

TVR90 Valve Grinding Machine

Valve Grinding Machine Model:TVR series can complete following work in five minutes: Clamping of valve stem and keep high accuracy positioning at the moment; Precision grinding of the conical surface of valve, roundness can be achieved 0.005 mm, finish can be achieved Ra0.32. The whole process is simple and perfect, very easy to use the machine, do not need specialist training, you can do that perfect work, depended on the 2×3 ball high precision pneumatic chuck. The TVR series is new standards in speed and accuracy for valve grinding.

Features

- 1. Air operated, Six Ball chuck design for perfect alignment and grinding, only five minutes from the clamping to finish grinding, and can get a very good roundness and finish.
- 2. Variable valve speed allows the operator to adjust surface speed when working with different size of valves
- 3. High accuracy dovetail guide of grinding wheel moving, manual scraping to reach super smooth, it can effectively absorb vibration.
- 4. Valve steam depth stop is a practical device, especially when you need to process several of the same valves, and allow valves to ground to the exact same length.
- 5. Casting iron base reduce the vibration, sturdy and durable.
- 6. Centralized lubricating system to avoid the cumbersome manual multi point add oil.
- 7. The valve head grinding wheel and the valve steam grinding wheel are equipped with diamond dresser, very convenient dressing of grinding wheel.
- 8. The optional tools cabinet has a extra 2 liters coolant tank, of course, there is enough space you can change more bigger coolant tank, if you want to more coolant water.
- 9. The V rest of Stem/Butt End Grinding device allows all valves in a set to be ground to the same distance from valve seat to stem end essential for overhead camshaft type cylinder heads. Exact amount of material removed from the stem end can be measured with the micrometer adjustment system.

Specifications

Model TVR90 TVR100

Type of Drive System Air / Electric 4 – 14 mm Valve Stem Diameter Range with Chuck Valve Stem Length Range with Chuck 54 - 260 mm Valve Head Diameter Range 20 - 102 mm Valve Total Length Range 90 - 315 mm Max. Boring Dia. 14 – 60 mm Valve Head Grinding Angle 15 - 55° Valve Stem Butt Grinding Angle 0°and 45° Valve Head Grinding Wheel Diameter 178 mm Valve Stem Butt Grinding Wheel Diameter 76 mm

Valve & Butt Grinding Wheel Speed 3500 rpm at 50 Hz; 4200 rpm at 60 Hz

Chuck Rotation Speed 50 – 230 rpm

Working Accuracy ≤0.015 mm (0.006") ≤0.005 mm (0.002")

Coolant Capacity 3 Liter

Required Rated Air Pressure 6 Bar / 85 PSI
Power of Grinding Wheel Motor 0.37 kW
Power of Chuck Rotation Motor 0.09 kW

Overall Dimension of Machine 945x650x430 mm

Overall Dimension of Tools Cabinet 700x380x810 mm

Package Size of Machine 930x710x690 mm

Package Size of Tools Cabinet 850x550x1070 mm

N.W. / G.W. of Machine 130 Kg / 160 Kg

N.W. / G.W. of Tools Cabinet 50 Kg / 70 Kg