



### SIMPLE - SMART DESIGNS BY ROBINS

### 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

**CVS**<sup>TM</sup>  
Constantly-Varying Speed  
for chatter-free seats



Spring-Free Tooling

**RUBi-hard**<sup>TM</sup>  
Premium multi-angle cutting inserts  
Suitable for-  
Powder Metal and hardened  
Valve Seats

## 2 in 1

Manual ● RubiSmart

### THE VALVE GUIDE

- You cannot produce accurate valve seats if you do not first finish guide bores accurately!
- If the reference point for the seat is sub par, the seat quality will suffer.

Remember...the valve guide is the guide, not the seat!

Achieve Guide Honing within 0.0001"

**ROBINS Dual Centering System**

NEW

Newly built-in  
Guide Honing Kit



1. Guide length measuring gage
2. Guide leveling pilot
3. Precision diamond honing tool (USA patent pending)
4. Precision master bore gage
5. Sample honed guide

### NEW FEATURES

- Valve guide honing kit added
- CVS Constant variable speed
- Threading/tapping made simple (Reverse / Forward) spindle RPM

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

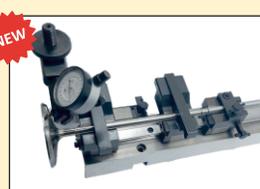
Innovative super lapping system provides mirror finish & original face angle unchanged during lapping



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

<p><b>NEW</b></p>  <p>Adjustable counter bore cutter kit</p>	<p><b>NEW</b></p>  <p>Preset seat dia exactly single/dual 3 angle inserts kit</p>	<p><b>NEW</b></p>  <p>Valve concentricity device (unique linear guideways design)</p>	 <p>Precision Concen Gage</p>	 <p>New dual axis level kit</p>	 <p>Portable vaccum unit</p>
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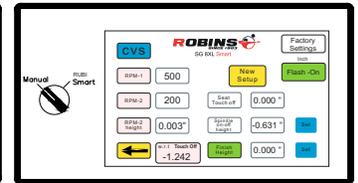
**SGH 8 Smart** is specifically designed for machine shops that build small to mid size diesel Cyl. Heads. This model particularly suitable from Single Cylinder to 24 valve six cylinder heads used in Natural Gas, Mining, Construction & Marine Engines. Fixed Pilot concept works the best to achieve ultimate 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

### TOOLING & FIXTURES

# HEAVY DUTY SGH8 Smart



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

**“Robins-First”**  
\* Machine equal Seat depths effortlessly-



**NANO - PRECISION CARBIDE PILOTS**



**BALL HOLDERS**



**3-ANGLE CUTTING INSERTS**



**Insert Holders**



**ADAPTORS & DRIVERS**



SIMPLE - SMART DESIGNS BY ROBINS



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



## SGH 8 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  $c\checkmark s$

	<b>40 x 12 x 6"</b>
	<b>1015 x 305 x 152 mm</b>
	<b>± 15 Degrees</b>
	<b>8.500" (216 mm)</b>
	<b>30-500 RPM</b>
	<b>&lt; 0.0002" (5 microns)</b>
	<b>0.0002" (5 microns) ... Honed Guides</b>
	<b>&lt; 0.5 Ra<math>\mu</math>m (20Ra<math>\mu</math> inches)</b>
	<b>Yes</b>
	<b>Yes</b>
	<b>Yes</b>

**43**  
Years of  
Legacy



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