Grinding & Machining for sealing surfaces

Portable Lathe

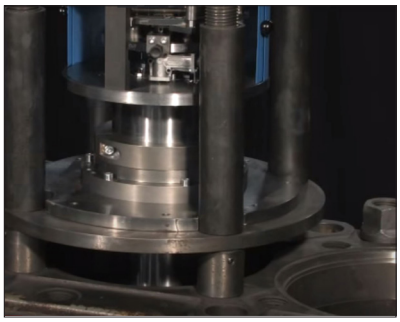
CHRIS-MARINE®

PTL



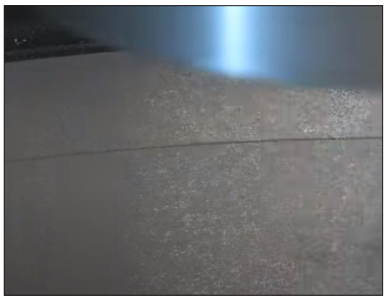
PTL is a portable lathe used for in-situ machining of engine frames on medium speed diesel engines. The machine is highly versatile, precise and robust. PTL has a stepless feed for vertical and horizontal movements and can be equipped with mounting adapters specifically designed for individual engine types.

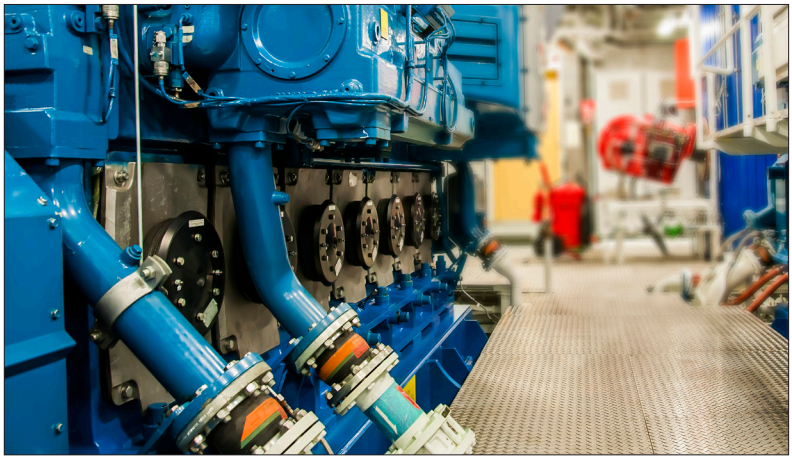
For in-situ machining of engine frame sealing surfaces











Application areas

- In-situ machining of engine frame sealing surfaces on medium-speed diesel engines

Key benefits

- Extremely robust high-precision machine
- Wide operating range
  - Radially from 300 to 900 mm diameter (can be extended)
  - Axially down to 900 mm
- Versatile design providing a wide range of applications
- Stepless feed for vertical and horizontal movements
- Achieves substantial savings by delivering high quality work in-situ
- Restores all sealing surfaces in the engine frame
- Specific mounting adapters designed for individual engine types
- Can be operated by one man, however an assistant is recommended
- Electrically driven

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PTL

Sustainable engine operation

PTL is a robust high-precision machine that can be operated by one skilled field engineer. PTL is a cost efficient choice. The Chris-Marine PTL machine allows for high-quality in-situ machining of engine frame sealing surfaces on medium-speed diesel engines, minimizing down-time and emissions. This means that the cost per job will be much lower compared to when outsourcing the job.
In addition, as service is performed in-situ, logistics costs decrease, thus the carbon footprint will be significantly lower. When performing this service by yourself you avoid unnecessary waiting time and can keep your engines in top condition at all times. This means that you will benefit from less fuel consumption and fewer emissions. It also means significant cost-savings as the need to invest in new engine parts will be minimized.



Upper liner

Machining of liner landing surface and upper guiding surface in 4-stroke engine frame.



Lower liner

Machining of lower sealing surface in 4-stroke engine frame.

Examples of machining in engine frame. Other applications also possible.



Intermediate liner

Machining of intermediate sealing/guiding surface in 4-stroke engine frame.

*Smaller diameter accessories available upon request

Technical specifications	
• Machine capacity	Ø300 - Ø900 mm (can be extended)*
• Electric power supply	3-phase 320 - 440 V 48/62 Hz
• Power requirement	2.2 kW
• Feeding length	120 mm
• Weight	290 kg
• Max dimensions	H: 1631 mm, Ø: 350 mm



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