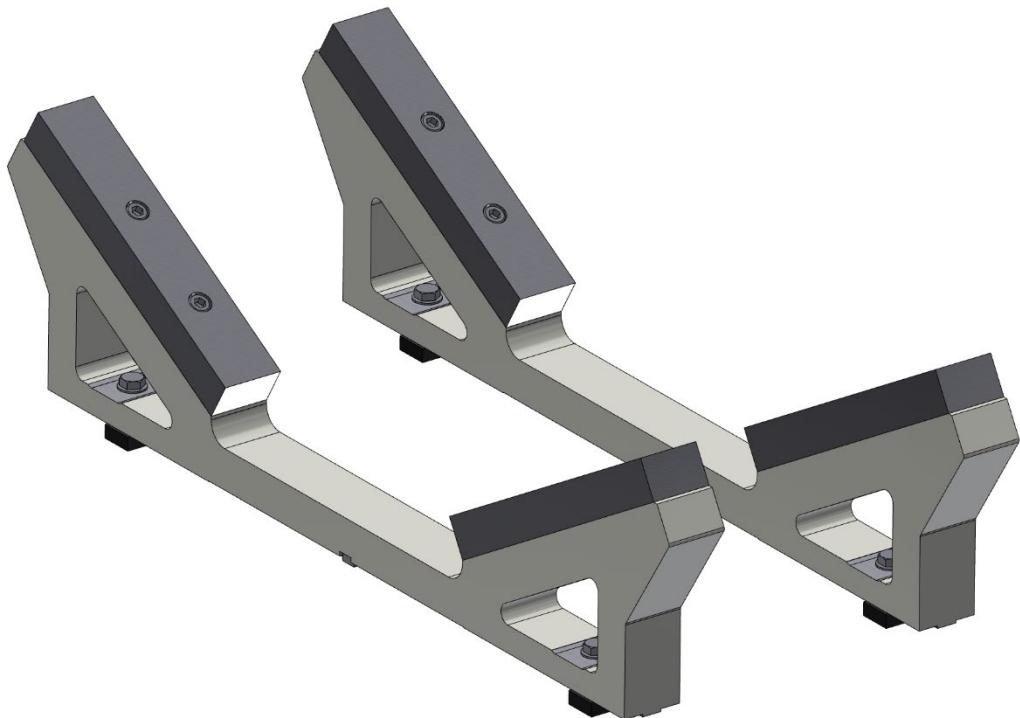


6821 Adjustable Universal Line Boring Fixture Kit



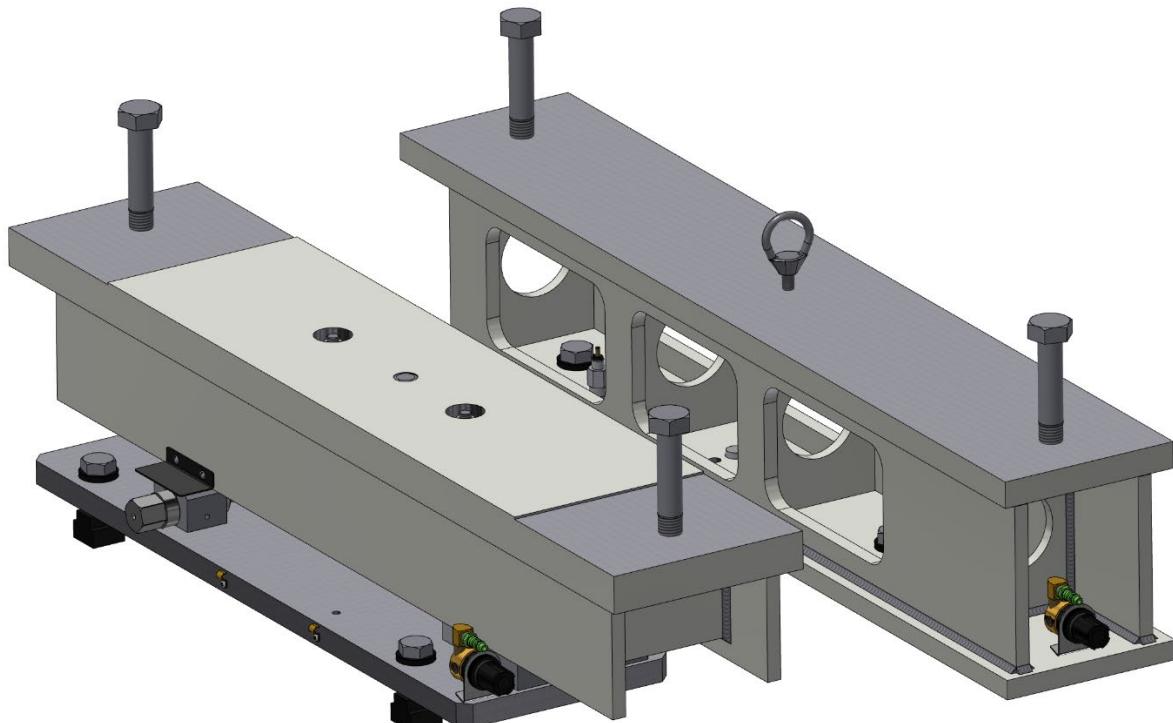
6843 90° V-Block Support Kit, Small Blocks**6823E 90° V-Block Support Kit, Large Blocks**

