2-stroke

Valve spindle and seat grinding machine

CHRIS-MARINE®

VGT



2-stroke exhaust valve components operate under extreme thermal load and in a corrosive environment. The exhaust system is a cost intensive part of the engine and requires much service. Therefore, high-quality service and equipment is needed.
The VGT is an automatically driven valve and valve seat grinding machine, available in a number of versions intended for use on crosshead engine exhaust valves. The machine is adjustable to all valve and seat angles, operates reliably and complies with the requirements of engine designers.







Application area

- 2-stroke marine vessels

Key benefits

- Anti-vibration dampers
- Self-centering of valve and seat
- Grinding angles set according to customer's specifications
- Diamond dresser for grinding wheel and full set of tools included
- Electrically driven
- Complies with the requirements of engine designers
- Helps reducing cost and emissions

Sustainable engine operation

VGT helps reducing operating costs and emissions while preserving engine performance. Thanks to its sturdy design and incorporated features like high-precision grinding spindle, automatic centring and insensibility to vibrations, VGT delivers high-quality grinding results, even under the most demanding operating conditions. VGT has been designed to last and its high-quality parts ensure a long lifetime. This means fewer costly investments in new equipment, and as a result less waste of material.

Improves valve seat sealing surface

Grinding of seat sealing surface to correct angle and profile. Selfaligning for highest precision.



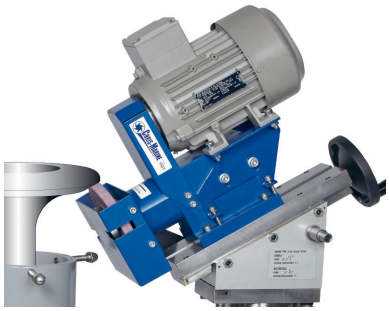
Valve spindle grinding

Self-alignment of valve with precision cone system. Support for valve stem correction.



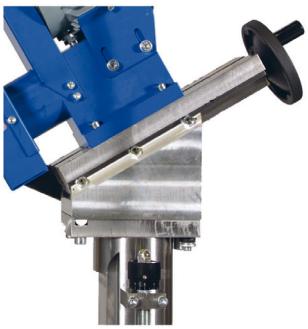
Fast grinding

High power grinding motor with large diameter grinding wheel for fast operation.



Angle setting

Fixed angle settings for valve and seat. Easily reset if engine builder requirements change.



Technical specifications

• Machine capacity	Up to 96 mm valve stem diameter
• Electric power supply	3-phase 220-250 V 50/60 Hz 3-phase 380-440 V 50/60 Hz
• Power requirement	1.3 kW
• Noise level	81 dB(A) / 80 dB(C)
• Normal grinding time	10-20 min per seat
• Weight	250 kg
• Max dimensions	H: 1300-1700 mm, W: 700-960 mm



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 21 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.

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