

MaK™ On-Site Machining Solutions

In-Situ Machining of Crankpins

What is On-Site In-Situ Machining of Crankpins?

Crankpin wear or consequential bearing damages can lead to nonconformity in crankshaft dimension. MaK™ On-Site machining allows the crankpin to be reworked to OEM-approved undersizes in a time and cost-effective manner.

On-Site machining offers significant savings by avoiding the costs and additional downtime associated with crankshaft disassembly, removal, logistics, transportation and reinstallation.



What are the key benefits of On-Site Machining?

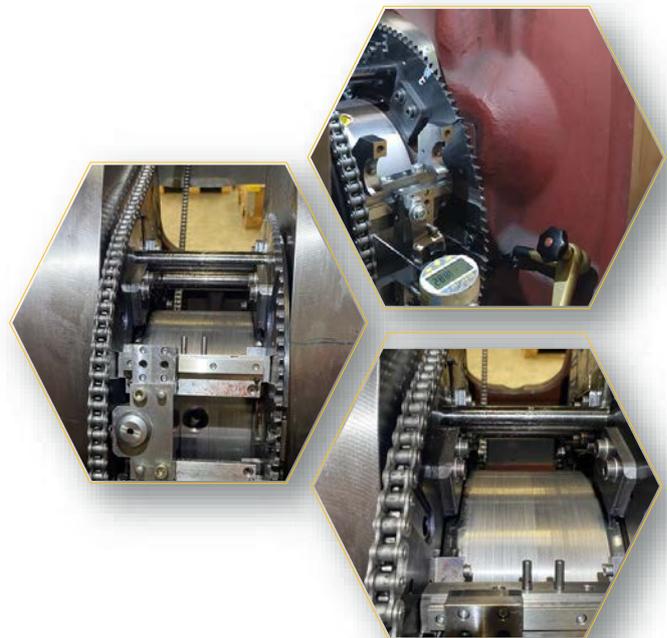
- On-Site rework to minimize downtime
- Classification Society approved
- Reduced total costs of service
- Workshop-quality on site
- OEM certified

Which engine models are covered?

- M 32 Inline
- M 32 V-type
- GCM34

What does the machining process look like?

1. Machining of crankshaft fillets
2. Machining of crankpin to a defined dimension
3. Polishing of crankpin, oilbore outlets and fillets
4. Conducting a quality check



Frequently Asked Questions

Q Why choose Caterpillar?

A The MaK In-Situ Crankshaft Machining process is based on OEM calculation principles, uses genuine parts, is OEM and Marine Classification Society certified.

Q Can all crankshafts be recovered?

A Most of the crankshafts are technically qualified for crankshaft machining. An investigation will be performed upfront to provide an immediate recommendation.



**Are you interested in MaK™ On-Site Machining Solutions
or need further information?**

Please contact your dealer, local representative or the MaK REParts Center directly at:
REParts_Center@cat.com

Caterpillar Motoren GmbH & Co. KG
Falckensteiner Str. 2
24159 Kiel/Germany

Phone: +49 431 3995 01
Telefax: +49 431 3995 2193

For more information please visit our website:
cat.com/marine

Subject to change without notice.
01.25 - e - SM
LEXM23071-00

© 2025 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, „Caterpillar Corporate Yellow“, the „Power Edge“ and Cat “Modern Hex” trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

Contact your local dealer:
https://www.cat.com/en_US/by-industry/marine/mak-dealerlocator.html

Visit us on ShipServ:
<https://www.shipserv.com/brand/mak>

Check out our MaK LinkedIn page to stay up to date:
<https://www.linkedin.com/showcase/caterpillar-mak/>



MaK