



**Constantly-Varying Speed**

US Patent - for Chatter-Free Seats!



Premium 3-Angle Inserts for:

- Powder Metal Valve Seats  
(Hardness 57-60HRC)
- Cryogenic & R-Pvd Treated



**Inventors of  
Spring-Free Tooling**  
(US Patent)



**New off-set  
porting tools**

- **QUALITY**
- **SIMPLICITY**
- **RELIABILITY**
- **AFFORDABILITY**

**ROBINS** the same company supplying high-end Seat & Guide Equipment and Valve Refacers since 2002, is now offering High Precision, Low Cost Seat & Guide Equipment with Patented Quick-Change spherical Spring-Free-Tooling, designed for cylinder heads up to 44" and featuring a simple foot-print.

**ROBINS** Seat & Guide, Valve Refacers, Cylinder Boring, Mini Cylinder Honing, Surfacing and Guide Honing machines are the perfect solution to get your business started.



Patented technology vary spindle speed automatically while machining. Improved chatter-free surface finish & concen below 0.0003" in most cases, a revolutionary feature!



### 360° ROLL OVER FIXTURE

- Built-in degree wheel
- 90° positive lock for in-line cylinder heads
- Custom wedges for angled & canted heads



### EQUAL SEAT DEPTH

- Unique alignment device aligns all guides in reference to roll fixture center line
- Equal seat depth for angled & canted heads



### C-FRAME FIXTURE

- Overhead Cam & cylinder heads requiring extended clamping for difficult to mount cylinder heads



### IN-LINE DIESEL HEAD FIXTURE

- Fast setup of in-line large cylinder heads with adjustable center support



### EXTRA HEAVY-DUTY TOOLING

- 20mm diameter shank pilots & tooling for large seats.
- Up to 150mm diameter seat can be machined below 0.0005" concen



### AIRCRAFT CYLINDER HEADS

- Valve seats easily machined with extended/custom tooling & clamping fixtures.



### DUAL HEAD FIXTURE

- V6, V8 & in-line heads can be machined in one setup



### AUTO-CLAMP TILT FITURE

- One pneumatic switch clamps and un-clamps heads
- Quick setup fixture

**New!**

## EXPERIENCE THE ULTIMATE IN PRECISION

Designing & Manufacturing Patented Technologies  
US 7.726.819B; US2018/0074467A1

Best of the Best !

# ROBINS

SINCE 1983



# SG8

PATENTED  
TOOLING

*"Nothing else - is equal"*



### SPRING FREE TOOLING

Invented in 2003. Patented and in use world-wide!



### SG8-SUITABLE FOR ALL!

Seat diameter - 14mm to 150mm  
Average Concen below 0.0005"



### 3-ANGLE INSERTS

- Over 400 multi-angle profiles to choose from
- Standard & RUBI-hard
- Custom insert designs



### INSERT HOLDERS

- 3-Angle & Triangular
- Counter boring; old seat ring removal & single angle indexable holders.



### BALL HOLDERS

Complete range from 16mm-150mm seat diameter. Also extended spherical heads for aircraft cylinder heads.



### ADAPTORS & DRIVERS

Drill/Reamer drivers, 3-angle holders, collet chucks.



### NANO-PRECISION CARBIDE PILOTS

- Fixed & Live
- OD Honed for longer life
- Full range 6mm, 9.52mm & 20mm shank pilots
- Custom pilots in .0001" increments



### MEASURING DEVICES

- Concen Gages 6mm, 9.52mm & 20mm
- Counter boring micrometers
- Tool setting device
- Canted bar for canted heads



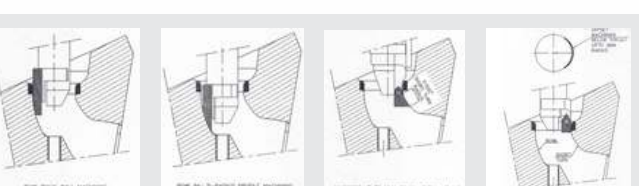
### ELECTRONIC & BUBBLE LEVELS

- Dual axis level (new) for canted heads
- Machine levels
- Electronic levels accuracy (0.02°)



### FIXED DIA MILLING CUTTERS

Standard & special designs  
2-step diameter cutters  
Custom carbide reamers/core drills



### OFF-SET INTAKE & EXHAUST PORTING TOOLS

- Better flow & horse power
- Blend & machine multi radius bowl & throat areas
- Offset throat machining up to 0.100" radius offset
- Short turn radius machining up to 12mm (0.500") below vertical plane



### LAPPING & SHARPENING UNITS

- Easy to install & remove lapping device
- Machine mountable motorized sharpening unit.

**ROBINS SEAT & GUIDE AND VALVE REFACERS SOLD WORLD-WIDE SINCE 2002**

**SIMPLE·AFFORDABLE·HIGH PRECISION.**

[www.Robins1983.com](http://www.Robins1983.com)

*"Above and Beyond"*





## SEAT & GUIDE EQUIPMENT

## SUPER PRECISION GUIDE HONING



- Cylinder Head Size (in Roll Fixture)
- Spindle Tilt
- Spindle Stroke
- Spindle Speed
- Roundness
- Concentricity
- Surface Finish
- Micro Fine Feed
- Spring Free Adaptors
- Constant Varying Speed

SG5	SG7	SG8	SG8 XL
23 x 10 x 5"	32 x 10 x 6"	40 x 12 x 6"	47 x 15 x 10"
10 Degrees	15 Degrees		
5.750" (146mm)	6.750" (172mm)	8.500" (216mm)	
80-500 RPM	50-440 RPM	35-500 RPM	
0.0001"			
0.0002" (Honed Guides)			
(0.5 - 1.25 MM) Ra			
No	Yes	Yes	Yes
Yes			
No	No	Yes	Yes

- No Reaming
- Stock Removal up to 0.010"
- Hone Guides within 0.0001"
- Dual Workhead - Seat cutting & Guide honing Combo SGH8
- Also fully automated models hole-to-hole auto honing.

## VALVE REFACERS

HIGH QUALITY VALVE REFACERS

- Capacity 3.5 - 20.7mm
- Cabinet & XL Coolant Tank (VR10)
- UL, CSA, CE Electricals
- Vacuum Heat Treated Bohler Chuck
- Critical Parts Made in North America



## CHUCK OPTIONS

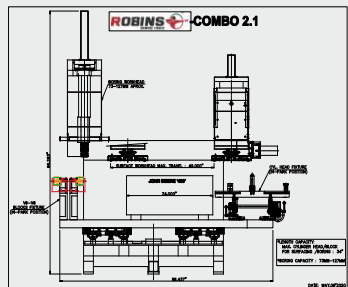
- Mini (3.5 - 7.1mm)
- Standard (4.0 - 14.00mm)
- Large (11 - 20.7mm)

Choose Premier Chuck (0.0002" accuracy) \*OR\* Standard Chuck (0.0004" accuracy)

"Absolutely love this valve grinder! Could not have asked for better!" -Thomas Clark- LKQ Corp

## NEW PRODUCTS UNDER DEVELOPMENT

- COMBO (MODEL CBS-2.1) CYLINDER BORING & SURFACING COMBO
  - MINI CYLINDER BORING & HONING COMBO  $\phi$ 45-95 mm
- "ECONO 2-in-1... **ROBINS** First"



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