Grinding & Machining for cylinder liners

Deglazing and Honing Machine



CHRIS-MARINE®

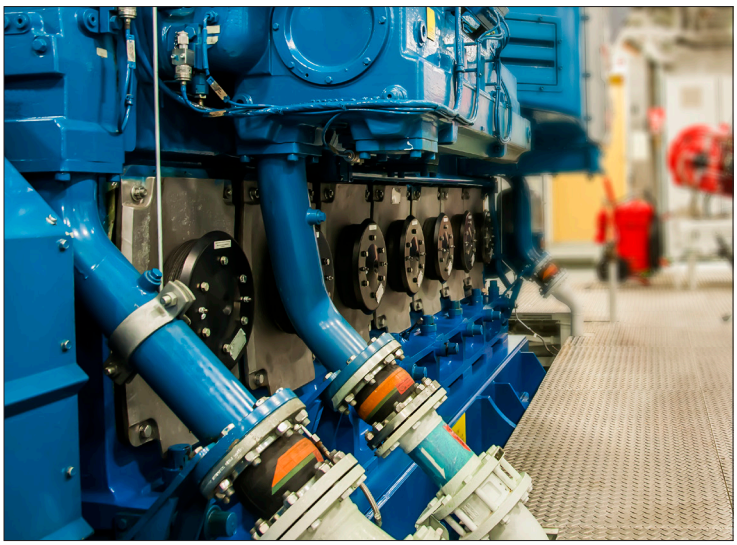
HON S

HON S is a portable honing machine with pneumatic hoist for restoration of medium speed engine cylinder liner geometry and surface structure. HON S is ideal for workshop and in-situ use.
Its portability means that it is also very well suited for travelling service teams. HON S is suitable for both 4-stroke and smaller 2-stroke engines.

Portable honing machine







Application areas

- In-situ honing
- Workshop honing
- For honing by travelling service teams

Key benefits

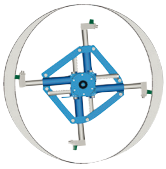
- Portable, air-driven machine
- Type S heads, Ø 150 – 670 mm
- 4 or 8-armed
- Spring loaded tensioning for stone pressure adjustment
- Easy to operate in-situ or in honing rig
- Different hoists (2) and gear-boxes (4) throughout range for optimal cross-angle pattern and honing capacity
- Cross-pattern adjusted through air pressure-/flow
- Very well suited for travelling service teams
- No electricity required, no problems with different voltages
- Auto-stroke control available as option

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.

Removes ovality

The four honing arms are connected to the central shaft. In an oval liner the small diameter will be honed up to the large diameter, restoring circular shape.





Adjustable stone pressure

Reliable mechanical stone pressure regulator provides for best honing efficiency with various types of honing stones.

Easy to use

The honing head is fitted with interchangable stone holders for better efficiency.

Enhanced safety & ease-of-use

Control handles on remote control box

➠ The control handles for driving speed and stone pressure are placed on an external control box together with the reset and emergency buttons. This makes HON S much easier and safer to use.

Chain slack detector (optional)

➠ The patented chain slack detector stops the machine if there is slack in the chain from the hoist. This can occur for instance if the stone pressure is too high, thus preventing the honing head from sliding down in the liner.



Upgrade kit available for HON S users

Technical specifications

Driving unit		
	• Air pressure	0.6 - 0.9 MPa (6 - 9 bar or 85 - 130 psi)
	• Noise level	84 dB(A) / 83 dB(C)
	• Air hose connection	16 mm (5/8")
	• Honing liquid	We recommend the Chris-Marine Honing Liquid to achieve optimal honing results
	• Honing stones	We strongly recommend the Chris-Marine honing stones for optimal honing results

Hoist, air driven		Type 125	Type 250
	• Hoisting capacity	125 kg	250 kg
	• Working range	150 - 500 mm cylinder diameter	500-600 mm cylinder diameter
	• Stroke	4.0 m	4.0 m
	• Air pressure	0.4 - 0.6 MPa (4 - 6 bar or 57 - 85 psi)	0.4 - 0.6 MPa (4 - 6 bar or 57 - 85 psi)
	• Air consumption	500 l/min	500 l/min
	• Air hose connection	10 mm (3/8")	10 mm (3/8")
	• Weight	10 kg	11 kg

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

Gearbox	Cylinder liner diameter	Speed rpm
	• 150 - 290 mm	51
	• 280 - 380 mm	40
	• 350 - 500 mm	34
	• 450 - 620 mm	24
	• 580 - 750 mm	19

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