

Heavy Duty Cylinder Head Surfacing Machines



RUBi  **SURF**
1.8 Smart



ROBINS 'Smart Control'
Simple-**M**anual-**A**uto-**R**eliable-**T**uff

“Robins” operator friendly Software Specifically developed & designed for RubiSurf SMART Series machines offers productivity increase of 30% to 50%. Also superior finish and Surface flatness. All buttons and switches are eliminated saving operator time in set-ups. Feeding down the spindle shows exact spindle position. Tilt fixture float & clamp, High Precision Dual-Inserts Cutter head - up/down operations are all built in the software. Infinitely variable speed and feed rates can be pre-set.



SPECIFICATIONS & FEATURES



ROBINS...World's First (Patent pending)
 Unique revolutionary concept for V6 & V8 Cyl. Blocks Machining.

****No Precision Locators needed****

Reference from either Main bearing bores /
 Cam shaft bores or Pan Rail surfaces!



ROBINS... first

Optional Dual Axis
 Electronic & Bubble level
 (use either one)

Touch off / levelling
 dial indicator slides
 on linear guideways
 from front to back



Smart Series Operator Panel
 display made simple & easy
 CNC Servo Controlled

| Calc. Result | | |
|--------------|-------|-----|
| Ra | 4.63 | μin |
| Rz | 42.83 | μin |
| Rp | 24.50 | μin |
| Rv | 18.34 | μin |
| Rk | 15.47 | μin |
| Rpk | 6.77 | μin |
| Rvk | 5.79 | μin |
| RProfile | | |



Surface finish down to 0.5 Ra mm
 Best in the industry

| Calc. Result | | |
|--------------|-------|-----|
| Wa | 1.66 | μin |
| Wz | 12.04 | μin |
| Wt | 12.04 | μin |
| WProfile | | |

SPECIFICATIONS RUBI SURF 1.8

- X-Axis Workhead Travel
- Cylinder Head Length
- Cutter head Diameter
- Spindle Speed
- Workhead feed rate
- Surface Finish
- X-Axis slideways
- Operator panel
- Lubrication

| |
|---|
| 48 inches (1220 mm) |
| 40 inches (1000 mm) |
| 16.5 inches (420 mm) |
| 200 - 1200 RPM Variable (CNC AC SERVO) |
| 125 to 500 mm/minute infinitely variable (CNC AC SERVO) |
| As low as 0.5 Ra μm (20Ra μ inches) |
| Low friction Turcite slideways |
| RubiSurf Smart Series |
| Centrally lubricated |

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 Years of
 Legacy



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