

IN-SITU MACHINING

Wärtsilä provides in-situ machining of components.

As specialist and experts in engine and propulsion system, we are used to serving you on the spot by providing the necessary and qualified manpower to maintain or repair your equipment wherever it is located.

Engines today are exposed to heavy and ever-increasing load. In the ever ongoing quest for maximum power output, one of the key components risking damage is the crankshaft.

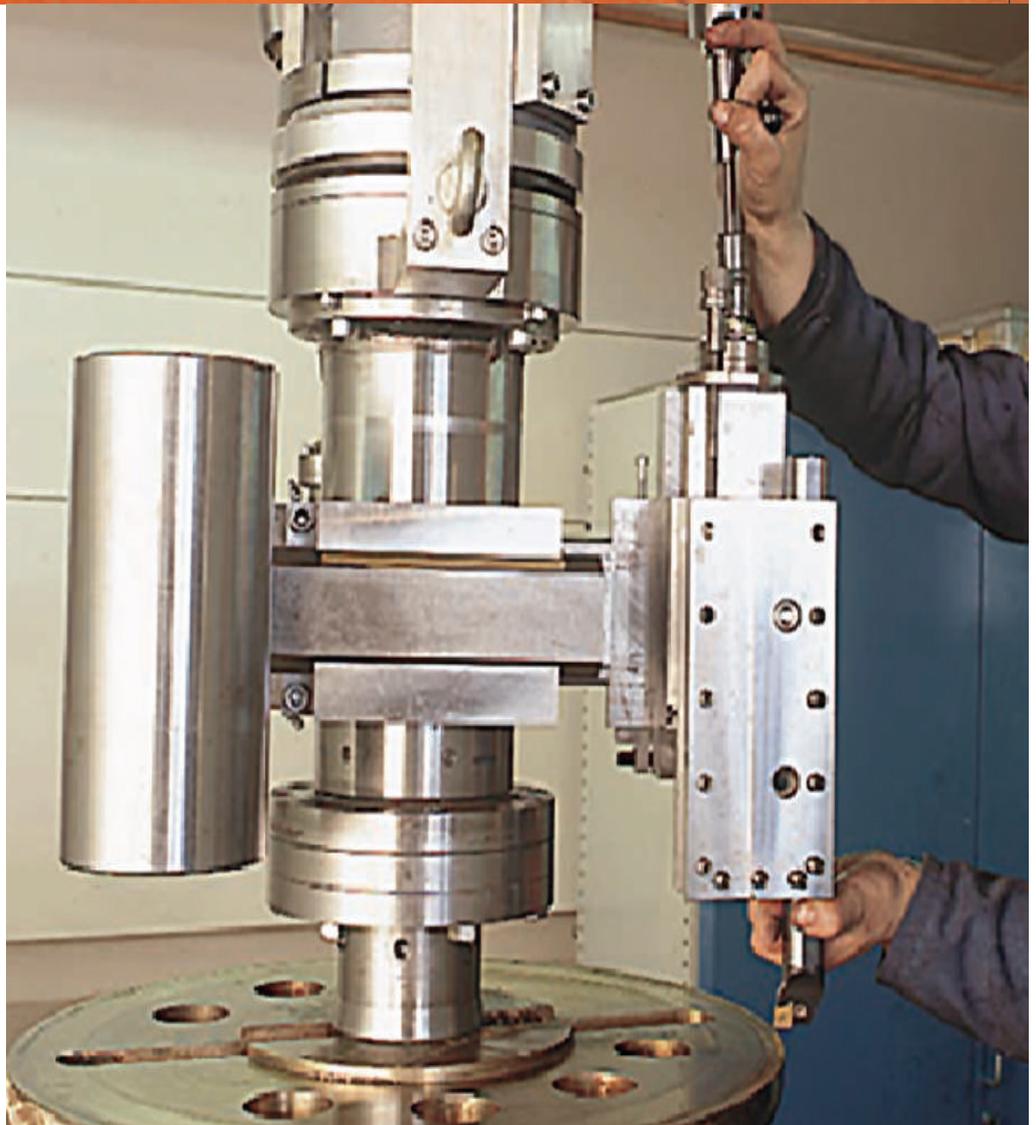
If the crankshaft suffers damage, it usually means the whole engine needs to be stopped and extensively dismantled in order to rectify the problem. In many cases, the crankshaft was sent off-site for machining, resulting in extensive delays and multiplied costs.

WORLD CLASS RESPONSE TIME AND RESULTS

Today, the situation is different. With Wärtsilä's extensive and effective range of in-situ machining options, the engine can be up and running in the shortest possible time. Although the in-situ machining is centred around recovering damaged crankshafts with crankpin there is a whole away of other options either in use or in development.

FAST RESPONSE

The response and start-up time is extremely short. The machining equipment itself is compact and light enough to travel together with the operators on the same flight.



APPLICATIONS

In-situ machining is always beneficial wherever dismantling and transportation of the component in need of repair is difficult or uneconomical or both :

- Nuclear applications
- Hydro power plants
- Offshore applications
- Shipping
- Power plants in remote locations
- Any installation where minimized downtime is paramount

BENEFITS

- Lower repair costs and shorter downtime
- Components for propulsion plants are machined on board, thus avoiding unnecessary dismantling and transport action costs
- Specially trained service operators who travel worldwide at short notice for bigger or smaller in-situ machining assignments.
- Wärtsilä can also perform in-situ machining while other maintenance work is done at our modern ship services workshops

- We have a skilful professional team which carries out Total Services in all areas on board the ship
- The array on in-situ machining tools available through Wärtsilä field services is fit to serve almost any need.

Our in-situ team can undertake virtually any machining task the customer requires.

Engine

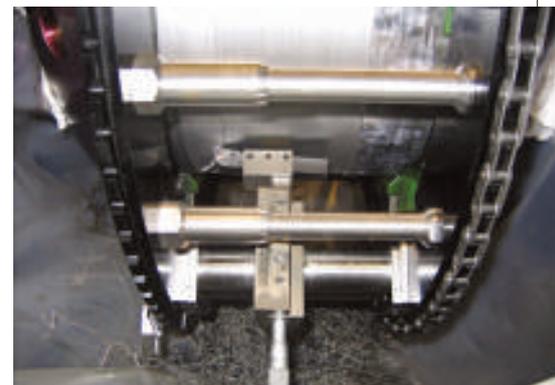
- Face grinding of sealing surfaces in engine block for cylinder liners
- Face tuning horizontal and vertical
- Turning and lining of engine blocks on board
- Grinding of exhaust and air inlet valves and valve seats

New tools and techniques are constantly being developed and old machinery optimized. All in order to increase our ability to get your engine back in operation as quickly as possible.

GRINDING OF CONTACT SURFACES



MACHINING OF FILLETS



MACHINING

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Wärtsilä India Ltd

48, Neco Chambers, Sector 11, CBD Belapur, Navi Mumbai-400614, India
Tel. +91-22-27575361/71 • Fax. +91-22-67907656

WARTSILA.COM

