



H85AX 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 specialists.

Have the following information handy to expedite the ordering process:

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

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

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

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

THERE IS A MINIMUM ORDER OF \$25.00

Contents

Optional Fixturing.....	1
514-7A Manual Indexable Roll Over Fixture	1
502-1-30H Clamp Arm Assembly.....	1
11115 2" (50mm) X 3" (75mm) Parallels.....	2
11112 Universal 8" (203mm) Heavy Duty T-Slot Parallels	2
11114 Universal 16" (405mm) Heavy Duty T-Slot Parallels	3
Fixture for Honing Multiple Cylinder Liners (4 Liners)	4
514-11-5 Cylinder Liner Honing Fixture.....	4
514-11-6 Fixture Plate, CAT 3400.....	4
514-11-7 Fixture Plate, CAT 3500.....	5
514-11-4 Fixture Plate, CAT C175	5
Optional Coolant and Filter Equipment.....	6
514-4-71C Synthetic Coolant.....	6
514-4-71D Coolant Refractor	6
514-2-42C Dual Gradient 50-5 Micron Replacement Filter Cartridge.....	6
Optional Rottler Precision Hone Heads, Sleeves and Stone Holders	7
514-9J Medium Rottler Precision 4 Stone Holder Hone Head Assembly	7
514-10-13A Stone Holders	7
514-10-13F Stone Holders.....	7
514-10-13B Stone Holders	7
514-10-13G Stone Holders	8
514-10-13C Stone Holders	8
514-10-13H Stone Holders	8
514-10-13D Stone Holders	8
514-9Q Large Rottler Precision Heavy Duty 6 Stone Holder Hone Head Assembly	9
514-9S Large Rottler Precision Heavy Duty 6 Stone Holder Hone Head Assembly.....	9
514-9-4E Sleeve Assembly	9
514-9-31J Stone Holders.....	10
514-9-31A Stone Holders	10
514-9-31B Stone Holders	10
514-9-4F Sleeve Assembly.....	11
514-9-31C Stone Holders	11
514-9-31D Stone Holders	11
514-9-31E Stone Holders	12

514-9-4G Sleeve Assembly	12
514-9-31F Stone Holder.....	12
514-9-31G Stone Holder.....	13
514-9-31H Stone Holder	13
514-9-31K Stone Holder	13
514-9-31L Stone Holder.....	14
514-9-31M Stone Holder.....	14
514-9-31N Stone Holder	14
514-9-31P Stone Holder	15
514-9-31Q Stone Holder	15
514-9-31R Stone Holder	15
514-9-31S Stone Holder	16
Diamond Abrasives for Rottler Precision 6 Stone Holder Hone Heads	16
514-9-32F Diamond Stones, 80 grit.....	16
514-9-32R Diamond Stones 80 grit	16
514-9-32W Diamond Stones, 140/170 grit.....	17
514-9-32K Diamond Stones, 170/200 grit	17
514-9-32J Diamond Stones, 270/325 grit.....	17
514-9-32E Diamond Stones, 325/400 grit.....	17
514-9-33K Diamond Stones, 325/400 grit	17
514-9-32C Diamond Stones, 500 grit	18
514-9-32L Diamond Stones, 550 grit.....	18
514-9-32G Diamond Stones, 600 grit	18
514-9-33 Diamond Stones, 800 grit.....	18
514-9-33C Diamond Stones, 800 grit	19
514-9-33J Diamond Stones, 1200 grit.....	19
514-9-33B Diamond Stones, 270/325 grit	19
514-9-32D Diamond Stones, 325/400 grit	20
514-9-33A Diamond Stones, 800 grit	20
514-9-35C CBN Stones, 320 grit.....	20
514-9-35D CBN Stones, 400 grit	20
514-9-35B CBN Stones, 600 grit	20
514-9-14H Brushes, for Plateau Finishing.....	21
514-9-14Y Brushes, for Plateau Finishing.....	21
514-9P Large Rottler Precision Heavy Duty 4 Stone Holder Hone Head Assembly.....	22

514-9R Large Rottler Precision Heavy Duty 4 Stone Holder Hone Head Assembly	22
514-9-4A Sleeve Assembly	22
514-9-6J Stone Holders.....	23
514-9-6A Stone Holders	23
514-9-6B Stone Holders	23
514-9-4B Sleeve Assembly	24
514-9-6C Stone Holders	24
514-9-6D Stone Holders	24
514-9-6E Stone Holders	25
514-9-4C Sleeve Assembly	25
514-9-6F Stone Holders.....	25
514-9-6G Stone Holders	26
514-9-6H Stone Holders	26
514-9-6K Stone Holders	26
514-9-6L Stone Holders.....	26
514-9-6M Stone Holders.....	27
514-9-6N Stone Holders	27
514-9-6P Stone Holders	27
514-9-6Q Stone Holders	28
514-9-6R Stone Holders	28
514-9-6S Stone Holders	28
514-9-14F Diamond Stones, 80 grit.....	29
514-9-14R Diamond Stones, 80 grit	29
514-9-21R Diamond Stones, 80 grit	29
514-9-14W Diamond Stones, 140/170 grit.....	29
514-9-21W Diamond Stones, 140/170 grit.....	30
514-9-14K Diamond stones, 170/200 grit.....	30
514-9-14M Diamond Stones, 170/200 grit.....	30
514-9-21M Diamond stones, 170/200 grit	30
514-9-14J Diamond Stones, 270/325 grit.....	30
514-9-14T Diamond Stones, 270/325 grit.....	31
514-9-14Z Diamond Stones, 270/325 grit.....	31
514-9-14E Diamond Stones, 325/400 grit.....	31
514-9-14Q Diamond Stones, 325/400 grit	31
514-9-14X Diamond Stones, 325/400 grit.....	31

514-9-14V Diamond Stones, 400 grit.....	32
514-9-14C Diamond Stones, 500 grit	32
514-9-14P Diamond Stones, 500 grit.....	32
514-9-14D Diamond Stones, 325/400 grit	32
514-9-14U Diamond Stones, 500 grit	32
514-9-14L Diamond Stones, 550 grit.....	33
514-9-14N Diamond Stones, 550 grit	33
514-9-14G Diamond Stones, 600 grit	33
514-9-14S Diamond Stones, 600 grit.....	33
514-9-21G Diamond Stones, 800 grit	33
514-9-21H Diamond Stones, 1000 grit	34
514-9-21J Diamond Stones, 1200 grit.....	34
CBN Stones for Super Finishing with Rottler Precision 4 and 6 Stone Holder Hone Heads.....	34
514-9-35C CBN Stones, 320 grit.....	34
514-9-35D CBN Stones, 400 grit.....	34
514-9-35B CBN Stones, 600 grit.....	34
Brushes for Plateau Finishing with Precision 4 and 6 Stone Holder Hone Heads.....	35
514-9-14H Brushes, for Plateau Finishing.....	35
514-9-14Y Brushes, for Plateau Finishing.....	35
514-9-18P Special Red Finish Diamonds	36
514-9-18N Silicone Abrasive Exposing Stones	36
514-9-21 Polishing Felt Pads	36
514-9-21F Silicone Paste.....	36
514-9M Hone Head, Dual Stage Rough & Finish (10 Stone).....	37
110-162R Dual Stage Diamond Stones	37
110-163R Dual Stage Diamond Stones	37
110-163R-01 Dual Stage Diamond Stones.....	37
110-163R-03 Dual Stage Diamond Stones.....	38
110-164R Dual Stage Diamond Stones	38
110-164R-01 Dual Stage Diamond Stones.....	38
110-164R-03 Dual Stage Diamond Stones.....	38
124-24 Brush Set, Dual Stage Hone Head	39
124-25 Brush Set, Dual Stage Hone Head	39
124-26 Brush Set, Dual Stage Hone Head	39

514-9N Hone Head, Single Stage (12 Stone)	40
110-171-01 Single Stage Diamond Stones	40
110-171-02 Single Stage Diamond Stones	40
110-171-03 Single Stage Diamond Stones	40
LO-6568-161 Hone Head, Single Stage (6 Stone)	41
110-174-01 Diamond Stones	41
LO-6568-160 Hone Head, Single Stage	42
110-173-01 Diamond Stones	42
Optional Measuring Equipment	43
201 Mitutoyo Surface Tester Surftest 201	43
514-8-27 Stone Depth Scale and Holder Assembly (inch)	43
514-8-27F Stone Depth Scale and Holder Assembly (metric)	43
514-14-29A Camera	44
514-14-29B Software Package	44
Adapter for Pin Honing Mandrels	45
514-9V Adapter	45
Safety Shut Down Protection System	46
514-13-26 Laser Light Curtain	46

