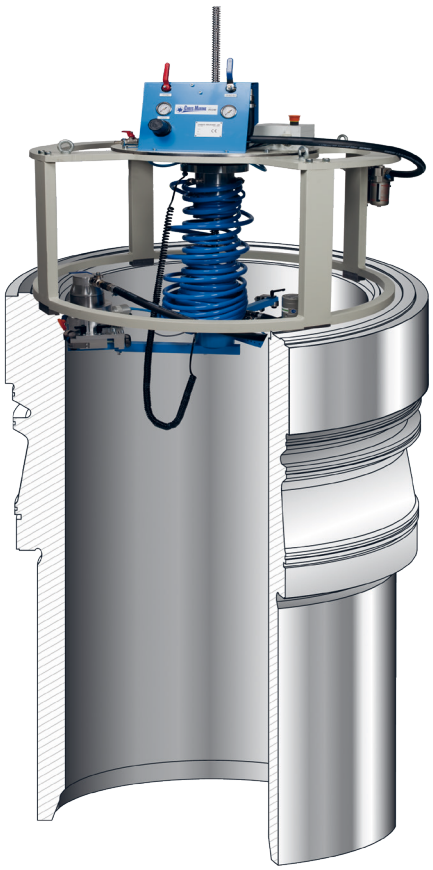
Grinding & Machining for cylinder liners

Wavecut Grinding Machine

CHRIS-MARINE®
WGM

Portable machine for in-situ wavecut grinding.



Product features

- For cylinder liners 350-980 mm diameter bore
- Overhauling of MAN B&W 2-stroke diesel engine liners
- Self-centering, highly stable and accurate
- PLC-controlled grinding depth feeding system
- Cooling water system for liquid supply
- Automatic stop after completed operation
- Pneumatically driven motors

CHRIS-MARINE®

WGM

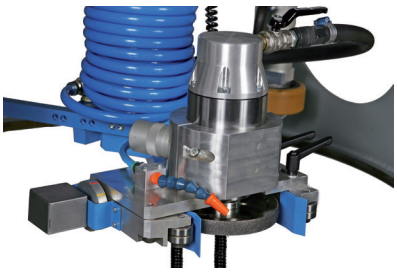
Remote control panel

High-resolution feeding system.



Powerful grinding motor

Grinding with high-capacity CBN grinding wheel.



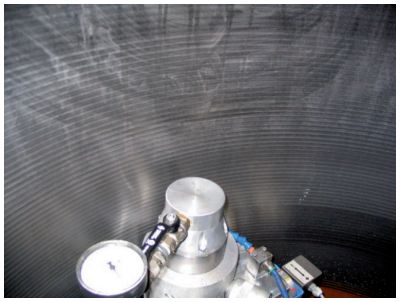
Reliable and approved by MAN

Designed for use on cylinder liners. Cost efficient machining on site. Specific mounting adapters at top of the liner. Excellent machine stability gives perfect machining precision.



The inner surface of the cylinder liner

The original wavecut pattern restored by using the WGM machine.



Technical specifications

• Machine capacity	Cylinder liner bore 350-980 mm diameter
• Grinding time	Dependent on engine size and amount of material to be removed, normally 2-5 hours.
• Air pressure	0.6 - 0.9 MPa (6 - 9 bar or 85 - 130 psi)
• Air consumption	100 m3/h, (1700 l/min or 60 cu ft/min)
• Air hose connection	16 mm (5/8")
• Electric power supply	1- phase 220 - 240 V 50/60 Hz
• Feeding indication	0.01 mm between lines on feeding indicator wheel
• Weight	220 kg
• Max dimensions	
Engine type 50 MC	H: 1075 mm, Ø 610 mm ENGI NE TY PE 60MC-
Engine type 60MC-70MC	H: 1075 mm, Ø 780 mm
Engine type 80MC-98MC	H: 1075 mm, Ø 1060 mm

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