Wärtsilä is a global leader in complete lifecycle power solutions for the marine and energy markets. By emphasising technological innovation and total efficiency, Wärtsilä maximises the environmental and economic performance of the vessels and power plants of its customers.

In 2008, Wärtsilä’s net sales totalled EUR 4.6 billion with 19,000 employees. The company has operations in 160 locations in 70 countries around the world. Wärtsilä is listed on the NASDAQ OMX Helsinki, Finland.

**APPLICATIONS**

In situ machining is always beneficial whenever dismantling and transport of the component in need of repair is difficult or uneconomical or both.

Wärtsilä is equipped for in situ machining of diesel or gas engine crankshafts for any installation, e.g.:

- Power plants
- Vessels in any port or in transit
- Offshore applications

**FULL SERVICE COMMITMENT**

When you contact a Wärtsilä office for assistance after a breakdown, you will be well looked after through the whole process. Not only will you experience the fastest possible repair procedure, you will also receive our full attention from initial damage estimations, spare parts requirements and repair guidance to the final, successful reinstatement of the vessel or power plant in service.

In the absolute shortest time and to a competitive price.
Engines today are exposed to heavy and ever-increasing load. Consequently, any breakdown suffered tends to result in serious damages. If the crankshaft suffers damage, it usually means the engine needs to be extensively dismantled in order to rectify the problem. Without the in situ machining option, the crankshaft has to be sent off-site for machining, resulting in long delays and multiplied costs.

**GLOBAL REACH**

Being a truly global company, we can reach any installation, no matter where in the world it is. At present we have thirteen strategically placed network stations with full-on site machining capabilities. We can always select the most suitable equipment and personnel to deal with the damage at hand.

**IN SITU MACHINING OPTIONS**

With Wärtsilä’s effective range of in situ machining options, the engine can be up and running in the shortest possible time. Our proprietary in situ machining equipment is centred around recovering damaged crankshafts with crankpin diameters between 170 and 1 020 millimetres. Larger diameters are handled case by case.

**SAME RESULT – LESS TIME**

The modern and optimized machining equipment developed by Wärtsilä was first used in full operation on a damaged crankpin in a Wärtsilä 25 engine. The time spent was 40 percent shorter than with traditional methods, with resulting tolerances well within the limits set by the manufacturer.

**FAST RESPONSE**

The response and start-up time is extremely short. It is not unusual for the in situ machining team to be on their way already on the same day the breakdown occurred. The machining equipment itself is compact and light enough to travel together with the operators on the same flight.

**COMPREHENSIVE TRAINING**

All personnel working with in situ machining within Wärtsilä are highly experienced field service engineers, specifically trained in the use of the on-site machining equipment at one of our training centers.

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