

NEW DESIGNS BY ROBINS



Constantly-Varying Speed
for chatter-free seats

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"



**Newly built-in
Guide Honing Kit**

NEW FEATURES

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



Precision spring free tooling



**Heavy Duty
DUAL AXIS
Electronic Level**

- ◆ Faster
- ◆ Reliable
- ◆ Accurate
- ◆ Long Life



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



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



Hand held sensor can be parked away from spindle head when not in use.

- QUALITY
- SIMPLICITY
- RELIABILITY
- AFFORDABILITY

INTRODUCING – Revolutionary RUBI-Hard Premium 3-Angle inserts. Get min. 50% more life compared to any other 3-angle inserts.

- Suitable for : Powder Metal Valve seats and hard to cut valve seats having hardness around 60 HRC
- Withstands much higher cutting temperatures upto 1100 deg C and least friction during machining.
- Rubi-Hard Inserts- developed using Nano grade compact carbides.
- Rubi-hard inserts-cryogenic and Rvd heat treated, for superior machining.
- Rubi-Hard inserts can be re-lapped on our newly innovative “no-heat” super lap system.

EXTRA-ORDINARY DESIGNS BY ROBINS



NEW CONCEPT -

Vary spindle speed automatically for chatter-free seats.



360° ROLL OVER FIXTURE

Built-in degree wheel 90°. Positive lock for in-line cylinder heads.



C-FRAME FIXTURE

Extended clamping for difficult to mount cylinder heads.



EQUAL SEAT DEPTH

Unique alignment device aligns all guides including canted guides.



INSERT LAPPING DEVICE (NEW)

Easy to lap Rubi Hard inserts to factory's original rake angle and mirror surface finish. Innovative super lapping system provides mirror finish & original face angle unchanged during lapping.



SINGLE CYLINDER SMALL DIA SEAT CUTTING

Single cylinder heads can easily be set up on Robins unique Roll Fixture.



AIR CRAFT CYL. HEAD CLAMP-KIT

Air Craft Clamp-Kit with custom tooling & Concen Gage



3-ANGLE CUTTING INSERTS

Over 400 Multi-angle profiles to choose from. Also Custom inserts.



SPRING FREE TOOLING

Designed in 2002 in use world-wide!



ROLL-FIXTURE (UNIVERSAL)

Fast set up of various types of Cylinder Heads



NANO-PRECISION CARBIDE PILOTS

- Fixed & Live (4-20mm range)
- OD Honed for longer life
- Zero tolerance (exact dia) custom pilots in 2 micron increments- (Robins Gold Series)



Heavy Duty DUAL AXIS Electronic Level

ELECTRONIC & BUBBLE LEVELS
Dual axis level (new) for canted heads



INSERT HOLDERS

3-Angle & Triangular
Counter boring; old seat ring removal & single angle indexable holders.



ADAPTORS & DRIVERS

Drill/ Reamer drivers, 3-angle holders, collet chucks.



MEASURING DEVICES

- Concen Gages
- Tool setting device
- Counter boring micrometers
- Canted bar for canted heads

SPECIFICATIONS



Constantly-Varying Speed
for Chatter-Free Seats!

Cylinder Head Size (in Roll Fixture)	40" x 12" x 6" (812 x 254 x 127 mm)
Spindle Tilt	±15 Degrees
Electrics	220V/50-60HZ/1PH
Spindle Stroke	8.40" (213 mm)
Spindle Speed	30- 500 RPM
Micro Fine Feed	Yes
Spring Free Tooling	Yes
Constant Varying Speed	Yes



43
Years of
Legacy



Robins Machines | rc@RobinsMachines.com
Robins Machines | www.RobinsMachines.com