

Grinding & Machining for cylinder heads

Valve Seat Remover

OBEL-P®
MPI

The MPI unit generates heat directly into metal objects and can precisely heat and shrink even the most stubborn metal parts without any risk of damaging the surrounding material.



Product features

- ▶ Quick valve seat removal
- ▶ Very fast and easy process
- ▶ Minimises damage to the cylinder cover seat recess
- ▶ No welding or force needed
- ▶ Reduced after-treatment of the pocket
- ▶ Reduces emissions



Working principle

The MPI unit generates heat, which is directed into metal objects through 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 allows 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 mm².

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



Chris-Marine Headquarters and Subsidiaries

CHRIS-MARINE SWEDEN HEADQUARTERS
Tel: +46 - 40 671 2600
info@chris-marine.com

CHRIS-MARINE DENMARK
Tel: +45 - 4498 3833
iop@chris-marine.com

CHRIS-MARINE GERMANY
Tel: +49 4101 5880 0
lemag@chris-marine.com

CHRIS-MARINE SINGAPORE
Tel: +65 - 6268 8611
chris@chris-marine.com.sg

CHRIS-MARINE CHINA
Tel: +86 - 21 6575 9331
info.cn@chris-marine.com

CHRIS-MARINE JAPAN
Tel: +81 - 78 570 5642
info.jp@chris-marine.com

CHRIS-MARINE INDIA
Tel: +91 - 712 224 2719
info.in@chris-marine.com

CHRIS-MARINE ECUADOR
Tel: +593 979 000 379
info.ec@chris-marine.com

CHRIS-MARINE USA
Tel: +1 786 212 9592
info.us@chris-marine.com

Contact one of our offices to get in touch with your local agent.

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.