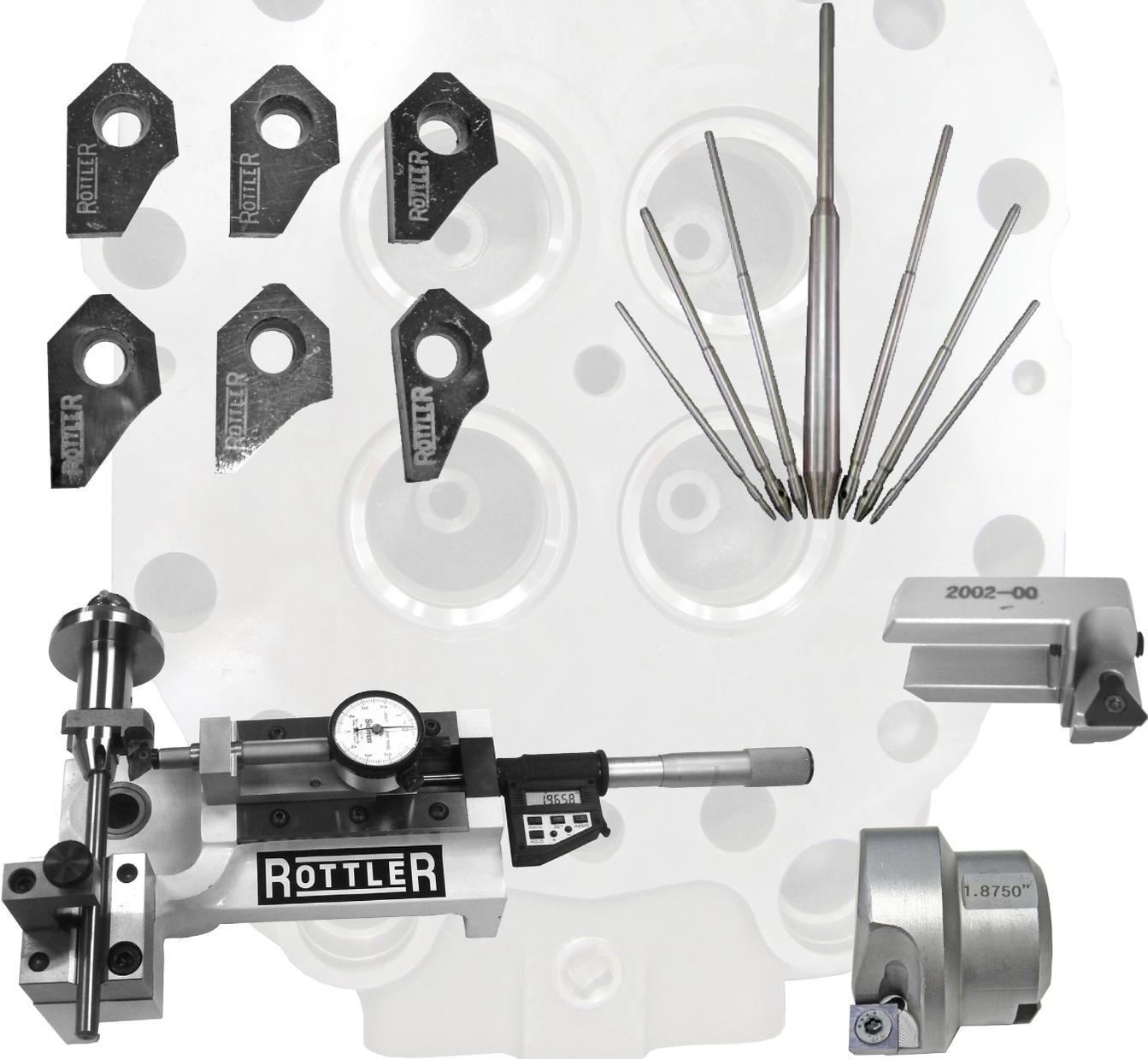


# ROTTLER

## SG80MTS OPTIONAL EQUIPMENT CATALOG





## **ORDERING PROCEDURE**

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

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

Have the following information handy to expedite the ordering process:

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

You may also contact us via e-mail with the above information. Send e-mail requests to:  
[parts@rottermfg.com](mailto: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**



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## Rottler UNIPILOT Spindle Adapters and Tool Holders

RBHAR40UPT spindle adapter can be assembled with UPT5200SH and UPT5400SH for complete quick change UNIPILOT tooling for production applications.

### RBHAR40UPT2 UNIPILOT Spindle Adapter

Extended 2" (50mm) for SG80MTS for use with UPT5200SH and UPT5400SH Tool holders listed below.



### UPT5200SH UNIPILOT Tool Holder

For .375" (9.52mm) UNIPILOTS, for SG80A and SG80MTS models only, for use with TH2000, TH2001, TH2002 for Valve Seat diameter range 0.570 - 2.3600" (14.48 - 60.00mm)



### UPT5400SH UNIPILOT Tool Holder

For .375" (9.52mm) UNIPILOTS, for SG80A and SG80MTS models only, for use with TH2003, TH2004, TH2005 for Valve Seat diameter range 1.27" (32.26mm) - 4.724" (120mm)



## Spherical Self Aligning Spindle Adapters

For Fixed Pilot applications

### RBHAR40 Spring Free Spherical Self Aligning Spindle Adapter

Patented for Rottler ISO 40 Spindle Taper for large 1.500: Diameter spherical heads



## Suggested Tool holders and Insert Holders

For 20.00mm and .375" Pilot Shank Diameters

### BH20-R Spring Free Spherical Self Aligning Large Tool Holder

For 20.00mm shank Pilots For TH3005 & TH3006 Tip Holders from 2.362 - 4.330"  
(60 - 110mm) diameter seats



### BH20-RW Spring Free Spherical Self Aligning Extra Large Tool Holder

For 20.00mm shank Pilots For TH3007 & TH3008 Tip Holders from 3.740 - 5.905"  
(95 - 150mm) diameter seats



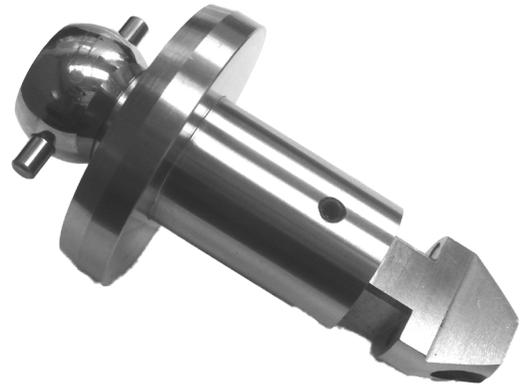
**BH375WR1 Spring Free Spherical Self Aligning Tool Holder**

For large diameter - Diesel Applications, For TH2003 & TH2004 Tip Holders from 1.570 - 3.150" (40 - 80mm)



**BH375R1 Spring Free Spherical Self Aligning Tool Holder**

For Small and Mid-Size Diameter. For Insert Holders TH2000, TH2001, TH2002 Automotive Applications From .750 - 2.400" (20 - 60mm)

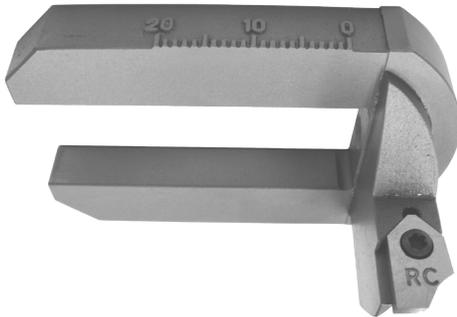


**Large Insert Holders Range (3.543" to 5.900" / 90.00mm to 150.00mm)**

To be used with BH20-R and BH20-RW

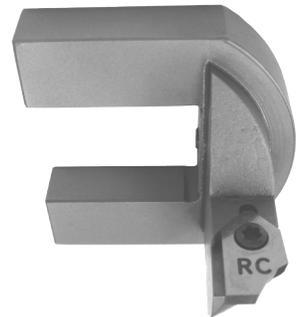
**TH3005**

For RCC style Insert only using RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm)



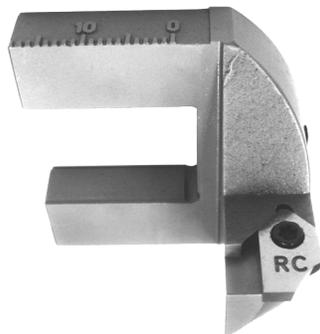
**TH3006**

For RCC style Insert only using RBH20-RW Large tool holder. Range 3.700 - 4.606" (94.00 - 117.00mm)



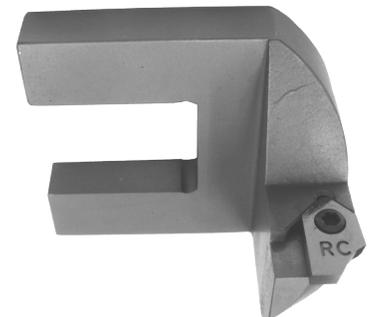
**TH3007**

For RCC style Insert only using RBH20-RW Large tool holder. Range 4.370 - 5.236" (111.00 - 133.00mm)



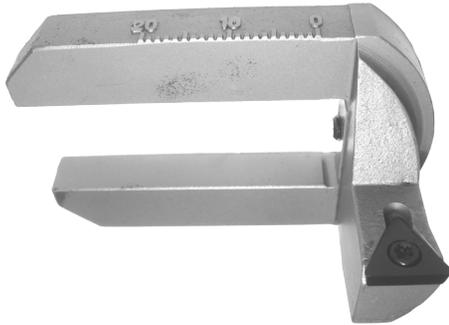
**TH3008**

For RCC style Insert only using RBH20-RW Large tool holder. Range diameter 5.039 - 5.905" (128.00 - 150.00mm)

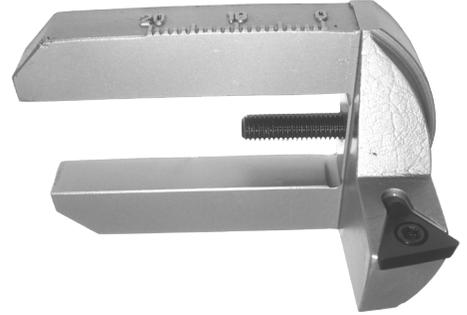


**TH3005-00**

00 Degree using triangular Rottler style insert RT322 on the RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm) (for counterboring large diameter seats)

**TH3005-10**

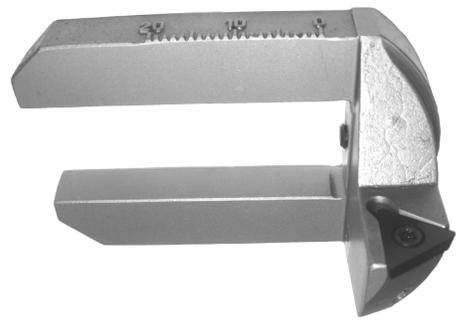
10 Degree using triangular Rottler style insert RT322 on the RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm) (FOR HARD SEAT APPLICATIONS)

**TH3005-20**

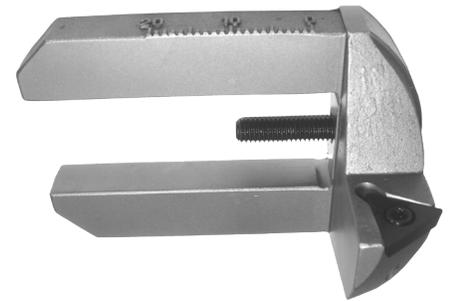
20 Degree using triangular Rottler style insert RT322 on the RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm) (FOR HARD SEAT APPLICATIONS)

**TH3005-30**

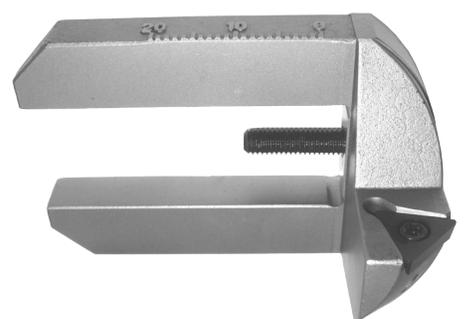
30 Degree using triangular Rottler style insert RT322 on the RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm) (FOR HARD SEAT APPLICATIONS)

**TH3005-35**

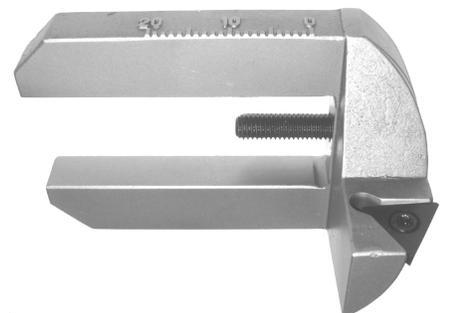
35 Degree using triangular Rottler style insert RT322 on the RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm) (FOR HARD SEAT APPLICATIONS)

**TH3005-45**

45 Degree using triangular Rottler style insert RT322 on the RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm) (FOR HARD SEAT APPLICATIONS)

**TH3005-60**

60 Degree using triangular Rottler style insert RT322 on the RBH20-RW Large tool holder. Range 3.543 - 5.905" (90.00 - 150.00mm) (FOR HARD SEAT APPLICATIONS)



## Insert Holders to be used with BH375-WR1 and BH375-R1 Tool Holders

### TH1999 Tip Holder

Range using the BH600-R1: .570 - 1.250" (14.48 - 33.52mm) (Using RCA630 Cutting Insert for minimum range) Range with BH375R1: .800 - 1.320" (20.32 - 33.52mm) Using RCA630 Cutting Insert for minimum range)



### TH2000 Tip Holder

Range using the BH600-R1: .597 - 1.180" (15.16 - 30mm) (Using RCA630 Cutting Insert for minimum range) Range with BH375R1: .800 - 1.395" (20.32 - 35.43mm) Using RCA630 Cutting Insert for minimum range)



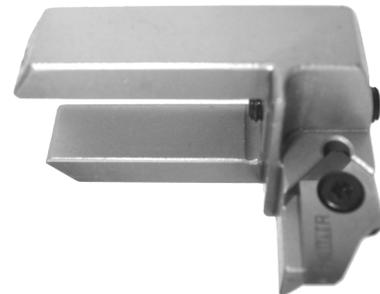
### TH2001 Tip Holder

Range using the BH600-R1: .850 - 1.625" (21.6 - 41.3mm) (Using RCA630 Cutting Insert for minimum range) Range with BH375R1: 1.00" - 1.800" (25.4 - 35.4mm) Using RCA630 Cutting Insert for minimum range)



### TH2002 Tip Holder

Range using the BH600-R1: 1.200 - 2.360" (30.48 - 60.0mm) (Using RCA630 Cutting Insert for minimum range) Range with BH375R1: 1.270 - 2.360" (32.26 - 59.94mm) Using RCA630 Cutting Insert for minimum range)



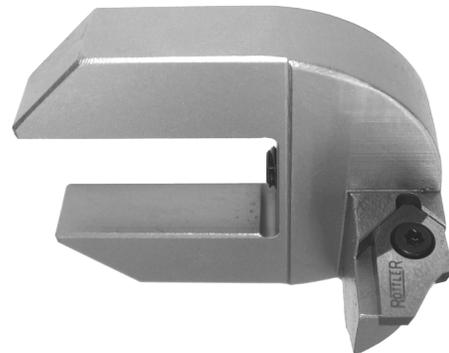
### TH2003 Tip Holder

Range: 1.270 - 2.360" (32.26 - 60mm) (Using RCA630 Cutting Insert for minimum range) For BH375WR1 Tool holder Only.



