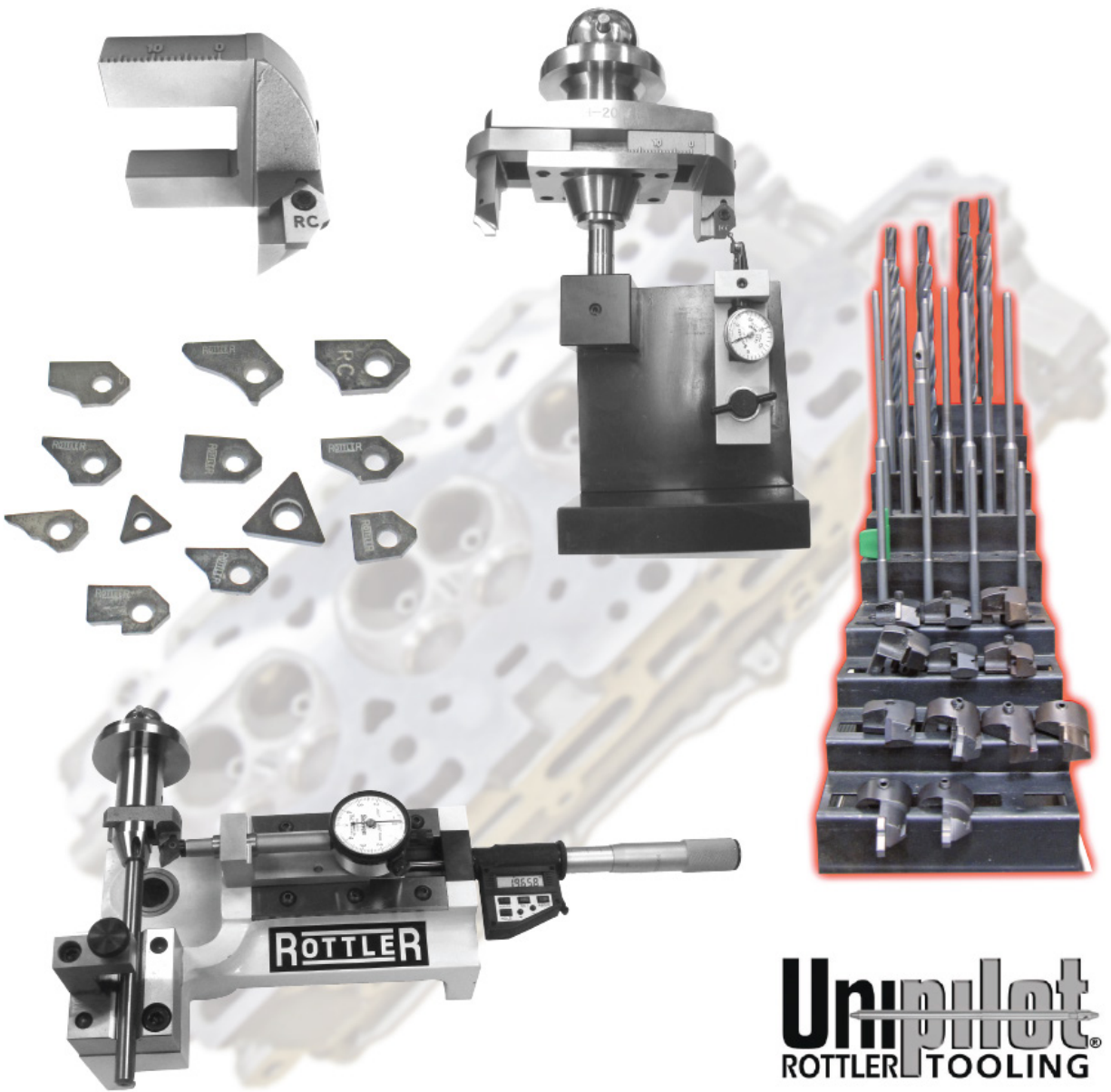


# ROTTLER

## SG OPTIONAL EQUIPMENT CATALOG



**Unipilot**  
ROTTLER TOOLING



## **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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## Spindle Adapters for Rottler and Other Seat and Guide Machines

### **RBHAR1**

Rottler Spring Free Spherical Self Aligning Spindle Adapter  
Patented for Rottler R1 and Serdi 40 Spindle Taper



### **RBHAR40**

Rottler Spring Free Spherical Self Aligning Spindle Adapter  
Patented for Rottler ISO 40 Spindle Taper for large 1.500:  
Diameter Ball heads)



### **RBHAR40STD**

Rottler Spring Free Spherical Self Aligning Spindle Adapter  
Patented for Rottler ISO 40 Spindle Taper for 1.000:  
Diameter Ball heads, For .375" and 6.00mm tooling)



**BH20-R**

Rottler Spring Free Spherical Self aligning Large Tool Holder for 20.00mm shank Pilots For TH3005 & TH3006 Tip Holders from 2.362" - 4.330" (60mm-110mm) diameter seats



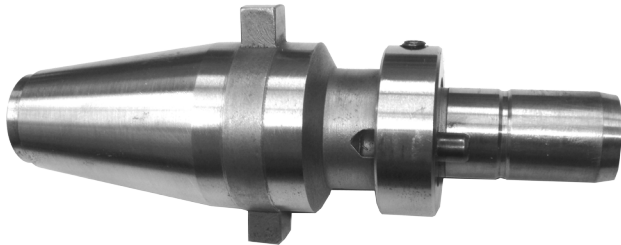
**BH20-RW**

Rottler Spring Free Spherical Self aligning Extra Large Tool Holder for 20.00mm shank Pilots For TH3007 & TH3008 Tip Holders from 3.740" - 5.905" (95mm-150mm) diameter seats



**RS105**

Rottler R1 Spindle Taper Milling Head Driver for Fixed and adjustable replaceable milling head cutters for (15.88mm) .625" ID milling head body.



**RS560**

Rottler R1 Spindle Taper Milling Head Driver for Fixed and adjustable replaceable milling head cutters for (14.27mm) .562" ID Diameter Milling Heads



**SAD375R1**

Spindle Adapter for Rottler R1 Spindle Taper for 3/8" (9.525mm) Shank Diameter Tools, reamers, drills, etc includes 2 locking set screws



**SAD500R1**

Spindle Adapter for Rottler R1 Spindle Taper for 1/2" (12.70mm) 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 incl. 2 locking set screws



**R1MT3**

Adapter for Morse #3 to Rottler R1 taper



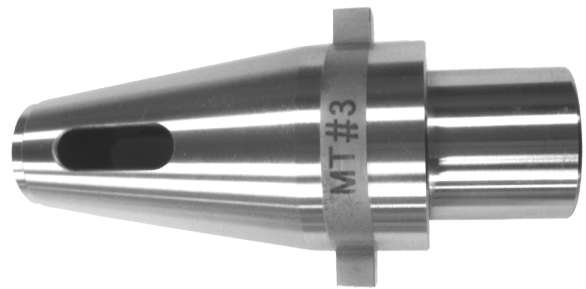
**R40MT2**

Adapter for Morse #2 to Rottler ISO 40 Spindle Taper



**R40MT3**

Adapter for Morse #3 to Rottler ISO 40 Spindle Taper



**PC375R1**

Precision Chuck including Spindle Taper for Rottler R1 Spindles - SG8, SG9, SG10 models



**COLLET-KITR1**

Collet Chuck Kit For Rottler R1 Spindle Taper, Including: (1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 3/4 Spring Collets), Collet Chuck w/Collet Retaining Nut and Spanner Wrench.



### CCWSETR1

Collet Chuck Spindle Adapter with Collet Nut for Rottler R1 Spindle Taper



## Rottler UNIPILOT Spindle Adapters and Tool Holders for SG80

RBHAR40UPT and RBHAR40UPT2 spindle adapters can be assembled with UPT5200SH and UPT5400SH for complete quick change UNIPILOT tooling for production applications.

### RBHAR40UPT

Rottler (Patent Pending) UNIPILOT Spindle Adapter, for SG80A for use with UPT5200SH and UPT5400SH Tool holders listed below.



### RBHAR40UPT2

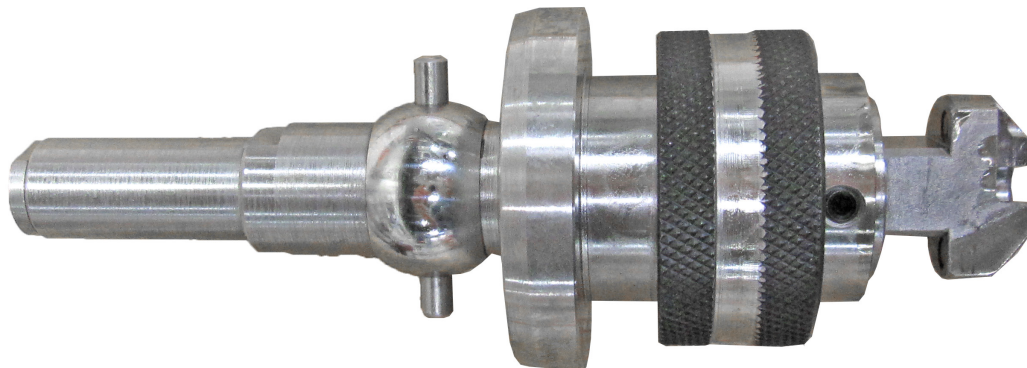
Rottler (Patent Pending) UNIPILOT Spindle Adapter, extended 2" (50mm) for SG80MTS for use with UPT5200SH and UPT5400SH Tool holders listed below.



