



# SG 12 Smart

HEAVY DUTY

*Simple-Smart!*

## SEAT & GUIDE MACHINES

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

**SMART** : SIMPLE, MANUAL, ADVANCED, RELIABLE, TUFF

- 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>®</sup>

Constantly-Varying Speed

Tried, Tested & Trusted  
(testimonials / videos available)

**RUBi-hard**<sup>™</sup>

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

Inventors of Spring-Free Tooling

**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.



**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-First"**

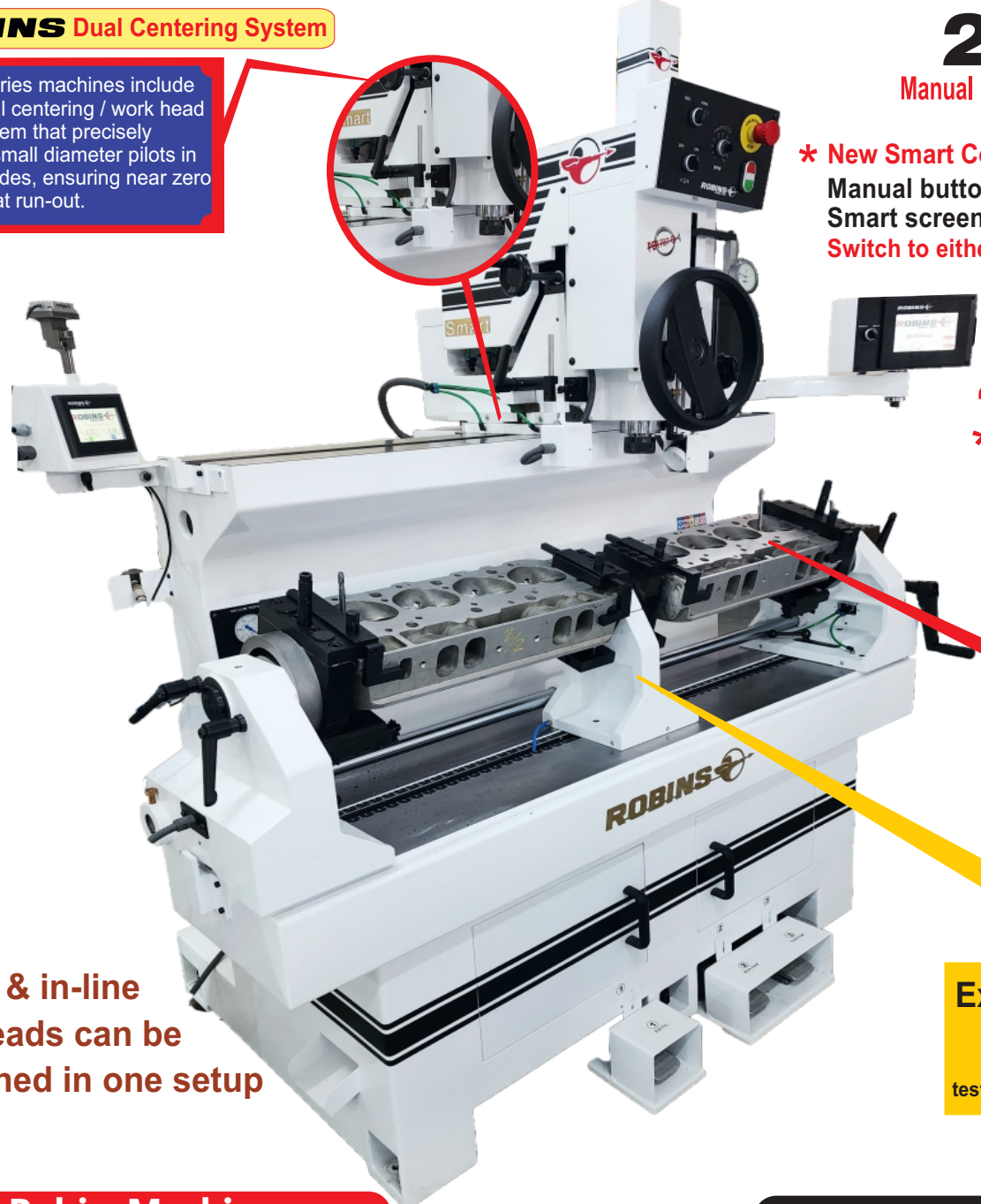
\* Machine equal  
Seat depths  
effortlessly-

Machine two Big Block  
Chevy V8 Cylinder heads  
in one set-up

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

**Extra Heavy Duty  
Dual Fixture**

Tried, Tested & Trusted  
testimonials / videos available

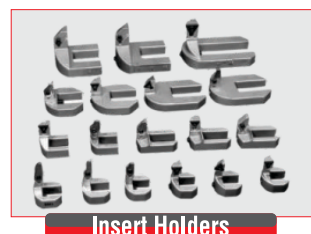
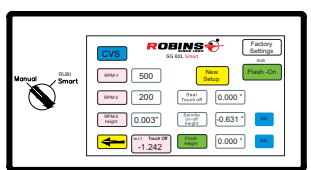
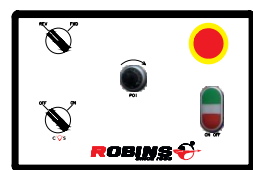


[www.RobinsMachines.com](http://www.RobinsMachines.com)