### TH2004 Tip Holder

Range: 1.850 - 3.150" (47 - 80mm) (Using RCA630 Cutting Insert for minimum range) For BH375WR1 Tool holder Only.



**TH2005 Tip Holder**

Range: 2.625 - 4.724" (66.7 - 120mm) (Using RCA630 Cutting Insert for minimum range) For BH375WR1 Tool holder Only.

**Triangular Insert Tip Holders**

For Valve Seat Installation Counterboring for RT211 (1/4" I.C.) Rottler Triangular Insert Only

**TH2000-00**

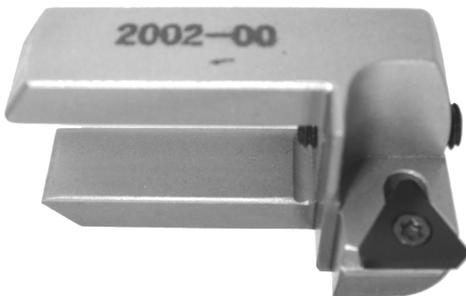
00 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range with BH600-R1 Tool holder .1.055 - 1.400" - with BH375R1: 1.27 - 1.58"

**TH2001-00**

00 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.100 - 1.570" (28 - 42mm)

**TH2002-00**

00 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)

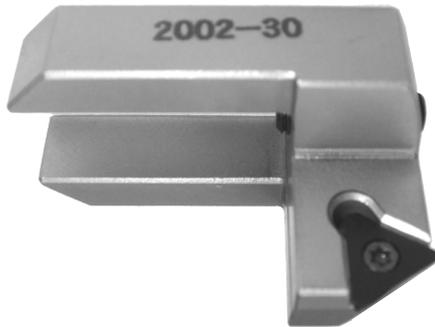
**TH2002-20**

20 Degree Triangular Tip Holder For 20 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)

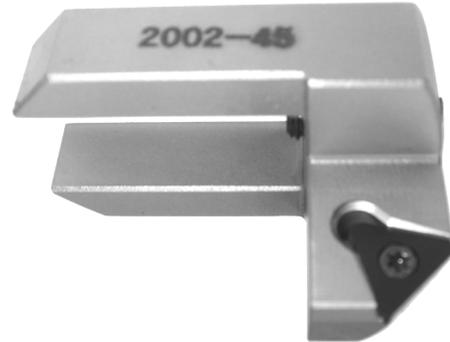


**TH2002-30**

30 Degree Triangular Tip Holder For 30 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)

**TH2002-45**

45 Degree Triangular Tip Holder For 45 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)

**TH2003-00**

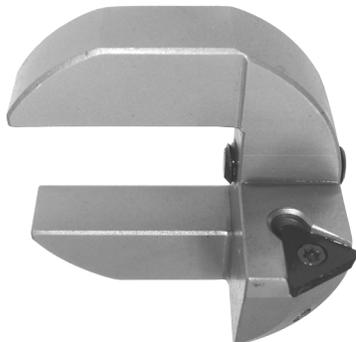
00 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)

**TH2003-20**

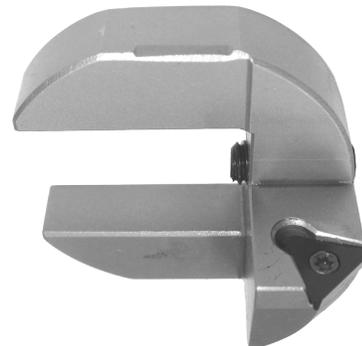
20 Degree Triangular Tip Holder For 20 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)

**TH2003-30**

30 Degree Triangular Tip Holder For 30 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)

**TH2003-45**

45 Degree Triangular Tip Holder For 45 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375R1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40-60mm)

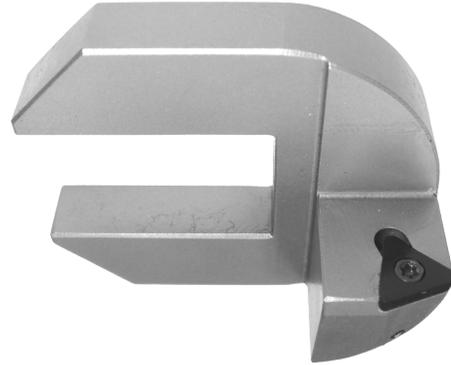


**TH2004-00**

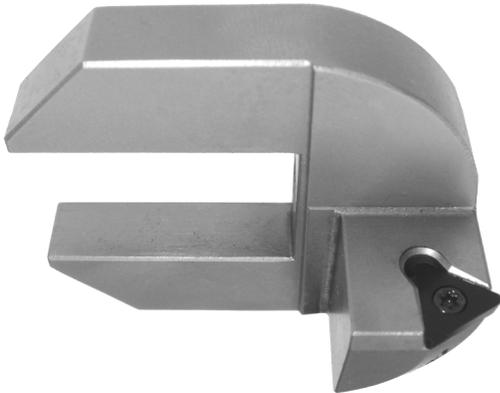
00 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 2.280 - 3.150" (58 - 80mm)

**TH2004-20**

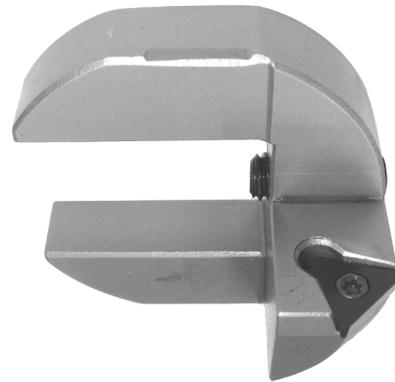
20 Degree Triangular Tip Holder For Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 2.280 - 3.150" (58 - 80mm)

**TH2004-30**

30 Degree Triangular Tip Holder For Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 2.280 - 3.150" (58 - 80mm)

**TH2004-45**

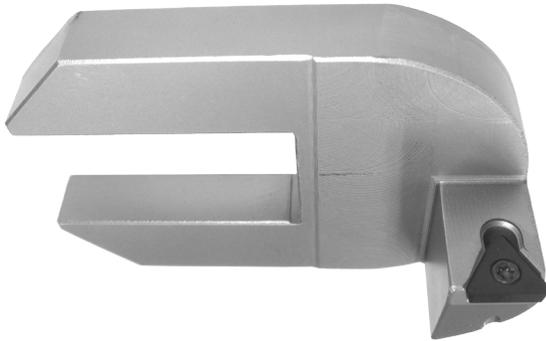
45 Degree Triangular Tip Holder For Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 2.280 - 3.150" (58 - 80mm)



## Insert Holder for Large Seat to be Used Only on BH375W-RI

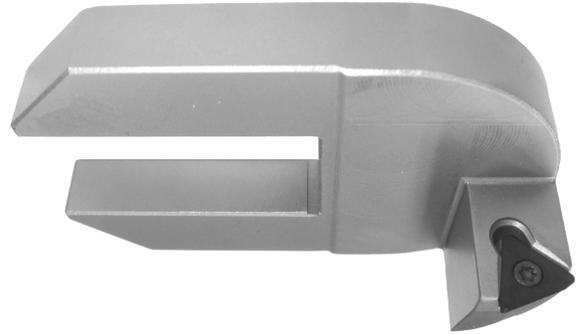
### TH2005-00

00 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 3.071" - 4.724" (78mm - 120mm)



### TH2005-20

20 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 3.071" - 4.724" (78mm - 120mm)



### TH2005-30

30 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 3.071" - 4.724" (78mm - 120mm)

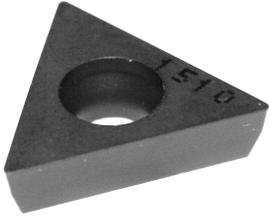
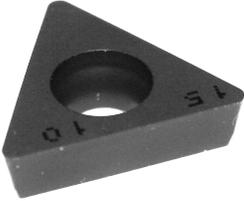
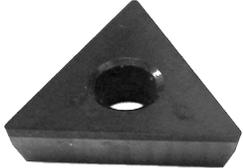


### TH2005-45

45 Degree Triangular Tip Holder For Valve Seat Installation Counterboring. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 3.071" - 4.724" (78mm - 120mm)



## Triangular Inserts and T-7 Torx Driver for Insert Holders

<p><b>RT211 Triangular Insert</b>                  1/4" (6.35mm) I.C., 1/64" radius                  FOR COUNTERBORING and SINGLE                  ANGLE INSERT HOLDERS</p> 	<p><b>RT212 Triangular Insert</b>                  1/4" (6.35mm) I.C., 1/32" radius                  FOR COUNTERBORING and SINGLE                  ANGLE INSERT HOLDERS</p> 	<p><b>RT321 Triangular Insert</b>                  3/8 1/64" (.397mm) Radius (3/8                  triangle Insert holders only) FOR                  COUNTERBORING AND STRAIGHT                  ANGLE I FOR INSERT HOLDERS                  THAT USE TRIANGLE INSERT                  STYLE.</p> 
<p><b>RT322 Triangular Insert</b>                  3/8 1/32" (.397mm) Radius (3/8                  triangle Insert holders only) FOR                  COUNTERBORING AND STRAIGHT                  ANGLE I FOR INSERT HOLDERS                  THAT USE TRIANGLE INSERT                  STYLE.</p> 	<p><b>RT211CBN</b>                  CBN Insert, Triangle, 1/4" IC 1/64"                  Radius, Hard Valve Seats</p> 	<p><b>RT321CBN</b>                  CBN Insert, Triangle, 3/8" IC 1/64"                  Radius, Hard Valve Seats</p> 

### T7D T7 Torx Driver

For RT-211 & RT-212 (1/4" I.C.) insert



## Pre-Settable Adjustable Diameter Valve Seat Housing Cutterheads

### 7630D Pre-settable Adjustable Diameter Valve Seat Housing Cutterhead

Range 2.08 - 2.68" (52.8 - 68.72mm) Designed for .375" (9.52mm) Shank Pilots.

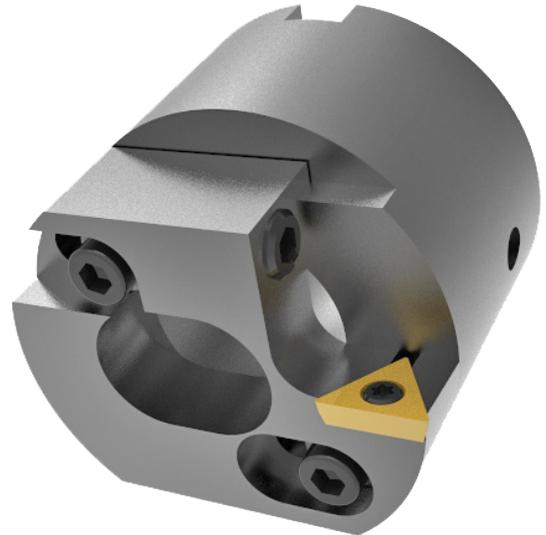
Note: Requires RS105 Driver and BM Micrometer



### 7630 Pre-Settable Adjustable Diameter Valve Seat Housing Cutterhead

Range 2.599 - 3.233" (66.015 - 82.118mm) Designed for 20mm Shank Pilots.

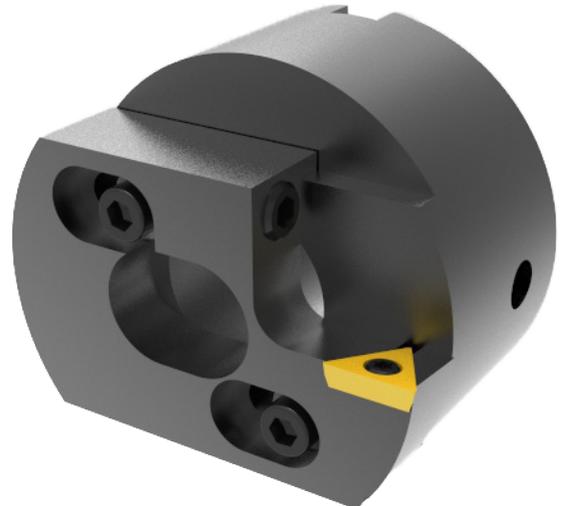
Note: Requires BD3175 Driver and BM20 Micrometer



### 7630G Pre-Settable Adjustable Diameter Valve Seat Housing Cutterhead

Range 3.180" - 3.790" (80.84 - 96.27mm) designed for 20mm Shank Pilots.

Note: Requires BD3175 Driver and BM20 Micrometer



## Rottler R40 Taper Spindle Adapters

### COLLETKITR40

Collet chuck set of 10 collets Including: (1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 3/4, 7/8, 1.00" Spring Collets) Collet Chuck Spindle Adapter with Collet Nut for Rottler R40 Spindle Taper and Spanner Wrench for Collet Chuck.