6789L 113° V-Block Support Kit**6789N 116° V-Block Support Kit**

6789E 115° V-Block Support Kit**6823B 120° V-Block Support Kit**

6789K 130° V-Block Support Kit**6789Q 140° V-Block Support Kit**

6789T 110° V-Block Support Kit

6846 White Superior 12 & 16 G825 Line Boring Fixture Kit**6810 Waukesha 7042, 9390 and CAT 379, 398, 399 Line Boring Fixture Kit**

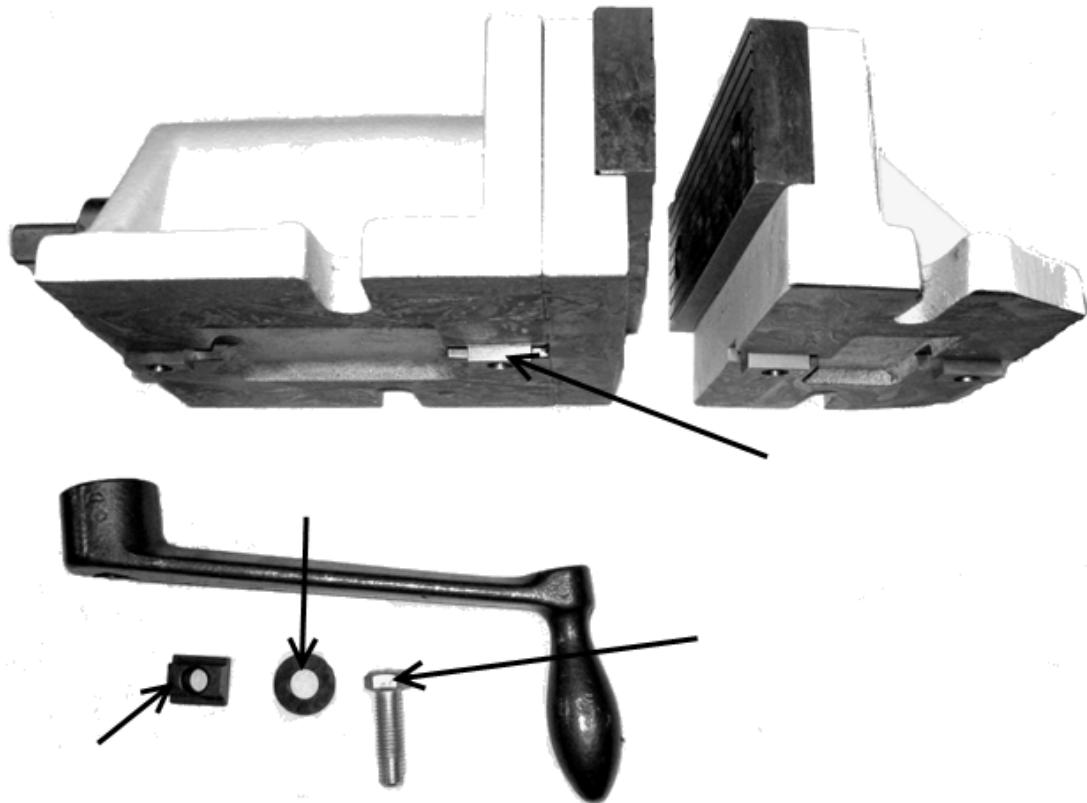
Miscellaneous Fixtures/Accessories

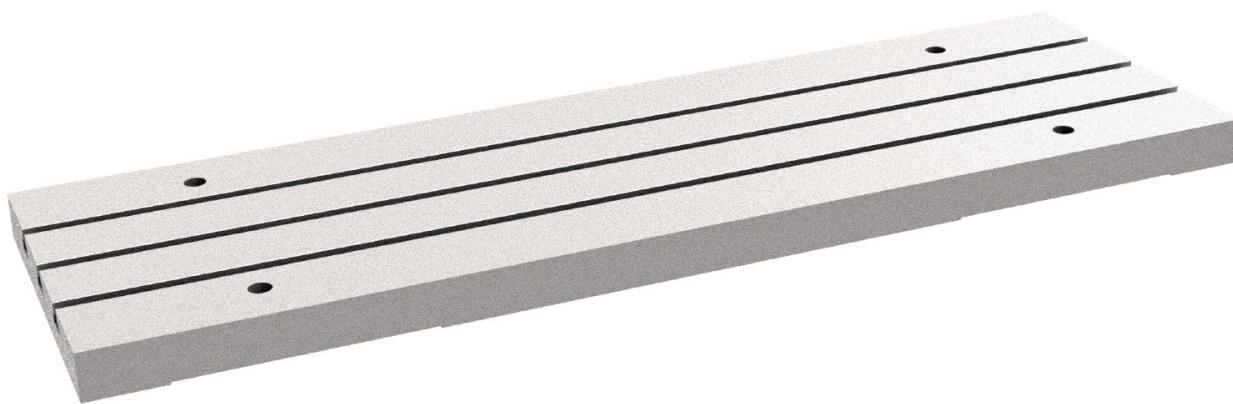
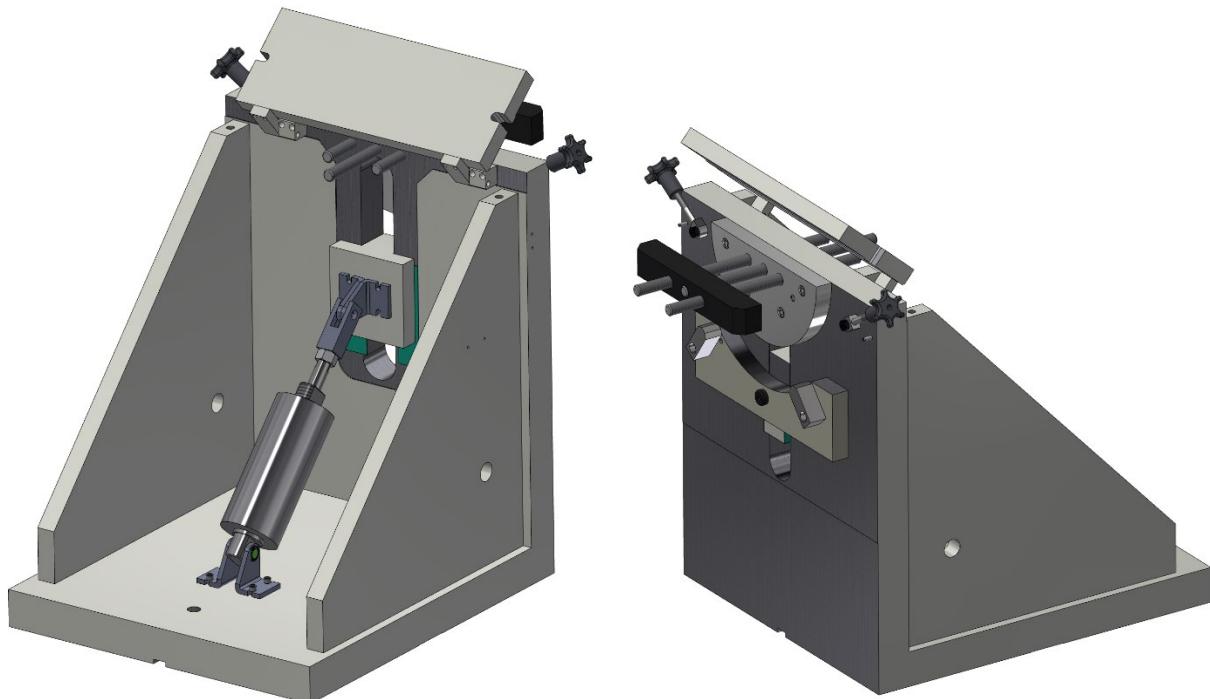
6309N Tower Type Block Hold-down Clamp Kit