Optional Fixturing

514-7A Manual Indexable Roll Over Fixture

For small to medium size In-line and V Blocks up to 31" (787mm) overall length



502-1-30H Clamp Arm Assembly

Set of 2, for blocks without main caps when using manual Roll Over Fixture and large in-line blocks without roll over fixture, max length of block 50" 1270mm

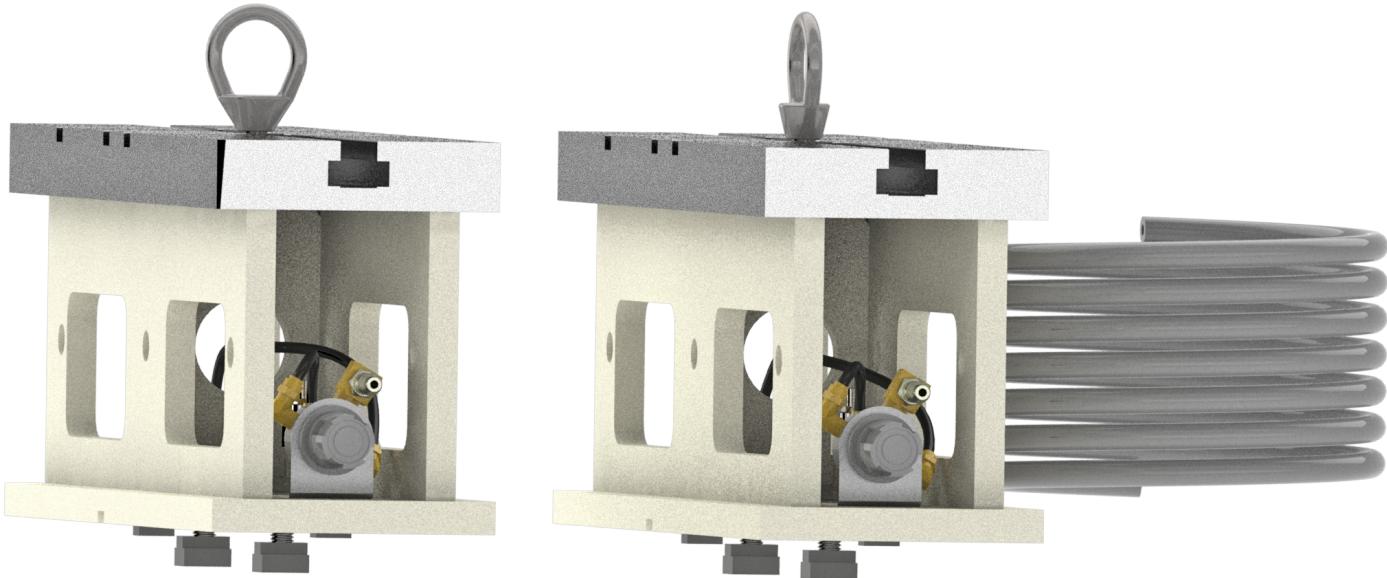


11115 2" (50mm) X 3" (75mm) Parallels

For general purpose machine work such as setting up small in-line blocks such as motorcycle or small single cylinders such as Harley

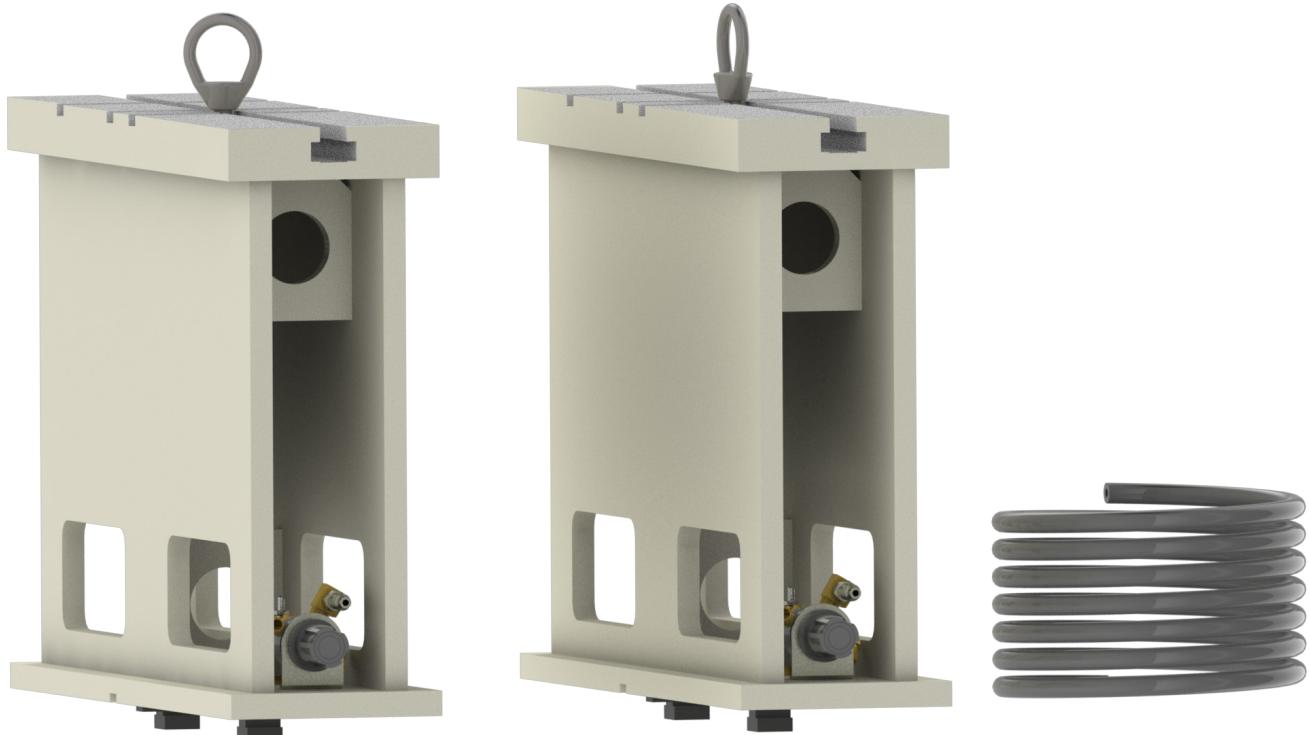
**11112 Universal 8" (203mm) Heavy Duty T-Slot Parallels**

For general purpose machine work such as setting up small in-line blocks such as motorcycle or small single cylinders such as Harley



11114 Universal 16" (405mm) Heavy Duty T-Slot Parallels

For general purpose machine work such as setting up small in-line blocks such as motorcycle or small single cylinders such as Harley



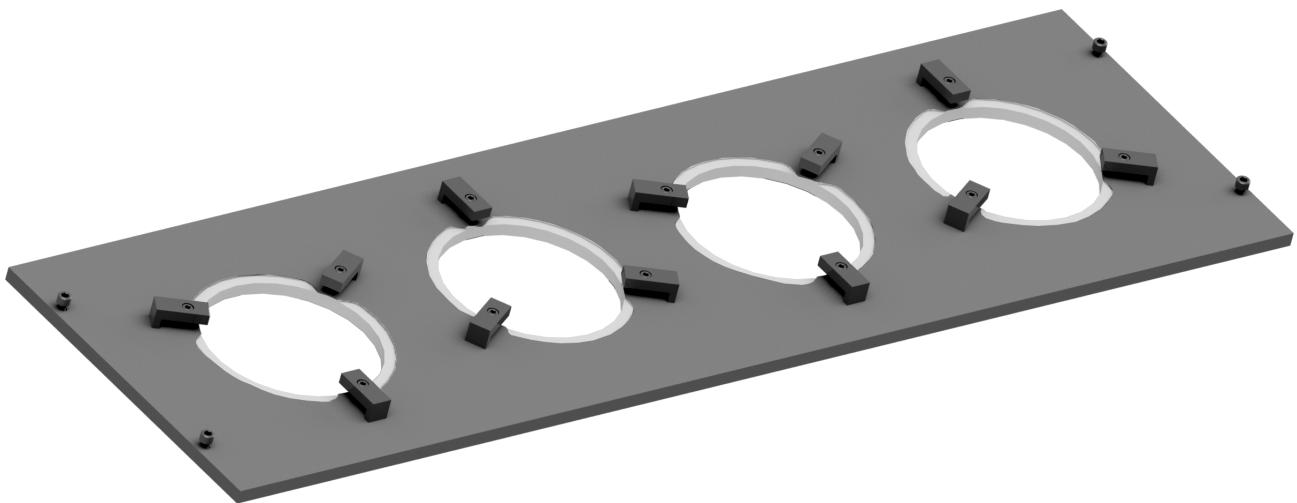
Fixture for Honing Multiple Cylinder Liners (4 Liners)

