Grinding & Machining for cylinder liners

Automatic Honing and Deglazing Machine

CHRIS-MARINE®

HON 2A

HON 2A is a fully automatic electric honing and deglazing machine for restoration of slow speed engine cylinder liner geometry and surface structure. It has been designed for 2-stroke engines and is ideal for workshop and in-situ use.



Fully automatic electric honing machine for 2-stroke engines









Application areas

- In-situ honing
- Honing on free-standing cylinder liner

Key benefits

- Portable, heavy-duty machine
- Fully automatic operation
- Type P heads, Ø 500–1.000 mm
- 8-armed x up to 4 stones
- Remote controlled stone pressure
- For use in-situ or on free-standing cylinder liner
- Fastest possible honing of large 2-stroke cylinder liners
- Easy to use and operate
- Pre-assembled rig
  - minimizes setup time
  - makes setup even safer
- One rig fits all bore sizes
- Automatic stroke control

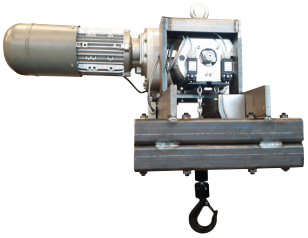
Sustainable engine operation

Regular cylinder liner honing is extremely important. Reconditioning of the liner means reducing downtime and emissions while saving resources.
Honing prolongs the lifetime of cylinder liners and is a much more environmentally friendly alternative than replacing liners. It is also more cost-efficient.



Handheld controller

Handheld controller for all functions and settings to facilitate honing. Synchronized electric hoist and drive unit combined with automatic stone pressure control increases honing efficiency and enables adjustment during honing.



Electric hoist & drive unit

Electric hoist and drive unit with syncronised movement from controller. An intelligent turning point algorithm ensures that no edge is generated at the turning point during the honing process.



Surface Roughness Measurement (optional)

Use the Chris-Marine SRM to verify that liner surface roughness is in accordance with engine maker's specifications.



Honing stones & honing liquid

Use original, long-lasting, Chris-Marine Honing Stones for optimal grinding result and Chris-Marine Honing Liquid concentrate for optimal lubrication during honing process.



Lubrication system (standard)

Electric lubrication system operated from handheld controller.

Due to their principle of operation (e.g. due to integrated mains filters, mains units and capacitor banks), frequency inverters generate leakage currents. For the correct operation of frequency inverter on a current-sensitive RCD, the use of an all-current sensitive earth leakage circuit breaker (Type B, 300mA) compliant with EN 50178 / VDE 0160 is necessary.

No work platform included. The user must ensure that local safety regulations are fulfilled.

Technical specifications

General information	
• Total weight	Approx. 590 kg
• Electric power supply	3-phase 380/415 V 50/60 Hz
• Power requirement	3.3 kW
• Air supply	6-9 bar (0.6-0.9 MPa or 85-130 psi), 2l/min
• Working range	500 - 1000 mm
• Surrounding temperature	0-45°C
• Noise level	84 dB(A)
• Honing liquid	We recommend using Chris-Marine Honing Liquid to achieve optimal honing results.
Honing head	
Working range	Type P2, 8-arms
• 450 - 610 mm	P2 45/61
• 580 - 740 mm	P2 58/74
• 700 - 850 mm	P2 70/85
• 840 - 1000 mm	P2 84/100

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