

PEG

8

USES



FOR VALVE SEATS from 16 to 48 mm Ø

Weight	Kg 3
Dimensions	mm 90x250
Grinding Wheel Speed	13.000 R.P.M.
Relative Movement	30 R.P.M.
Fixed Eccentricity	1,5 mm
Motor Power	250 Watt
Voltage	220 Volt single phase (or as requested)

PEG 8 UNIVERSAL KIT

Peg 8 Valve Seat Grinder.
Dressing unit complete with dressing stone and diamond.
12 Self Centering Pilots:
at 5 - 6 - 7 - 7,5 - 8 - 8,5 - 9 mm
1/4" - 7/32" - 9/32" - 5/16" - 11/32" diameters.
8 45° Silicon Carbide Grinding Wheels
at 24, 26, 28, 30, 33, 37, 41, 46 mm diameter.
8 Corundum Grinding Wheels
at 24+46 mm diameter.
8 Silicon Carbide Grinding Wheels
at 24+46 mm diameter.
4 15° Silicon Carbide Grinding Wheels
at 24, 26, 30, 33 mm diameters.
Total Weight: Approx. 10 Kgs

PEG 8 STANDARD KIT

Peg 8 Valve Seat Grinder.
Grinding Wheel Dressing Stand.
N. 5 Self Centering Pilots
at 5, 6, 7, 8, 9 mm diameters.
8 45° Silicon Carbide Grinding Wheels
at 24, 26, 28, 30, 33, 37, 41, 46 mm diameters.
Total Weight: Approx 9 Kgs

Grindwheels with Diameters of less than 24 mm can be supplied on request.



PEG

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USES



FOR VALVE SEATS from 20 to 65 mm Ø

Weight	Kg. 4,6
Dimensions	mm 110x280
Grinding Wheel Speed	11.000 R.P.M.
Relative Movement	27 R.P.M.
Fixed Eccentricity	2,5 mm
Motor Power	350 Watt
Voltage	220 Volt single phase (or as requested)

PEG 10 UNIVERSAL KIT

Peg 10 Valve Seat Grinder.
Dressing unit complete with dressing stone and diamond.
15 Self Centering Pilots:
at 7 - 8 - 9 - 10 - 11 - 12 mm - 8 short - 9 short
9/32" - 5/16" - 11/32" - 3/8" - 13/32" - 7/16" - 1/2" diameters.
9 45° Silicon Carbide Grinding Wheels
at 26+63 mm diameter.
9 Corundum Grinding Wheels
at 26+63 mm diameter.
9 Silicon Carbide Grinding Wheels
at 26+63 mm diameter.
4 15° Silicon Carbide Grinding Wheels
at 25 ÷, 45 mm diameters.
Rocker arm grinding unit with dressing stone.
Total Weight: Approx. 16,5 Kgs

PEG 10 STANDARD KIT

Peg 10 Valve Seat Grinder.
Grinding Wheel Dressing Stand.
N. 5 Self Centering Pilots
at 7, 8, 9, 10 11 mm diameters.
9 45° Silicon Carbide Grinding Wheels
at 26 ÷ 63 mm diameters.
Total Weight: Approx 10 Kgs



PEG

90

USES

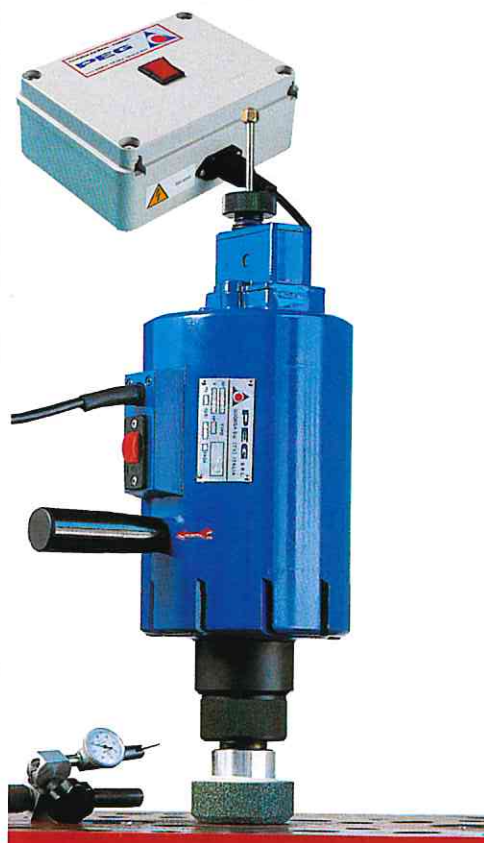


FOR VALVE SEATS from 40 to 90 mm Ø

Weight	Kg 7
Dimensions	mm 130x320
Grinding Wheel Speed	8000 R.P.M.
Relative Movement	18 R.P.M.
Fixed Eccentricity	3 mm
Motor Power	600 Watt
Voltage	220 Volt single phase (or as requested)

PEG 90 STANDARD KIT

Peg 90 Valve Seat Grinder.
Dressing unit complete with dressing stone and diamond.
4 Self Centering Pilots at 9 - 10 - 11 - 12 mm diameters
in special hardened steel. Surface hardness 60 HRC.
8 Wheels at 52 - 56 - 63 - 70 - 80 - 90 mm diameters
with hub.