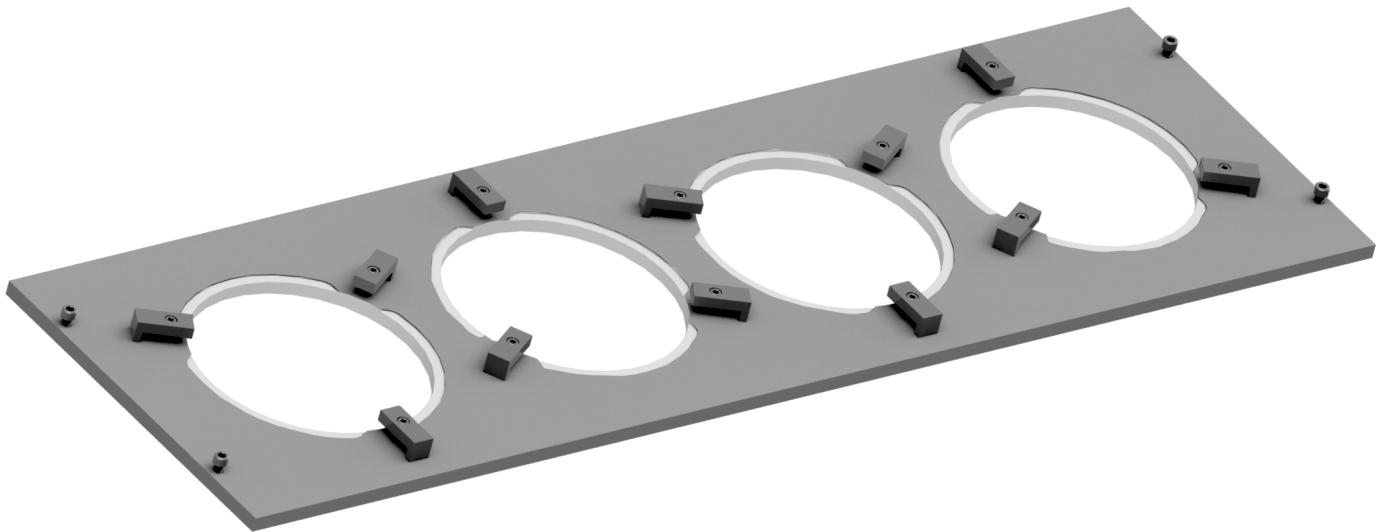
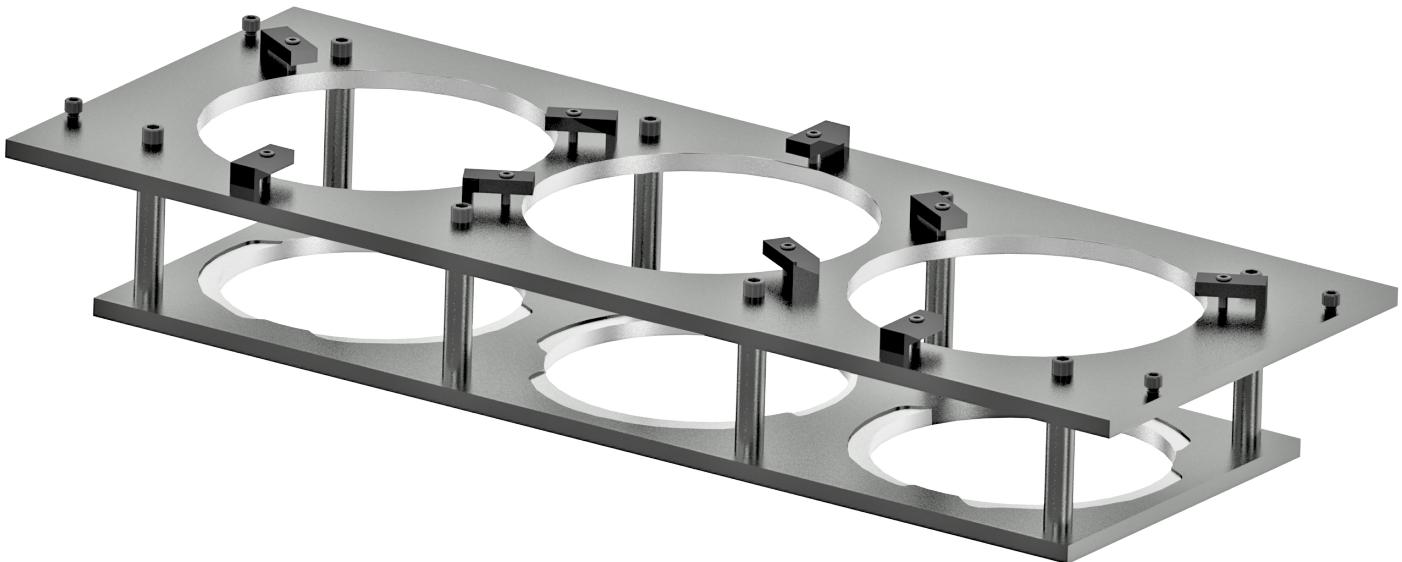
514-11-5 Cylinder Liner Honing Fixture

(Note: Must order Fixture Plate Separately)



514-11-6 Fixture Plate, CAT 3400



514-11-7 Fixture Plate, CAT 3500**514-11-4 Fixture Plate, CAT C175**

Optional Coolant and Filter Equipment



514-4-71C Synthetic Coolant

(for use with diamond stones) 5 gal (20 liter) (mix with water 20:1)

514-4-71D Coolant Refractor

(for measuring synthetic coolant to water mix ratio)



514-2-42C Dual Gradient 50-5 Micron Replacement Filter Cartridge

For standard filter system



Optional Rottler Precision Hone Heads, Sleeves and Stone Holders

Bore diameter ranges listed following are with .312" (7.92mm) height diamond stones. For smaller diameter range, .200" (5.2mm) height diamond stones should be used.

Medium 4 Stone Holder Hone Head 2.34 - 3.05" (59.44 - 77.47mm) Bore Diameter Range

514-9J Medium Rottler Precision 4 Stone Holder Hone Head Assembly

Includes integral sleeve without stone holders - H80 Series Quick Change. Medium hone head available only with 4 stones holders.

Bore diameter ranges listed following are with .312" (7.92mm) height diamond stones. For smaller diameter range, .200" (5.2mm) height diamond stones should be used.



514-10-13A Stone Holders

2.34 - 2.45" (59.44 - 62.23mm), set of 4



514-10-13F Stone Holders

2.44 - 2.55" (61.98 - 64.77mm), set of 4



514-10-13B Stone Holders

2.54 - 2.65" (64.52 - 67.31mm), set of 4



514-10-13G Stone Holders

2.64 - 2.75" (61.37 - 64.16mm), set of 4

**514-10-13C Stone Holders**

2.74 - 2.85" (69.60 - 72.39mm), set of 4

**514-10-13H Stone Holders**

2.84 - 2.95" (66.45 - 69.24mm), set of 4

**514-10-13D Stone Holders**

2.94 - 3.05" (74.68 - 77.47mm), set of 4



Large Hone head is available for 4 and 6 Stone Holder applications as listed following:

Large 6 Stone Holder Hone Head 2.770" - 7.38" (70.36mm - 187.45mm) Bore Diameter Range

514-9Q Large Rottler Precision Heavy Duty 6 Stone Holder Hone Head Assembly

Without sleeves and stone holders - H80 Series Quick Change for cylinders up to 13" (330mm) long



514-9S Large Rottler Precision Heavy Duty 6 Stone Holder Hone Head Assembly

Without sleeves and stone holders - H80 Series Quick Change extended 2" (50mm) for cylinders longer than 13" (330mm)



Sleeves and Stone Holders for above Hone Head Assemblies

Bore diameter ranges listed following are with .312" (7.92mm) height diamond stones. For smaller diameter range, .200" (5.2mm) height diamond stones should be used.

