

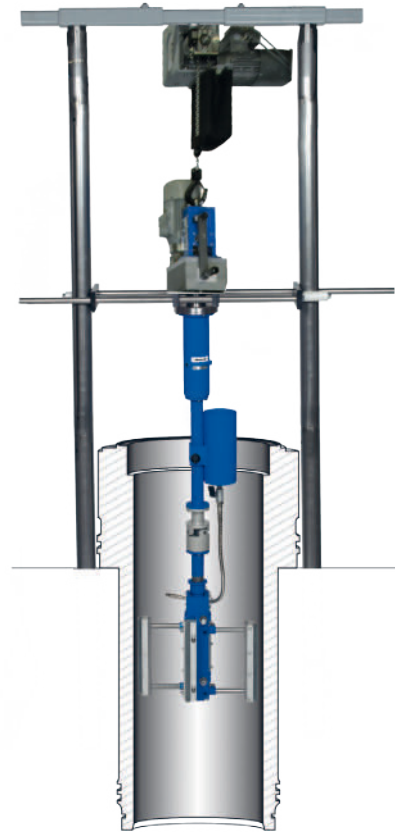
# Automatic Honing and Deglazing Machine

CHRIS-MARINE®

## HON A

Fully automatic electric honing and deglazing machine for restoration of medium speed engine cylinder liner geometry and surface structure. With the handheld control unit it is possible to set upper and lower turning point, cross pattern angle, honing speed and honing time.

The unique Intelligent Turning point Algorithm makes sure that no edge is generated at lower turning point.



### Product features

- Easy setup and start-up of job
- Fully automatic operation
- Set exact liner surface cross-pattern angle from the controller
- Safe to use - cannot go beyond set turning points while running
- Adjustable speed and stroke length during operation
- Synchronized vertical and rotational movement
- Adjustable honing stone pressure
- Limited noise during operation
- Use with existing Chris-Marine HON S/S2 heads
- One hoist, one gearbox regardless of honing head



### Handheld controller

For easy setup and control of honing unit during operation. Use dial knobs to select liner diameter and cross pattern angle, set and adjust stroke length (up to pre-set min/max stroke), adjust honing speed and control lubrication oil. It is possible to run the unit manually with arrow keys.

### Surface Roughness Measurement (optional)

Use the Chris-Marine SRM to verify liner roughness (Ra) is in accordance with maker 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



### Electric hoist & drive unit

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



### 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 generates 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) 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		
• 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