



# Hunger VKM3.1

## Valve Grinding Machine

for valves up to 32,5 mm stem diameter



If you are looking for a  
**COMPACT MACHINE**  
for regrinding the valves of medium size engines  
this is your first choice.

Featuring the unique Hunger combination  
of SELF-CENTERING STEADYING and COLLET CHUCKING  
to ensure the ultimate in valve refacing accuracy.  
Tested and approved by leading engine manufacturers.

# Hunger VKM3.1

## Valve Grinding Machine



**Control panel**



**Grinding Spindle**



**Workhead and Steady**

### Features

#### Machine Base:

Heavily ribbed cast iron structure with integrated dove tailed slideway for the workhead and steady rest.

The machine base houses an industrial type flood pump for delivering coolant to the grinding site and a baffled drawer type coolant reservoir which can be drawn out for ease of cleaning.

The machine base houses also the control panel for the motors.

#### Grinding Spindle:

The permanently sealed and lubricated grinding spindle slides on a swivel plate which is provided with an integrated dove tailed slideway.

The swivel plate is set to the desired valve angle by means of a wide spaced scale.

#### Workhead and Steady Rest:

Monobloc work spindle with permanently sealed and lubricated work spindle bearings. Work spindle fitted with collet chuck for use of high precision collets.

A micrometer infeed unit is combined with the workhead to feed the face of the valve clamped in the collet to the grinding wheel. An unique selfcentering steady is provided for additional support of long stem valves.

Both the workhead and the steady are adjustable along the slideway on the machine base to clamp the valve on that part of the valve stem which normally travels in the valve guide.

### Specifications

#### Capacity:

Stem diam. 9,5 - 32,5 mm  
 Max. face diam 200 mm  
 Seat angle 18°-47°

#### Electrical system:

Supply voltage: 400V±10%  
 (3ph.50/60Hz) or 230V±10%  
 Power input 0,6kW

#### Grinding spindle:

Wheel diam. 175 mm  
 Speed at 50 Hz 2790 rpm

#### Dimensions:

Length 800 mm  
 Width 550 mm  
 Height 500 mm

#### Work spindle:

Speed at 50Hz 25 rpm

#### Weight

Net weight approx. 115 kg

### Ludwig Hunger GmbH

Graefelfinger Str. 146  
 81375 Munich/Germany

Tel.: +49 89 7091-0  
 Fax: +49 89 7091-26

info@ludwig-hunger.de  
 www.ludwig-hunger.de