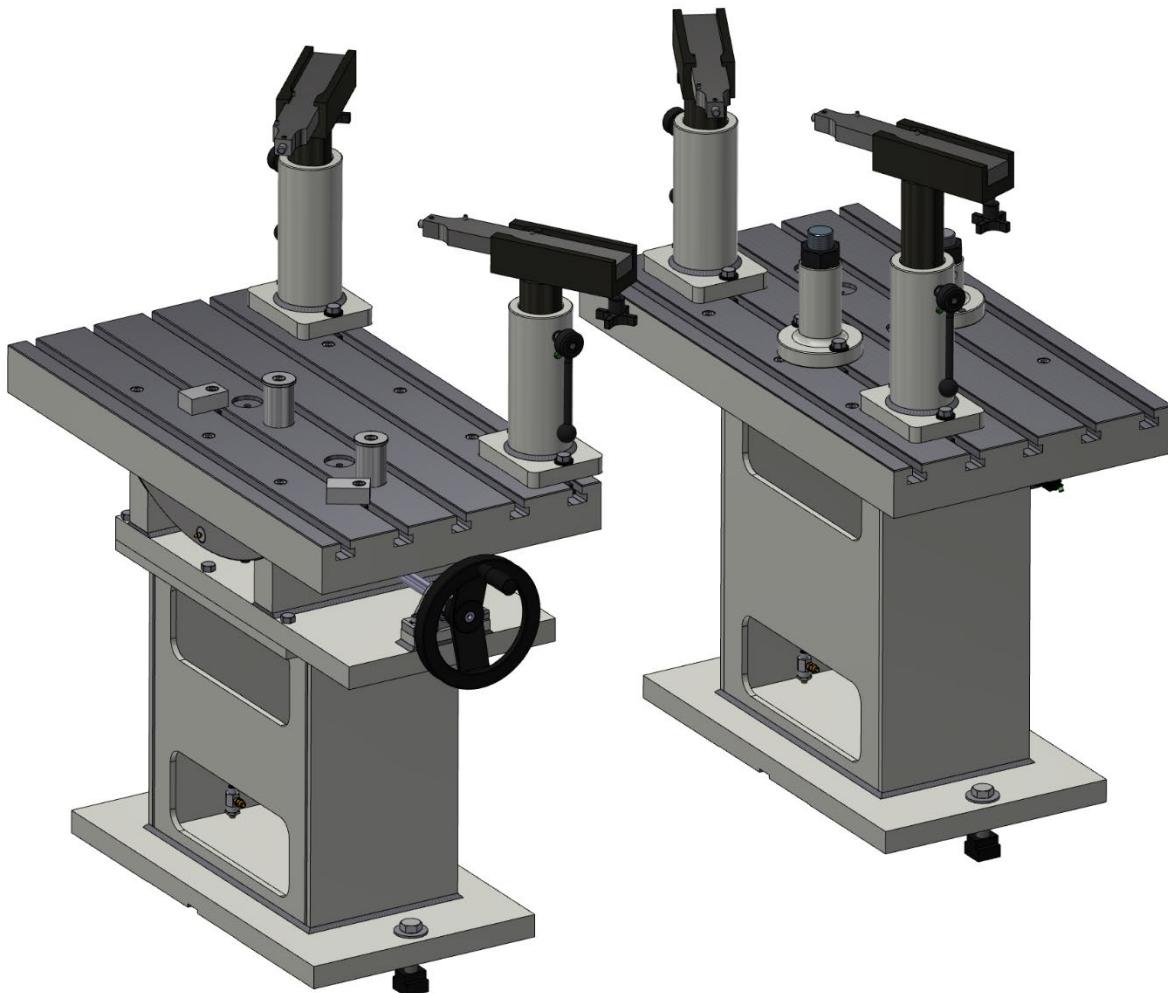


7152A Dual Axis Level



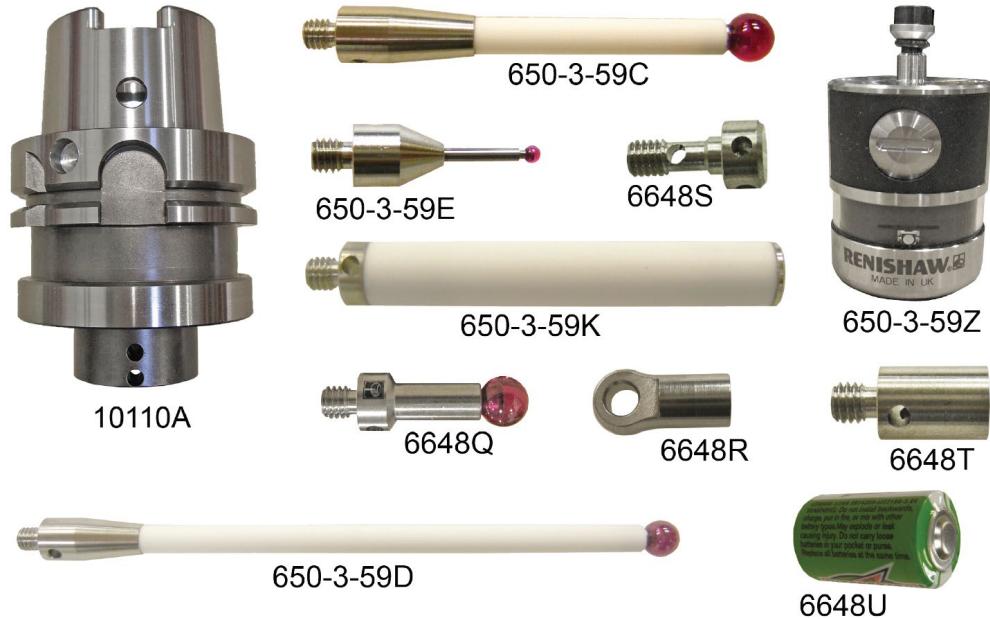
7209M Dual Axis Leveling Table**7209N 2-Piece Vise**