514-9-4E Sleeve Assembly

2.770" - 3.880" (70.36 - 98.55mm)



514-9-31J Stone Holders

2.990 - 3.44" (75.95 - 87.38mm) set of 6 (Requires Sleeve
514-9-4E)

Note: To hone diameter 2.770" (70.36mm) use .200 (5.1mm)
height Stone Set with 514-9-6J Stone Holders

**514-9-31A Stone Holders**

3.165 - 3.630" (80.39 - 92.20mm) set of 6 (Requires Sleeve
514-9-4E)

**514-9-31B Stone Holders**

3.415 - 3.880" (86.74 - 98.55mm) set of 6 (Requires Sleeve
514-9-4E)



514-9-4F Sleeve Assembly

3.500 - 4.670" (88.00 - 118.62mm)

**514-9-31C Stone Holders**

3.665 - 4.130" (93.09 - 104.90mm) set of 6 (Requires Sleeve 514-9-4F)

**514-9-31D Stone Holders**

3.915 - 4.380" (99.44 - 111.25mm) set of 6 (Requires Sleeve 514-9-4F)

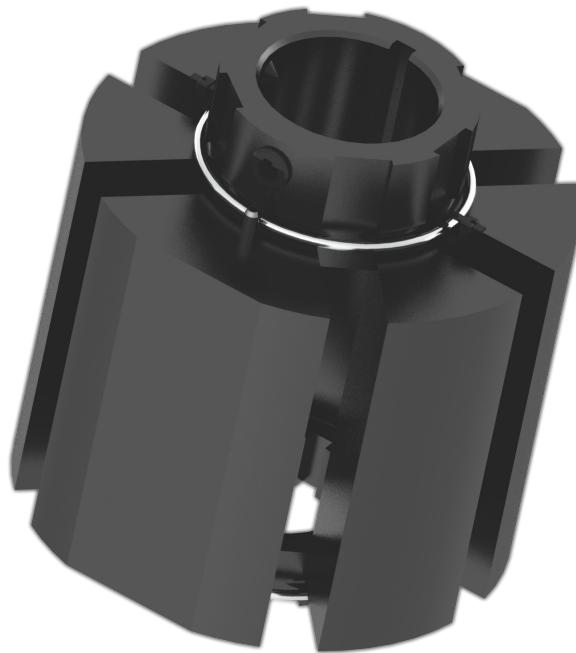


514-9-31E Stone Holders

4.165 - 4.630" (105.79 - 117.60mm) set of 6 (Requires Sleeve 514-9-4F)

**514-9-4G Sleeve Assembly**

4.250 - 7.380" (107.95 - 187.45mm)

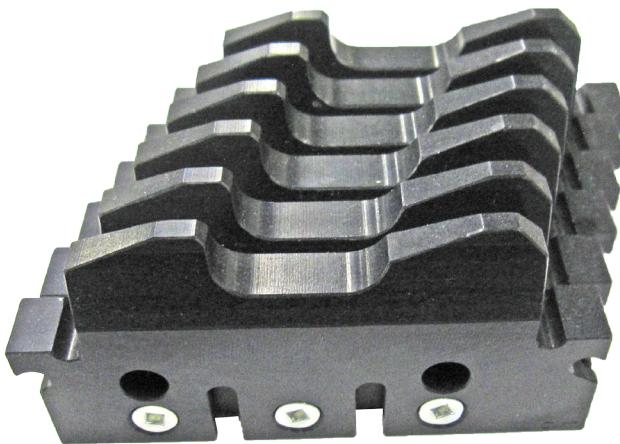
**514-9-31F Stone Holder**

4.415 - 4.880" (112.14 - 123.95mm) set of 6 (Requires Sleeve 514-9-4G)



514-9-31G Stone Holder

4.665 - 5.130" (118.49 - 130.30mm) set of 6 (Requires Sleeve 514-9-4G)

**514-9-31H Stone Holder**

4.915 - 5.380" (124.84 - 136.65mm) set of 6 (Requires Sleeve 514-9-4G)

**514-9-31K Stone Holder**

5.165 - 5.630" (131.19 - 143.00mm) set of 6 (Requires Sleeve 514-9-4G)



514-9-31L Stone Holder

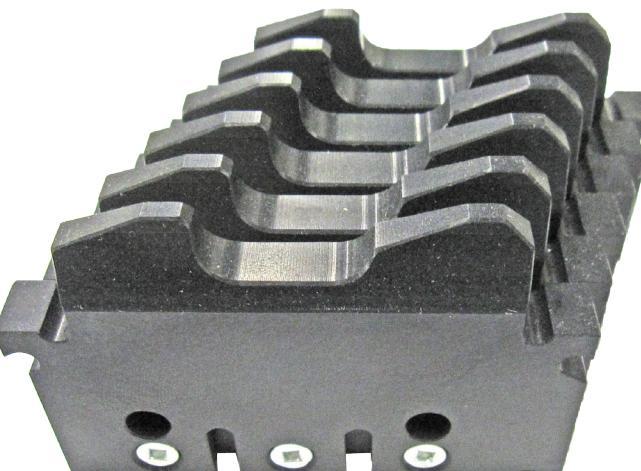
5.415 - 5.880" (137.54 - 149.35mm) set of 6 (Requires Sleeve 514-9-4G)

**514-9-31M Stone Holder**

5.665 - 6.130" (143.89 - 155.70mm) set of 6 (Requires Sleeve 514-9-4G)

**514-9-31N Stone Holder**

5.915 - 6.380" (150.24 - 162.05mm) set of 6 (Requires Sleeve 514-9-4G)



514-9-31P Stone Holder

6.165 - 6.630" (156.59 - 168.40mm) set of 6 (Requires Sleeve 514-9-4G)

**514-9-31Q Stone Holder**

6.415 - 6.880" (162.94 - 174.75mm) set of 6 (Requires Sleeve 514-9-4G)

**514-9-31R Stone Holder**

6.665 - 7.130" (169.29 - 181.10mm) set of 6 (Requires Sleeve 514-9-4G)



514-9-31S Stone Holder

6.915 - 7.380" (175.64 - 187.45mm) set of 6 (Requires Sleeve 514-9-4G)

**Diamond Abrasives for Rottler Precision 6 Stone Holder Hone Heads**

NOTE: Ra - Roughness Average. Value before Ra is in micro inches. Value in brackets um is micro meters. Long designates length of stone. Height designated thickness of stone.

Diamond Stones, .312 (7.90MM), Set of 6**514-9-32F Diamond Stones, 80 grit**

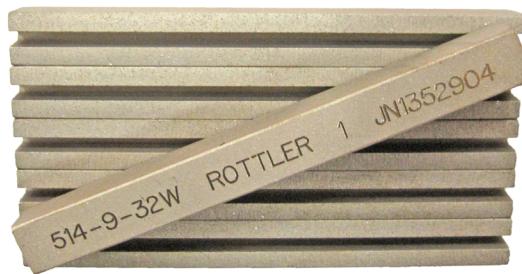
3" (76mm) long set of 6, 90 Ra, (2.25um)

**514-9-32R Diamond Stones 80 grit**

3.5" (89mm) long set of 6, 90 Ra, (2.25um)



514-9-32W Diamond Stones, 140/170 grit
3" (76mm) long set of 6, 50-75 Ra, (1.25 - 1.875um)



514-9-32K Diamond Stones, 170/200 grit
3" (76mm) long set of 6, 45-60 Ra, (1.125 - 1.5um)



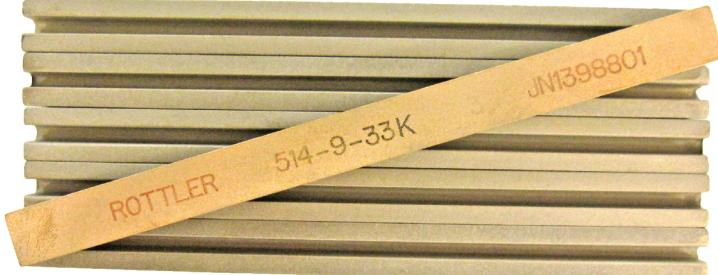
514-9-32J Diamond Stones, 270/325 grit
3" (76mm) long set of 6, 35-45 Ra, (.875 - 1.125um)



514-9-32E Diamond Stones, 325/400 grit
3" (76mm) long set of 6, 24-30 Ra, (.6 - .75um)



514-9-33K Diamond Stones, 325/400 grit
4" (102mm) long set of 6, 24-30 Ra, (.6 - .75um)



514-9-32C Diamond Stones, 500 grit
3" (76mm) long set of 6, 18-22 Ra, (.45 - .55um)**514-9-32L Diamond Stones, 550 grit**
3" (76mm) long set of 6, 15-19 Ra, (.375 - .475)**514-9-32G Diamond Stones, 600 grit**
3" (76mm) long set of 6, 8-12 Ra, (.2 - .3um)**514-9-33 Diamond Stones, 800 grit**
3" (76mm) long set of 6

514-9-33C Diamond Stones, 800 grit
4" (102mm) long set of 6



514-9-33J Diamond Stones, 1200 grit
3" (76mm) long set of 6



Diamond Stones, .200 (5.08MM), Set of 6

514-9-33B Diamond Stones, 270/325 grit
3.5" (89mm) long set of 6, 35-45 Ra,



514-9-32D Diamond Stones, 325/400 grit

3" (76mm) long set of 6, 18-22 Ra, 2.795 bore

**514-9-33A Diamond Stones, 800 grit**

3.5" (89mm) long set of 6

**CBN Stones for Super Finishing with Rottler Precision 4 and 6 Stone Holder Hone Heads****514-9-35C CBN Stones, 320 grit**

3" (76mm) long set of 4, for super finishing

**514-9-35D CBN Stones, 400 grit**

3" (76mm) long set of 4, for super finishing

**514-9-35B CBN Stones, 600 grit**

3" (76mm) long set of 4, for super finishing



Brushes for Plateau Finishing with Rottler Precision 4 and 6 Stone Holder Hone Heads**514-9-14H Brushes, for Plateau Finishing**