PEG

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USES

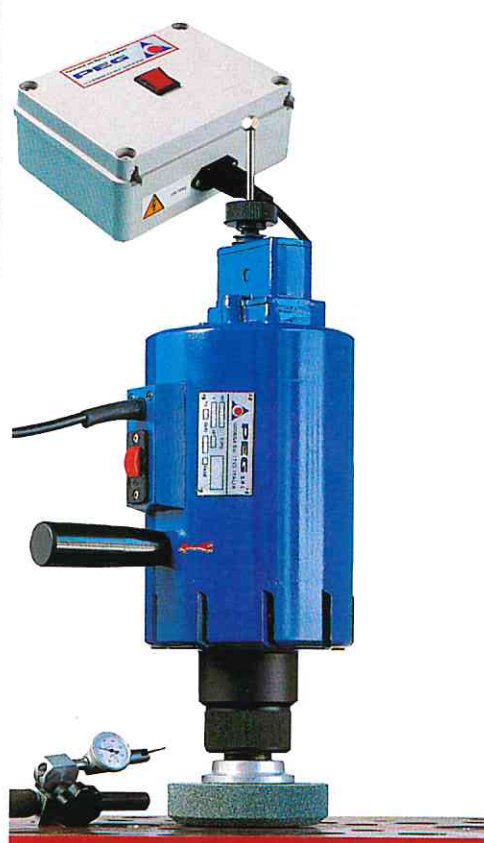


FOR VALVE SEATS from 50 to 120 mm Ø

Weight	Kg 7
Dimensions	mm 130x320
Grinding Wheel Speed	5.500 R.P.M.
Relative Movement	12 R.P.M.
Fixed Eccentricity	3 mm
Motor Power	600 Watt
Voltage	220 Volt single phase (or as requested)

PEG 125 STANDARD KIT

Peg 125 Valve Seat Grinder.
Dressing unit complete with dressing stone and diamond.
4 Self Centering Pilots at 16 - 18 - 19 - 20 mm diameters
in special hardened steel. Surface hardness 60 HRC.
8 Wheels at 70 - 80 - 90 - 100 - 110 - 120 mm diameters
with hub 110 - 120 mm diameters without hub.



PEG

175

USES



FOR VALVE SEATS from 120 to 180 mm Ø

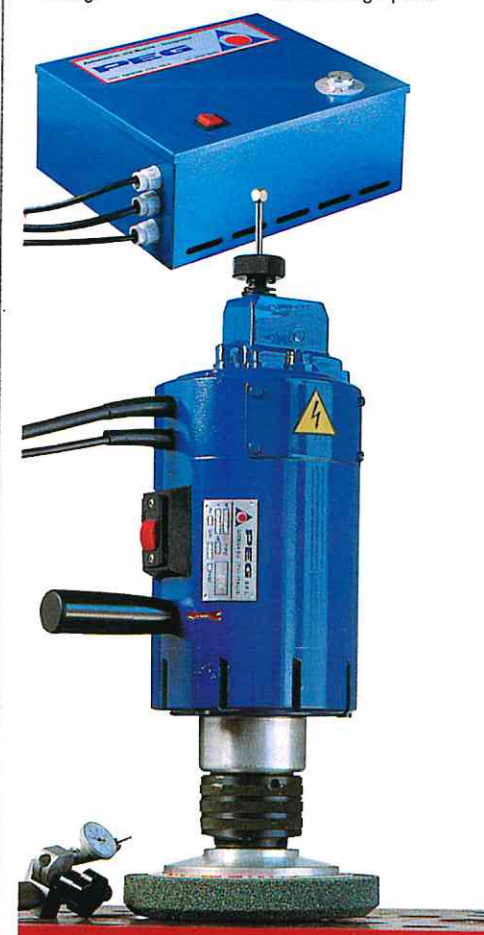
Weight	Kg 7,5
Dimension	mm 130x320
Grinding Wheel Speed	2.800/5.600 R.P.M.
Relative Movement	8/16 R.P.M.
Fixed Eccentricity	3 mm
Motor Power	Watt 1.300
Voltage	Volt 230/400 3PH (or as requested)

PEG 175 STANDARD KIT

Pilot pins and grindwheels, with or without hubs, on request.
Self centering pilots in special hardened steel.
Surface hardness 60 HRC.