9111A T-Slot Plate for F60 Model Fixtures**650-3-66 Compressor Conrod Cap Surfacing Fixture Kit**

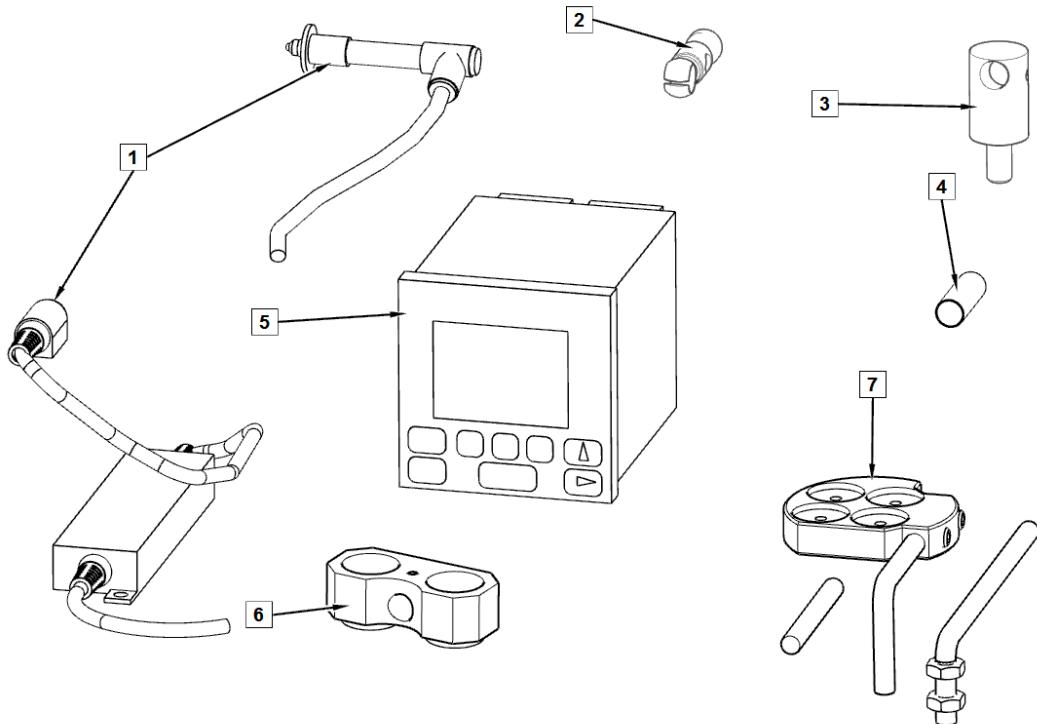
6870 Precision Large Connecting Rod Fixture Kit