.550" (14mm) height, 3 1/2" (89mm) long, requires one or two size smaller stone holder compared to .312" (7.90mm) height diamond stone. Set of 4

**514-9-14Y Brushes, for Plateau Finishing**

.395" (10mm) height, 3 1/2" (89mm) long, requires same or one size smaller stone holder compared to .312" (7.90mm) height diamond stone. Set of 4

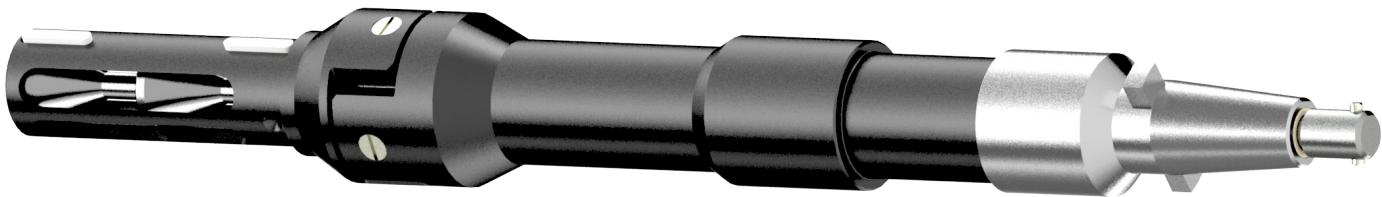


Large 4 Stone Holder Hone Head 2.770" - 7.38" (70.36mm - 187.45mm) Bore Diameter Range**514-9P Large Rottler Precision Heavy Duty 4 Stone Holder Hone Head Assembly**

Without sleeves and stone holders - H80 Series Quick Change for cylinders up to 13" (330mm) long

**514-9R Large Rottler Precision Heavy Duty 4 Stone Holder Hone Head Assembly**

Without sleeves and stone holders - H80 Series Quick Change extended 2" (50mm) for cylinders longer than 13" (330mm)

**Sleeves and Stone Holders for above Hone Head Assemblies**

Bore diameter ranges listed below are with .312" (7.92mm) height diamond stones. For smaller diameter range, .200" (5.2mm) height diamond stones should be used.

514-9-4A Sleeve Assembly

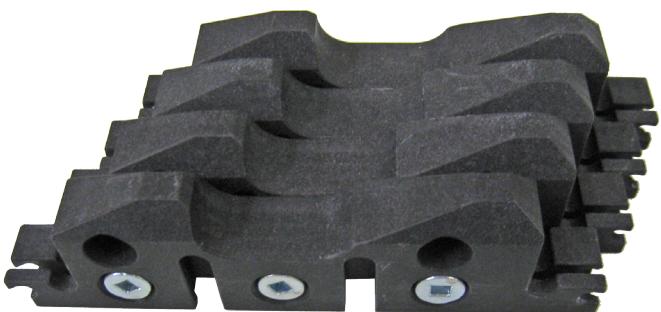
2.770" - 3.880" (70.36 - 98.55mm)



514-9-6J Stone Holders

2.990 - 3.44" (75.95 - 87.38mm) set of 4 (Requires Sleeve 514-9-4A)

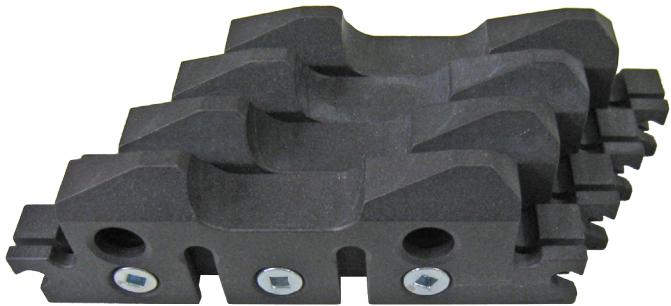
Note: To hone diameter 2.77" (70.36mm) use .200" (5.1mm) height Stone Set with 514-9-6J Stone Holders

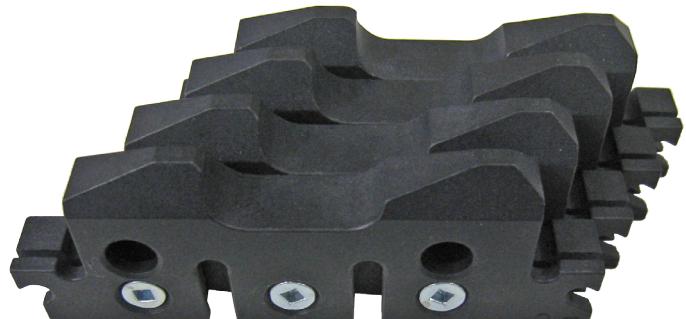
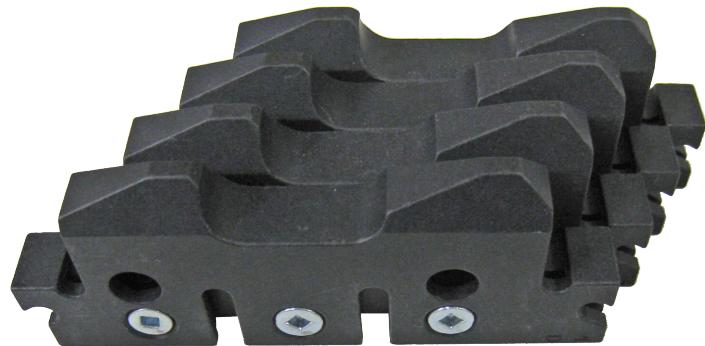
**514-9-6A Stone Holders**

3.165 - 3.630" (80.39 - 92.20mm) set of 4 (Requires Sleeve 514-9-4A)

**514-9-6B Stone Holders**

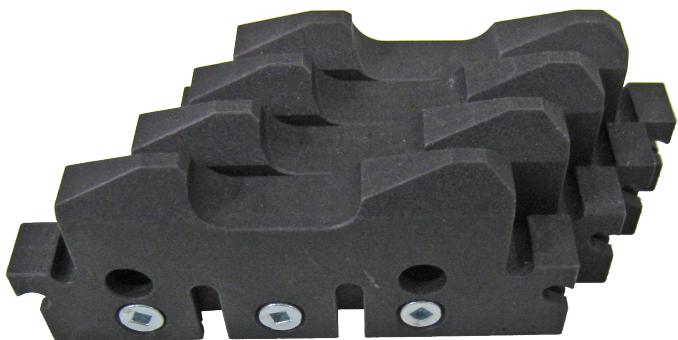
3.415 - 3.880" (86.74 - 98.55mm) set of 4 (Requires Sleeve 514-9-4A)



514-9-4B Sleeve Assembly
3.500 - 4.670" (88.00 - 118.62mm)**514-9-6C Stone Holders**
3.665 - 4.130" (93.09 - 104.90mm) set of 4 (Requires
Sleeve 514-9-4B)**514-9-6D Stone Holders**
3.915 - 4.380" (99.44 - 111.25mm) set of 4 (Requires
Sleeve 514-9-4B)

514-9-6E Stone Holders

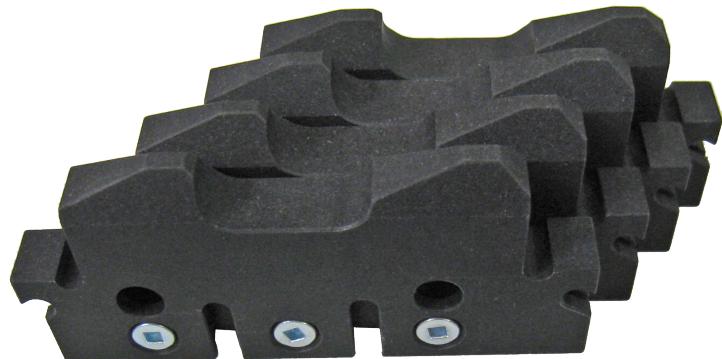
4.165 - 4.630" (105.79 - 117.60mm) set of 4 (Requires Sleeve 514-9-4B)

**514-9-4C Sleeve Assembly**

4.250 - 7.380" (107.95 - 187.45mm)

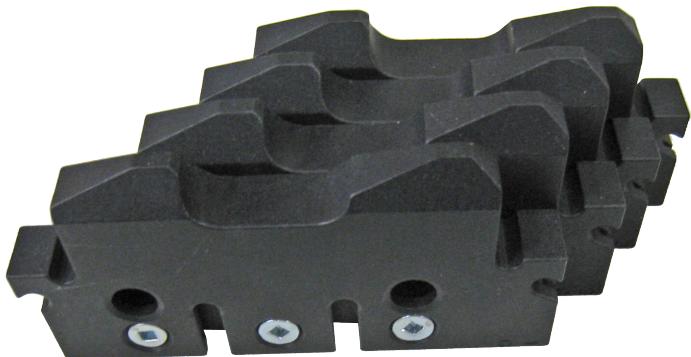
**514-9-6F Stone Holders**

4.415 - 4.880" (112.14 - 123.95mm) set of 4 (Requires Sleeve 514-9-4C)

