Grinding & Machining for cylinder liners

Automatic Honing & Deglazing Machine

CHRIS-MARINE®

HON A

Enhanced safety & ease-of-use

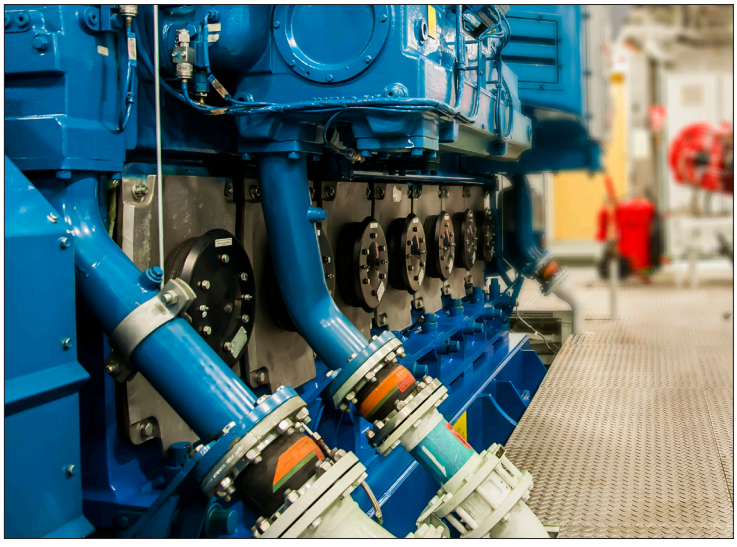


Fully automatic electric honing machine

Hon A is a fully automatic electric honing and deglazing machine for restoration of medium speed engine cylinder liner geometry and surface structure. HON A is ideal for workshop and in-situ use. It is suitable for both 4-stroke and 2-stroke engines.







Application areas

- In-situ honing
- Workshop honing

Key benefits

- Automatic machine
- Electrically driven
- Type S heads, Ø 150 – 670 mm
- 4 or 8-armed
- Remotely controlled stone pressure
- For use in-situ or in honing rig
- 1 hoist, 1 gearbox for entire working range
- Cross-pattern angle programmed digitally
- Very easy to use and operate
- Highly repeatable procedure
- Automatic stone pressure adjustment for constant efficient removal of material, giving good results faster.

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 and electrical hoist & drive unit
For enhanced safety and ease-of-use

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.



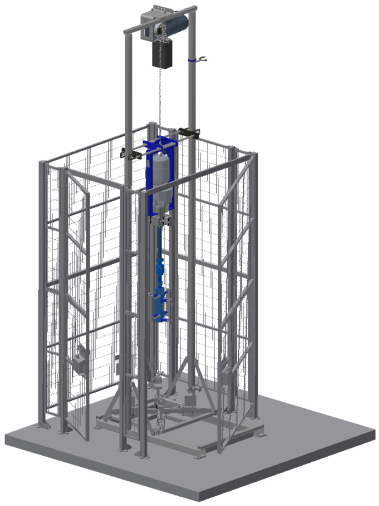
Surface Roughness Measurement (optional)

Use the Chris-Marine SRM to verify that liner roughness (Ra) 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



Honing cage and chain slack detector
For safe operation (optional)

The solid honing cage and the chain slack detector increase safety for the user.



Lubrication system (optional)

Optional 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.

Technical specifications

• Electric power supply	3-phase 380/415 V 50/60 Hz
• Power requirement	2 kW
• Air supply	0.6 - 0.9 MPa (6 - 9 bar or 85 - 130 psi), 2 l/min
• Working range	150 - 670 mm
• Surrounding temperature	0-45°C
• Noise level	80 dB(A)
• Honing liquid	We recommend the Chris-Marine Honing Liquid to achieve optimal honing results

Honing head	Working range	Type S, 4-arms	Type S2, 8-arms
	• 150 - 200 mm	S15/20	
	• 190 - 230 mm	S19/23	
	• 210 - 290 mm	S21/29	
	• 280 - 420 mm	S28/42	
	• 320 - 500 mm	S32/50	S2 32/50
	• 490 - 670 mm		S2 49/67



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