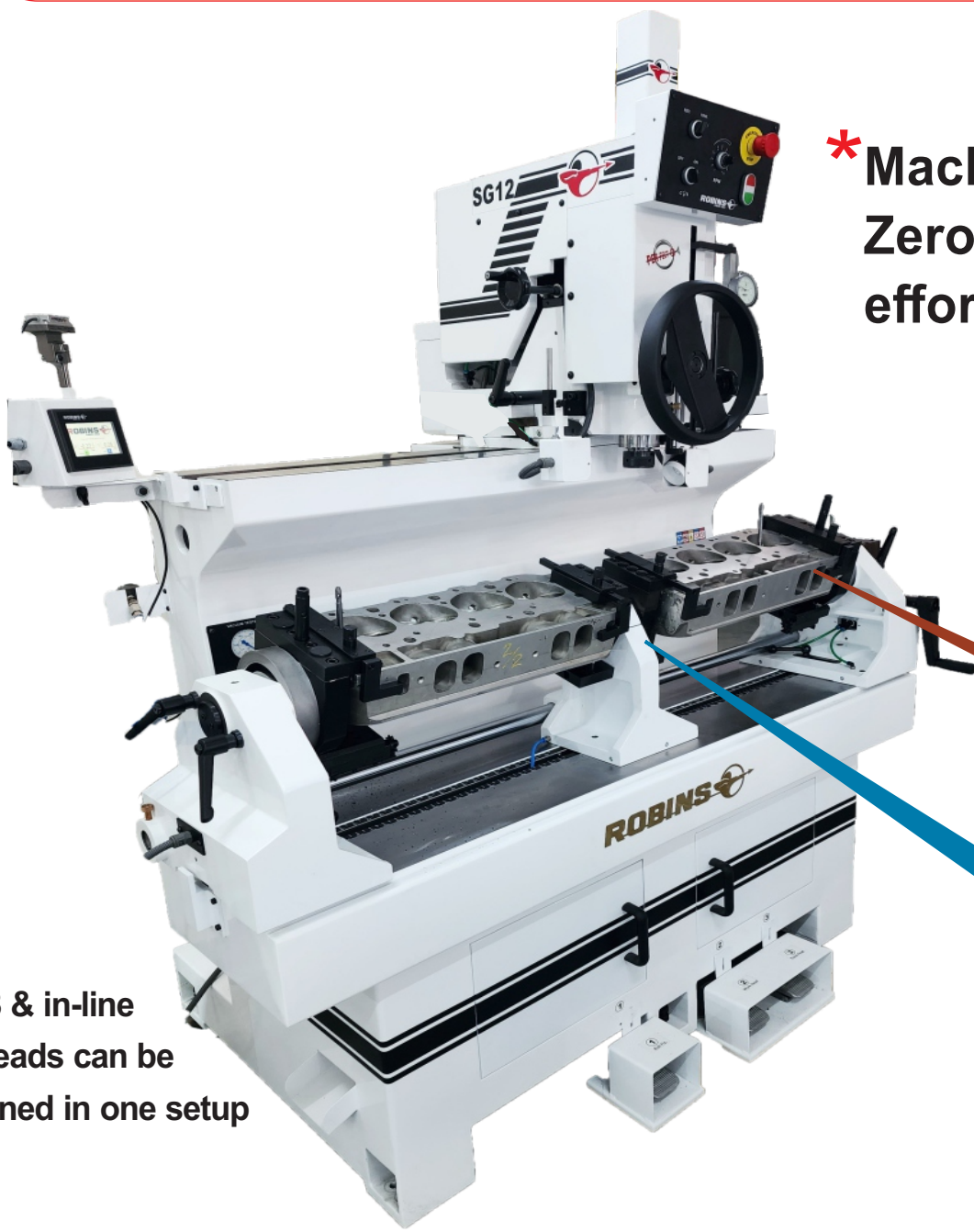


**CVS**<sup>®</sup>  
Constantly-Varying Speed  
Tried, Tested & Trusted  
(testimonials / videos available)



Inventors of Spring-Free Tooling

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



**\* Machine to precise Zero Seat depths effortlessly -**

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

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

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

**HEAVY DUTY SG12 HD**



Constantly-Varying Speed  
for Chatter - Free Seats !

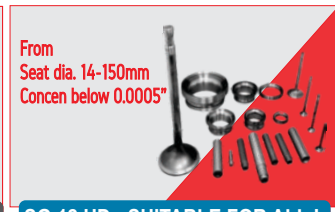
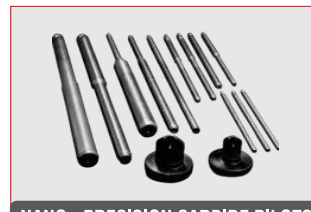


**SG 12 HD with Cummins ISX 24 Valve Cylinder head**



Premium Multi-angle cutting inserts:

Suitable for-  
Powder Metal and hardened  
Valve Seats



**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 below 0.0005" concen



-0+  
Exactly

# SG 12 HD

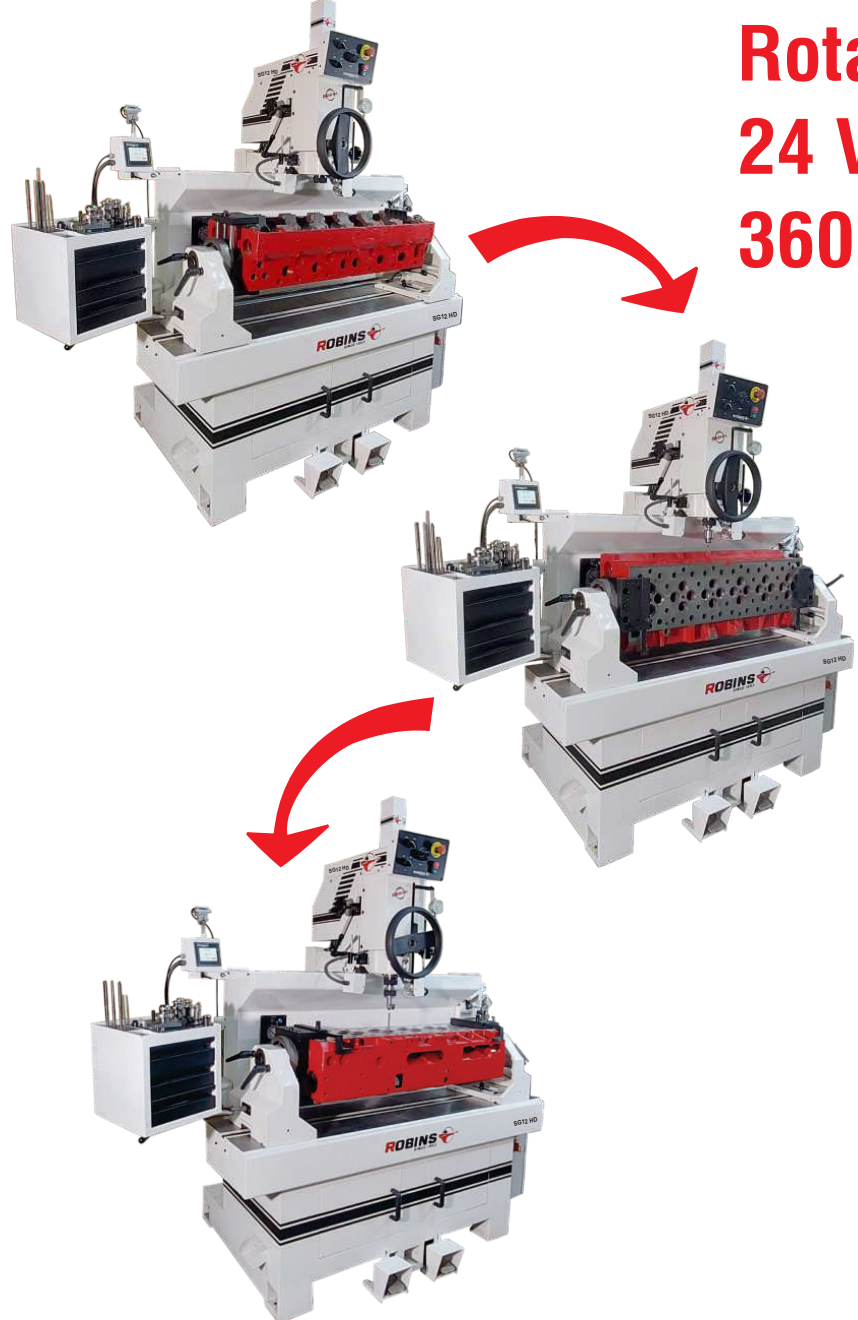
HEAVY DUTY

## FEATURES & FIXTURES

*Signature* brand

ORIGINAL DESIGN BY ROBINS

US 7,726,919 B1 | US 17879818 | US 17892165 (Patents pending)



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



Smallest motorcycle heads can easily be set up


### NEW STANDARD IN HEAVY DUTY VALVE SEATS & GUIDES

**SG12 HD** 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 !

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




**CVS**<sup>TM</sup>  
**Constantly-Varying Speed**  
US Patent - for Chatter-Free Seats!

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



**SG12 HD Specifications**

Cylinder Head Size (in Roll Fixture)	<b>47" x 15" x 10"</b> <b>(1200 x 380 x 254 mm)</b>
Spindle Tilt	<b>±10 Degrees</b>
Spindle Stroke	<b>8.500" (216 mm)</b>
Spindle Speed	<b>30-500 RPM</b>
Concentricity	<b>0.0002" (5 microns) ... Honed Guides</b>
Roundness	<b>&lt; 0.0002" (5 microns)</b>
Surface Finish	<b>&lt; 0.6 Ra μm</b>
Micro Fine Feed	<b>YES</b>
Spring Free Adaptors	<b>YES</b>
Constant Varying Speed 	<b>YES</b>

**ROBINS**  **SINCE 1983** **-0+ Exactly**

**40** *Years of Excellence* (1983-2023)

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