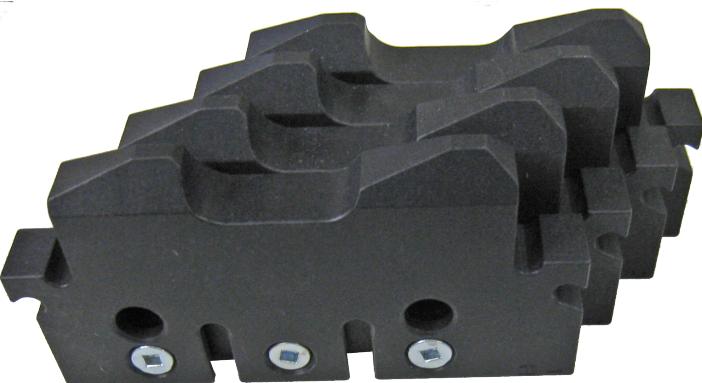


514-9-6G Stone Holders

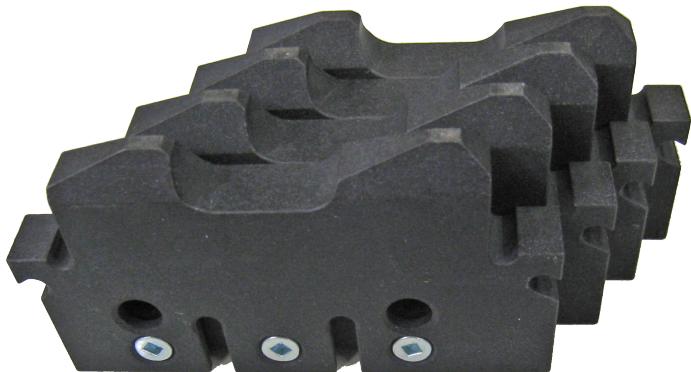
4.665 - 5.130" (118.49 - 130.30mm) set of 4 (Requires Sleeve 514-9-4C)

**514-9-6H Stone Holders**

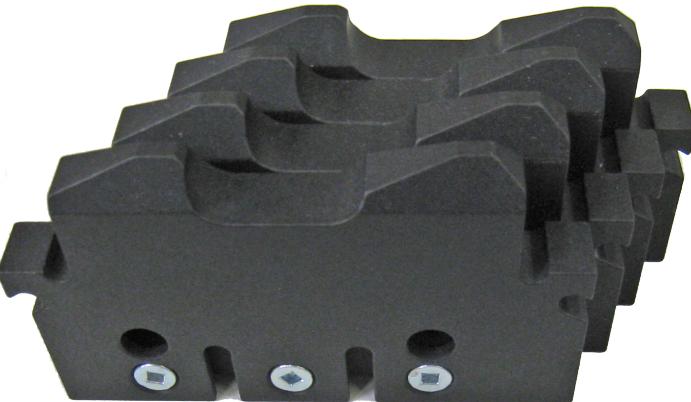
4.915 - 5.380" (124.84 - 136.65mm) set of 4 (Requires Sleeve 514-9-4C)

**514-9-6K Stone Holders**

5.165 - 5.630" (131.19 - 143.00mm) set of 4 (Requires Sleeve 514-9-4C)

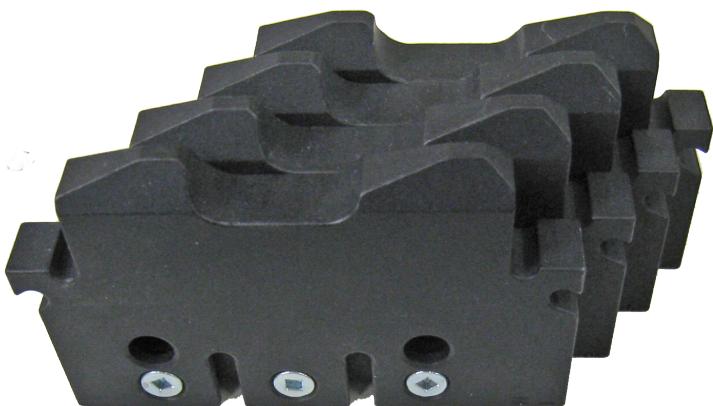
**514-9-6L Stone Holders**

5.415 - 5.880" (137.54 - 149.35mm) set of 4 (Requires Sleeve 514-9-4C)

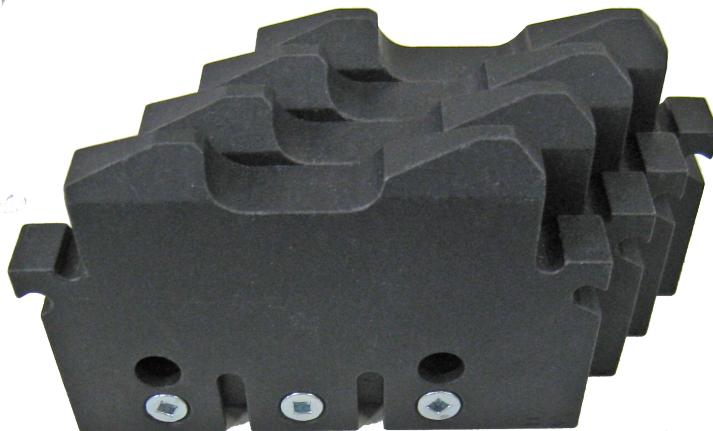


514-9-6M Stone Holders

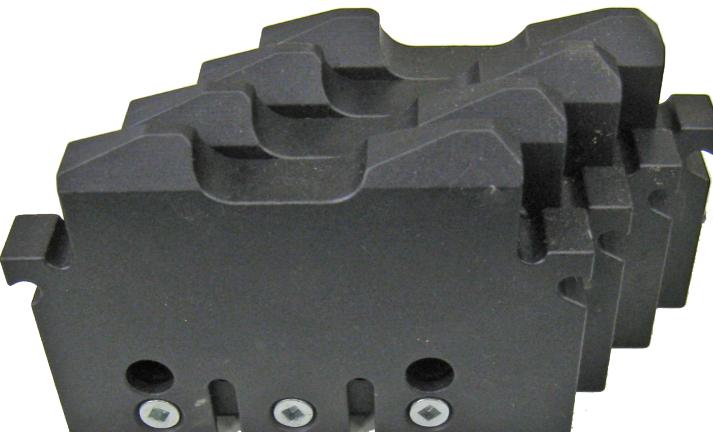
5.665 - 6.130" (143.89 - 155.70mm) set of 4 (Requires Sleeve 514-9-4C)

**514-9-6N Stone Holders**

5.915 - 6.380" (150.24 - 162.05mm) set of 4 (Requires Sleeve 514-9-4C)

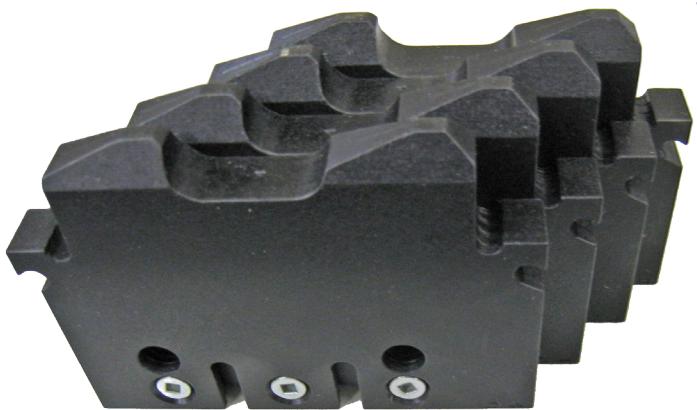
**514-9-6P Stone Holders**

6.165 - 6.630" (156.59 - 168.40mm) set of 4 (Requires Sleeve 514-9-4C)

