

Designing & Manufacturing Patented Technologies

US 7.726.819B | US 2018/0074467A1

SG 8

Heavy Duty

Seat & Guide Machine

"Built ...forever"



New Standard in Heavy Duty Valve Seats

SG 8 Specifically designed for machine shops that build small to large Heads in Heavy Duty Industry from Single Cylinder to 24 valve 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.

Robins exclusive patented multi-angle seat tooling eliminates the need for bounce springs. Robins patented tooling holds the ball driver firmly, yet allows the sphere to float during seat cutting. This eliminates the trouble-some bounce springs but gives you the ultimate in valve seat concentricity.

Robins Machines offer a wide range of tooling & fixtures for machining variety of cylinder heads as well as all the required operations from seat cutting, guide finishing to injector tube machining.



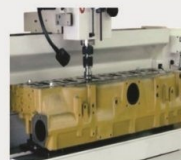
Get more Life with Ruby-hard premium inserts



New 2-Deg. Levelling Fix.



4mm - 140mm Seat Dia Tooling



Heavy duty precision machining



Lapping & Sharpening Units



Below 5 µm Concen

FEATURES & TOOLING

- **ROBINS** Patented Spring Free Tooling
- Carbide Pilots - Exclusive Design
- Extra Heavy Duty Roll Fixture, suitable for Large Heads.
- 3-angle cutting inserts - Edge Honed & Sub-Zero treated for longer life.  **RUBI-hard**™ Inserts

- Seat Roundness 0.0001" (0.002 mm)
- Seat To Honed Guide Concen 0.0002" (0.005 mm)



Inventors of Spring-Free Tooling (US Patent)

SG 8 Capacity

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

40 x 12 x 6" (1016 x 305 x 153 mm)
± 15 Degrees
8.500" (216 mm)
35-500 RPM
0.5 - 1.25 µmRa
Yes
Yes
Yes