### SAD375R40EL2 Spindle Adapter

For Rottler R40 Spindle Taper for .375" (9.52mm) Shank Diameter Tools, reamers, drills, etc includes 2 locking set screws



### SAD750R40 Spindle Adapter

For Rottler R40 Spindle Taper for 3/4" (19.05mm) Shank Diameter Tools, reamers, drills, etc includes 2 locking set screws



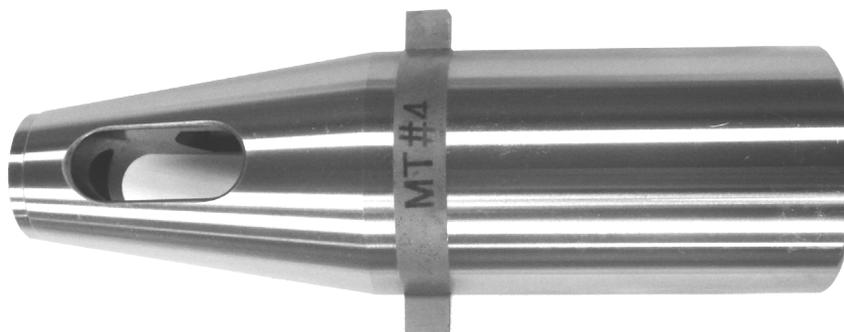
**R40MT2 Adapter for Morse #2 to Rottler ISO 40 Spindle Taper**



**R40MT3 Adapter for Morse #3 to Rottler ISO 40 Spindle Taper**



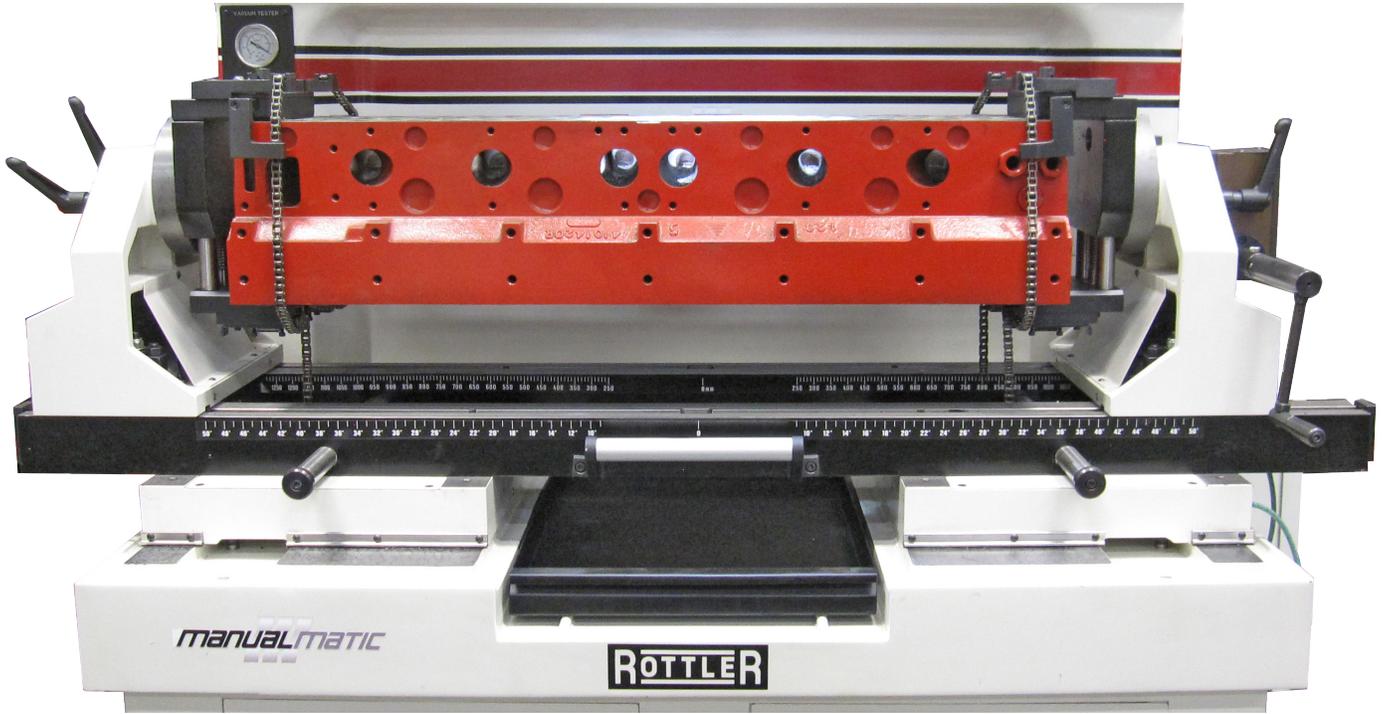
**R40MT2EL2 Adaptor for Morse #2 to Rottler ISO 40 Spindle Taper (2" Extended Length)**



## Special Fixtures, Clamps and Parallels

### PER-FIX-MH-CAT3500

Pneumatic Upclamping Production Fixture for 4 CAT3500 Cylinder Heads including supports.



### 2DEGREE-TILT

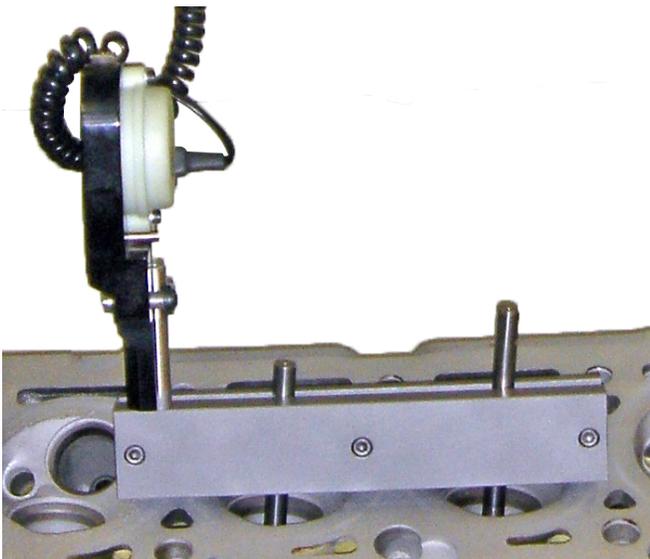
Tilt Fixtures for large single cylinder head applications including adjustable base plate, Set of two 1-7/8" and 4" parallels; requires one set of Clamp Towers (7242N)



**7242N Clamp Tower Assembly**  
Complete with Lower Base Plates



**CANTEDFIX**  
Canted Fixture for leveling Canted cylinder heads on any fixed pilot  
Seat and Guide Machine



### Suggested Basic Tooling

**T7D**

T7 Torx driver for 1/4" insert (straight angle insert holders only)



**T8D**

T8 Torx Tip Holding Screw Driver



**T15D**

T15 Torx Tip Holding Screw Driver



**PRW20**

Pilot removable wrench for 20.00mm shack Pilots only



**PRW375**

Pilot Removal Wrench for .375" pilot shank.



**ALLEN-KEYS-IN**

INCH Ball end hex Allen Key Set Drivers From: 1/16 - 3/8"



**ALLEN-KEYS-MM**

METRIC Ball end hex Allen Key Set



**Micrometers Setting Fixtures and Measurement Tools**

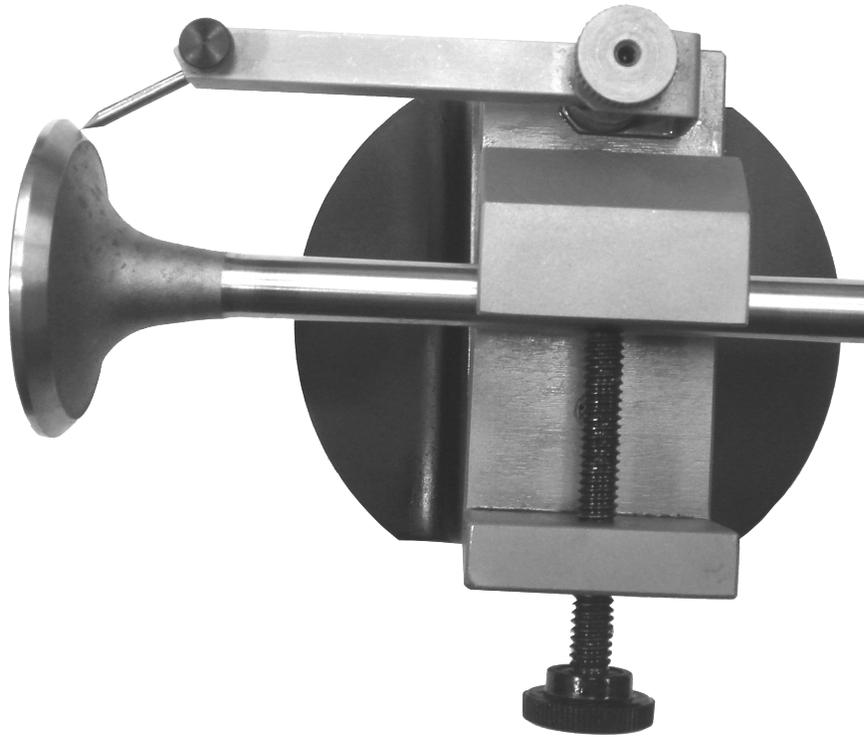
**CALFIXT20**

Calibration fixture for dual Insert RCC Style on 20mm shank holders Including 502-9-9A Indicator (.001" Resolution)



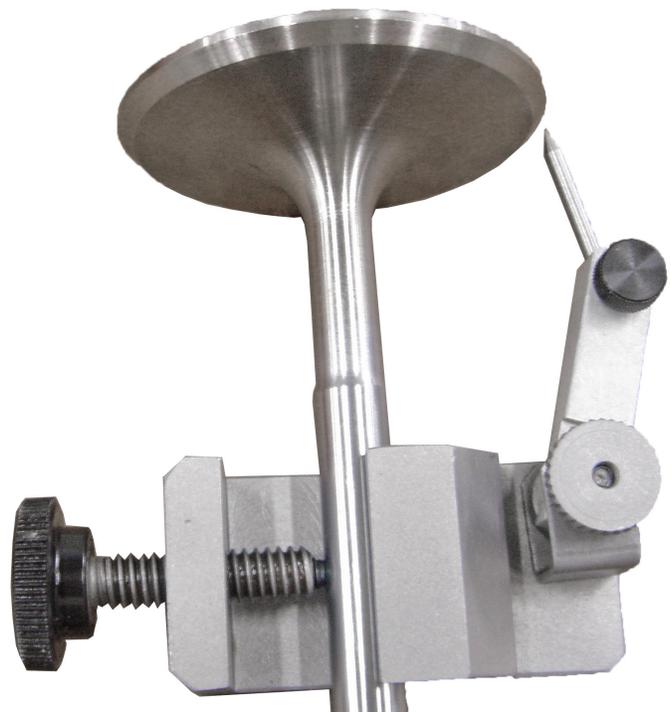
**DSP20**

Table mount tool setting device with Interchangeable Point for 20.00mm Shank pilots



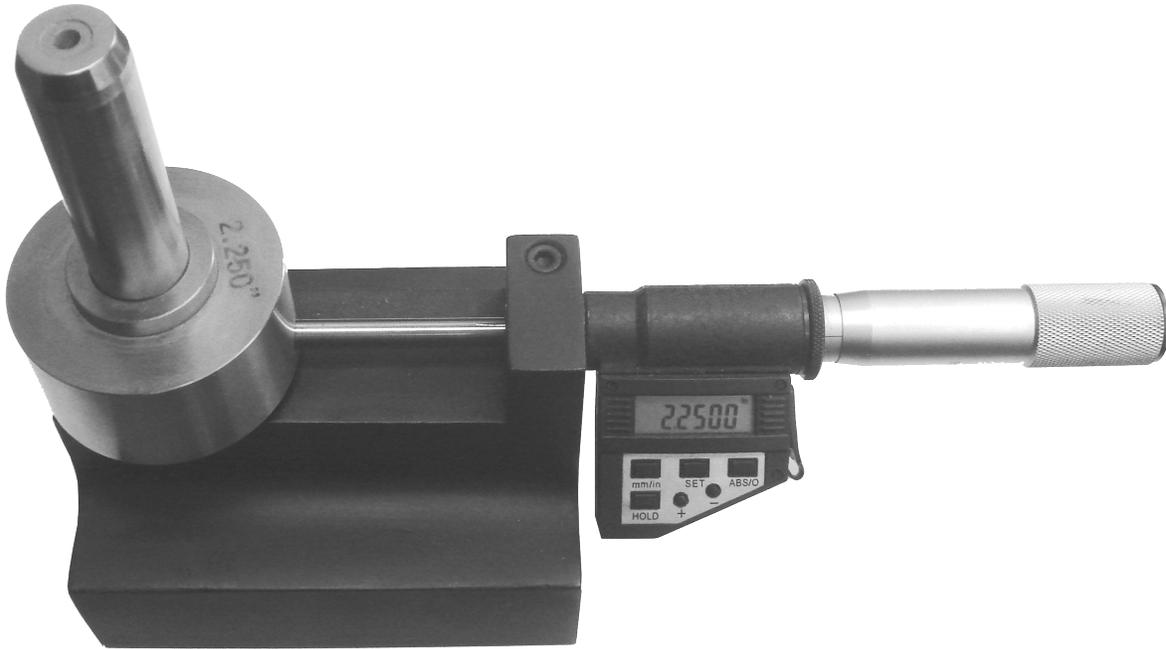
**DSP**

Tool setting Device with Interchangeable Point



**BM20**

Counterboring Micrometer Assembly with Digital Reading inch and metric (2.200 - 5.400") For 20mm shank diameter tooling, including Setting Standard

**BM**

Boring Micrometer, Digital Reading Inch and Metric (.800 - 2.80") with setting standard for .375" (9.52mm) and 6.00mm (152.40mm) shank diameter



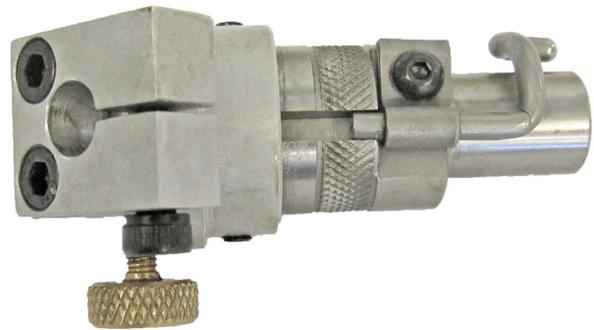
**6-1SETTINGFIX**

Six in 1 measuring Fixture (Pilot OD, Valve Stem OD, Set diameter On profile inserts, Setting 90 degree counterboring inserts, Set adjustable milling head cutters, Check alignment on valve stem and check roundness on valve stems.



**VSG102-375**

Precision Valve Seat Concentricity Gage Base Only for .375" Pilot Shank (Must Order dial indicator .0001" or .002mm Metric indicator)



**VSG2000**

Precision Valve Seat Concentricity Gage Base Only for 20.00mm Pilot Shank  
Range 2.362 - 5.905" (60.00 - 150.00mm) Must Order dial indicator .0001" or  
.002mm Metric indicator



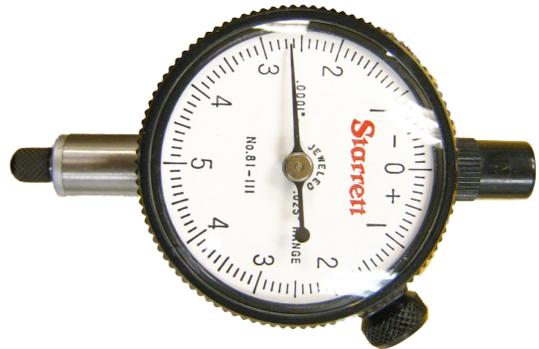
**502-11-39L**

Mechanical run out indicator for Precision bore adjustment  
(.002mm resolution) METRIC



**502-11-39D**

Mechanical run out indicator for Precision bore adjustment  
(.0001 resolution) INCH



## CUTTING INSERTS

NOTE: For Recommended Inserts, see Inserts and Profile Catalog

Select the correct Insert profile to match the original factory valve seat shape. The relief angle and the seating surface width and angle must match.

