

HEAVY DUTY VALVE SEAT & GUIDE MACHINE

CVS TM
Constantly-Varying Speed
US Patent - for Chatter-Free Seats!

RUBi-hard TM
Premium 3-angle cutting inserts for:
Suitable for-
Powder Metal and hardened
Valve Seats



Mini, Standard and heavy duty tooling using
6mm, 9.52mm & 20mm shank dia carbide pilots.
Inventors of Spring-Free Tooling
(US Patent)

**SG8XL with Cummins ISX
24 Valve Cylinder head**

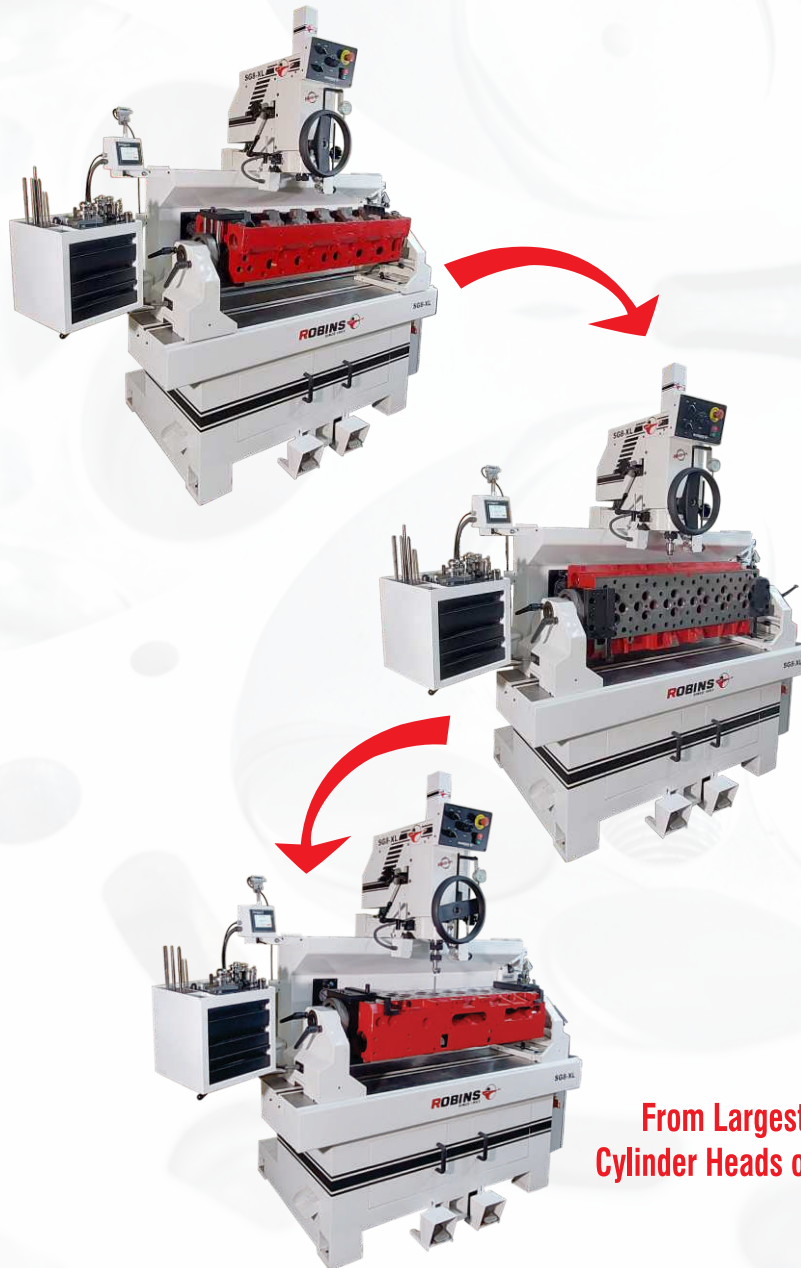
- **Finest Quality**
- **Advanced Technology**
- **Plug n Play**
- **Proven Reliability**
- **Affordability**

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 small to heavy duty cylinder heads featuring a simple foot-print.