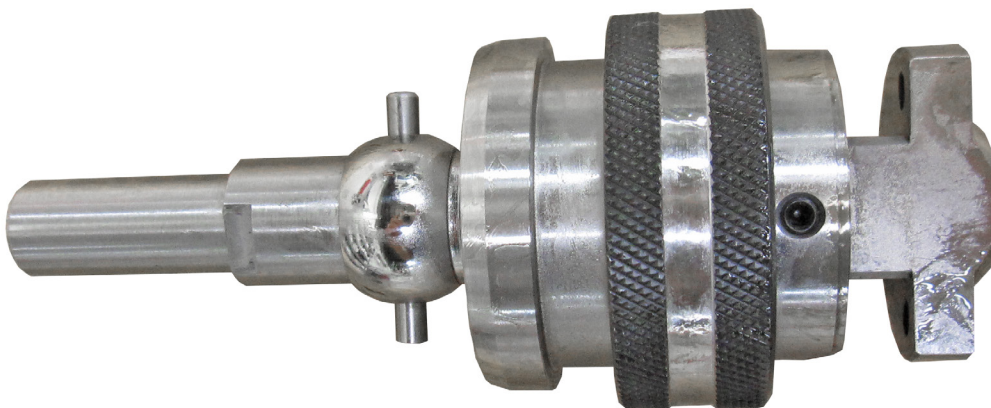


**UPT5200SH UNIPILOT Tool Holder**

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)



**Tool Holders and Insert Holders**

**BH20-R**

Rottler Spring Free Spherical Self aligning Large Tool Holder for 20.00mm Shank Pilots For TH3005 & TH3006 Tip Holders from 2.362" - 4.330" (60mm-110mm) diameter seats



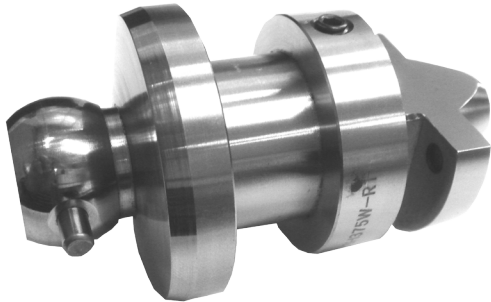
**BH20-RW**

Rottler Spring Free Spherical Self aligning Extra Large Tool Holder for 20.00mm Shank Pilots For TH3007 & TH3008 Tip Holders from 3.740" - 5.905" (95mm-150mm) diameter seats



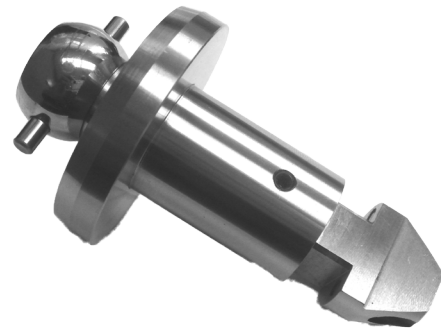
**BH375WR1**

Spring-Free Spherical Tool Holder for use w/ TH2003, TH2004 & TH2005 Tip Holders. Range: 1.570" - 4.724" (40mm-120mm). Used with RBHAR1 Spindle Adapter



**BH375R1**

Rottler 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" (20mm - 60mm)



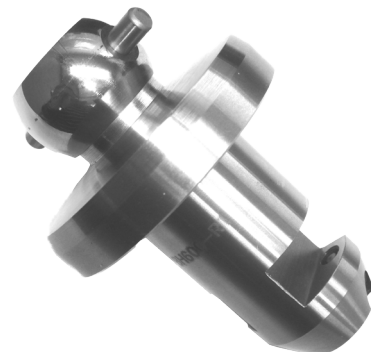
**BH375-2R1**

Spring-Free Spherical Tool Holder 2" LONG for use w/ TH2000, TH2001, TH2002 Tip Holders. Range: .750" - 2.360" (20mm - 60mm). Used with RBHAR1 Spindle Adapter (FOR HARLEY DAVIDSON SHOVEL SEATS APPLICATIONS)



**BH600R1**

Rottler Spring Free Spherical Self aligning Tool Holder (no Spring) Mini Spherical Tool Holder, Small, for TH1999 from .551" - .984" (14mm-25mm) for 6.00mm Shank Carbide Pilots



**BH375WR1-7.5EL**

Rottler Spherical Self-aligning Tool Holder for AIRCRAFT Cylinder Applications only, to used with TH2003 & TH2004 Tip Holders from 1.570"-3.150" (40mm-80mm) (To be used with RBHAR1)



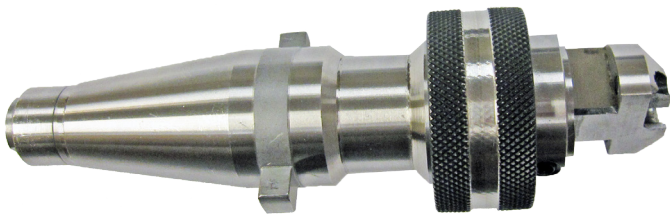
**BH375R1-7.5EL**

Rottler Spherical Self-aligning Tool Holder for AIRCRAFT Cylinder Applications only, to used with TH2000 & TH2001, TH2002 Tip Holders from .750"-2.400" (20mm-60mm) (To be used with RBHAR1)



**UPT5200**

Rottler (Patent Pending) Unipilot Tool holder, range 0.787 - 2.360" (20.00 - 60.00mm) for SG9 and SG10 models only



**UPT5400**

Rottler (Patent Pending) Unipilot Tool holder, range 2.280" - 3.150" (58mm - 80mm) (for live and fixed centering system) SG9 and SG10 models only



**R5100S**

Rottler Tool holder for Rottler R1 Spindle Taper Tool Holder. Range 18.00 - 60.00mm (0.709" - 2.360") Standard length (for live pilot centering system)



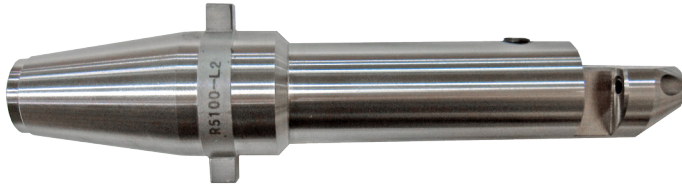
**R5300S**

Rottler Tool holder for Rottler R1 Spindle Taper Tool Holder. Range 40.00 - 120.00mm (1.575" - 3.125") Standard length (for live pilot centering system)



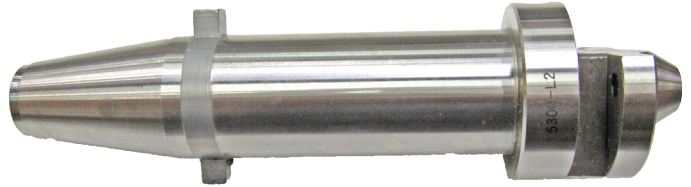
**R5100SL2**

Rottler Tool holder for Rottler R1 Spindle Taper Tool Holder. Range 18.00 - 60.00mm (0.709" - 2.360") 2" Long (for live pilot centering system)



**R5300SL2**

Rottler Tool holder for Rottler R1 Spindle Taper Tool Holder. Range 40.00 - 120.00mm (1.575" - 3.125") 2" Long (for live pilot centering system)



**BD105**

Spherical Driver for Fixed Size and Adjustable Valve Seat Installation Counterbore Cutters For .625" I.D. Cutter Bodies. Used with RBHAR1 Spindle Adapter



**BD560**

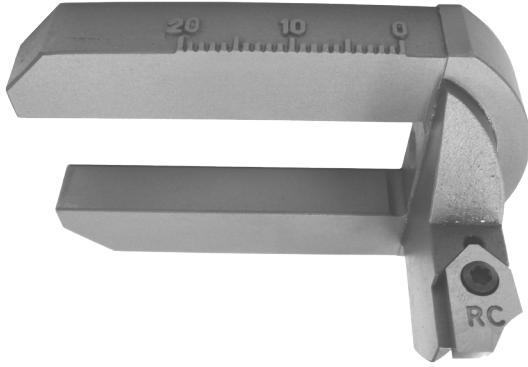
Spherical Driver for Fixed Size and Adjustable Valve Seat Installation Counterbore Cutters For .562" I.D. Cutter Bodies. Used with RBHAR1 Spindle Adapter