All specifications can be obtained from the original manufacturer's manual.

Select the proper Insert base on the application RCA insert profiles are design for regular three angle seat profiles, make sure the that top angle will not go over the seat insert,

RCB inserts Profiles are design for a multiple angles and radius and is recommended for High performance profiles.

## Cutting Insert Sharpener for Multi Angle Inserts

### **BWSDH20 Heavy Duty Diamond Wheel Insert Sharpener**

With each honing brush for 20.00mm and 9.52mm Shank Tooling



**BWS02 Diamond Wheel Cutting Bit Sharpener - Single Wheel**



### Rottler Profile Cutter Inserts

RCAXXX Carbide Cutting Bits RC multi-angle A Blank (Standard Profile)

RCBXXX Carbide Cutting Bits RC multi-angle B Blank (standard Profile)

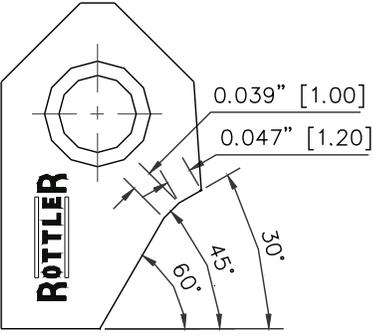
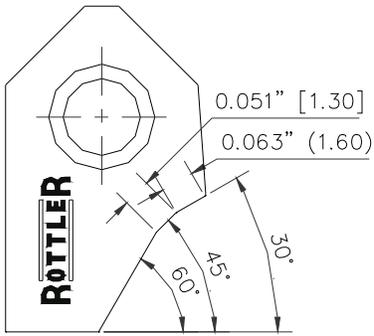
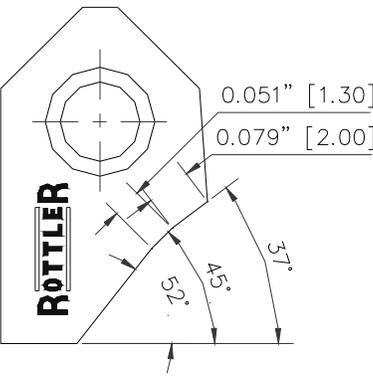
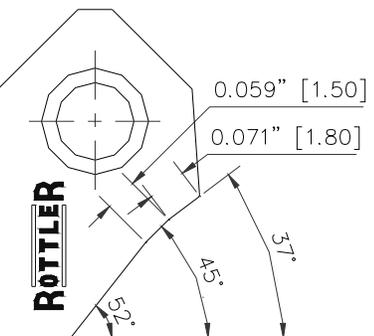
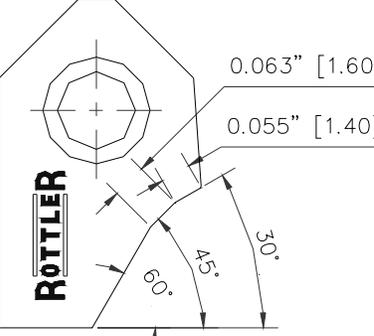
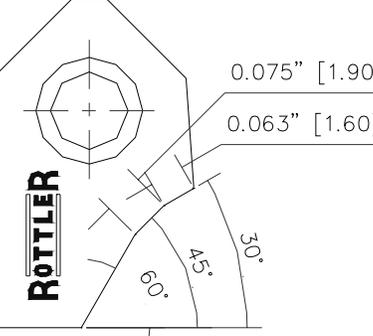
RCCXXX Carbide Cutting Bits RCC Single Angle C Blank (Standard Profile) for T15 Screw (for large tooling only)

NOTE: See Carbide inserts spreadsheet for list of additional inserts RCAXXX reference. (Large tooling will take RCCXXX insert type only)

### Automotive Import, Domestic and Diesel Inserts

#### Suggested 45 Degree Seat Inserts

NOTE: Orders of 20+ of the same RCA insert receive 10% discount. Orders of 50+ of the same RCA insert receive 20% discount. Does not apply to mix-and-match orders.

<p><b>RCA001 Carbide Seat Insert</b> 30-45-60 / 1.2 -1.0mm</p> <p>RCA-001 (14 RC BIT KIT)</p> 	<p><b>RCA004 Carbide Seat Insert</b> 30-45-60 / 1.6 -1.3mm</p> <p>RCA-004 (14 RC BIT KIT)</p> 	<p><b>RCA005 Carbide Seat Insert</b> 37-45-52 / 2.0 -1.3mm</p> <p>RCA-005 (14 RC BIT KIT)</p> 
<p><b>RCA007 Carbide Seat Insert</b> 37-45-52 / 1.8 -1.5mm</p> <p>RCA-007 (14 RC BIT KIT)</p> 	<p><b>RCA014 Carbide Seat Insert</b> 30-45-60 / 1.4 -1.6mm</p> <p>RCA-014 (14 RC BIT KIT)</p> 	<p><b>RCA026 Carbide Seat Insert</b> 30-45-60 / 1.6 -1.9mm</p> <p>RCA-026 (14 RC BIT KIT)</p> 

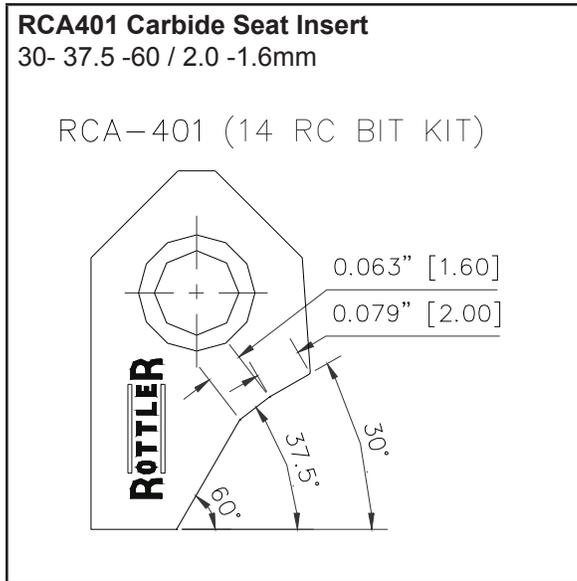
**Suggested 30 Degree Seat Inserts**

NOTE: Orders of 20+ of the same RCA insert receive 10% discount. Orders of 50+ of the same RCA insert receive 20% discount. Does not apply to mix-and-match orders.

<p><b>RCA301 Carbide Seat Insert</b> 5-30-45 / 2.0 -1.3mm</p> <p>RCA-301 (14 RC BIT KIT)</p>	<p><b>RCA303 Carbide Seat Insert</b> 15-30-45 / 1.4 -1.5mm</p> <p>RCA 303</p>	<p><b>RCA307 Carbide Seat Insert</b> 15-30-45 / 1.8 -1.6mm</p> <p>RCA-307 (14 RC BIT KIT)</p>
<p><b>RCA348 Carbide Seat Insert</b> 10-30-60 top width 2.2mm, seat width 1.8mm OFFSET Insert (For Detroit 53 Series Cylinder Head)</p> <p>RCA 348</p>		

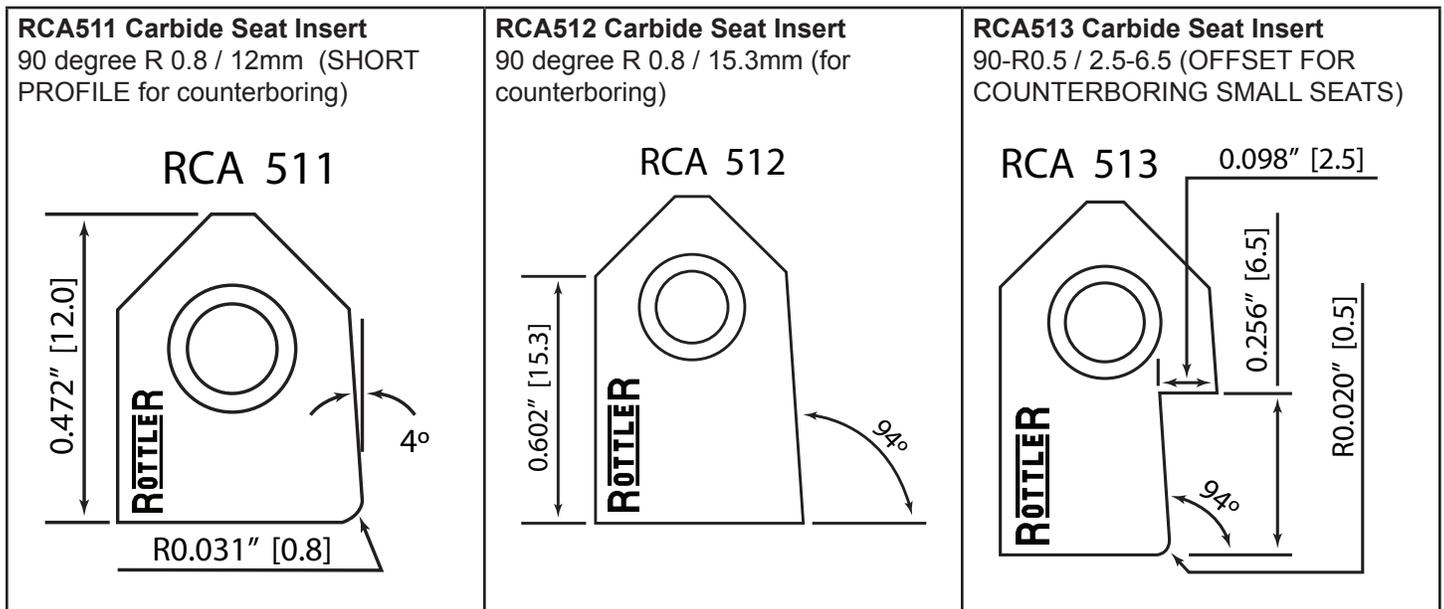
### Suggested 37.5 Degree Seat Inserts

NOTE: Orders of 20+ of the same RCA insert receive 10% discount. Orders of 50+ of the same RCA insert receive 20% discount. Does not apply to mix-and-match orders.



### Suggested Straight Angle Seat Inserts

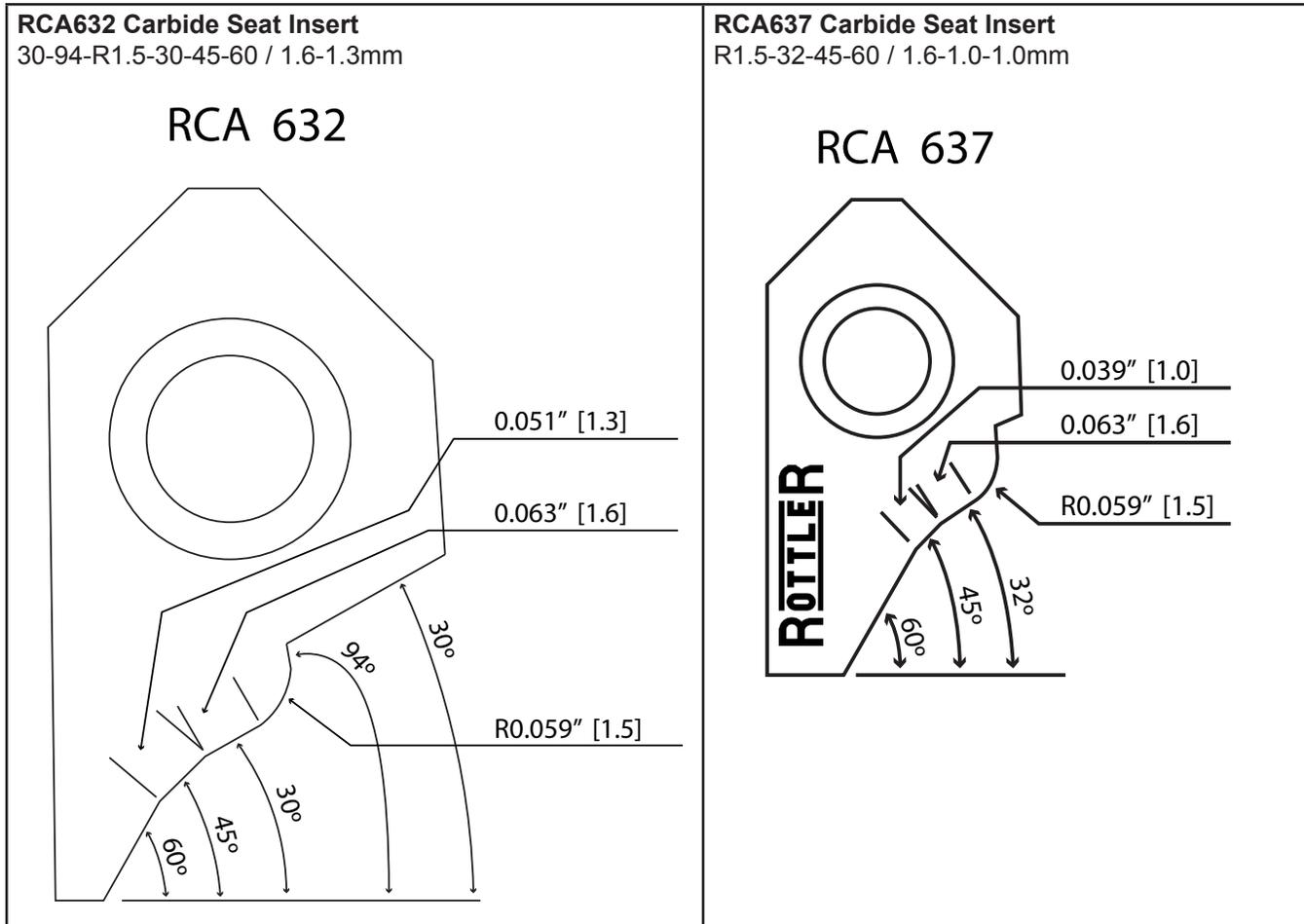
NOTE: Orders of 20+ of the same RCA insert receive 10% discount. Orders of 50+ of the same RCA insert receive 20% discount. Does not apply to mix-and-match orders.