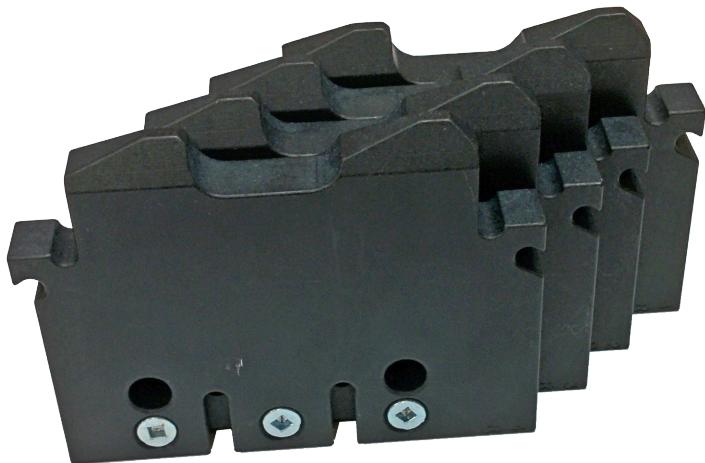


514-9-6Q Stone Holders

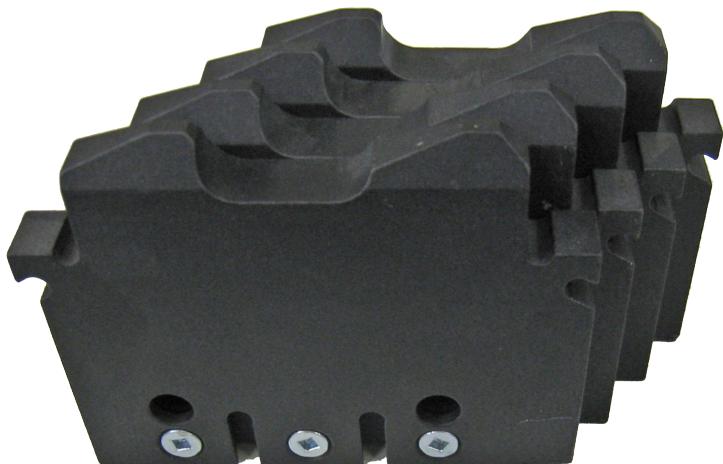
6.415 - 6.880" (162.94 - 174.75mm) set of 4 (Requires Sleeve 514-9-4C)

**514-9-6R Stone Holders**

6.665 - 7.130" (169.29 - 181.10mm) set of 4 (Requires Sleeve 514-9-4C)

**514-9-6S Stone Holders**

6.915 - 7.380" (175.64 - 187.45mm) set of 4 (Requires Sleeve 514-9-4C)



Diamond Abrasives for Rottler Precision 4 Stone Holder Hone Heads

NOTE: Ra - Roughness Average. Value before Ra is in micro inches. Value in brackets um is micro meters. Long designates length of stone. Height designated thickness of stone.

Diamond Stones, .312" (7.90mm) Height, Set of 4

514-9-14F Diamond Stones, 80 grit
3" (76mm) long set of 4, 90Ra (2.25um), stock removal .004-.007/min.



514-9-14R Diamond Stones, 80 grit
3 1/2" (89mm) long set of 4, 90Ra (2.25um), stock removal .004-.007/min. (.102 - .178mm)



514-9-21R Diamond Stones, 80 grit
4" (102mm) long set of 4, 90 Ra, (2.25um)



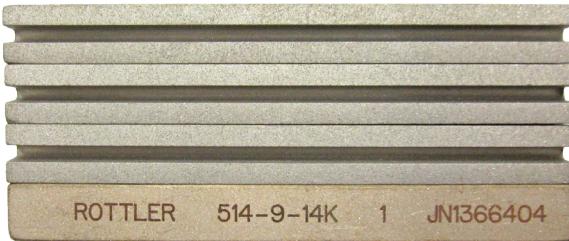
514-9-14W Diamond Stones, 140/170 grit
3" (76mm) long set of 4, 50-75Ra (1.25 - 1.875um)



514-9-21W Diamond Stones, 140/170 grit
4" (102mm) long set of 4, 50-75 Ra, (1.25 - 1.875um)



514-9-14K Diamond stones, 170/200 grit
3" (76mm) long set of 4, 45-60Ra (1.125 - 1.5um)



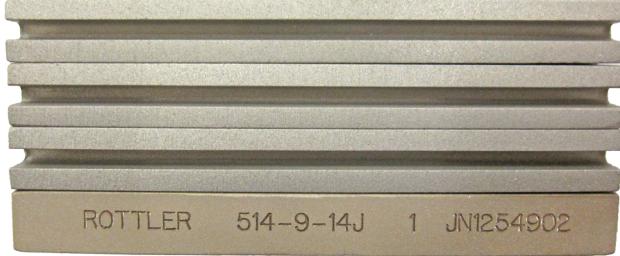
514-9-14M Diamond Stones, 170/200 grit
3 1/2" (89mm) long set of 4, 45-60Ra (1.125 - 1.5um)



514-9-21M Diamond stones, 170/200 grit
4" (102mm) long set of 4, 45-60 Ra, (1.125 - 1.5um)



514-9-14J Diamond Stones, 270/325 grit
3" (76mm) long set of 4, 35-45Ra (.875 - 1.125um)



514-9-14T Diamond Stones, 270/325 grit
3 1/2" (89mm) long set of 4, 35-45Ra (.875 - 1.125um)



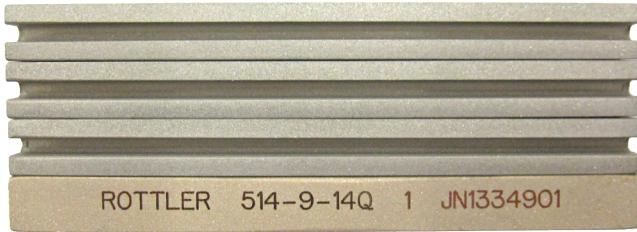
514-9-14Z Diamond Stones, 270/325 grit
4" (102mm) long set of 4, 35-45Ra (.875 - 1.125um)



514-9-14E Diamond Stones, 325/400 grit
3" (76mm) long set of 4, 24-30Ra (.6 - .75um)

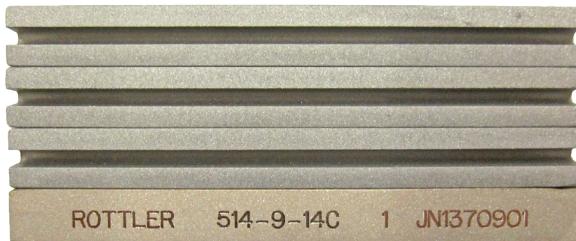


514-9-14Q Diamond Stones, 325/400 grit
3 1/2" (89mm) long set of 4, 24-30Ra (.6 - .75um)



514-9-14X Diamond Stones, 325/400 grit
4" (102mm) long set of 4, 24-30Ra (.6 - .75um)



514-9-14V Diamond Stones, 400 grit
3" (76mm) long set of 4, 15-19Ra (.375 - .475um)**514-9-14C Diamond Stones, 500 grit**
3" (76mm) long set of 4, 18-22Ra (.45 - .55um)**514-9-14P Diamond Stones, 500 grit**
3-1/2" (89mm) long set of 4, 18-22Ra (.45 - .55um)**514-9-14D Diamond Stones, 325/400 grit**
3" (76mm) long set of 4, 18-22Ra (.45 - .55um)
Special required for bores under 2.990" diameter
(75.94mm) .200" (5.1mm) Height**514-9-14U Diamond Stones, 500 grit**
2 1/2" (64mm) long set of 4, 18-22Ra (.45 - .55um)

514-9-14L Diamond Stones, 550 grit

3" (76mm) long set of 4, 15-19Ra (.375 - .475um)

**514-9-14N Diamond Stones, 550 grit**

3 1/2" (89mm) long set of 4, 15-19Ra (.375 - .475um)

**514-9-14G Diamond Stones, 600 grit**

3" (76mm) long set of 4, 8-12Ra (.2 - .3um)

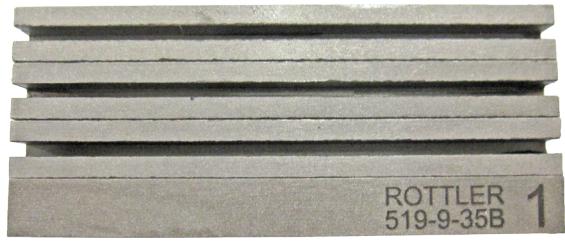
**514-9-14S Diamond Stones, 600 grit**

3 1/2" (89mm) long set of 4, 8-12Ra (.2 - .3um)

**514-9-21G Diamond Stones, 800 grit**

3" (76mm) long set of 4



514-9-21H Diamond Stones, 1000 grit
3" (76mm) long set of 4**514-9-21J Diamond Stones, 1200 grit**
3" (76mm) long set of 4**CBN Stones for Super Finishing with Rottler Precision 4 and 6 Stone Holder Hone Heads****514-9-35C CBN Stones, 320 grit**
3" (76mm) long set of 4, for super finishing**514-9-35D CBN Stones, 400 grit**
3" (76mm) long set of 4, for super finishing**514-9-35B CBN Stones, 600 grit**
3" (76mm) long set of 4, for super finishing

Brushes for Plateau Finishing with Precision 4 and 6 Stone Holder Hone Heads**514-9-14H Brushes, for Plateau Finishing**

.550" (14mm) height, 3 1/2" (89mm) long. Set of 4

Requires one or two size smaller stone holder compared to .312" (7.90mm) height diamond stone.