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

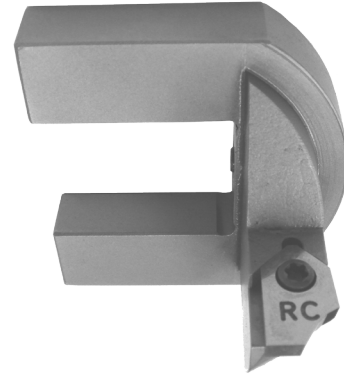
**TH3005**

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



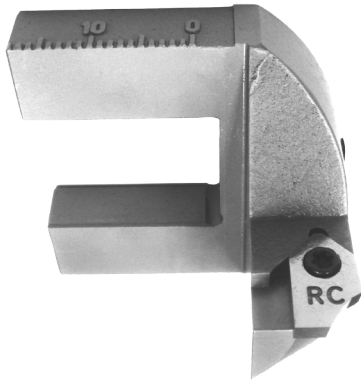
**TH3006**

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



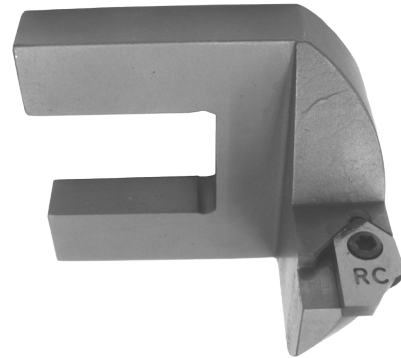
**TH3007**

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


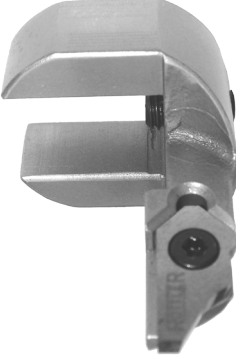



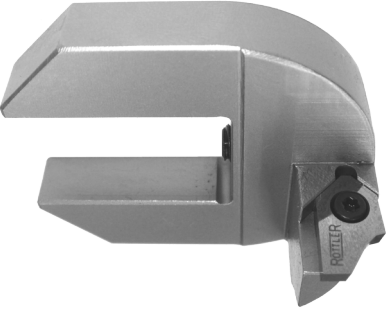



**TH3008**

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



## Tip Holders For Valve Seat Angle Cutting

<p><b>TH1999</b>                  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)</p> 	<p><b>TH2000</b>                  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)</p> 
<p><b>TH2001</b>                  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)</p> 	<p><b>TH2002</b>                  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)</p> 
<p><b>TH2003</b>                  Tip Holder, Range: 1.270' - 2.360" (32.26 - 60mm) (Using RCA630 Cutting Insert for minimum range) For BH375WR1 Tool holder Only.</p> 	<p><b>TH2004</b>                  Tip Holder, Range: 1.850 - 3.150" (47 - 80mm) (Using RCA630 Cutting Insert for minimum range) For BH375WR1 Tool holder Only.</p> 
<p><b>TH2005</b>                  Tip Holder, Range: 2.625 - 4.724" (66.7 - 120mm) (Using RCA630 Cutting Insert for minimum range) For BH375WR1 Tool holder Only.</p> 	

## Triangular Insert Tip Holders for Valve Seat Installation Counterboring

Use RT211 and RT212 Rottler Triangle Cutting Inserta Only

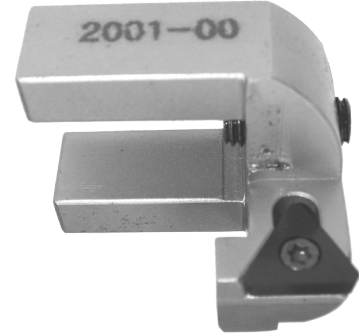
### TH2000-00

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"



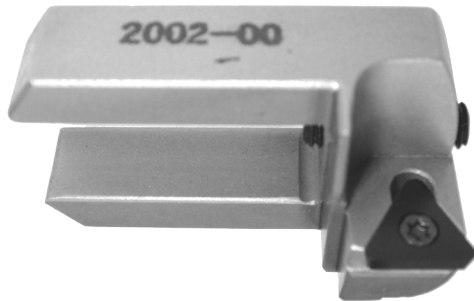
### TH2001-00

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)



### 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)



### 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)



## Triangular Insert Tip Holders for Single Valve Seat Cutting

For Hard Valve Seat Applications

Use RT211 and RT212 Rottler Triangle Cutting Inserts Only

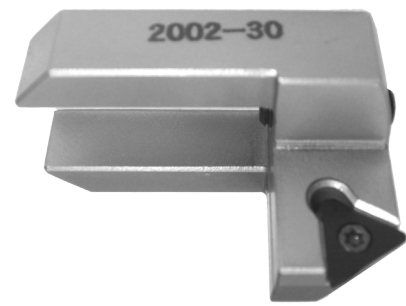
### TH2002-20

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)



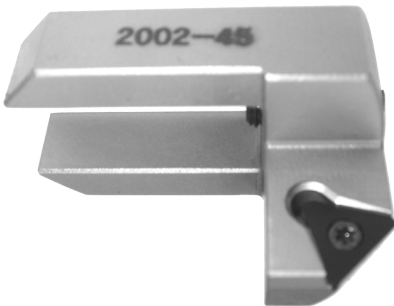
### TH2002-30

30 Degree Triangular Tip Holder For 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)



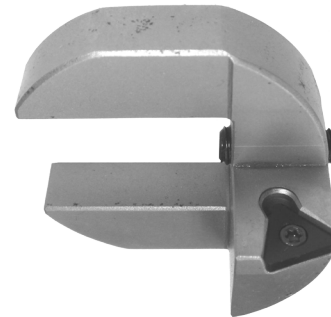
### TH2002-45

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)



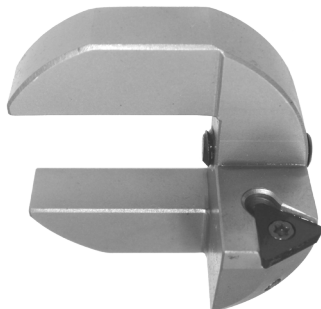
### TH2003-20

20 Degree Triangular Tip Holder For 20 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)



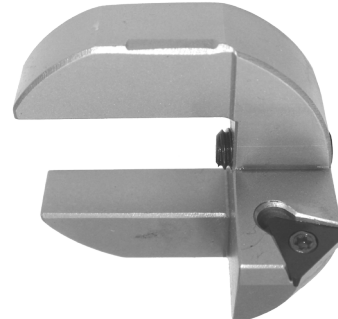
### TH2003-30

30 Degree Triangular Tip Holder For 30 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)



### TH2003-45

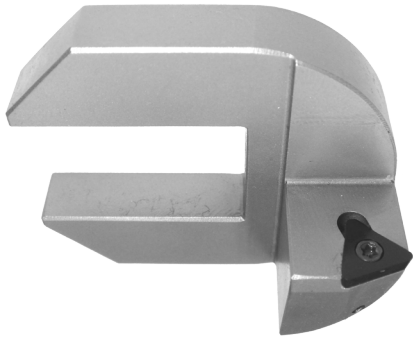
45 Degree Triangular Tip Holder For 45 Degree Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 1.570 - 2.360" (40 - 60mm)





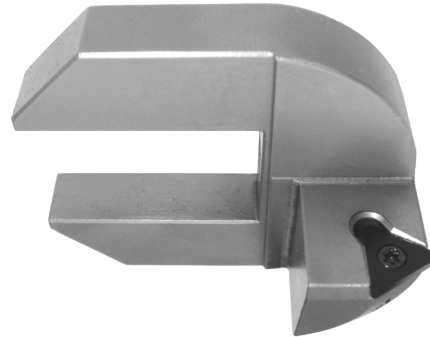
**TH2004-20**

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)



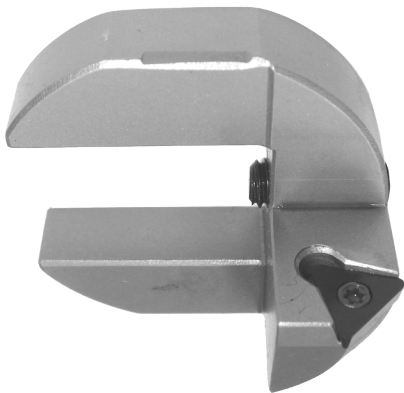
**TH2004-30**

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**

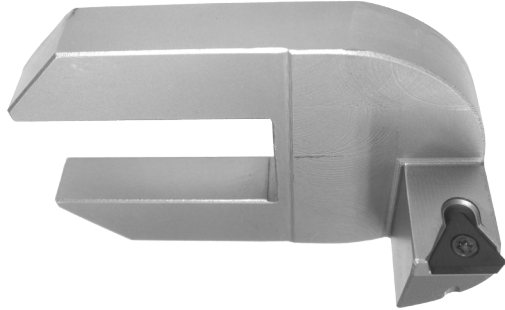
45 Degree Triangular Tip Holder For Valve Seat Angle Cutting. Uses RT211 (1/4" I.C.) Triangular Insert. Requires BH375WR1 Self Aligning Tool holder. Range: 2.280 - 3.150" (58 - 80mm)



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

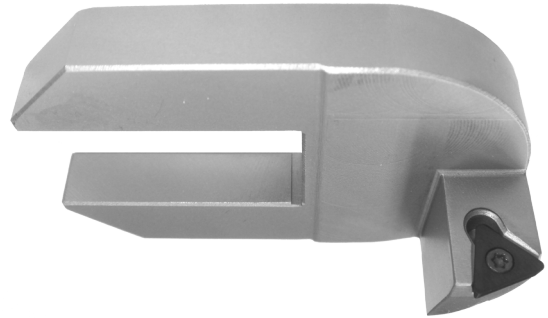
**TH2005-00**

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)



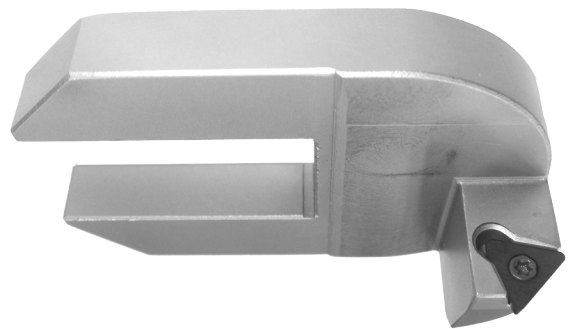
**TH2005-30**

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)