[youtube.robinsmachines.com](http://youtube.robinsmachines.com)

**EVERY CUSTOMER SINCE 1983 HAS BEEN "ROBINS-TESTIMONIAL"**

**SG 12 Smart with Cummins ISX 24 Valve - Cylinder head**



**LARGE IN-LINE HEADS USING TWO DEGREE TILT FIXTURE**



**AIRCRAFT CYLINDER HEADS MACHINING**

**NEW**



**TWO BIG BLOCK CHEVY CYLINDER HEADS**

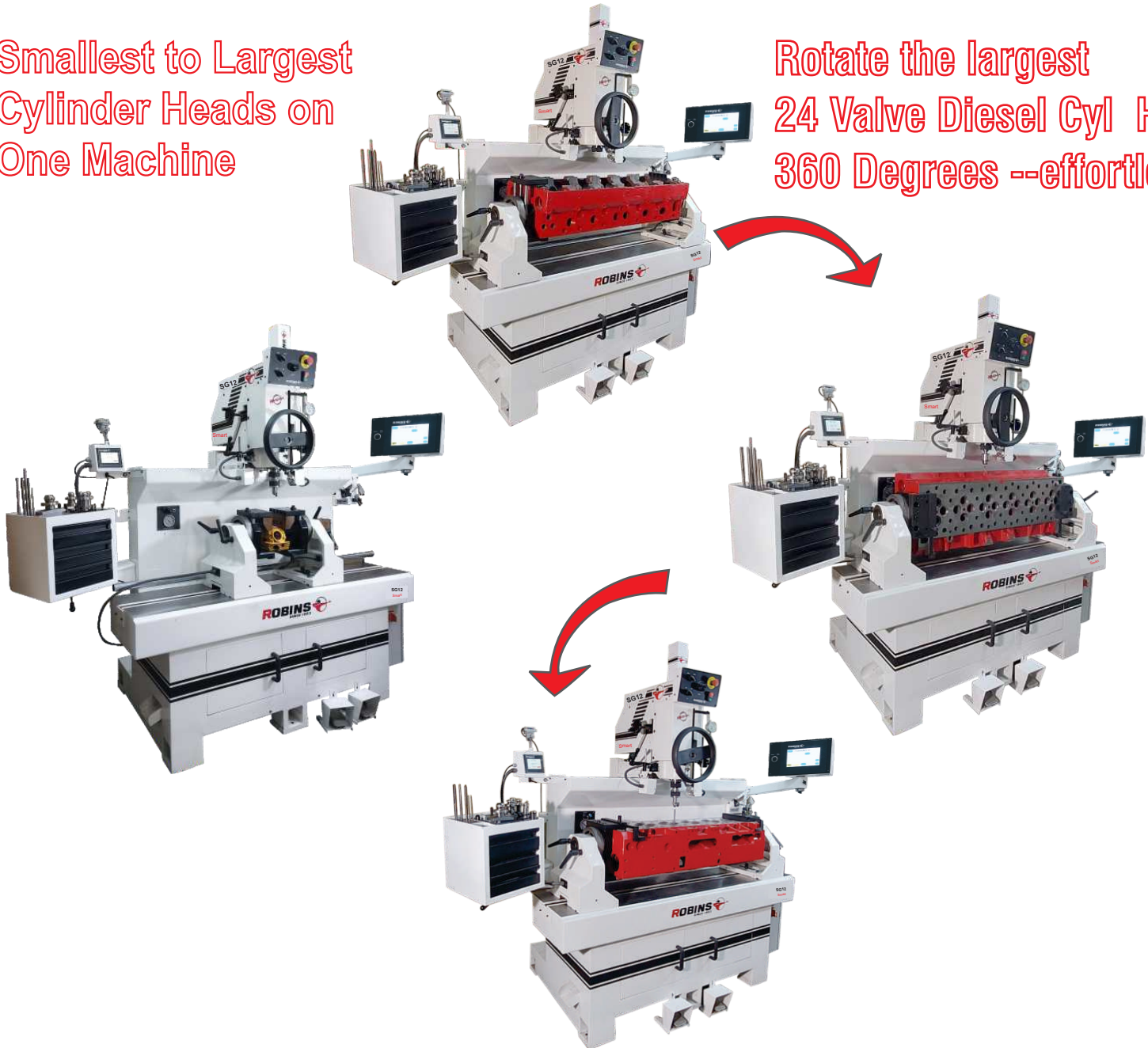


**EXTRA HEAVY DUTY TOOLING**

- 20mm diameter shank pilots & tooling for large seats.
- Up to 150mm diameter seats can be machined near zero valve seat run out.

Smallest to Largest  
Cylinder Heads on  
One Machine

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



## NEW STANDARD IN HEAVY DUTY VALVE SEATS & GUIDES

**SG 12 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, Constructon & Marine Engines. Fixed Pilot concept works the best to achieve ullmate chater-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 !



Extra Large Stationary engine cylinder heads such as Cat 3600 can be easily setup and accurately machined on SG12 Smart machine



**SG12 Smart Specifications**

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

47" x 15" x 10" (1200 x 380 x 254 mm)
±10 Degrees
8.500" (216 mm)
35 - 500 RPM
0.0002" (5 microns) ... Honed Guides
< 0.0002" (5 microns)
< 0.6 Ra μm
YES
YES
YES