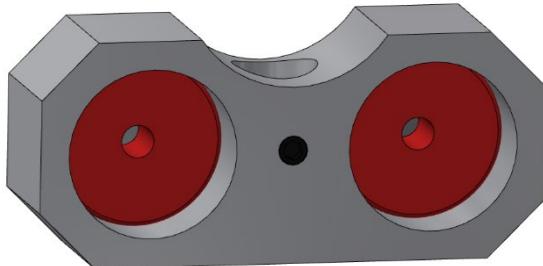
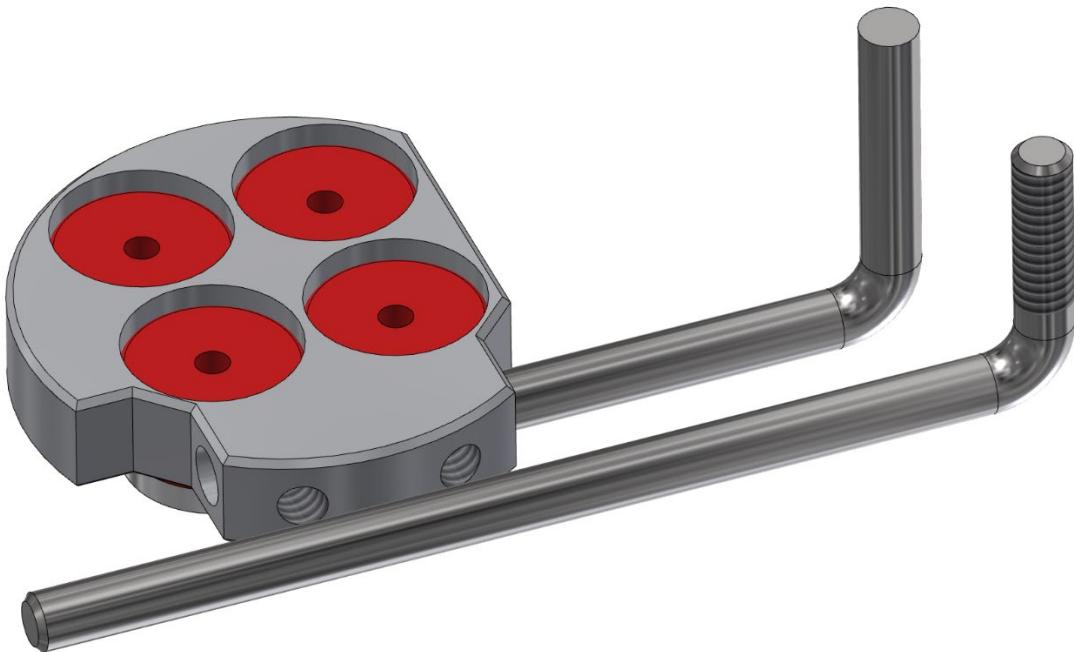
Auxiliary Equipment

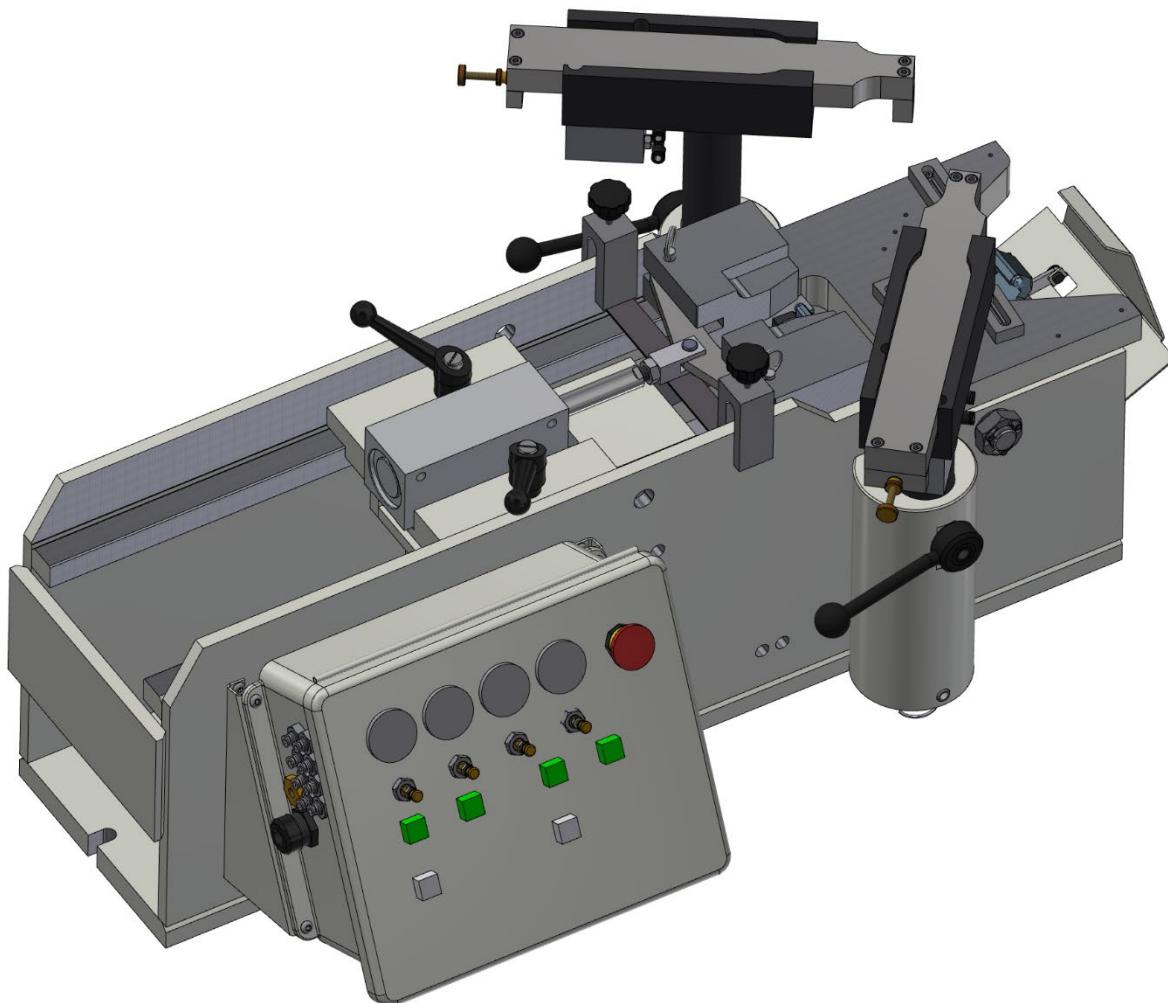
10110 Renishaw Wireless Radio Probing System Kit