<p><b>RCA501 Carbide Seat Insert</b> 20 degrees / 8.8mm</p> <p>RCA 501</p>	<p><b>RCA521 Carbide Seat Insert</b> 25 degrees / 8.5mm</p> <p>RCA 521</p>	<p><b>RCA502 Carbide Seat Insert</b> 30 degrees / 9.0mm</p> <p>RCA-502 (14 RC BIT KIT)</p>
<p><b>RCA503 Carbide Seat Insert</b> 45 degrees / 8.9mm</p> <p>RCA 503</p>	<p><b>RCB506 Carbide Seat Insert</b> 70 degrees / 16.8mm</p> <p>RCB 506</p>	

**Suggested 45 Degree Seat Inserts for Multi-Valves Cylinder Heads**

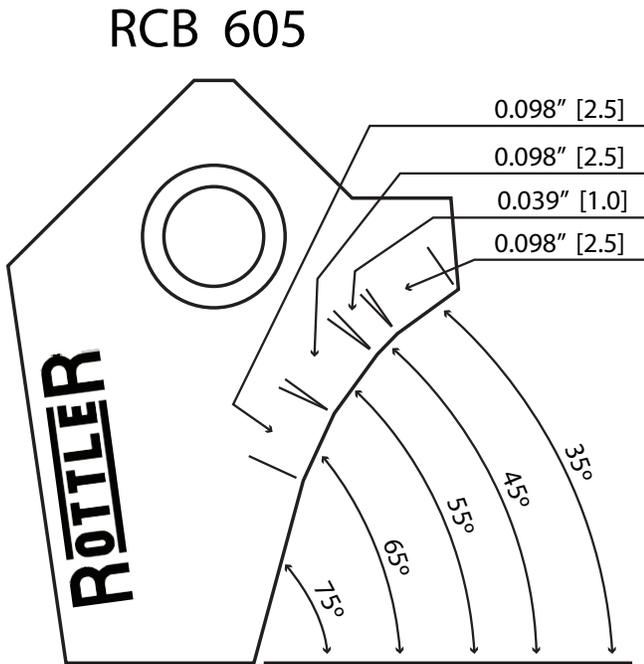
NOTE: Orders of 20+ of the same RCA insert receive 10% discount. Orders of 50+ of the same RCA insert receive 20% discount. Does not apply to mix-and-match orders.



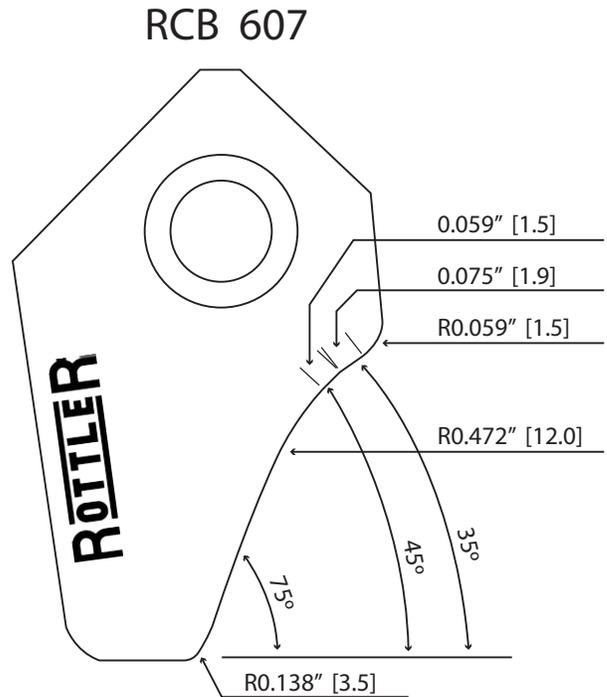
**High Performance Inserts**

NOTE: Orders of 20+ of the same RCA insert receive 10% discount. Orders of 50+ of the same RCA insert receive 20% discount. Does not apply to mix-and-match orders.

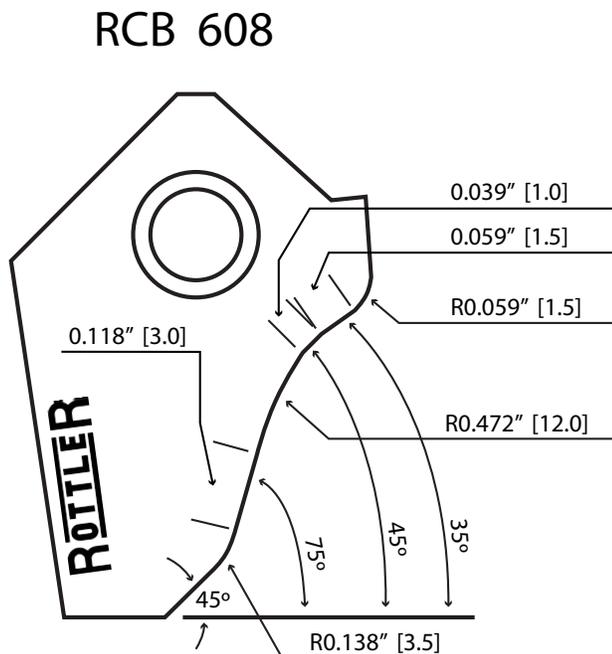
**RCB605 Carbide Seat Insert**  
35-45-55-65-75 / 2.5-1.0-2.5-2.5mm



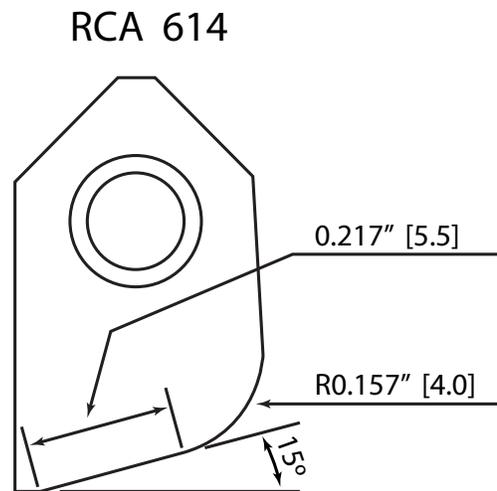
**RCB607 Carbide Seat Insert**  
R1.5-35-45-R12-75-R3.5 / 1.9-1.5-1.5-3.0mm



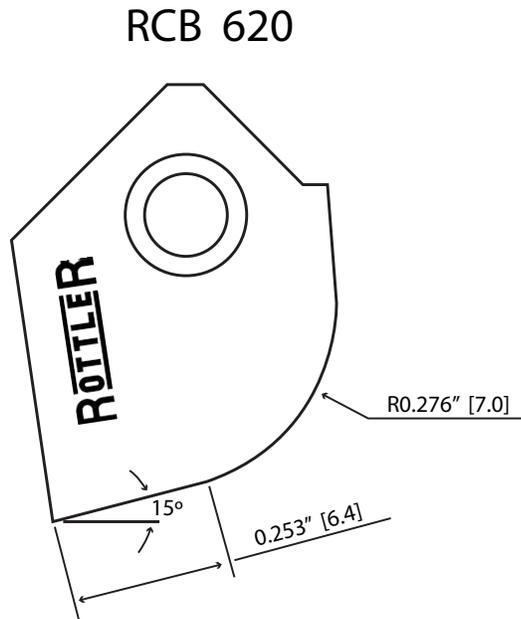
**RCB608 Carbide Seat Insert**  
R1.5-35-45-R12-75-R3.5-45 / 1.9-1.5-1.0-3.0mm



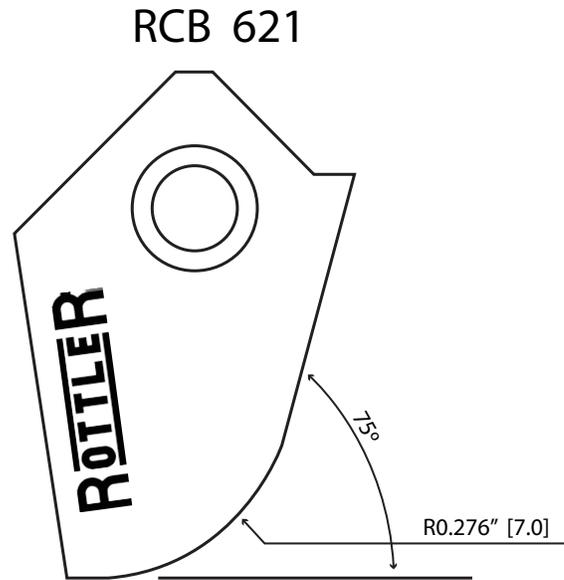
**RCA614 Carbide Seat Insert**  
R4 -15 / 5.52mm



