



- Highest Possible Precision
- No Comparison
- Extra-ordinary

SIMPLE - SMART DESIGNS BY ROBINS US 7,726,919 B1 | US 17879818 | US 17892165 (Patents pending)

HEAVY DUTY VALVE SEAT & GUIDE MACHINE

- Achieve equal depth - valve seats ▪ without using any switches.
- without looking at Smart screen.
- without setting mechanical stops.
- without using any dial indicators.

NEW

NEW



Constantly-Varying Speed
for chatter-free seats



Inventors of Spring-Free Tooling
(US Patent)



Premium multi-angle cutting inserts
Suitable for-
Powder Metal and hardened
Valve Seats

2in1

Manual  RubiSmart

- * New Smart Control made "SIMPLE" *
- Manual buttons to Smart Screen –
- Smart Screen to Manual buttons
- Switch to either system in seconds anytime.

ROBINS Dual Centering System

Smart series machines include additional centering / work head float system that precisely centers small diameter pilots in valve guides, ensuring near zero valve seat run-out.



"Robins-First"

- * Machine equal
Seat depths
effortlessly-

Over 100 Live Machine Videos
including Robins Factory virtual tour

youtube.robinsmachines.com

www.RobinsMachines.com

EVERY CUSTOMER SINCE 1983 HAS BEEN "ROBINS-TESTIMONIAL"

FEATURES & FIXTURES



CONSTANT VARIABLE SPEED-CVS

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

ROBINS...World's First



360° ROLL OVER FIXTURE

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



SINGLE CYL. TO DIESEL HEADS

- Universal 360 deg. Roll Fixture - suitable for Motor bike to automotive & diesel cylinder heads.
- Custom production fixtures also available.



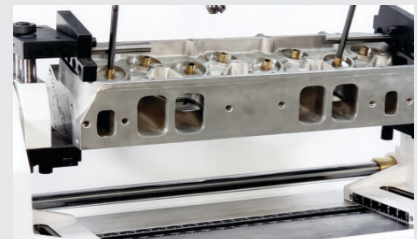
C- FRAME FIXTURE

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



NEW PRECISION LAPPING DEVICE

Innovative super lapping system provides mirror finish & original face angle unchanged during lapping



Robins Exclusive

EQUAL SEAT DEPTH

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

NEW



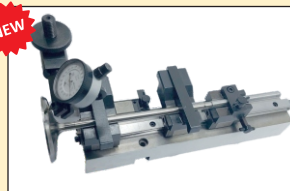
Adjustable counter bore cutter kit

NEW



Preset seat dia exactly single/dual 3 angle inserts kit

NEW



Valve concentricity device (unique linear guideways design)



Precision Concen Gage



New dual axis level kit



Portable vacuum unit

SG 8 Smart is specifically designed for machine shops that build small to mid size diesel Cyl. Heads. This model particularly suitable 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. 24 Valve Heads upto 40" length can be easily clamped & 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 !



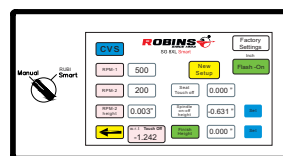
- 0 +
Exactly

SG8

Smart

TOOLING & FIXTURES

HEAVY DUTY SG8 Smart



Single cylinder
to V6, V8 & in-line
Cyl. heads can be
machined in one setup



NANO - PRECISION CARBIDE PILOTS



BALL HOLDERS



3-ANGLE CUTTING INSERTS



Insert Holders



ADAPTORS & DRIVERS

**Small Single Cylinder to
Large cylinder heads
upto 40 inches in length
can be easily setup and
accurately machined on
SG 8 Smart machine**



SG8 Smart Specifications

- **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** 

40 x 12 x 6"
1015 x 305 x 152 mm
±15 Degrees
8.500" (216 mm)
35 - 500 RPM
< 0.0002" (5 microns)
0.0002" (5 microns) ... Honed Guides
< 0.6 Ra μm
Yes
Yes
Yes