Grinding & Machining for cylinder heads

Valve Seat Remover

OBEL-P®

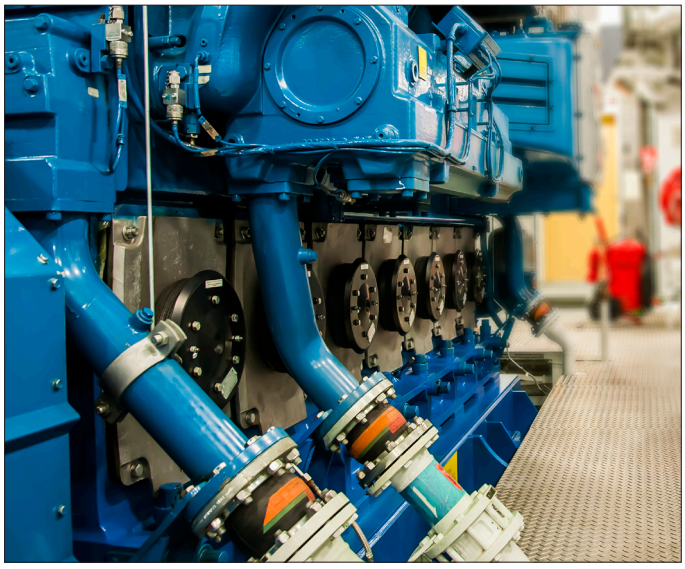
MPI

Designed for easy removal of worn valve seats from cylinder heads. The equipment consists of an induction generator which generates a high frequency current to an insulated water-cooled induction coil.









Application areas

- 4-stroke engines

Key benefits

- Quick removal of valve seats
- Fast and easy process
- Minimizes damage to the cylinder cover
- No welding or force needed

OBEL-P®

MPI

Working principle

The MPI unit generates heat, which is directed into metal objects thorugh a coil. It is therefore able to precisely heat and shrink even the most stubborn metal parts without any risk of damaging the surrounding material.

The coil for the relevant engine size is mounted to the “Junction Box”. The flexible connection to the transformer allowes the coil to be inserted into the cylinder head.

The coil guide ensures that the coil is positioned correctly with respect to the valve seat.



Other application areas

Heat treatment of metals: hardening, tempering, annealing, melting, heating before forging, hot forming, sintering, hot curing of adhesives, spot heating and shrink fitting.

Cooling system matched for the MPI (optional)

Closed system with programmable water outlet temperature, and built-in circulation pump for protection of the MPI and optimal running condition. The cooling device is equipped with a separate electrical connection and comes with a 2 m cable of 3 x 2.3 mm^2.

The cooling device requires 1 x 230 VAC and protective ground, and the max. power consumption is 2 kW (equals 9 A).



Technical specifications	
• Output power	Max 32 kW
• Output frequency	35-55 kHz
• Power supply	3 phases 360-400V, 50/60Hz and protective earth (neutral not required) Ø16 mm^2 wires recommended 41.5 kVA (3x63 A @ 400 VAC)
• Cooling requirements	Min 7 l/min @ 2.5-4 bar
• Weight	100 kg
• Generator dimensions (HxWxD)	1400 x 600 x 600 mm (56 x 24 x 24) excluding fittings, handles etc.



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