

Designing & Manufacturing Patented Technologies | US 7 726 919B | US 17879818 | US 17892165

▪ Achieve equal depth valve seats ▪

NEW

- without using any switches.
- without looking at Smart screen
- without setting mechanical stops.
- without using any dial indicators.

NEW

CVS[®]

Constantly-Varying Speed

Tried, Tested, Trusted since 2019
(testimonials / videos available)



Inventors of Spring-Free Tooling
(US Patent)

RUBi-hard[™]

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

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

2 in 1
Manual  RubiSmart



SG12 Smart
with Cummins
ISX 24 Valve
Cylinder head

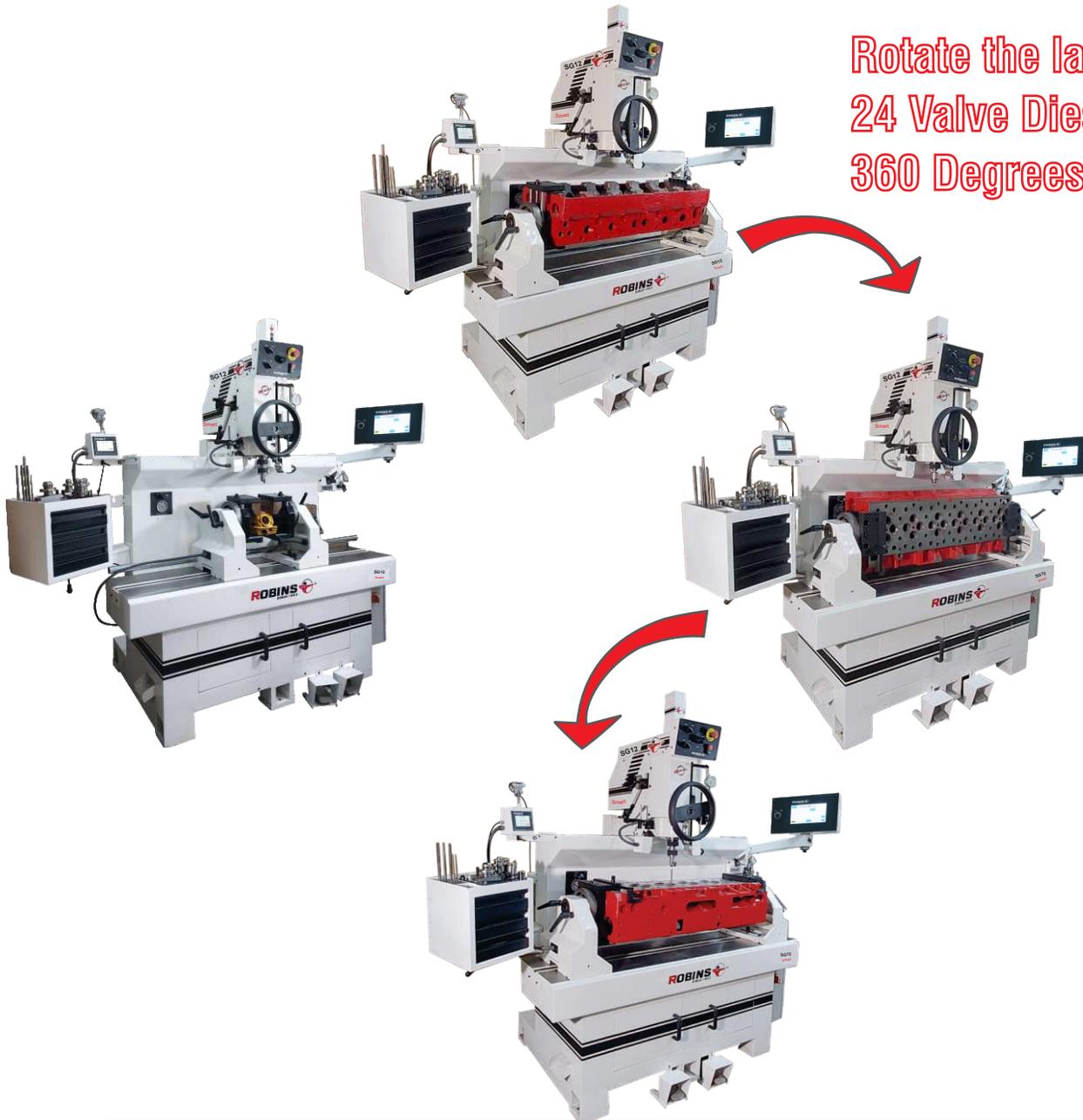
* Machine to precise
Zero Seat depths
effortlessly - "Robins-First"

www.RobinsMachines.com



FEATURES & FIXTURES

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

SG12 Smart 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 !

Dual Fixture, Tooling, Manual & Smart Screen, 2 Degree-Tilt Fixture

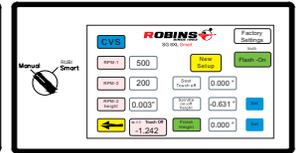
HEAVY DUTY SG12 Smart

CVSTM
Constantly-Varying Speed
US Patent - for Chatter - Free Seats! **Manual** **RubiSmart**



Extra Heavy Duty Dual Fixture
Tried, Tested & Trusted testimonials / videos available

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



TWO B.B. CHEVY CYLINDER HEADS



Large In-Line Heads using
Two Degree Tilt Fixture



Aircraft Cylinder Heads Machining



Dual Head Fixture



Extra Heavy Duty Tooling

- 20mm diameter shank pilots & tooling for large seats.
- Up to 150mm diameter seats can be machined below 0.0005" concen



c v sTM
Constantly-Varying Speed
US Patent - for Chatter-Free Seats!

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



SG12 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 v s**

47 x 15 x 10"
(1200 x 380 x 254 mm)
±10 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