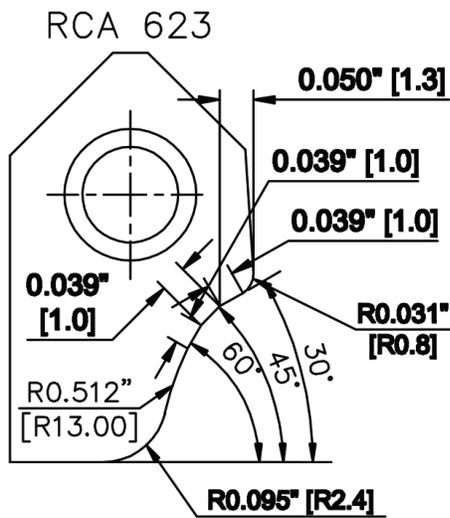
**RCB620 Carbide Seat Insert**  
R7 -15



**RCB621 Carbide Seat Insert**  
75 - R7 / 12.0mm

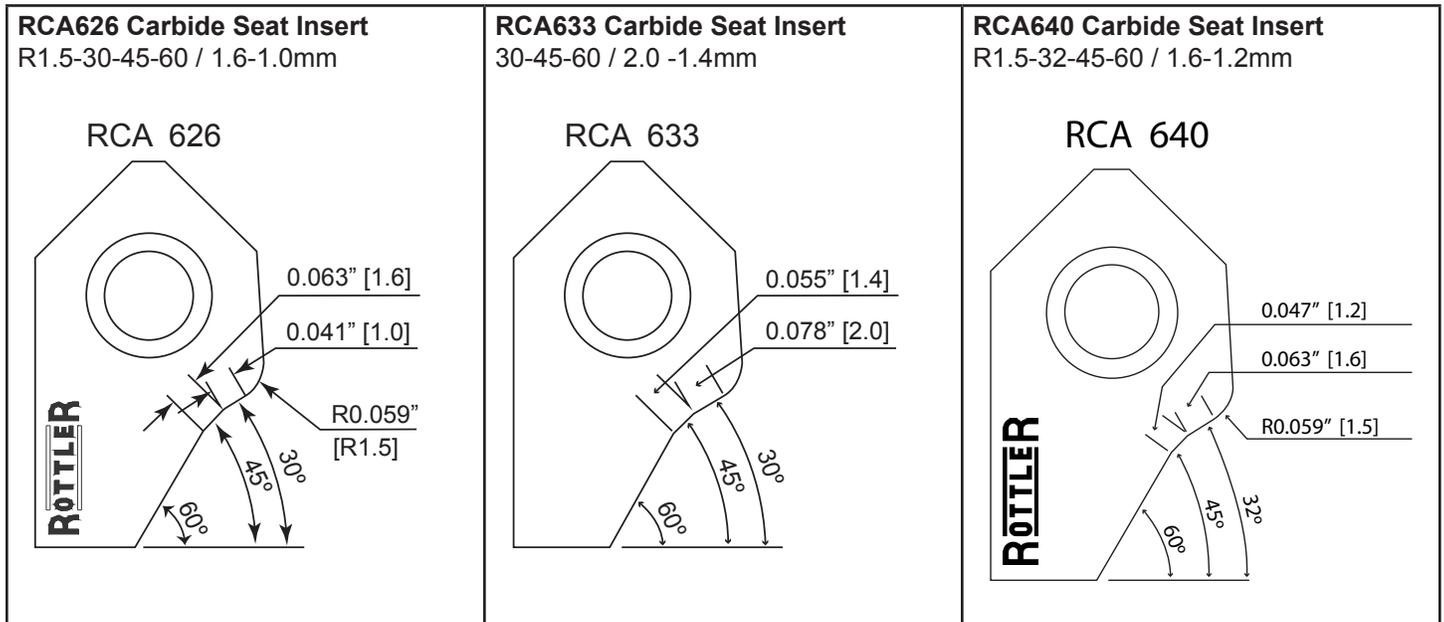


**RCA623 Carbide Seat Insert**  
R0.8-30-45-60-R13-R1.5 / 1.0-1.0mm

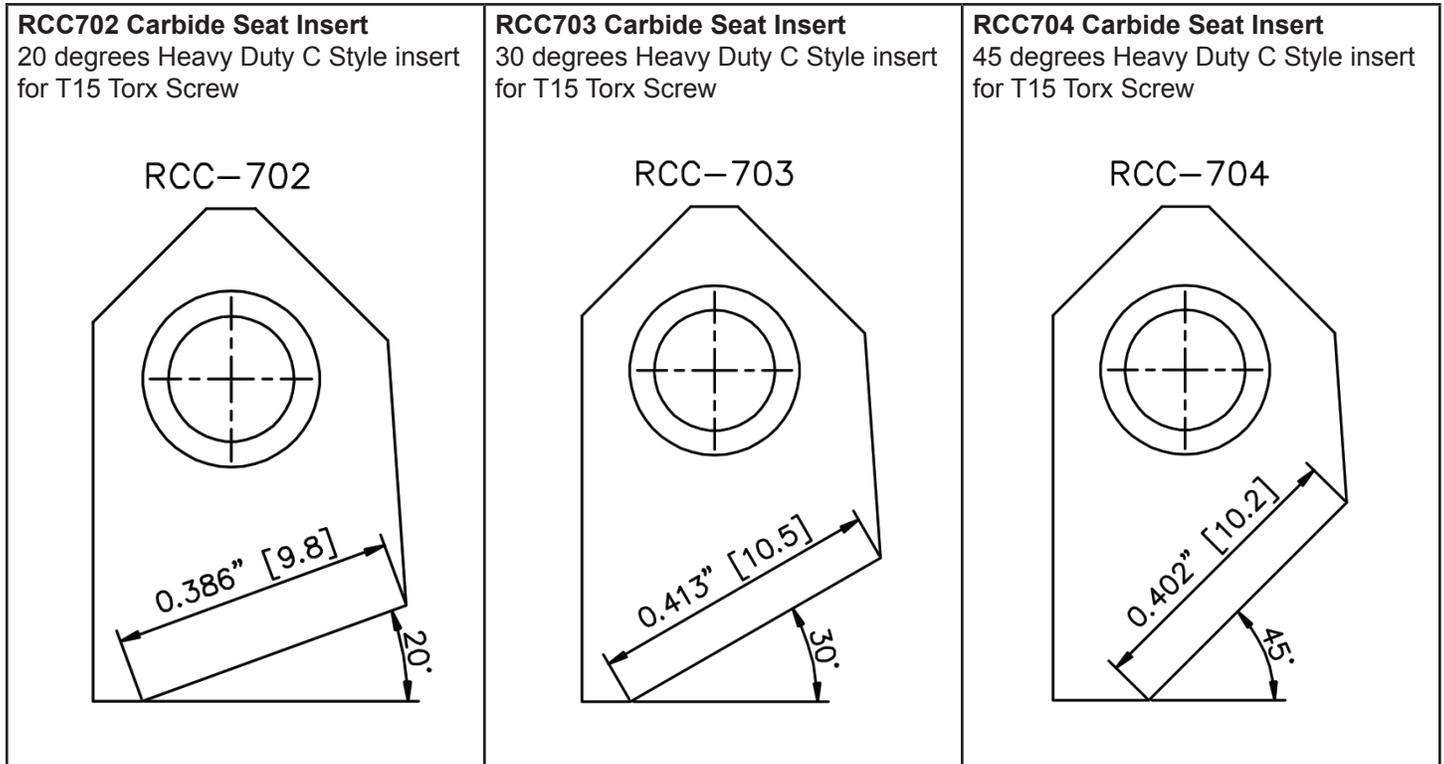


**Harley Davidson Inserts**

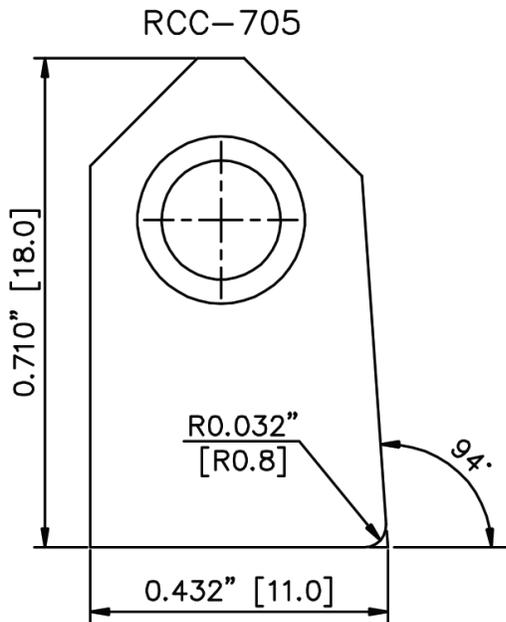
NOTE: Orders of 20+ of the same RCA insert receive 10% discount. Orders of 50+ of the same RCA insert receive 20% discount. Does not apply to mix-and-match orders.



**Suggested Standard Carbide RCC Type Inserts for Large Seats Single Angle**

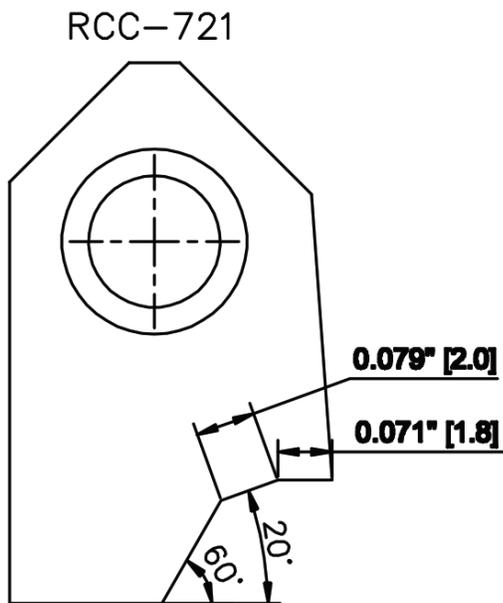


**RCC705 Carbide Seat Insert**  
 94 degrees R 0.8 / 18mm Heavy Duty C Style insert  
 for T15 Torx Screw For counterboring.

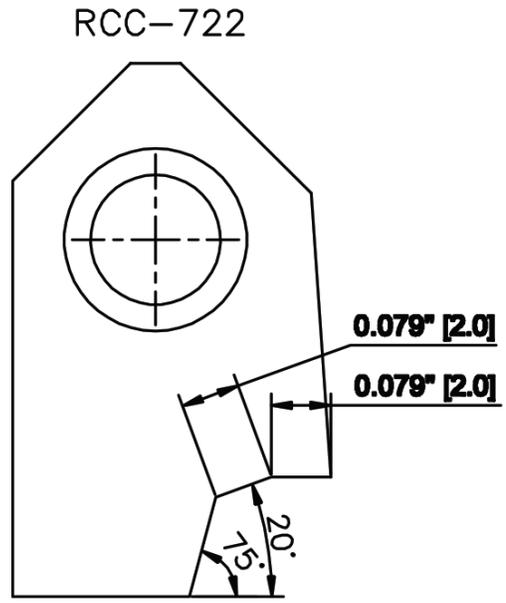


**Suggested Standard Carbide RCC Type Inserts for Large Seats**

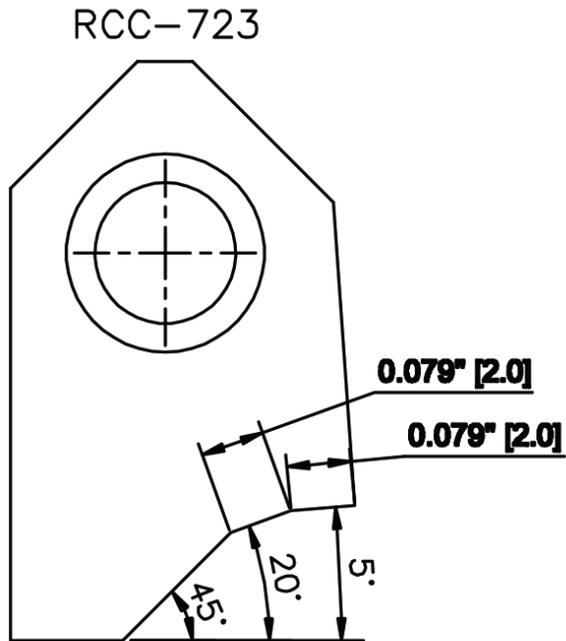
**RCC721 C Blank Carbide Seat Insert**  
 T15 Locking screw 0-20-60 / 1.8-2.0



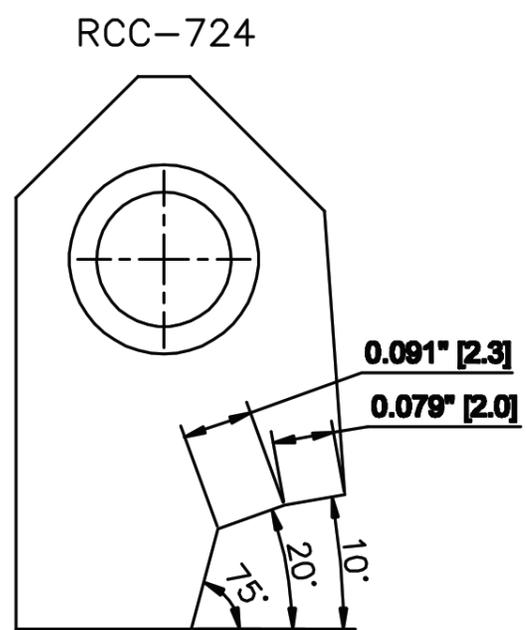
**RCC722 C Blank Carbide Seat Insert T15**  
 Locking screw 0-20-75 / 2.0-2.0



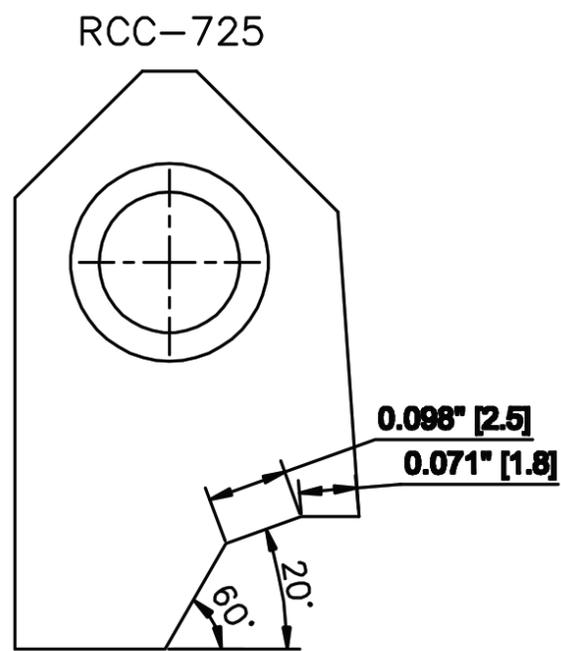
**RCC723 C Blank Carbide Seat Insert**  
T15 Locking screw 5-20-45 / 2.0-2.0



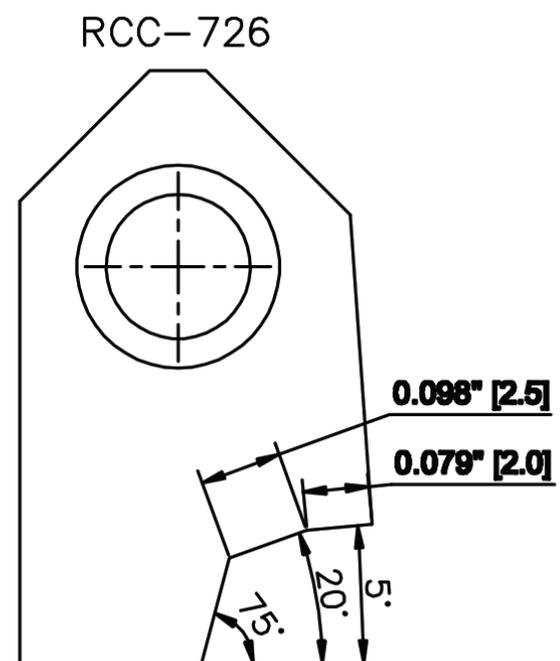
**RCC724 C Blank Carbide Seat Insert**  
T15 Locking screw 10-20-75 / 2.0-2.3



**RCC725 C Blank Carbide Seat Insert**  
T15 Locking screw 0-20-60 / 1.8-2.5

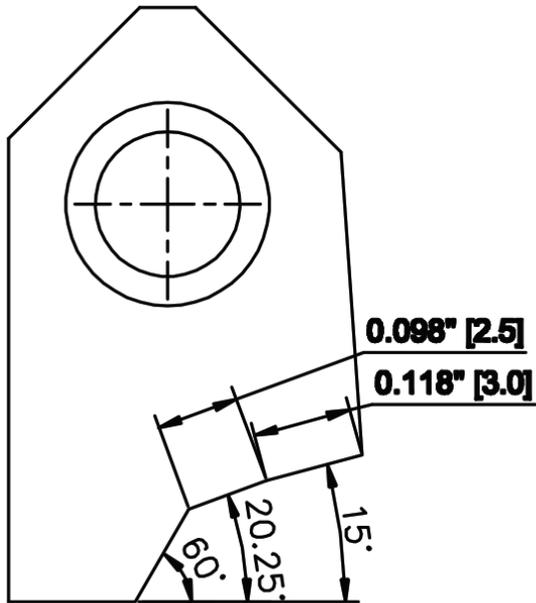


**RCC726 C Blank Carbide Seat Insert**  
T15 Locking screw 5-20-75 / 2.0-2.5



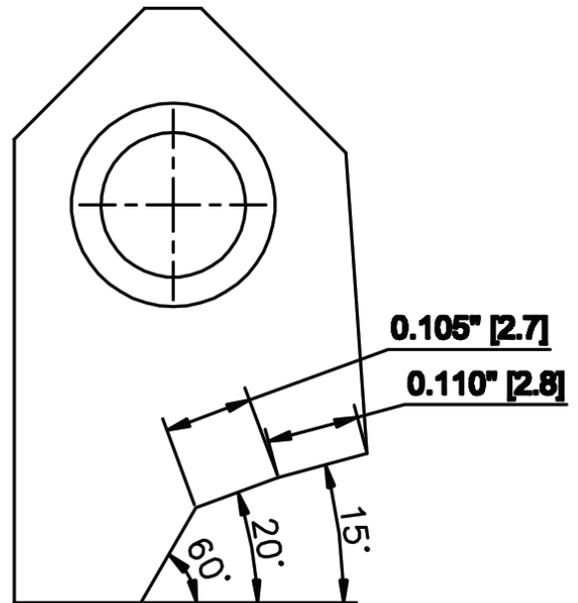
**RCC727 C Blank Carbide Seat Insert**  
T15 Locking screw 15-20.25-60 / 3.0-2.5

RCC-727



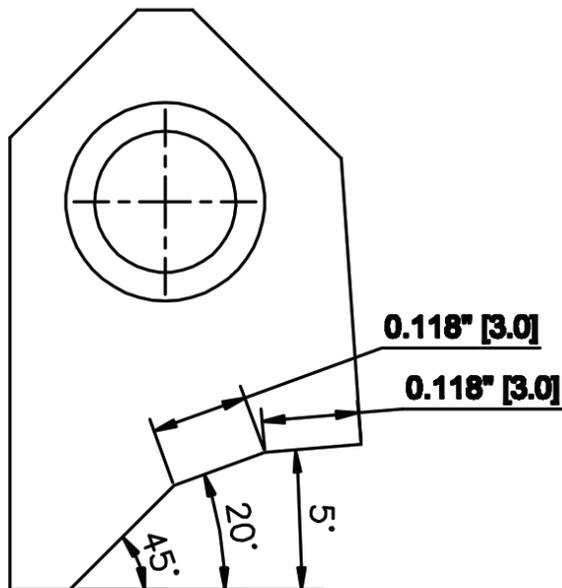
**RCC728 C Blank Carbide Seat Insert**  
T15 Locking screw 15-20-60 / 2.8-2.66

RCC-728



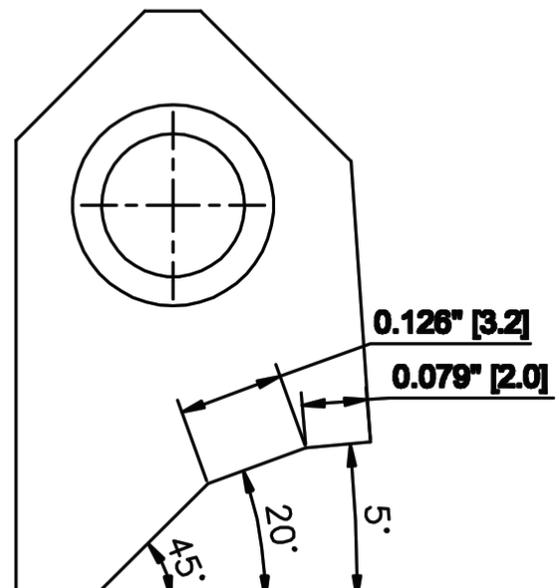
**RCC729 C Blank Carbide Seat Insert**  
T15 Locking screw 5-20-45 / 3.0-3.0