**514-9-14Y Brushes, for Plateau Finishing**

.395" (10mm) height, 3 1/2" (89mm) long. Set of 4

Requires same or one size smaller stone holder compared to .312" (7.90mm) height diamond stone.



Special Stones for Finishing Aluminum Silicone Cylinders
 (Refer to bulletin No. 284) Requires Rottler Precision 4 or 6 Stone Holder Hone Heads

514-9-18P Special Red Finish Diamonds
 For Final Sizing (set of 4)



514-9-18N Silicone Abrasive Exposing Stones
 For Removing Aluminum (set of 4)



514-9-21 Polishing Felt Pads
 For use with 514-9-21F silicon paste. (set of 4)



514-9-21F Silicone Paste
 For use with 514-9-21 Polishing felt pads



Special Hone Heads - Additional diameter range not listed available on request
Special Hone Head, Dual Stage, 6 Diamonds and 4 Plateau Brushes

514-9M Hone Head, Dual Stage Rough & Finish (10 Stone)
3.9" - 4.1" (99.06MM - 104.14MM)



Special Hone Head 514-9M Dual Stage, Diamond Stones, Set of 6

110-162R Dual Stage Diamond Stones
.0781" Tall (19.83MM), (325/400 Grit) Set of 6



110-163R Dual Stage Diamond Stones
.859" Tall (22.73MM), (325/400 Grit) Set of 6

Image Currently Unavailable

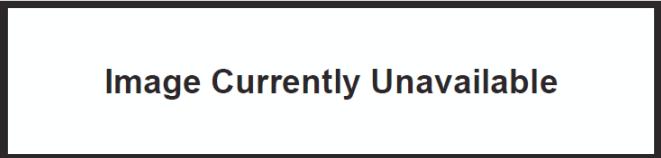
110-163R-01 Dual Stage Diamond Stones
.859" Tall (22.73MM), (140/170 Grit)
3.865" Bore, Set of 6

Image Currently Unavailable

110-163R-03 Dual Stage Diamond Stones

.859" Tall (22.73MM), 600 Grit

3.865" Bore, Set of 6

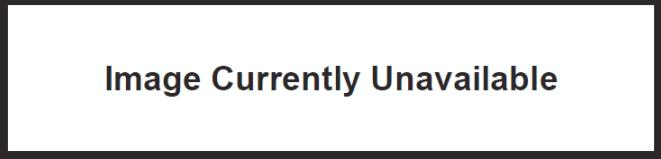
A large black rectangular box containing the text "Image Currently Unavailable".**110-164R Dual Stage Diamond Stones**

.937" Tall (23.80MM), (325/400 Grit) Set of 6

A large black rectangular box containing the text "Image Currently Unavailable".**110-164R-01 Dual Stage Diamond Stones**

.937" Tall (23.80MM), (140/170 Grit)

4.110" Bore, Set of 6

A large black rectangular box containing the text "Image Currently Unavailable".**110-164R-03 Dual Stage Diamond Stones**

.937" Tall (23.80MM), 60 Grit

4.110" Bore, Set of 6

A large black rectangular box containing the text "Image Currently Unavailable".

Special Dual Stage Hone Head Brush Sets

124-24 Brush Set, Dual Stage Hone Head
.781 Tall (19.84MM) Set of 4

Image Currently Unavailable

124-25 Brush Set, Dual Stage Hone Head
.859 Tall (21.82MM) Set of 4

Image Currently Unavailable

124-26 Brush Set, Dual Stage Hone Head
.937 Tall (23.80MM) Set of 4

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Special Hone Head Single Stage, 12 Stone**514-9N Hone Head, Single Stage (12 Stone)**

3.9" - 4.375" (99.06MM - 111.125MM), H-70

**110-171-01 Single Stage Diamond Stones**

.0781" Tall (19.83MM), 600 Grit Set of 12

**110-171-02 Single Stage Diamond Stones**

.0781" Tall (19.83MM), 1200 Grit, Set of 12

**110-171-03 Single Stage Diamond Stones**

.0781" Tall (19.83MM), (325/400 Grit) - Set of 12



Special Hone Head, 1.97" - 2.32" (50mm - 59mm) , 6 Stone Holder**LO-6568-161 Hone Head, Single Stage (6 Stone)**

1.97" - 2.32" (50MM - 59MM)

Image Currently Unavailable

110-174-01 Diamond Stones

.25 x .640 x 4.25 (6.35MM x 16.26MM x 107.95MM)
(325/400 Grit) - Set of 5



Special Hone Head, 1.69" - 1.93" (43 - 49mm) , 5 Stone Holder**LO-6568-160 Hone Head, Single Stage**

(5 Stone) 1.69" - 1.93" (43MM - 49MM)

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110-173-01 Diamond Stones

.25 x .5 x 4.25 (6.35MM x 12.7MM x 107.95MM)
(325/400 Grit) - Set of 5



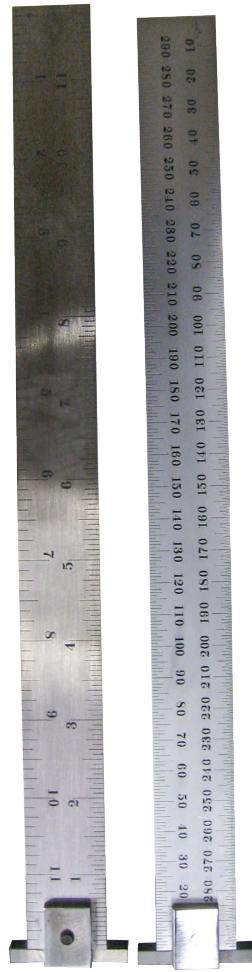
Optional Measuring Equipment

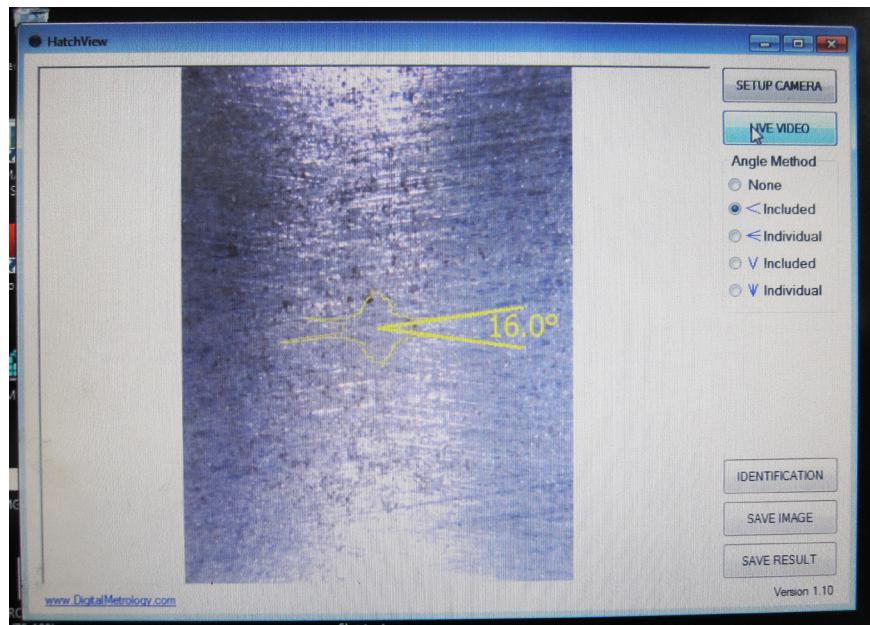
201 Mitutoyo Surface Tester Surftest 201



514-8-27 Stone Depth Scale and Holder Assembly (inch)

514-8-27F Stone Depth Scale and Holder Assembly (metric)



Camera & Software To View Cross Hatch Angle**514-14-29A Camera****514-14-29B Software Package**

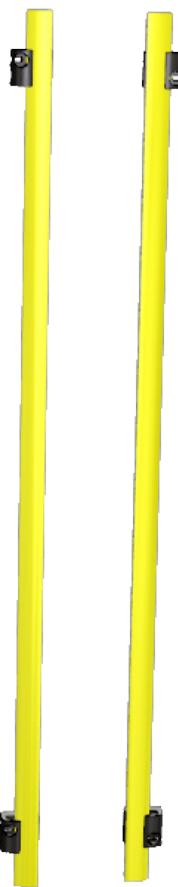
Adapter for Pin Honing Mandrels

514-9V Adapter

To drive universal honing mandrels such as Sunnen and Delapena



Safety Shut Down Protection System



514-13-26 Laser Light Curtain

Covering front opening of machine enclosure