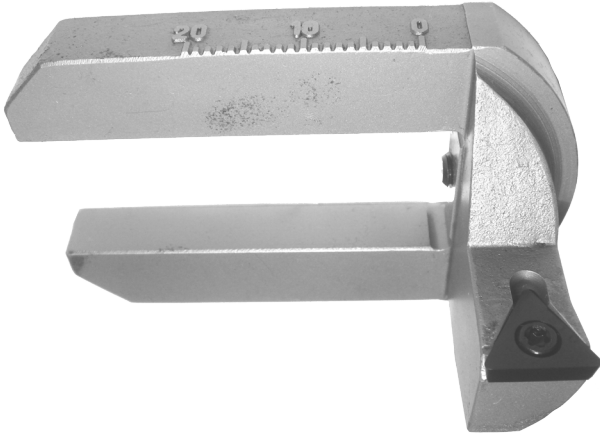


## Insert Holder for Extra Large Seat to be Used on BH20 Holders Only

**NOTE:** Triangular Inserts and T-7 Torx Driver are required for the TH3005 Series Insert Holders

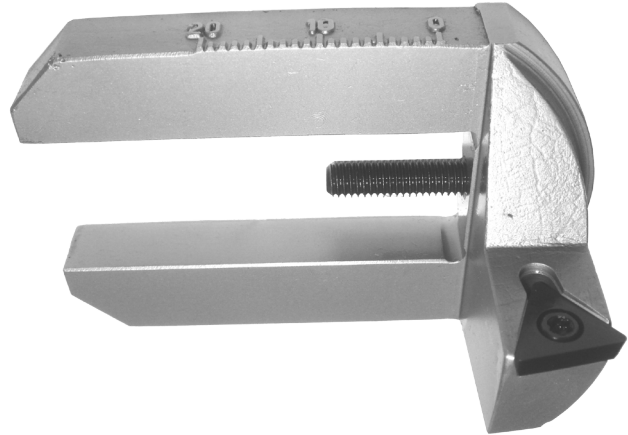
### TH3005-00

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)



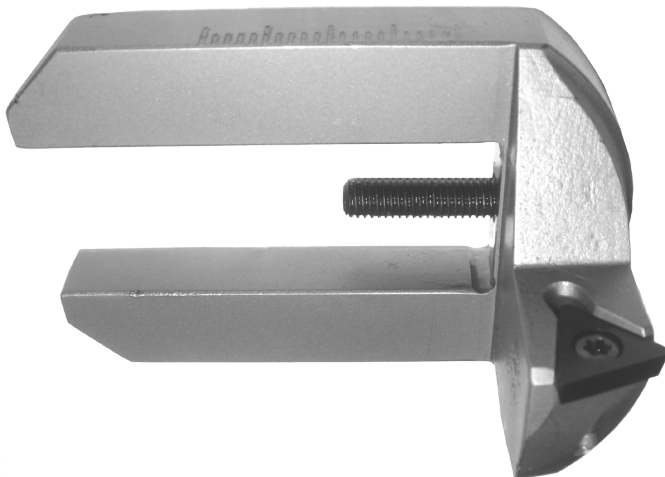
### TH3005-10

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)



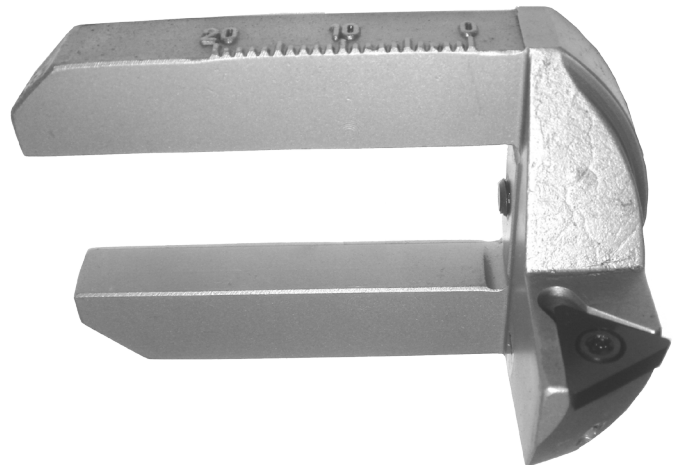
### TH3005-20

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)



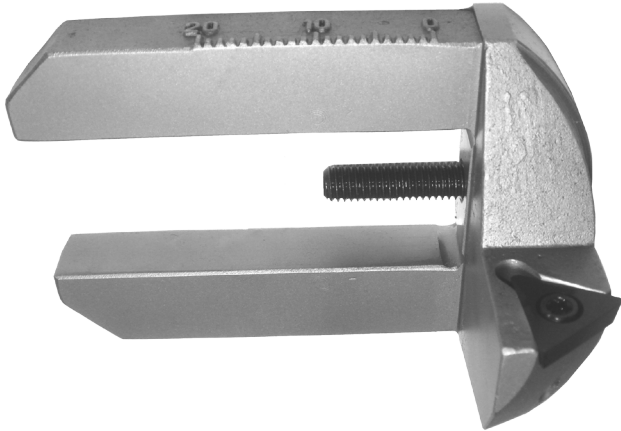
### TH3005-30

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)



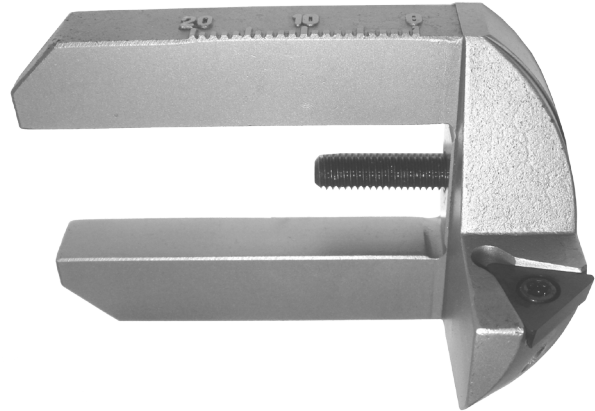
**TH3005-35**

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)



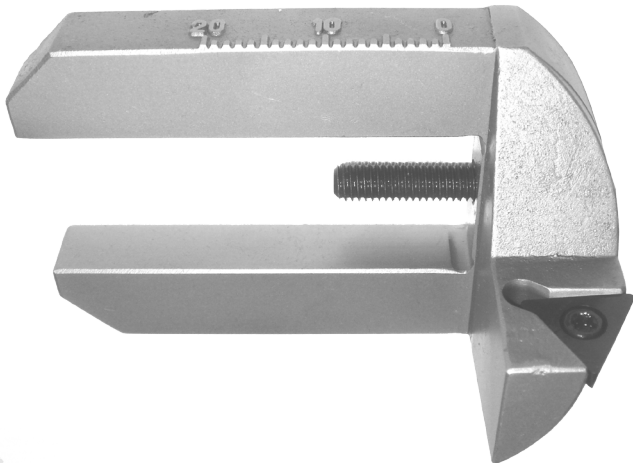
**TH3005-45**

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)



## Inserts for TH3005 Series Tool Holders

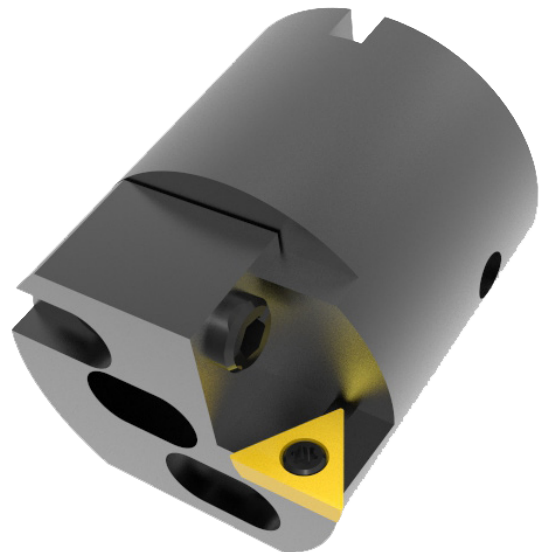
<p><b>RT211</b>                  Triangular Insert, 1/4" (6.35mm) IC, 1/64" radius FOR COUNTERBORING and SINGLE ANGLE INSERT HOLDERS"</p> 	<p><b>RT212</b>                  Triangular Insert, 1/4" (6.35mm) IC, 1/32" radius FOR COUNTERBORING and SINGLE ANGLE INSERT HOLDERS"</p> 
<p><b>RT321</b>                  Insert, triangular 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</b>                  Insert, triangular 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> 

## 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.

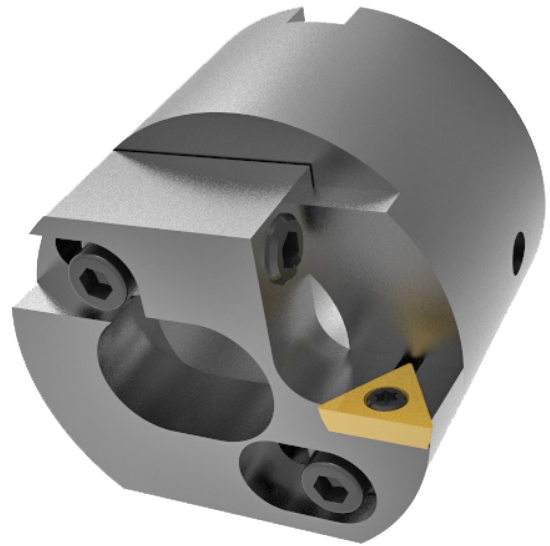
**Note: Requires RS105 Driver and BM Micrometer**



**7630 Pre-settable Adjustable Diameter Valve Seat Housing Cutterhead**

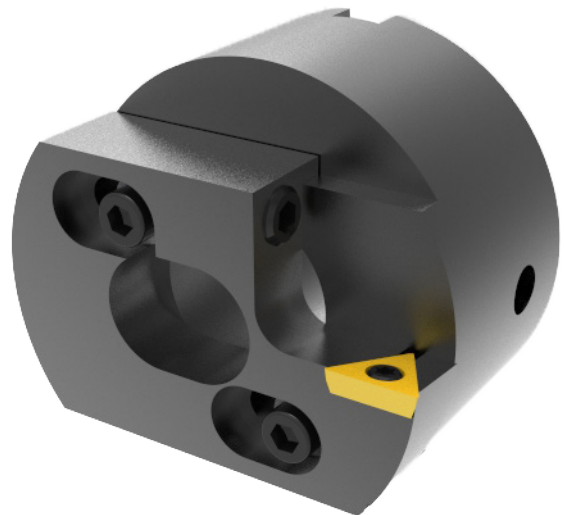
Range 2.599 - 3.233" (66.015 - 82.118mm) Designed for 20mm Shank Pilots.