RCC-729

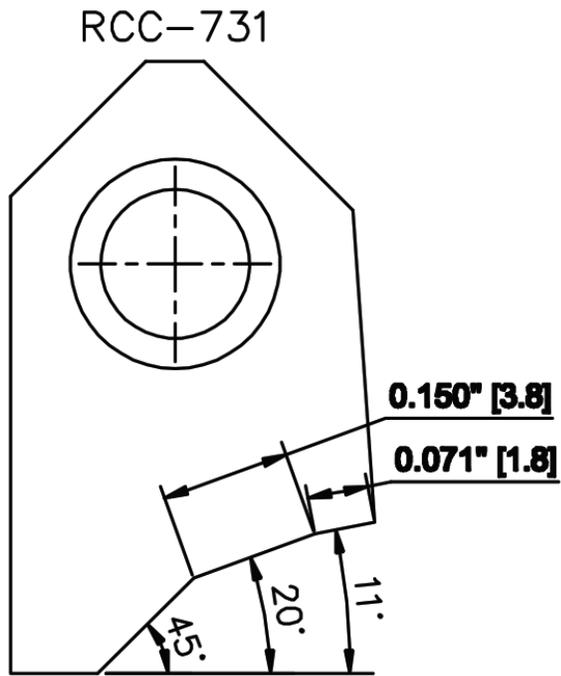


**RCC730 C Blank Carbide Seat Insert**  
T15 Locking screw 5-20-45 / 2.0-3.2

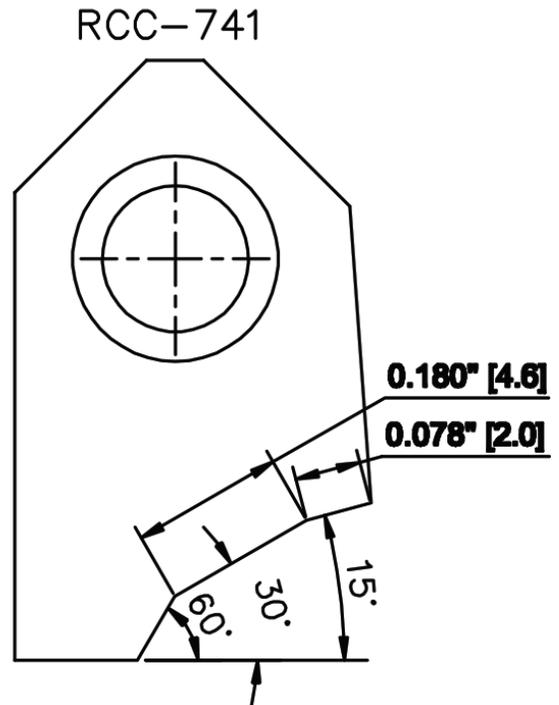
RCC-730



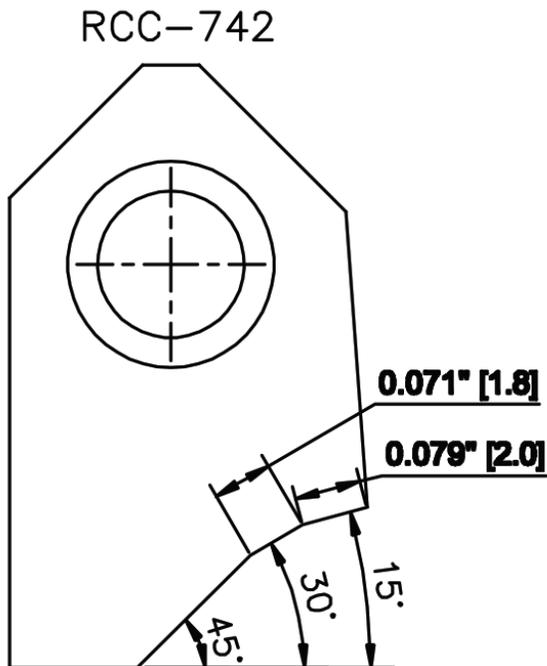
**RCC731 C Blank Carbide Seat Insert**  
T15 Locking screw 11-20-45 / 1.8-3.8



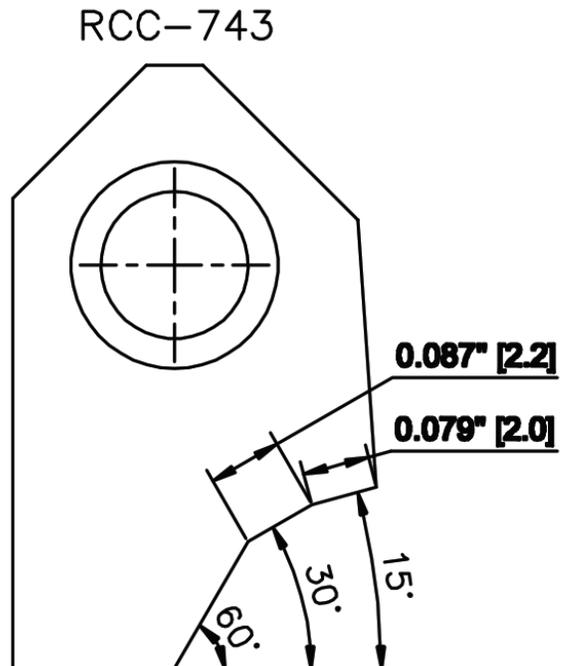
**RCC741 C Blank Carbide Seat Insert**  
T15 Locking screw 15-30-60 / 2.0-4.6



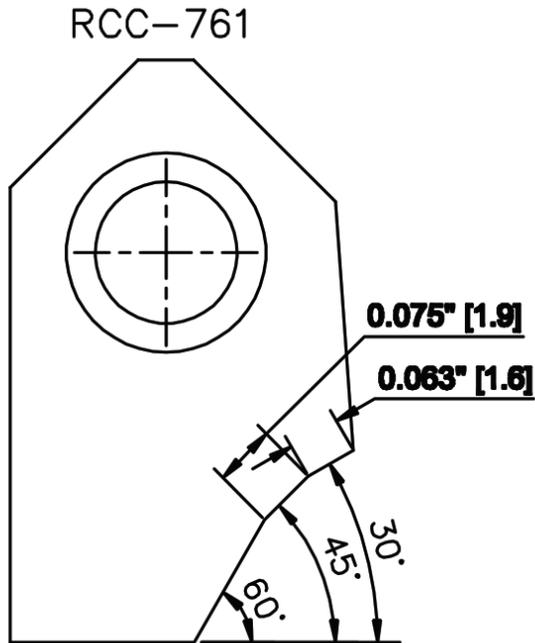
**RCC742 C Blank Carbide Seat Insert**  
T15 Locking screw 15-30-45 / 2.0-1.8



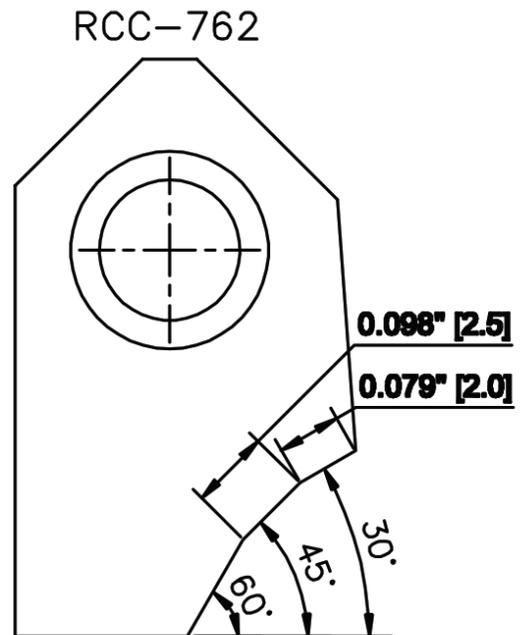
**RCC743 C Blank Carbide Seat Insert**  
T15 Locking screw 15-30-15 / 2.0-2.2



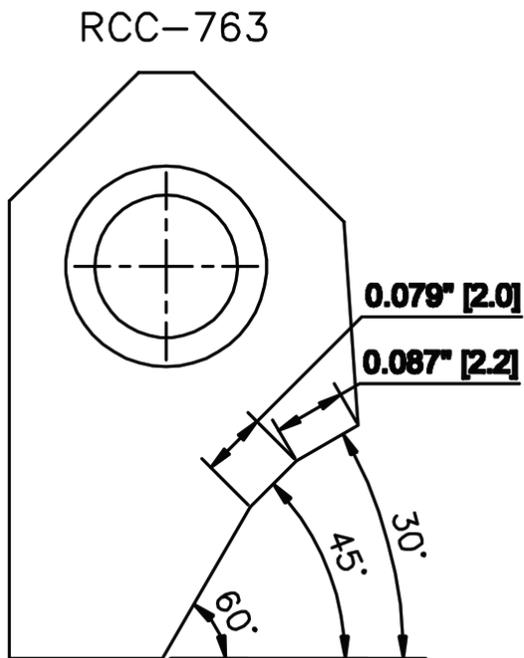
**RCC761 C Blank Carbide Seat Insert**  
T15 Locking screw 30-45-60 / 1.6-1.9



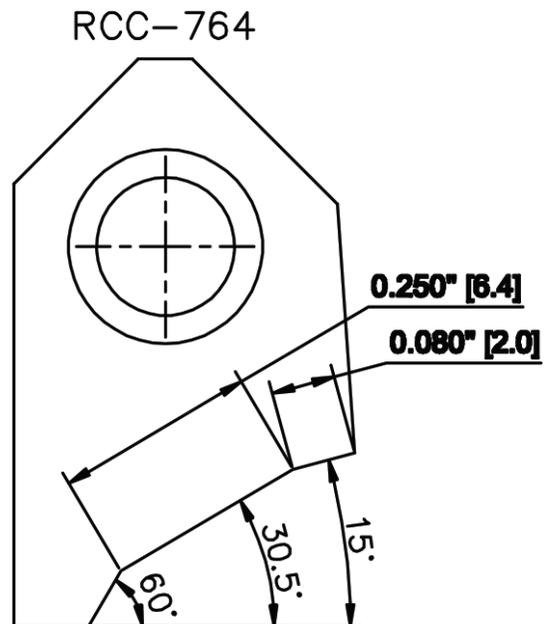
**RCC762 C Blank Carbide Seat Insert**  
T15 Locking screw 30-45-60 / 2.0-2.5



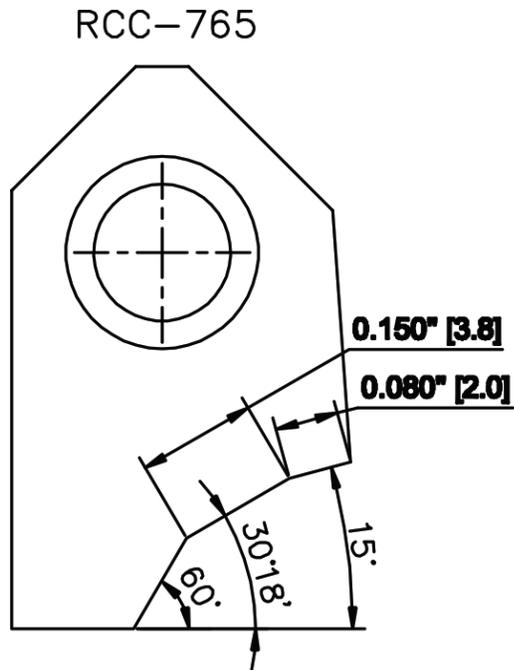
**RCC763 C Blank Carbide Seat Insert**  
T15 Locking screw 30-45-60 / 2.2-2.0



**RCC764 C Blank Carbide Seat Insert**  
T15 Locking screw 15-30.50-60 / 2.0-6.4mm (.080"-.250")  
White Superior

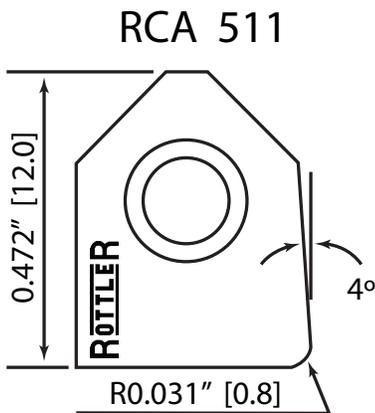


**RCC765 C Blank Carbide Seat Insert**  
 T15 Locking screw 15-30.18-60 / 2.0-3.8mm (.080"-.150")  
 Waukesha

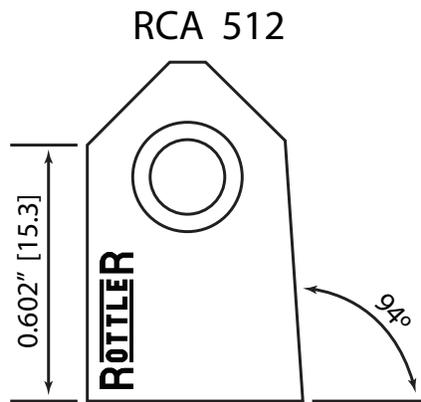


**90 Degree Insert for Counterboring**

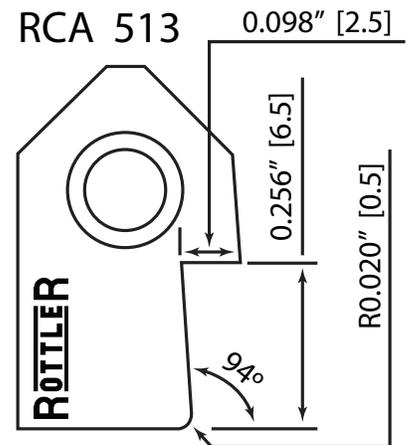
**RCA511 Carbide Seat Insert**  
 90 degree R 0.8 / 12mm (SHORT PROFILE)



**RCA512 Carbide Seat Insert**  
 90 degree R 0.8 / 15.3mm



**RCA513 Carbide Seat Insert**  
 90-R0.5 / 2.5-6.5 (OFFSET FOR COUNTERBORING SMALL SEATS)



## Rottler Special Profile Cutter Inserts Policy

Special Profile Cutter Inserts can be manufactured to your exact specifications and can include a combination of angles and radius blends. Special Profile Carbide Cutter Bits are generally considered to be "Customer Proprietary". These are uniquely numbered, exclusively for the ordering customer.

