Grinding & Machining of cylinder heads

Valve Seat Lathe

CHRIS-MARINE®
VSL

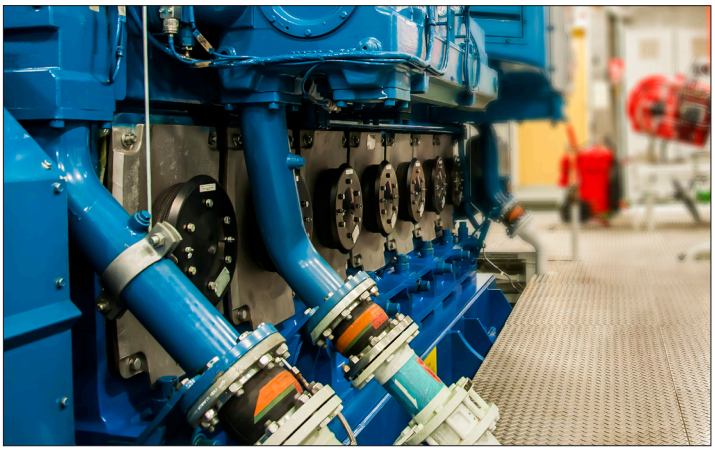
VSL is a portable lathe for in-situ machining of valve seats on 4-stroke diesel engines. It is a high-precision machine that restores air intake/ exhaust valve seats in medium speed combustion engine cylinder heads. With VSL it is possible to restore the surface and angle of worn seats to original specifications.



For in-situ machining of valve seats







Application areas

- In-situ valve seat angle machining
  - Valve seat diameter from 50 to 230 mm
  - Length of cut: 32 mm
  - Angle: 0-50˚

Key benefits

- Pre-set angles for air intake and air exhaust valve seats
- Machine Pre-sets for multiple engine types possible
- Self-centering
- Electrically powered
- Low noise level
- Stepless adjustable machining speed
- Easily operated by one man
- No air pollution

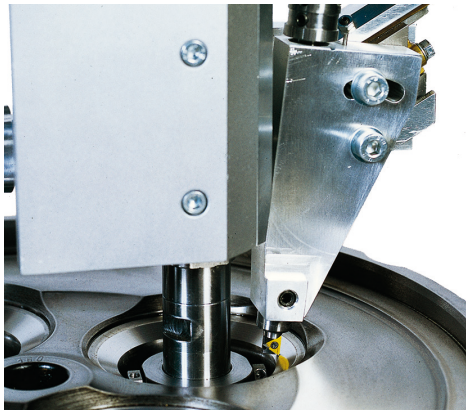
Sustainable engine operation

VSL is a robust high-precision machine that can be operated by one single person. VSL is a cost efficient choice. The Chris-Marine VSL machine allows for in-situ large quantity machining, minimizing waste and emissions. This means that that the cost per job will be much lower compared to when outsourcing the job.
In addition, as service is performed in-situ, logistics costs decrease, thus the carbon footprint will be significantly lower. When performing the service by yourself you can avoid unnecessary waiting time and keep your engines in top condition at all times. By maintining engine parts in good condition, fewer investments in new engine parts have to be made, which in turn creates less waste. Last but not least, a healthy engine runs more efficiently and realeases fewer emissions.



Easy angle setting for valve seat machining

For absolute accuracy and quickest change between inlet and exhaust valve seat angles, each unit is customized with preset angles for desired engine types.



Easy to mount and operate

Few parts to assemble to get the machine up and running.



Control unit

Featuring stepless adjustable machining speed which enables optimal cutting speed for all valve seat alloys.



Holders with cutting bit

Different type holders with high yield cutting bits to fit various seats.

Technical specifications	
• Electric power supply	1-phase 180-252 V, 48-62 Hz
• Power requirement	0.37 kW
• Weight	Base machine 13 kg Spindle compl 2-13 kg
• Max dimensions	H: Machine 405 mm + Spindle 185 - 1100 mm W: 188 mm.
Valve seat angle machining	
• Range	50 - 230 mm seat diameter
• Length of cut	32 mm
• Angle	0-50°

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
info.sg@chris-marine.com

CHRIS-MARINE CHINA
Tel: +86 1 6575 9331
info.cn@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.

B135_2430/E