**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**



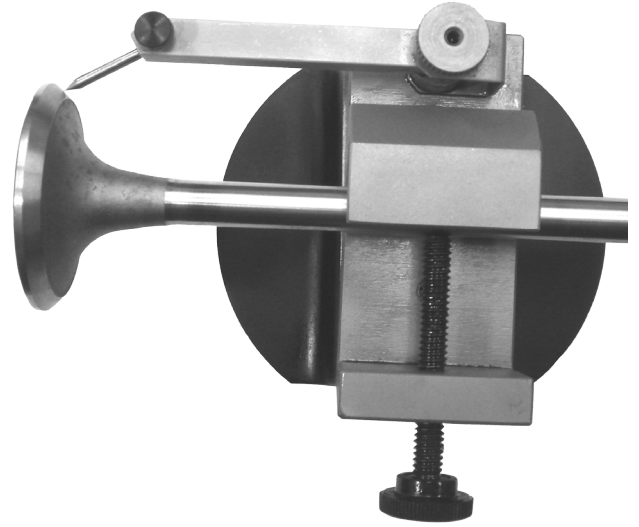
## Suggested Basic Tooling

<p><b>PRW20</b> Pilot Removal Wrench for 20mm Shank Pilots</p> 	<p><b>PRW375</b> Pilot Removal Wrench for .375" Shank Pilots</p> 
<p><b>PRW600</b> Pilot Removal Wrench for 6.00mm Shank Pilots</p> 	<p><b>T15D</b> T15 Torx Tip Screw Driver</p> 
<p><b>T8D</b> T8 Torx Tip Screw Driver</p> 	<p><b>T7D</b> T7 Torx driver for 1/4" insert (straight angle insert holders only)</p> 
<p><b>ALLEN-KEYS-IN</b> Inch Ball End Hex Allen Key Set Drivers: 1/16" - 3/8"</p> 	<p><b>ALLEN-KEYS-MM</b> Metric Ball End Hex Allen Key Set</p> 

## Micrometers Setting Fixtures and Measurement Tools

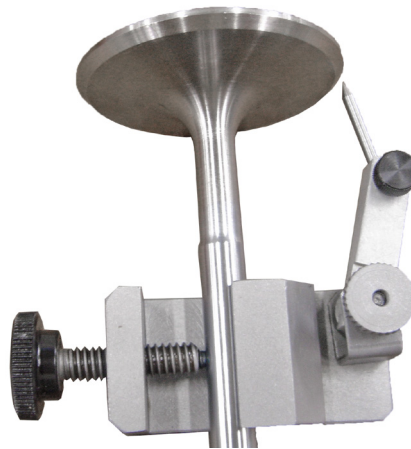
### DSP20

Table mount tool setting device with Interchangeable Point for 20mm Shank pilots



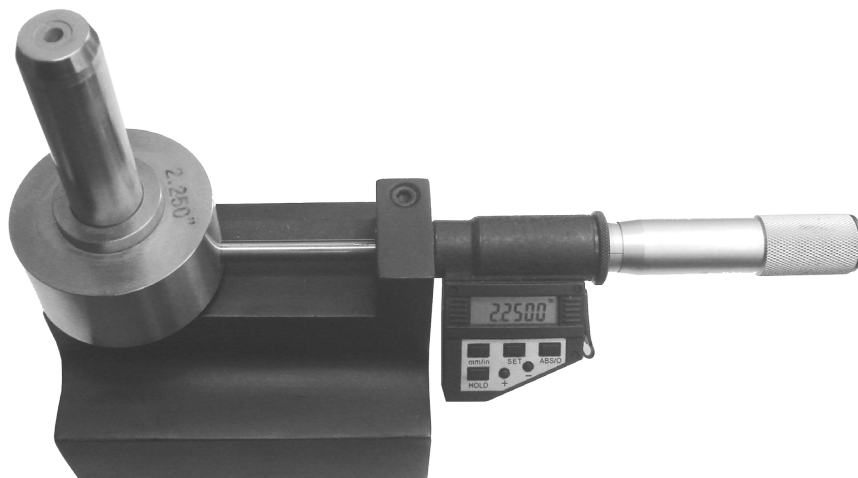
### DSP

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 (.236") shank diameter



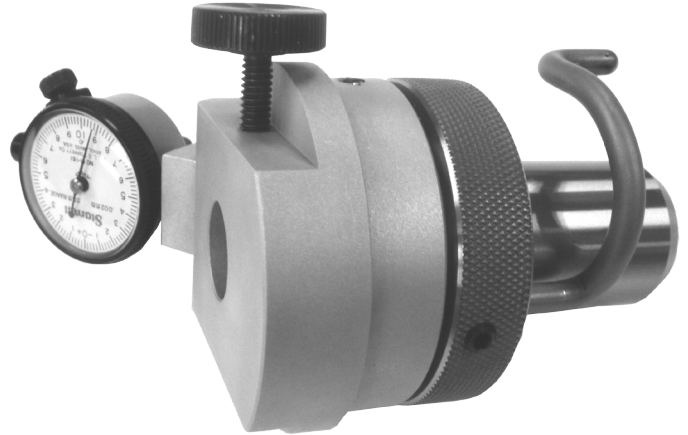
**6-1SETTINGFIX**

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.



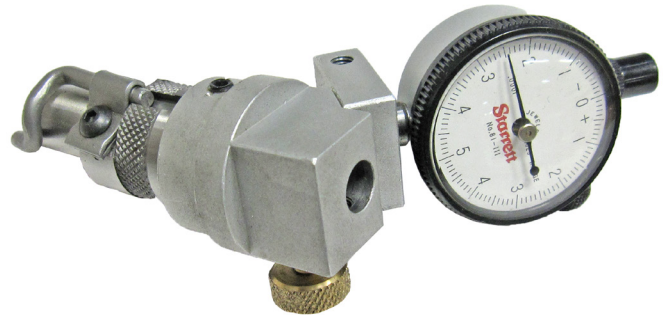
**VSG2000 Precision Valve Seat Concentricity Gage Base**

Only for 20.00mm Pilot Shank Range 2.362 - 5.905" (60.00 - 150.00mm) Must Order dial indicator .0001" or .002mm Metric indicator. (indicator shown)



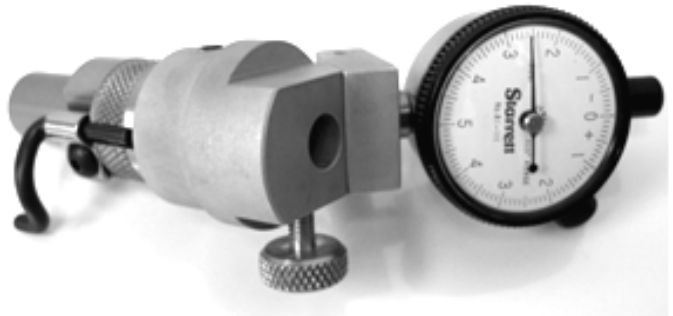
**VSG102-375 Precision Valve Seat Concentricity Gage Base**

Only for .375" Pilot Shank (Must Order dial indicator .0001" or .002mm Metric indicator) (indicator shown)



**VSG102-6MM Precision Valve Seat Concentricity Gage Base**

Only for 6.00mm Pilot Shank, Base Only (Must Order dial indicator .0001" or .002mm Metric indicator) (indicator shown)



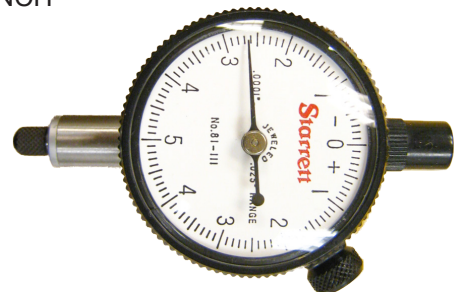
**502-11-39L**

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



**502-11-39D**

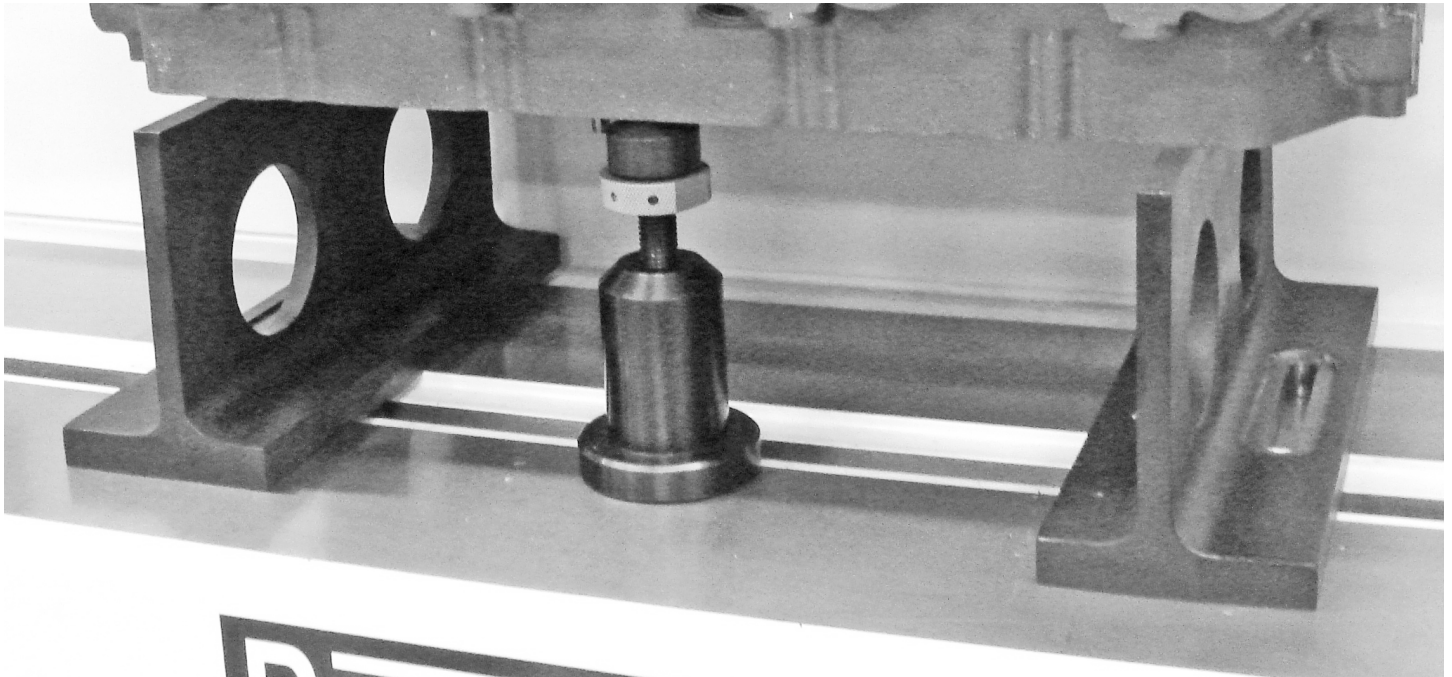
Mechanical run out indicator for Precision bore adjustment (.0001 resolution) INCH



