

VKM2.3M
Valve Grinding Machine
for valves with Stem Diameter up to 32,5 mm.

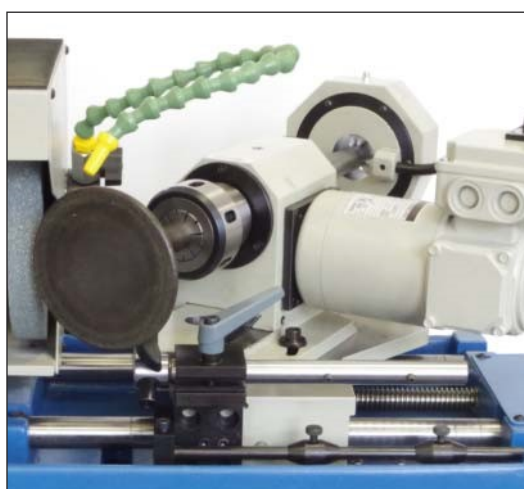


If you are looking for
HIGH PRECISION

this is simply your machine.

Featuring the unique Hunger combination
of COLLET CHUCKING and SELF-CENTERING STEADYING
to ensure the ultimate in valve refacing accuracy.

Tested and specified by leading engine manufacturers.


Specifications:
Capacity:

Valve stem diameter range 6 - 32,5 mm

Max. valve face diam. 200 mm

Valve angle range 19° - 47°

Grinding Spindle:

Grinding Wheel Diameter 175 mm

Speed 2790 rpm

Work Spindle:

Speed, Standard 50 rpm

Adjustable Speed, Option 5 - 60 rpm

Coolant System:

Capacity 5 l

Electrics:

Supply voltage 400V±10%

(3-phase, 50/60Hz) or 230V±10%

Power consumption 0,5 kW

Overall Dimensions:

Length 800 mm

Width 550 mm

Height 450 mm

Weight:

Net weight ca. 155 kg

Machine Base:

Heavily ribbed cast iron structure with integrated slide-way for the wheelhead . The machine base houses an industrial type flood pump for delivering coolant to the grinding site and a baffled coolant tank which can be drawn out for ease of cleaning.

Wheelhead:

Box type monobloc casting noted for excellent vibration dampening.

Permanently sealed and lubricated grinding spindle. The wheelhead houses also the control panel for the motors.

Workhead and Steady Rest.

The monobloc workhead houses the permanently sealed and lubricated work spindle provided with a collet chuck for use of high precision collets.

The workhead and an unique selfcentering steady rest for additional support of long stem valves are placed on an elongated swivel plate which is adjustable with respect to a wide-spaced angular scale for setting the proper grinding angle.

Both the workhead and the steady rest are adjustable along the swivel plate to clamp each valve on that part of the valve stem which normally travels in the valve guide.

The combination of collet chucking and the unique Hunger steadying provides double support of long valves to ensure the ultimate in valve refacing accuracy.

Automated Oscillation (Option)

An oscillating attachment for automated power traverse of valve face across the grinding wheel is available as an option to ensure efficient stock removal and superior finish.

The stroke of oscillation is infinitely adjustable.

The workhead is mounted on guide bars to reduce friction and to ensure smooth traversing of the valve face across the grinding wheel.

Dressing Attachment.

The dressing attachment is permanently mounted on the worktable for rapid wheel dressing.

Electrics:

An individual motor is provided for each of the grinding spindle, the work spindle and the optional oscillation equipment.

Main switch fitted with undervoltage release.