Drawing Fee	There is a one-time drawing fee per each Special Profile Cutter Insert (A or B)
RCSXXX	On orders of 1-9 A or B Blank Special Profile after drawing fee charge
RCSXXX	On orders of 10+ A Blank Special Profile after drawing fee charge
RCSXXX	On orders of 10+ B Blank Special Profile after drawing fee charge

## Miscellaneous Tooling

### COLLETKITR40

Collet chuck set of 10 collets Including: (1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 3/4, 7/8, 1.00" Spring Collets) Collet Chuck Spindle Adapter with Collet Nut for Rottler R40 Spindle Taper and Spanner Wrench for Collet Chuck.



<p><b>ER40-250</b> 1/4" (6.35mm) ER40 Spring Collets From .236 - .275" (5.99 - 6.98mm)</p> 	<p><b>ER40-312</b> 5/16" (7.92mm) ER40 Spring Collets From .275 - .314" (6.98 - 7.98mm)</p> 	<p><b>ER40-343</b> 11/32" (8.71mm) ER40 Spring Collets From .314 - .354" (7.98 - 8.99mm)</p> 
<p><b>ER40-375</b> 3/8" (9.52mm) ER40 Spring Collets From .354 - .393" (8.99 - 9.98mm)</p> 	<p><b>ER40-437</b> 7/16" (11.10mm) ER40 Spring Collets From .433 - .472" (11.00 - 11.98mm)</p> 	<p><b>ER40-500</b> 1/2" (12.70mm) ER40 Spring Collets From .472 - .511" (11.98 - 12.979mm)</p> 
<p><b>ER40-562</b> 9/16" (14.27mm) ER40 Spring Collets From .551 - .590" (14.00 - 14.99mm)</p> 	<p><b>ER40-750</b> 3/4" (19.05mm) ER40 Spring Collets From .748 - .787" (19.00 - 19.99mm)</p> 	<p><b>ER40-875</b> 7/8" (22.23mm) ER40 Spring Collets From .866 - .905" (22.00 - 23.00mm)</p> 
<p><b>ER40-1000</b> 1.000" ER40 Spring Collets From .984 - 1.020" (25.00 - 26.00mm)</p> 	<p><b>ER40SW</b> ER40 Spanner Wrench for Collet Chuck (CCWSETR40 Only)</p> 	

**COLLET40-BOX**

Collets box for 10 collets and Holder



**CCWSETR40**

Collet Chuck Spindle Adapter (ER40 / ISO40) with Collet Nut for Rottler R40 Spindle Taper (for ER 40 Collets only)



**PC750R40**

Drill chuck for SG80A - Max capacity .750" (19.05mm)



## Available Carbide Pilots by Diameter and Length

NOTE: For Recommended Fixed Carbide, See SG Pilot Catalog.

UCPM-MINI	UNIPILOT Carbide Pilots with 6.00mm Shank Diameter / 5.700" long range from 3.50 - 7.00mm to be used on BH600-R1 Tool Holder and TH1999 Tip Holder)
UCP-5TO10STD	UNIPILOT Carbide Pilots UCP .375" (9.52mm) Shank Diameter / Total Length 7.500" Range from .196 - .394" (5.00 - 10.00mm)
UCP-10TO12STD	UNIPILOT Carbide Pilots UCP .375" (9.52mm) Shank Diameter / Total Length 7.500" Range from .390 - .470" (10.01 - 12.00 mm)
UCP-12TO14STD	UNIPILOT Carbide Pilots UCP .375" (9.52mm) Shank Diameter / Total Length 7.500" Range from .470 - .550" (12.01 - 14.00 mm)
UCP-14TO16STD	UNIPILOT Carbide Pilots UCP .375" (9.52mm) Shank Diameter / Total Length 7.500" Range from .551 - .630" (14.01 - 16.00mm)
UCP-UNDER10-9EL	UNIPILOT Carbide Pilot .375" (9.52mm) Shank Diameter Below .390" 10.00mm (9.00" extended length)
UCP-10TO14-9EL	UNIPILOT Carbide Pilot .375" (9.52mm) Shank Diameter (9.00" extended length) from 10.02 - 14.50mm
UCP-14TO16-9EL	UNIPILOT Carbide Pilot .375" (9.52mm) Shank Diameter (9.00" extended length) from 14.02 - 16.00mm
UCP-16TO19-9EL	UNIPILOT Carbide Pilot .375" (9.52mm) Shank Diameter (9.00" extended length) from 16.02 - 19.50mm
UCP-10TO14-12EL	UNIPILOT Carbide Pilot .375" (9.52mm) Shank Diameter (12.00" extended length) from 10.02 - 14.50mm
UCP-20MM	Any UNIPILOT Carbide Pilot 20.00mm Shank Diameter Up to 22.00mm pilot Diameter

## Suggested UNIPILOT Carbide Pilot for Large Cylinder Heads 20.00mm Shank Diameter

<b>UCP499EL1220</b>	12.69mm .4996" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank Diameter (12.00" Length) Waukesha Cylinder heads 1197 series
<b>UCP500EL1220</b>	12.70mm .5000" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank Diameter (12.00" Length) Waukesha Cylinder heads 1197 series
<b>UCP434EL1220</b>	11.04mm .4346" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank Diameter (12.00" Length) Waukesha Cylinder heads VGF series
<b>UCP435EL1220</b>	11.05mm .4350" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank Diameter (12.00" Length) Waukesha Cylinder heads VGF series
<b>UCP560EL1220</b>	14.27mm .560" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank diameter (12.00" Length) VHP7042 - GL7042 -3711 Waukesha Cylinder heads
<b>UCP630EL1520</b>	16.00mm .630" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank diameter (15.00" Length) For Caterpillar 3600 Cylinder Head
<b>UCP631EL1520</b>	16.03mm .631" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank diameter (15.00" Length) For Caterpillar 3600 Cylinder Head
<b>UCP632EL1520</b>	16.05mm .632" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank diameter (15.00" Length) For Caterpillar 3600 Cylinder Head
<b>UCP874EL1320</b>	22.20mm .874" UNIPILOT Carbide Pilot .7874" (20.00mm) Shank diameter (13.00" Length) For white Superior Cylinder Head

## Miscellaneous Tooling

### CDR312 Combo Core drill / Reamer

.312" Pilot to bore for standard 1/2" OD valve guide insert with .375" diameter Shank, requires SAD375R1 spindle adapter or to be used with collet holder



### CDR343 Combo Core drill / Reamer

.343" Pilot to bore for standard 1/2" OD valve guide insert with .375" diameter Shank, requires SAD375R1 spindle adapter or to be used with collet holder



### CDR375 Combo Core drill / Reamer

.375" Pilot to bore for standard 1/2" OD valve guide insert with .375" diameter Shank, requires SAD375R1 spindle adapter or to be used with collet holder



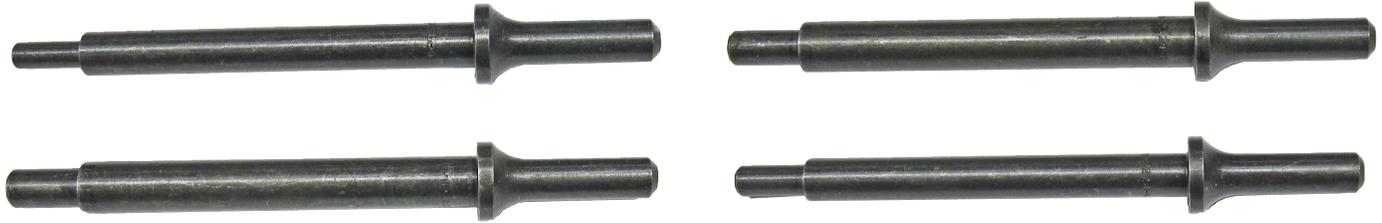
**VSD100-KIT Valve Seat Driver Kit**

Includes Seat Driver Body (VSD101) 5 Dual seat Ring Adapters (VSD102 1 - 1.1/8", VSD103 1.1/4 - 1.3/8", VSD104 1.1/2 - 1.5/8", VSD105 1.3/4 - 1.7/8", VSD106 2 - 2.1/8"), 5 Solid Tapered Pilots STP0250, STP0275, STP0312, STP0343, STP0374



**VGD-KIT Valve Guide Driver Kit**

Includes .312" Valve Guide Driver, .343" Valve Guide Driver, .372" Valve Guide Driver and 7.0mm Valve Guide Driver (requires air hammer - not available from Rottler)



**VGTC-KIT3 Valve Guide Top Cutter Kit**

With 1/2" straight Shank. To be used with Collet holder or SAD500R1 Spindle Adapter. Kit includes 5/16", 11/32" & 3/8" pilot for guide top cutter



## Fixed Double Insert Milling Heads

FMH Fixed Double Replaceable Insert Milling Heads - Bore diameter 1.25 - 2.50" (31.75 - 63.50mm) available in increments of 1/16" (.125") (Requires Milling Head driver) (specify size)

### FMH1000R1 1.0000" Fixed Double Replaceable Insert Milling Head

With .562" Driver (Requires BD560 .562" ID Milling head Driver)



### FMH10625R1 1.0625" Fixed Double Replaceable Insert Milling Head

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)



### FMH11250R1 1.1250" Fixed Double Replaceable Insert Milling Head

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)



### FMH11875R1 1.1875" Fixed Double Replaceable Insert Milling Head

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)



### FMH13125R1 1.3125" Fixed Double Replaceable Insert Milling Head

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)



### FMH13750R1 1.3750" Fixed Double Replaceable Insert Milling Head

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)



**FMH14375R1 1.4375" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)

**FMH15000R1 1.5000" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)

**FMH15625R1 1.5625" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)

**FMH16250R1 1.6250" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)

**FMH16875R1 1.6875" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)

**FMH17500R1 1.7500" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)



**FMH18125R1 1.8125" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)



**FMH18750R1 1.8750" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID Milling head Driver)

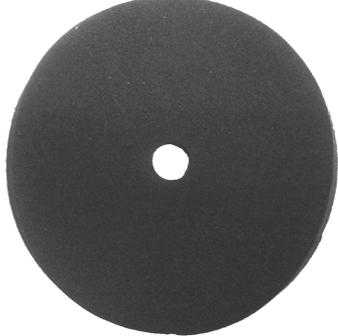
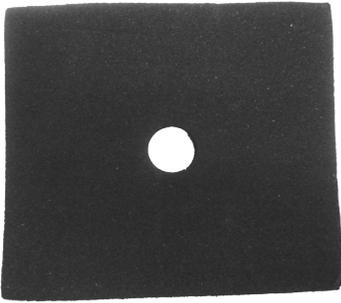
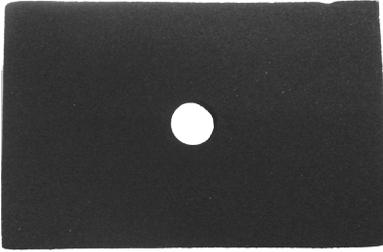
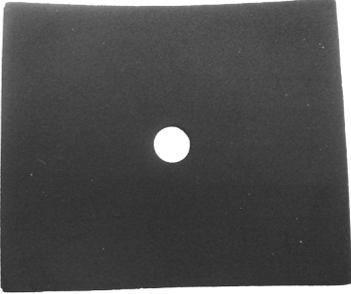


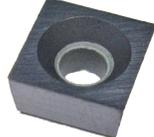
**FMH20000R1 2.0000" Fixed Double Replaceable Insert Milling Head**

With .562" Driver ID (Requires BD560 .562" ID. Ball Head Milling head Driver)



**Consumable Parts for Seat and Guide Models**

<p><b>SLEEVE1 Spindle Adapter Replacement Sleeve</b></p> 	<p><b>BSW002 Diamond Wheel</b> Cutting Bit Sharpener replacement Wheel (3.000" Diameter OD by .375" ID)</p> 	<p><b>VT-FP1562 Replacement Foam Pad</b> For Round Vacuum Pad 1.562" (39.675mm) diameter</p> 
<p><b>VT-FP1875 Replacement Foam Pad</b> For Round Vacuum Pad 1.875" (47.625mm) diameter</p> 	<p><b>VT-FP2125 Replacement Foam Pad</b> For Round Vacuum Pad 2.125" (53.975mm) diameter</p> 	<p><b>VT-FP3125 Replacement Foam Pad</b> For Round Vacuum Pad 3.125" (79.375mm) diameter</p> 
<p><b>VT-FP25X22 Replacement Foam Pad</b> For Square Vacuum Pad 2.500 X 2.250" (63.5 X 57.15mm) square</p> 	<p><b>VT-FP31X20 Replacement Foam Pad</b> For Square Vacuum Pad 3.125 X 2.000" (79.375 X 50.8mm) square</p> 	<p><b>VT-FP33X27 Replacement Foam Pad</b> For Square Vacuum Pad 3.375 X 2.750" (85.725 X 69.85mm) square</p> 

<p><b>PRW600PIN Replaceable Pin</b> For PRW600 Pilot Removable wrench tool</p> 	<p><b>PRW375PIN Replaceable Pin</b> For PRW375 Pilot Removable wrench tool</p> 	<p><b>PRW20PIN Replaceable Pin</b> For PRW375 Pilot Removable wrench tool</p> 
<p><b>511-29-12E Torx Screw</b> M2.5 X 0.45 (straight angle insert holders only)</p> 	<p><b>T7D T7 Torx Driver</b> For 1/4" insert (straight angle insert holders only)</p> 	
<p><b>T8S T8 Torx Tip Holding Screws</b></p> 	<p><b>T15S T15 Torx Tip Holding Screws</b></p> 	<p><b>S1032-250 BH375R1 and BH600R1 Tip Holder Locking Screw</b> 10/32" X 1/4" (requires 2)</p> 
<p><b>S250-28-250 BH375WR1 Tip Holder Locking Screw</b> 1/4"-28" X 1/4" (requires 2)</p> 	<p><b>S1032-437 TH1999 Adjusting Screw</b> (10/32 X 7/16")</p> 	<p><b>S1032-375 TH2000 Adjusting Screw</b> (10/32 X 3/8")</p> 
<p><b>S1032-500 TH2001 Adjusting Screw</b> (10/32 X 1/2")</p> 	<p><b>S1032-625 TH2002 Adjusting Screw</b> (10/3" X 5/8")</p> 	<p><b>S500-1600 TH2003 Adjusting Screw</b> (6.00 X 16mm)</p> 
<p><b>S600-2015 TH2004 Adjusting Screw</b> (6.00 X 20.15mm)</p> 	<p><b>ICC003 Insert, Indexable Carbide</b> For Fixed milling heads - large size - for 1.562" and larger cutters</p> 	<p><b>ICC002 Insert, Indexable Carbide</b> For Fixed milling heads - small size - for 1.250 - 1.500" cutters</p> 