**Fixtures and Parallels for SG8 - SG9 - SG10 MODELS****DIESELFIX**

Diesel Fixture for large in line cylinder heads, includes 1 pair Parallels 12 X 6" (304.80 X 152.40mm) (1) Jack screw to support sagging in the middle when working on large heads.

Requires 1 pair of clamp arms, set of (2) 502-1-30 with (2) 7619 T-nut

**7242T Set of 2 Low Profile  
Clamp Towers**  
(SG8 and SG9 Models Only)

**CANTEDFIX**

Canted Fixture for leveling Canted cylinder heads on Any fixed pilot Seat and Guide Machine



**Fixtures and Parallels for SG80 Models**

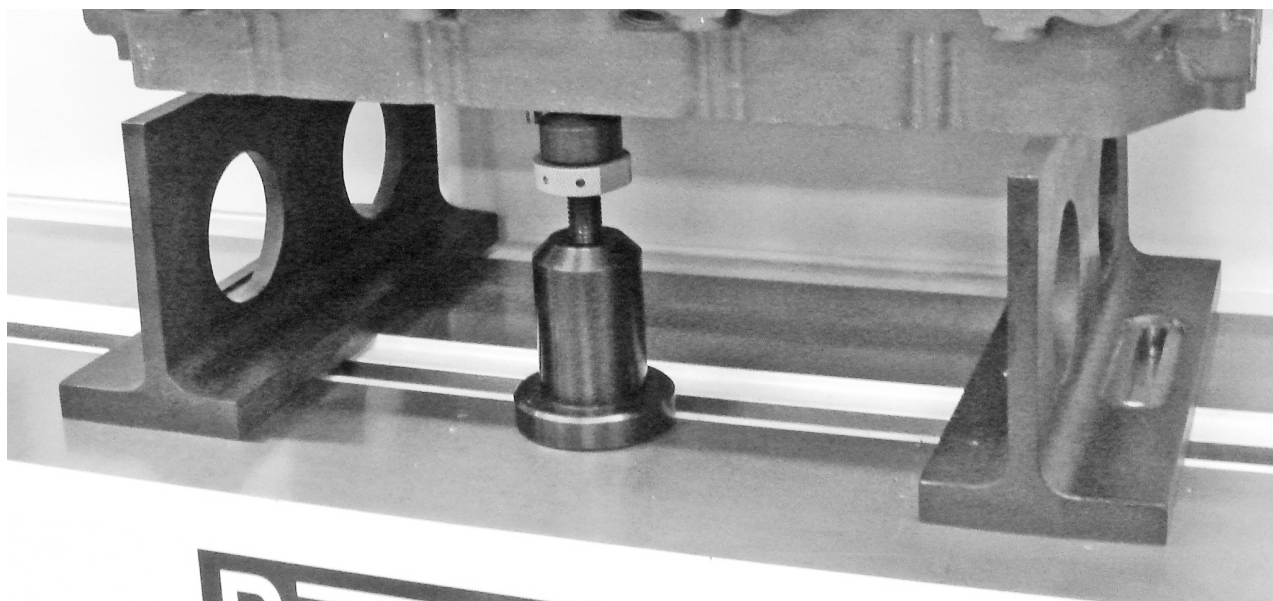
**2DEGREE-TILT**

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



**7242N Set of 2 Clamp Towers**  
Including lower plates**DIESELFIX**

Diesel Fixture for large in line cylinder heads, includes 1 pair Parallels 12 X 6" (304.80mm X 152.40mm), (1) Jack screw to support sagging in the middle when working on large heads. it requires one set of Clamp Towers including lower plates (7242N)



**7618 Large Cylinder Head Clamping Fixture**  
(CAT 3406E or large canted diesel cylinder head))

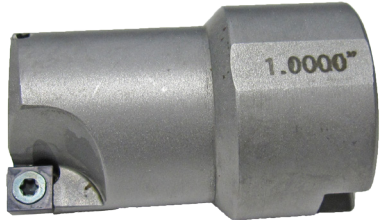


## Milling Heads for Valve Seat Housing Boring

With 2 Replaceable Square Cutting Inserts

### FMH10000R1

1.0000" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



### FMH10625R1

1.0625" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



### FMH11250R1

1.1250" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



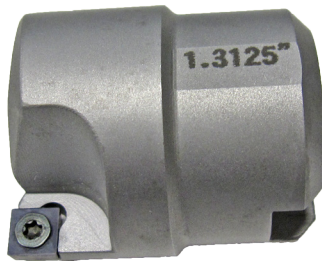
### FMH11875R1

1.1875" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



### FMH13125R1

1.3125" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



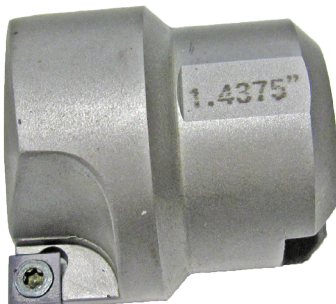
### FMH13750R1

1.3750" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



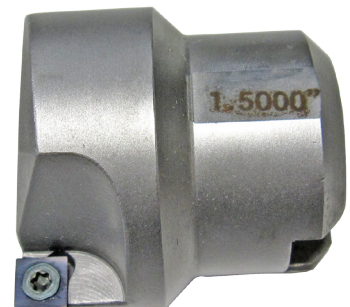
### FMH14375R1



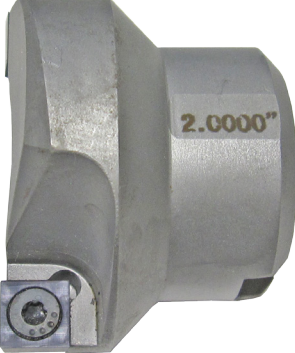

1.4375" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



### FMH15000R1

1.5000" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)



<p><b>FMH15625R1</b> 1.5625" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)</p> 	<p><b>FMH16250R1</b> 1.6250" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)</p> 
<p><b>FMH16875R1</b> 1.6875" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)</p> 	<p><b>FMH17500R1</b> 1.7500" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)</p> 
<p><b>FMH18125R1</b> 1.8125" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)</p> 	<p><b>FMH18750R1</b> 1.8750" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID Milling head Driver)</p> 
<p><b>FMH20000R1</b> 2.0000" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID. Ball Head Milling head Driver)</p> 	<p><b>FMH20625R1</b> 2.0625" Fixed Double Replaceable Insert Milling Head with .562" Driver ID (Require BD560 .562" ID. Ball Head Milling head Driver)</p> 



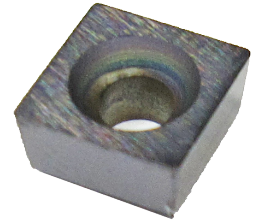
**ICC003 Insert**

Indexable, carbide, for Fixed milling heads - large size - for 1.562" and larger cutters



**ICC002 Insert**

Indexable, carbide, for Fixed milling heads - small size - for 1.250" to 1.500" cutters



**Collet Chuck and Tooling**

**COLLET-KITR1 Collet Chuck Kit**











For Rottler R1 Spindle Taper, Including: (1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 3/4 Spring Collets), Collet Chuck w/Collet Retaining Nut and Spanner Wrench.