ROBINS Seat & Guide, Valve Refacers, Cylinder Boring, Cylinder Honing, Valve Guide Honing, Cyl. Head & Cylinder Block Surfacing are the perfect solution to get your business upgraded to next level of evolution in design and nano precision machining accuracies.

SIMPLE•AFFORDABLE•HIGH PRECISION.

"Above and Beyond"



HEAVY DUTY
SG8XL
Rotate the largest
24 Valve Diesel Cyl Heads
360 Degrees --effortlessly!



Small Motor Bike
Cylinder head in
roll fixture on SG8XL

**From Largest to Smallest
Cylinder Heads on One Machine.**

NEW STANDARD IN HEAVY DUTY VALVE SEATS & GUIDES

SG8 XL is specifically designed for machine shops that build small to large Cyl. Heads in Heavy Duty Industry from Single Cylinder to 24 valve six cylinder heads used in Natural Gas, Mining, Construction & Marine Engines.

Fixed Pilot concept works the best to achieve ultimate chatter-free finish on Valve Seats & down to few microns concentricity.

Large 24 Valve Heads can be easily clamped and rolled full 360 degrees to allow work to be done on all sides of these cylinder heads. Difficult jobs such as Injector Tubes , drilling & tapping, repairing broken studs and threads are a breeze !

HEAVY DUTY SG8XL SEAT AND GUIDE MACHINE

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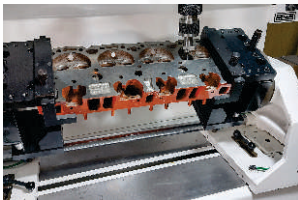


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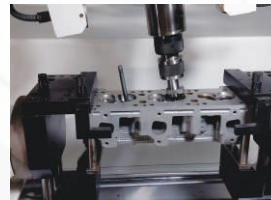
**Large Cat 3600 Cylinder head
on Two degree Tilt Fixture.**



Popular Chevy 350 Cyl Head
on 360 deg roll fixture.



Aircraft Cylinder Heads Machining



Canted Head set up on SG8XL



Mini Cylinder Head Machining on SG8XL



3-ANGLE CUTTING INSERTS



ADAPTORS & DRIVERS



INSERT HOLDERS



NANO - PRECISION CARBIDE PILOTS



SPHERICAL HOLDERS



LARGE DIA CONCEN GAGE



NEWLY DESIGNED LAPPING DEVICE



TOUCH SCREEN DUAL AXIS LEVEL



From
Seat dia. 14-150mm
Concen below 0.0005"

BIG OR SMALL --SG8 XL - SUITABLE FOR ALL !



- 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

SG 5	SG 7	SG 8	SG 8XL
23 x 10 x 5" (585 x 254 x 127)	32 x 10 x 5" (815 x 254 x 127)	40 x 12 x 6" (1015 x 254 x 150)	47 x 15 x 10" (1200 x 380 x 254)
±10 Degrees	±15 Degrees		
5.750" (146 mm)	6.750" (172 mm)	8.500" (216 mm)	
80 - 500 RPM	35 - 500 RPM		
Achieve < 0.0002" (5 microns) after plateau honing valve seats			
0.0002" (5 microns) ... Honed Guides			
< 0.4 Ra μm			
No	Yes		
Yes			
No		Yes	

Extreme-Precision Valve Grinding Machines...



- * Robin Chera & his company have been manufacturing premium machinery, related tooling & serving USA and World's Engine Re-building Industry since its inception in 1983 thru top renowned brands and machinery manufacturers.
- Served "Peterson / Kansas Instruments" from 1983-2003 (Portable Boring Bars PK447, 777-S, 944-S and Honing heads)
- Serving "Rottler Manufacturing" since 2002 (Seat Guide and Valve Refacers) (Invented unique hole to hole modular fully automated seat & guide machining systems and many new design concepts and patents.)
- Serving Goodson, since 1998 (Seat Guide Tooling).
- Serving Sunnen U.S.A. since 2001 (Seat Guide Tooling)
- Served DCM-Tech, RMC, Winona Van Norman, Guspro, K-Line, Serve-Equip, Kwik-Way (Seat Guide tooling / machines).
- Served AMC-Schou Denmark, Berco, AZ-spa, Comec, Serdi SRL, Peg-Rossi Cramer (Seat Guide tooling / machines).