PEG 175 VARIOMATIC USES

FOR VALVE SEATS from 70 to 180 mm Ø
Voltage Volt 230 single phase



PEG

AVIO

USES



VALVE SEAT REFACEERS for Blind Cylinders

AVIO versions available on models

PEG 8
PEG 10
PEG 90

Pilot pins and grindwheels with hubs, on request.



Compression seal is one of the main factors which determine the efficiency of internal combustion engines. This makes the valves and their seats of fundamental importance and if they are worn the efficiency of the engine is reduced.

PROPER RECONDITIONING SHOULD RESTORE SHAPE AND SYMMETRY, MAINTAINING THE ORIGINAL LOCATION OF THE VALVE IN ITS SEATING, ELIMINATING DRAG AND GUARANTEEING PERFECT SEAL DURING THE PROGRESSIVE WEAR OF THE ENGINE PARTS. THIS MAKES IT ESSENTIAL TO RESTORE:

SHAPE

ROUNDNESS: the seating must be perfectly round.
FLATNESS: all the contact surface points must be equally level.
ANGLE: the connection angle must be perfect.

SYMMETRY

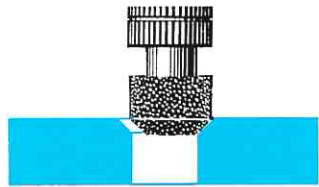
CONCENTRICITY: the seating must be concentrical to the axis of its guide and the shaft to the valve head.
VERTICALITY: the seating top must be vertical to the axis of the guide.

CONNECTION

PRECISION: there must be maximum precision in the location of the valve in the seat, maintaining the specified tolerance and the original cone.

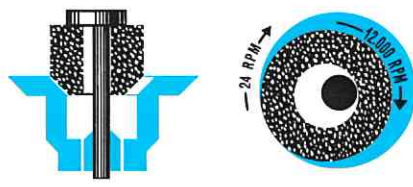
To simplify these operations PEG Srl has patented a valve seat grinder which works by means of a **BEVEL SYSTEM: THREE COMBINED SIMULTANEOUS GRINDING MOVEMENTS ON A SINGLE AXIS (pilot pin/valve guide) which ensures proper alignment.**

ROTARY MOVEMENT



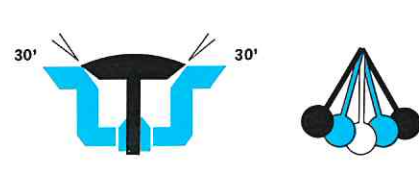
The surface to be ground is smoothed by a grindwheel turning around its rotation axis and cutting with its tangent.

ORBITAL MOVEMENT



Simultaneously with the rotary movement the whole system undergoes an eccentric movement. The grindwheel touches successively all points of the valve

PENDULAR MOVEMENT



The consequent third pendular movement, forms automatically a convergent angle between the valve and the valve seat, just like a new engine.

The machine is built with high precision parts, reducing to a minimum errors due to slack in the connection of the components. The eccentric shaft is housed inside the motor shaft and has fixed eccentricity. Its supports are ground and the pilot pin hole is precision bored.

The rotating parts are accurately balanced and loaded to prevent axial or radial play on the bearings.

The set of globoid screw gears is situated in the upper part of the machine with the micrometric feed register above it.

The grindwheel spindle is ground.

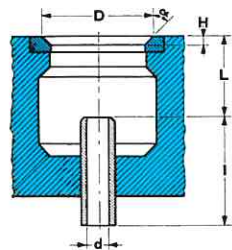
Strict control and testing are carried out to ensure that each machine is precision built to a high standard.

To make provision for the range of engines currently available the regrinding system comprises a number of models to meet all requirements.

Each machine is provided with a wide range of self-centering pilot pins and grindwheels complete with a dressing device. Each set is supplied in a metal box.

PEG REGRINDING MACHINES ELIMINATE THE NEED FOR FINAL POLISHING OFF.

SPECIAL CUSTOM-MADE PILOT PINS ON REQUEST FOR ALL MODELS



- On ordering supply the following data:
- 1) **L** - Guide length
 - 2) **L** - Distance between guide and seat
 - 3) **D** - Seat diameter
 - 4) **H** - Seat height
 - 5) α - Working angle
 - 6) **d** - Guide diameter

Distributed by: ROSSI & KRAMER SRL

Via Nazionale, 19
 31010 GODEGA S.U. - TV - ITALY
 Tel. ++39 0438 430450
 Telefax ++39 0438 38737
 e-mail: info@neark.com - www.neark.com



printed: 12/2006
 claudio comuzzi studio



VALVE SEATS REFACTERS