

## NEW VALVE SEAT BORING MACHINES



ASV/BL



ASV/B

The reconditioning of cylinder heads, and valve seats in particular, is becoming an increasingly important aspect of internal combustion engine overhaul work.

Berco's great success in this area, where it has been active for over 25 years, is confirmed by the sale of well over 1500 of its ASV and ASV/A valve seat boring machines.

A number of changes have been made to the new ASV/B model, the version intended for the small-medium sized cylinder head range. The quill diameter has been enlarged to increase the machine's rigidity and, on request, a micrometric spindle feed device can be fitted to improve machining precision on the valve seats.

As regards larger size diesel engines, continuous technological evolution has led to the manufacture of cylinder heads with four valves per cylinder as a standard feature, with a corresponding increase in the size of the cylinder heads themselves.

The answer to the problems related to this can be found in the new ASV/BL valve seat boring machine.

Without drastically altering the basic design concepts of the "little" ASV/B, BERCO has constructed a new larger-size and larger-capacity machine, incorporating a micrometric spindle feed device as standard supply, thus improving the valve seat machining precision.

## ASV-BL



## ASV-B



There are also several new devices, available as optionals, specially designed to help the operator achieve better machining quality and precision, whilst at the same time shortening work times:

- digital device for controlling valve seat machining depth
- spindle angle electronic control device

## TECHNICAL DATA

	ASV/B	ASV/BL
<b>working capacity</b>		
Max. permissible cylinder head length	mm 1025 - (40")	mm 1300 - (51")
Min.- max.valve seat boring capacity		mm 16 ÷ 75 - ( $\frac{5}{8}$ " ÷ 3")
Min.- max.counterboring capacity		mm 20 ÷ 85 - ( $\frac{25}{32}$ " ÷ 3.11/32")
Spindle rotation speed	rpm. 25÷400 Variable with continuity	
Max. spindle stroke		mm 215 - (8.1/2")
Max. head cross traverse		mm 75 - (3")
Feed per handwheel turn		mm 51,8 - ( $\frac{21}{32}$ "
Micrometric feed per turn		mm 1 - ( $\frac{5}{128}$ "
Max. spindle angle (in both directions) degrees		15°
Max. dist. worktable plane-spindle nose		450 - (17.3/4")
Spindle motor power	Kw 0,75 - 1 Cv	
Air supply pressure	bar 6 - (85 Lbf/in <sup>2</sup> )	
<b>dimensions and weights</b>		
Length	mm 1340 - (53")	mm 1640 - (53")
Width	mm 845 - (33")	mm 845 - (33")
Height	mm 1905 - (75")	mm 1905 - (75")
Approx. weight unpacked	kg 750 - (1650 lbs)	kg 850 - (1870 lbs)
Approx. weight packed	kg 925 - (2035 lbs)	kg 1050 - (2310 lbs)

Measurements, weights and version not binding, subject to alteration.  
Motor power data referred to frequency of 50HZ

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