

IT'S OUR ULTRA-DYNAMIC MCX FOR YOUR LARGE ENGINES (SIZED 1250 / 1400)

There are many advantages to a machining centre, especially when it comes to increasing quantities. And this is exactly where our wellproven MCX series is the perfect match. It ensures excellent dynamics and short downtimes.

- + Roller-guided.
- + 1,500 to 3,700 mm swing diameter (option 4,800 mm).
- + Work area (X,Y,Z) 4,800 x 3,000 x 3,200 mm.
- + Payload up to 20,000 kg.
- + Rapid traverse speeds up to 65 m/min.
- + Acceleration up to 5 m/s².



Publisher
BURKHARDT+WEBER
Fertigungssysteme GmbH
Burkhardt+Weber-Straße 57
72760 Reutlingen | Germany

Tel +49 7121 315-0
info@burkhardt-weber.com
www.burkhardt-weber.com

Responsible for the content:
BURKHARDT+WEBER
Images: BURKHARDT+WEBER



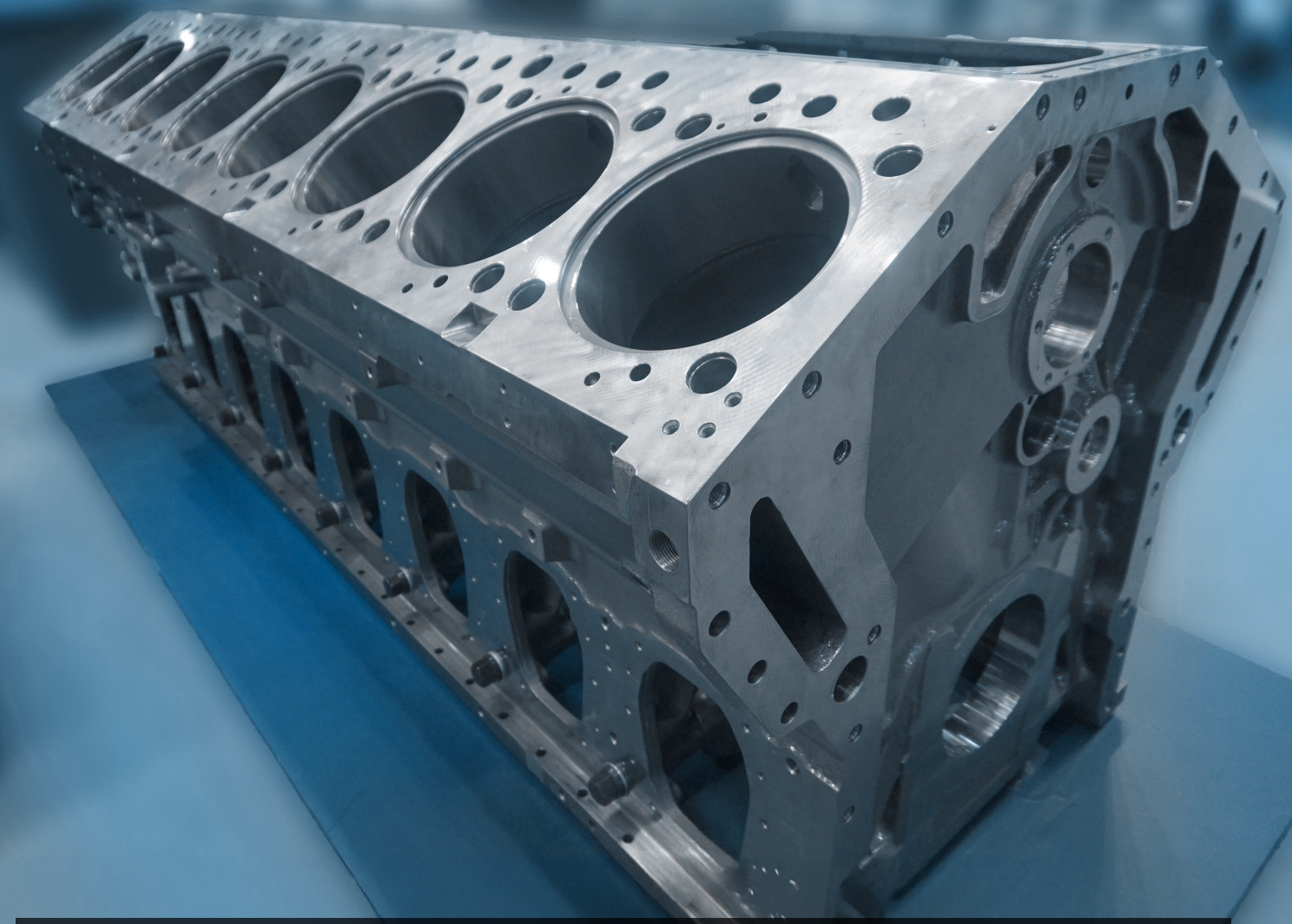
COMPETENCE



2025

BURKHARDT+WEBER WHEN IT COMES TO CRANKCASES.

POWERFUL CRANKCASES FOR MAXIMUM ENGINE PERFORMANCE.



L to XXL – our expertise spans from aerospace to gear drives. And yet, one of our core disciplines remains high-precision machining of crankcases.

ALL FROM A SINGLE SOURCE – TURNKEY PROJECTS DESIGNED FOR YOUR LARGESIZED ENGINES

Our customized production systems combine performance and precision – optimum conditions for manufacturing crankcases up to V20 engines with a block length of 4,000 mm. Benefit through our expertise in turnkey projects and our numerous reference projects featuring fixture know-how, tool design as well as our experienced technologists.

