

HUNGER



Hunger VDS2.3E / VDS2.5E

Valve Seat Refacing Machines

for valve seats from 35 to 110/140 mm diameter



Make the right choice.

COMPACT MACHINES

especially for medium speed engines.

Tested and approved by the leading engine manufacturers.

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Valve Seat Refacing Machines



D3 type adapter head



D5 type adapter head

Working Principle:

The valve seat is refaced to the preset depth by the simultaneous application of both a rotary and a transverse feed motion to the carbide or CBN cutting insert.

While the cutting insert rotates in a circle around the valve seat, a feed gear mechanism ensures a continuous outward transverse feed motion under the proper seat angle.

This angle is defined by an inclined slideway provided for the tool slide in the exchangeable angular adapter head.

The lathe-type refacing action provides a flawless concentric seating surface texture for a perfect valve seal.

Features:

The machine is fitted with two motors providing a smooth cutting action. The operating voltage supplied to the motors by a compact power supply unit is of the low voltage type to eliminate electric hazards.

The exchangeable adapter head with the built-in slideway for cutting tool travel ensures a precise seat angle eliminating faulty setting operations.

The gear head of the machine can be fitted with either D3 type adapter heads or with D5 type adapter heads.

The D3 type adapter heads handle seats up to 110 mm diameter.

The D5 type adapter heads handle seats up to 140 mm diameter.

Handling:

Setup is fast and easy.

First, lock the pilot with mounted centering spider in the valve guide. Then, lower the machine over the pilot and position the cutting tool in front of the inner edge of the valve seat.

Turn micrometer downfeed to set the desired depth of cut.

Refacing is automatic.

Pressing one button is enough to start the refacing pass.

Specifications:

Capacity:

Seat diam. 35 - 110/140 mm

Seat angle range 0°-50°

Feed motions

Speed 280 & 360 rpm

Feed rate 0,05 mm/rev.

Dimensions & Weight:

Length 410 mm

Width 125 mm

Height 360 mm

Net weight approx. 10 kg

Electrical system:

Operating voltage 32/42 VDC

Supply voltage: 230±10% V
(1ph.50/60Hz) or 120±10% V
or 277±10% V

Power input 0,2kW

Roundness, concentricity and surface finish of the refaced valve seat are within manufacturers' specifications or even better.

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