**CCWSETR1 Collet Chuck Spindle Adapter**

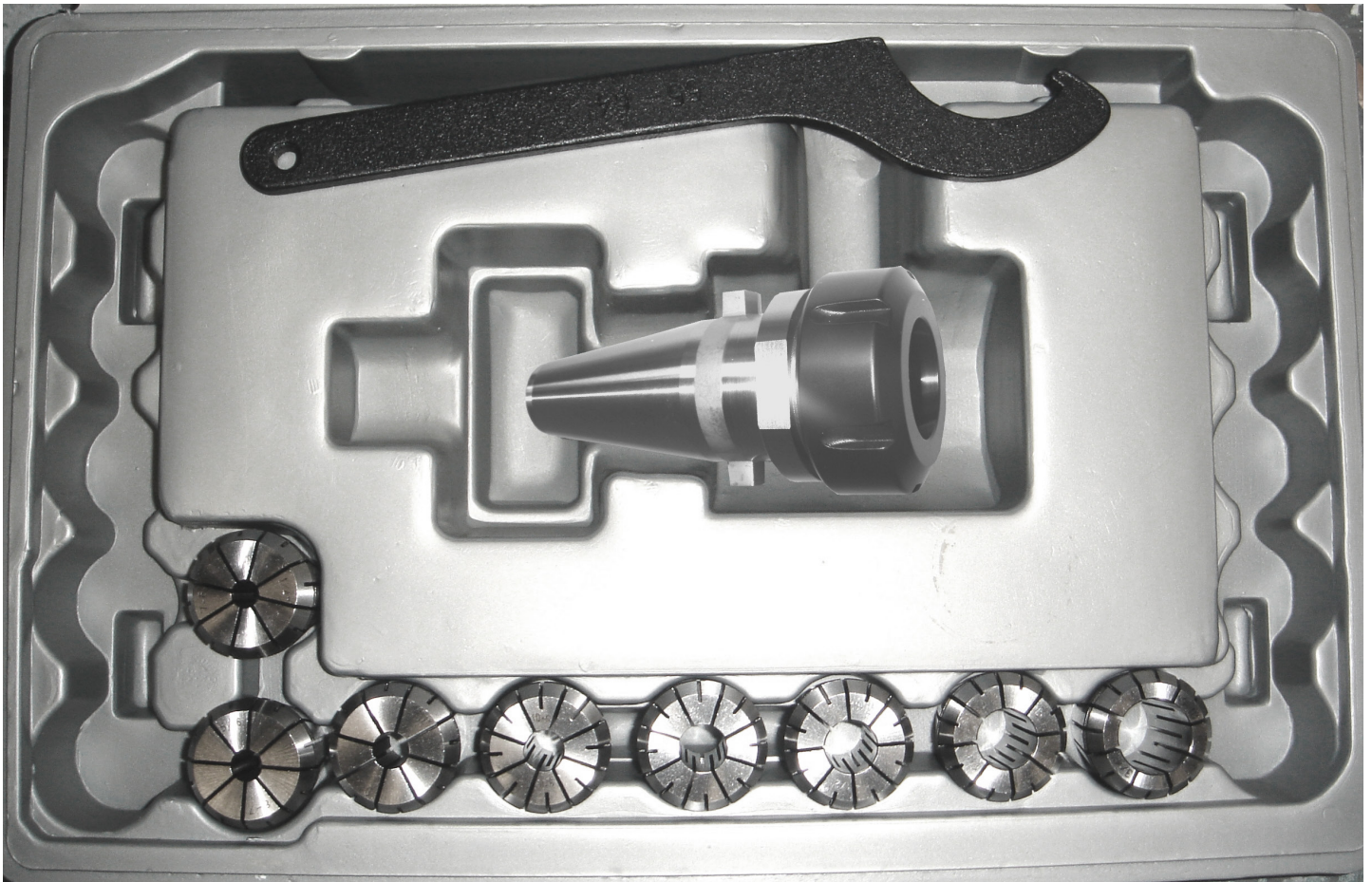
With Collet Nut for Rottler R1 Spindle Taper













<p><b>ER250</b> 1/4" ER32 Spring Collets From .236" - .275"</p> 	<p><b>ER312</b> 5/16" ER32 Spring Collets From .275" - .314"</p> 
<p><b>ER343</b> 11/32" ER32 Spring Collets From .314" - .354"</p> 	<p><b>ER375</b> 3/8" ER32 Spring Collets From .354" - .393"</p> 
<p><b>ER437</b> 7/16" ER32 Spring Collets From .433" - .472"</p> 	<p><b>ER500</b> 1/2" ER32 Spring Collets From .472" - .511"</p> 
<p><b>ER562</b> 9/16" ER32 Spring Collets From .551" - .590"</p> 	<p><b>ER750</b> 3/4" ER32 Spring Collets From .748" - .787"</p> 
<p><b>ER32SW</b> ER32 Spanner Wrench for Collet Chuck</p> 	<p><b>COLLET-BOX</b> Collet plastic box for 8 collets and Holder</p> 

**COLLET-KITST**

Collet chuck set of 8 collets Including: (1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 3/4 Spring Collets), Collet Chuck w/Collet Retaining Nut and Spanner Wrench for Tobin Arp & Sunnen



<p><b>ER250</b> 1/4" ER32 Spring Collets From .236" - .275"</p> 	<p><b>ER312</b> 5/16" ER32 Spring Collets From .275" - .314"</p> 
<p><b>ER343</b> 11/32" ER32 Spring Collets From .314" - .354"</p> 	<p><b>ER375</b> 3/8" ER32 Spring Collets From .354" - .393"</p> 
<p><b>ER437</b> 7/16" ER32 Spring Collets From .433" - .472"</p> 	<p><b>ER500</b> 1/2" ER32 Spring Collets From .472" - .511"</p> 
<p><b>ER562</b> 9/16" ER32 Spring Collets From .551" - .590"</p> 	<p><b>ER750</b> 3/4" ER32 Spring Collets From .748" - .787"</p> 
<p><b>ER32SW</b> ER32 Spanner Wrench for Collet Chuck</p> 	<p><b>COLLET-BOX</b> Collet plastic box for 8 collets and Holder</p> 

**COLLETKITR40**

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



**CCWSETR40**

Collet Nut Spindle adapter with Collet Nut for R40 Spindle Taper



**COLLET40-BOX**











Collet plastic box for 10 collets and Holder



**ER40SW**

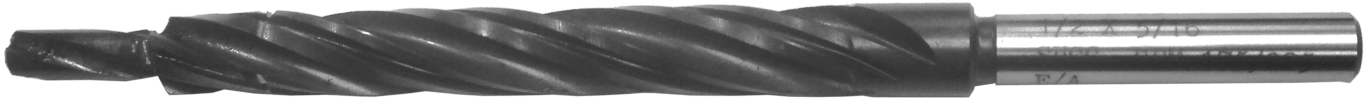
ER40 Spanner Wrench for Collet Chuck (CCWSETR40 Only)



<p><b>ER40-250</b> 1/4" ER40 Spring Collets From .236" - .275" (6.00 - 7.00mm)</p> 	<p><b>ER40-312</b> 5/16" ER40 Spring Collets From .275" - .314" (7.00 - 8.00mm)</p> 
<p><b>ER40-343</b> 11/32" ER40 Spring Collets From .315" - .354" (8.00 - 9.00mm)</p> 	<p><b>ER40-375</b> 3/8" ER40 Spring Collets From .354" - .393" (9.00 - 10.00mm)</p> 
<p><b>ER40-437</b> 7/16" ER40 Spring Collets From .433" - .472" (11.00 - 12.00mm)</p> 	<p><b>ER40-500</b> 1/2" ER40 Spring Collets From .472" - .511" (12.00 - 13.00mm)</p> 
<p><b>ER40-562</b> 9/16" ER40 Spring Collets From .551" - .590" (14.00 - 15.00mm)</p> 	<p><b>ER40-750</b> 3/4" ER40 Spring Collets From .748" - .787" (18.00 - 19.00mm)</p> 
<p><b>ER40-875</b> 7/8" 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> 

**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

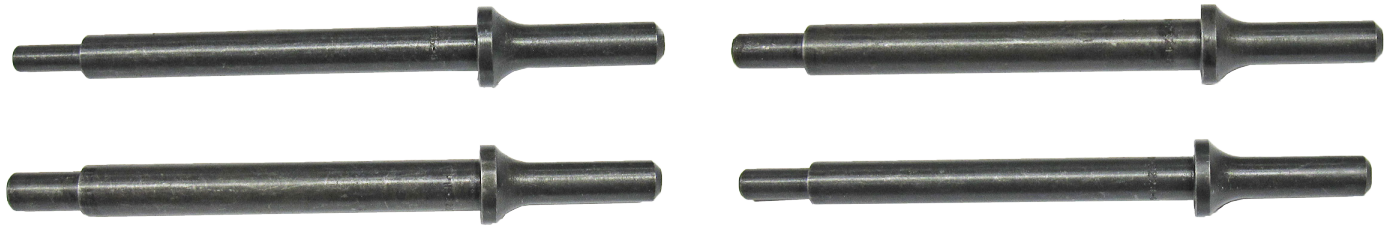




<p><b>VSD101</b> Manual Valve Seat Driver (.375" )</p>	<p><b>VSD102</b> Seat Driver ring 1" - 1.1/8 Seats</p>
<p><b>VSD103</b> Seat Driver ring 1.1/4" - 1.3/8 Seats</p>	<p><b>VSD104</b> Seat Driver ring 1.1/2" - 1.5/8 Seats</p>
<p><b>VSD105</b> Seat Driver ring 13/4" - 1.7/8 Seats</p>	<p><b>VSD106</b> Seat Driver ring 2" - 2.1/8 Seats</p>
<p><b>STP0250</b> .250" High Speed Steel Solid Tapered Pilot</p>	<p><b>STP0275</b> .275" High Speed Steel Solid Tapered Pilot</p>
<p><b>STP0312</b> .312" High Speed Steel Solid Tapered Pilot</p>	<p><b>STP0343</b> .343" High Speed Steel Solid Tapered Pilot</p>
<p><b>STP0375</b> .375" High Speed Steel Solid Tapered Pilot</p>	

**VGD-Kit**

Valve Guide Driver Kit (requires air hammer - not available from Rottler)