Turnkey machining – all from a single source.

- + Including line-boring (crankshaft / camshaft).
- + Built-in pick-up function of the boring bar.
- + By the axis alignment and design of a long Z-axis.
- + High repeat accuracy and maximum precision thanks to line-boring.
- + Extensive project experience in turnkey projects including tool configuration and fixture design.

Automatic boring bar feed.

One or more boring bars of up to 4,500 mm in length are not inserted from the magazine, but by automatic feeders from an external station. All NC-controlled and made in-house by BW.



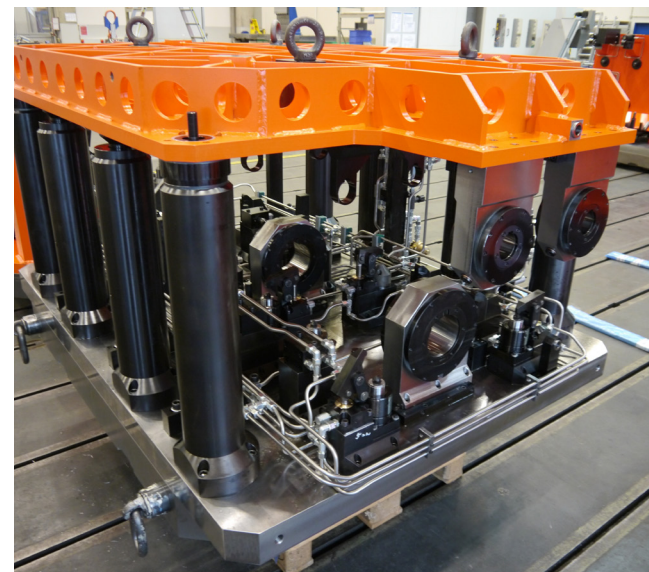
Fixtures.

All fixtures are individually engineered and manufactured by BURKHARDT+WEBER. Close coordination between tool design, fixture design and programming guarantee perfect machining results. A customized design additionally ensures efficient loading and unloading of the workpiece.

The fixtures are fully hydraulic, eliminating the need for manual clamping and alignment. Thanks to the flexible fixture concept, several workpiece types can be clamped with a single fixture.

Additional process safety is provided by monitoring the workpiece position by means of position control.

A particularly interesting aspect of line boring is that the fixture accuracy is also crucial for the precision of the crankshaft gaps. One further factor underlining BW's turnkey concept.



MULTIPLE ROUTES LEADING TO YOUR CRANKCASE