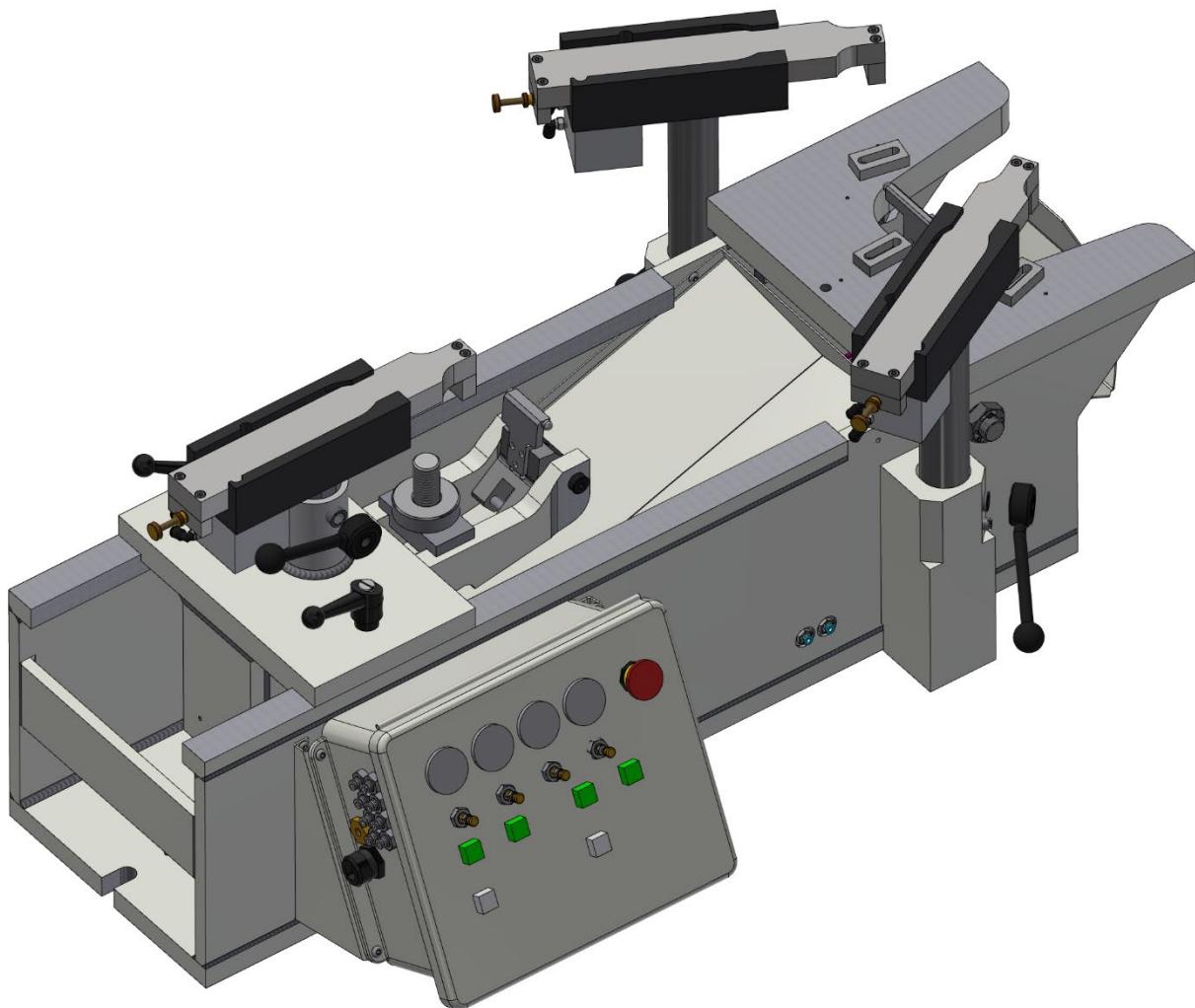


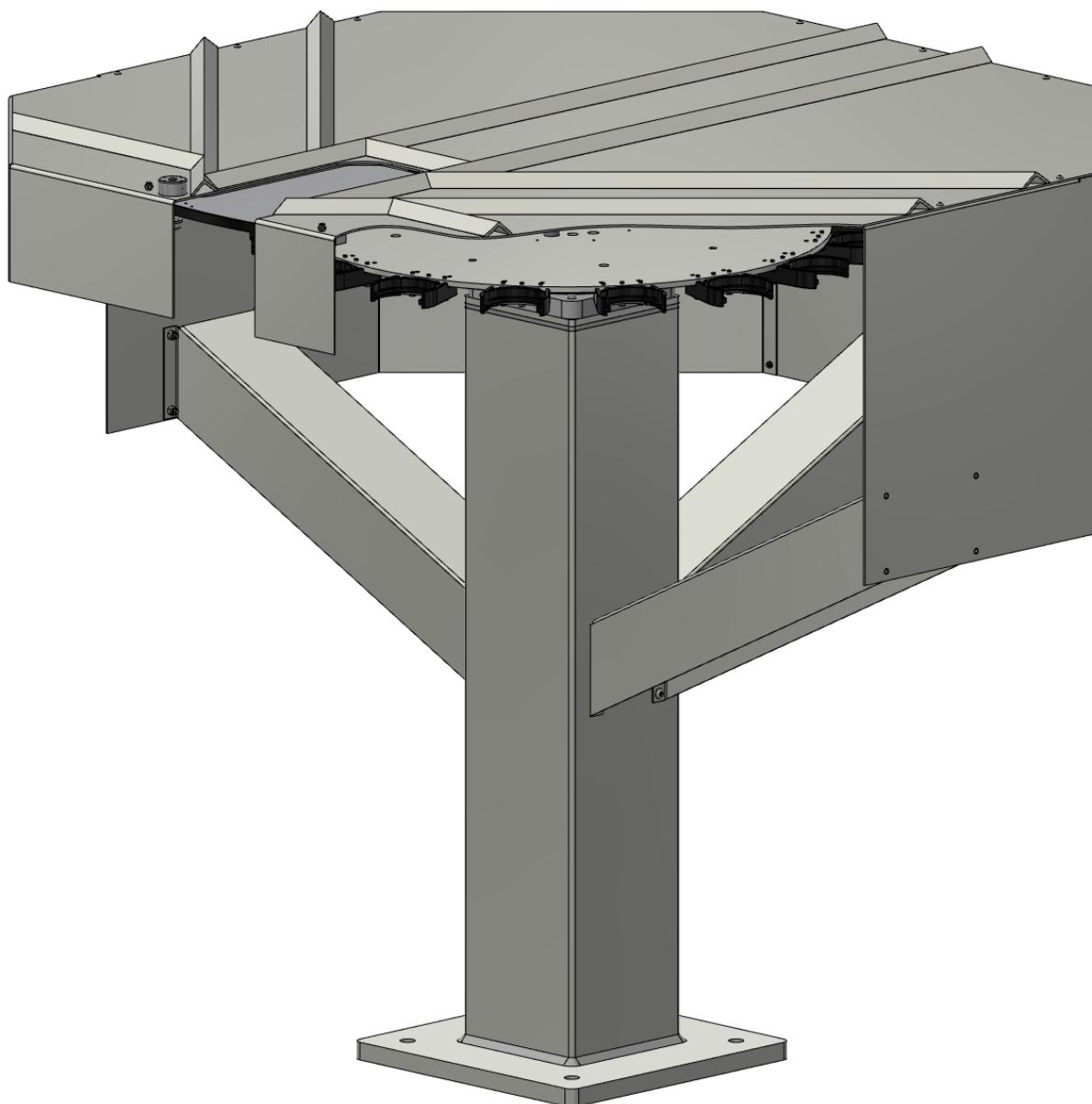
502-12-7B Digital Runout Probe and Readout Kit



502-9-9A Mechanical Runout Indicator, Inch**502-9-9J Mechanical Runout Indicator, Metric****502-9-9S Indicator Mount****502-12-4A Magnetic Indicator Holder****502-12-4 General Purpose Magnetic Indicator Holder**

650-3-44R Precision Connecting Rod Fixturing System
For 8-24" (203-610mm) Long Rods

650-3-64 Heavy Duty Precision Connecting Rod Fixturing System
For large blocks, such as CAT 3500, Waukesha 7042, White Superior 825

9116 Automatic Rotary Tool Changer

9234 EM105 Safety Enclosure