**VGD312A**

.312" Valve Guide Driver



**VGD343A**

.343" Valve Guide Driver



**VGD372A**

.372" Valve Guide Driver



**VGD275A**

7.0mm Valve Guide Driver



**VGTC-Kit3**




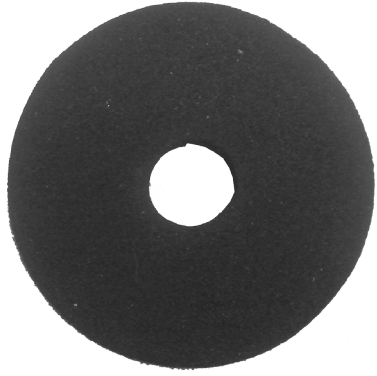
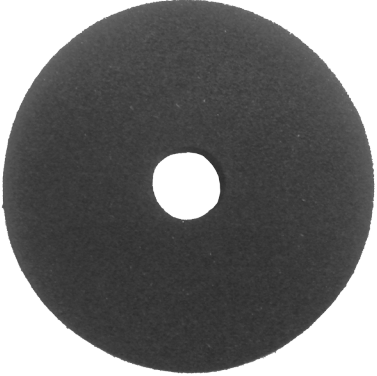
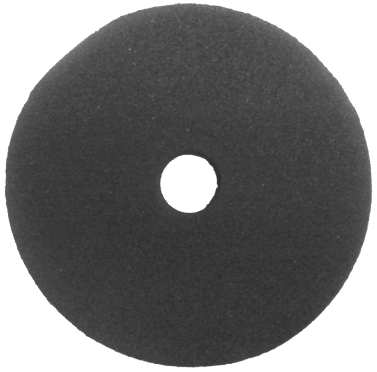
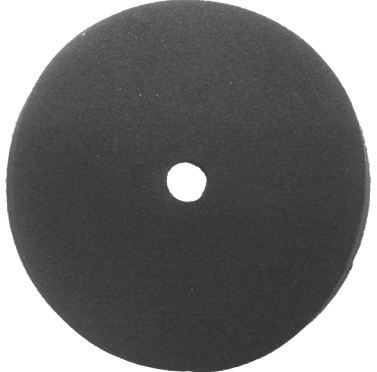
Valve Guide top cutter Kit with 1/2" straight Shank (To be used with Collet holder or SAD500R1 Spindle Adapter) Kit include 5/16", 11/32" & 3/8" pilot for guide top cutter)



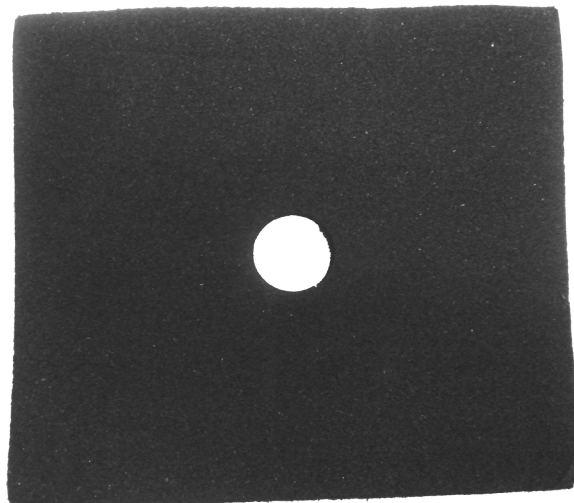
<p><b>GTC100</b> High Speed Steel Valve Guide Top Cutter</p> 	<p><b>GTCP312</b> .312" Valve Guide Top Cutter Pilot</p> 
<p><b>GTCP343</b> .343" Valve Guide Top Cutter Pilot</p> 	<p><b>GTCP375</b> .375" Valve Guide Top Cutter Pilot</p> 

**Consumable Parts for Seat and Guide Models**

<p><b>SLEEVER1</b> Spindle adapter replacement sleeve</p> 	<p><b>BSW002</b> Diamond Wheel Cutting Bit Sharpener replacement Wheel (3.000" Diameter OD by .375" ID)</p> 
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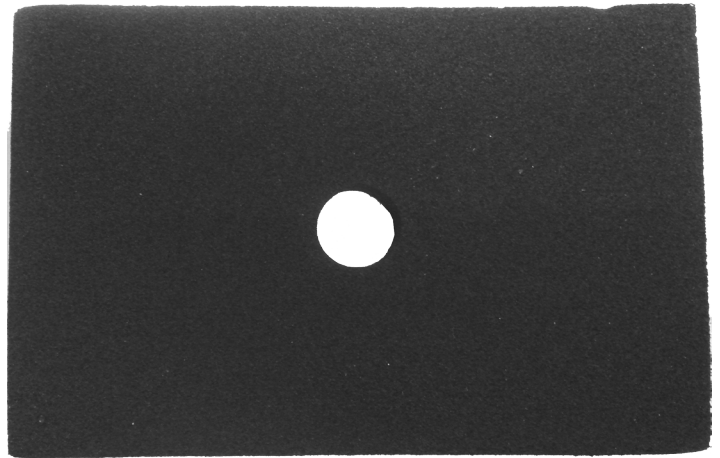
<p><b>PRW600PIN</b> Replaceable Pins for PRW600 Pilot Removable wrench tool</p> 	<p><b>PRW375PIN</b> Replaceable Pins for PRW375 Pilot Removable wrench tool</p> 	<p><b>PRW20PIN</b> Replaceable Pins for PRW375 Pilot Removable wrench tool</p> 
<p><b>VT-FP1562</b> Replacement Foam Pad for Round Vacuum Pad 1.562" diameter</p> 	<p><b>VT-FP1875</b> Replacement Foam Pad for Round Vacuum Pad 1.875" diameter</p> 	
<p><b>VT-FP2125</b> Replacement Foam Pad for Round Vacuum Pad 2.125" diameter</p> 	<p><b>VT-FP3125</b> Replacement Foam Pad for Round Vacuum Pad 3.125" diameter</p> 	

**VT-FP25X22**  
Replacement Foam Pad for Square Vacuum Pad 2.500" x 2.250" square



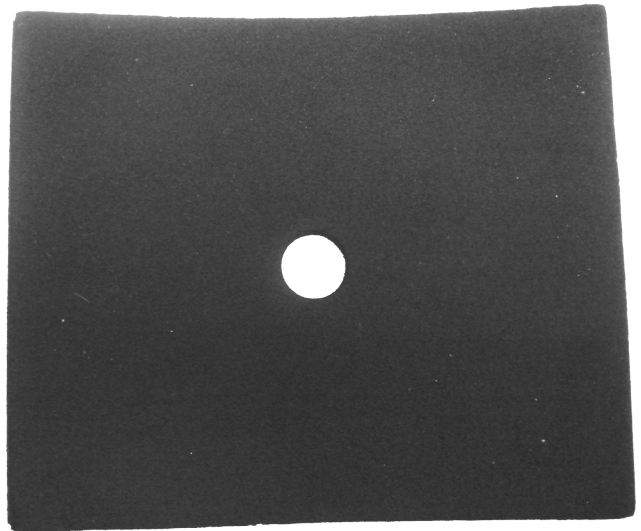
**VT-FP31X20**


Replacement Foam Pad for Square Vacuum Pad 3.125" x 2.000" square



**VT-FP33X27**

Replacement Foam Pad for Square Vacuum Pad 3.375"x 2.750" square



<p><b>T7D</b> T7 Torx driver for 1/4" insert (straight angle insert holders only)</p> 	<p><b>511-29-12E Torx Screw</b> M2.5 X 0.45 X (straight angle insert holders only)</p> 	
<p><b>T8S</b> T8 Torx Tip Holding Screws</p> 	<p><b>T15S</b> T15 Torx Tip Holding Screws</p> 	<p><b>MHS-375</b> Fixed Double Replaceable Insert Milling Head Screws for Large diameter milling Head (3/8" insert)</p> 

<p><b>MHS-250</b> Fixed Double Replaceable Insert Milling Head Screws for Small diameter milling Head (1/4" insert)</p> 	<p><b>S1032-250</b> BH375R1 and BH600R1 Tip Holder Locking Screw (10/32" X 1/4") Requires two</p> 	<p><b>S250-28-250</b> BH375WR1 Tip Holder Locking Screw 1/4"-28" X 1/4" Requires two</p> 
<p><b>S1032-437</b> TH1999 Adjusting Screw (10/32" X 7/16")</p> 	<p><b>S1032-375</b> TH2000 Adjusting Screw (10/32" X 3/8")</p> 	<p><b>S1032-500</b> TH2001 Adjusting Screw (10/32" X 1/2")</p> 
<p><b>S1032-625</b> TH2002 Adjusting Screw (10/32" X 5/8")</p> 	<p><b>S500-1600</b> TH2003 Adjusting Screw (6.00 X 16mm)</p> 	<p><b>S600-2015</b> TH2004 Adjusting Screw (6.00mm X 20.15mm)</p> 

**M10X15X35**

SG7 Rollover Fixture Hold down swivel Zinc Handle 35mm (1.375") Long stud (KHF-725)



**500-13X2**

SG8 Rollover Fixture Hold down swivel Handle Zinc Handle 2.000" Long stud (KHF-162)



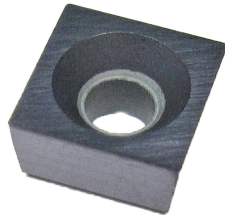
**500-13X1375**

SG7- SG8 Rollover Fixture Lock swivel Handle Zinc Handle 1.375" Long stud (KHF-158)



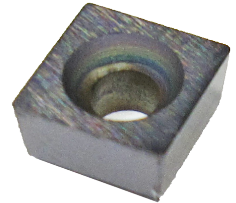
**ICC003 Insert**

Indexable carbide, for Fixed milling heads - large size - for 1.562" and larger cutters



**ICC002 Insert**

Indexable, carbide, for Fixed milling heads - small size - for 1.250" to 1.500" cutters



**FILTER-VT**

Filter for Vacuum Tester with 6mm OD hose



**FILTER-VT300**

Filter for Vacuum Tester with 8mm OD hose

