



ZEISS MMZ 1 table

Compact Solution for Large Volume Parts



Seeing beyond

ZEISS MMZ 1 table

Bridge-type CMM for large workpieces

ZEISS MMZ 1 table is suitable for all applications where accurate contact measurements are needed and where size, form and location measurements are evaluated with the highest accuracy – with the probe head ZEISS VAST XT gold.

The CMM impresses with its stable and robust design, featuring a silicon-carbide Z-ram to improve temperature stability and to prevent scratches and warping from heat sources. Furthermore, the X and Y guideways are protected by bellows covers to increase robustness against dust and dirt – keeping the maintenance effort low and the guideways clean.

With features like ZEISS AirSaver, ZEISS PowerSaver and a recuperation mode, ZEISS MMZ 1 table helps make measuring processes more sustainable by saving energy.



Application Examples

Manufacturing industry

- Bearings
- Mould making
- Machine beds
- Hydraulic components
- Housings
- CNC production of big workpieces

Mobility System

- Engine
- Drive train
- Gears
- Valve seats
- Connecting rods
- Battery tray (e-car)

Aerospace

- Structural parts, ribs
- Turbine casing
- Shafts

Wind Energy

- Bearing
- Gearbox
- Housing
- Shafts

Specifications

MMZ 1 table

Size/measuring range in mm	2000 × 3000 × 1500 mm (smaller size) 2000 × 4000 × 1500 mm (larger size)
Compatible probe	ZEISS VAST XT gold ZEISS VAST XTR gold ZEISS VAST gold ZEISS RDS-D-CAA with tactile sensor ZEISS VAST XXT
Accuracy	3.6 + L/250 μm
Software	ZEISS CALYPSO ZEISS CALYPSO navigator ZEISS CALYPSO performance
Part weight	Up to 5 t
Foundation needed	No – if the floor can support the load



Key characteristics and benefits

1 Silicon-carbide ram

Improves temperature stability and provides a surface which prevents scratches and warping from heat sources, leading to higher accuracy and reduced service requirements thanks to higher CMM rigidity.

2 Covered guideways

The X and Y guideways are protected against contamination by bellow covers, leading to increased stability and less maintenance work on the guideways.

3 Laser scanners for increased safety

Laser scanners monitor a protection zone around the CMM. If the safety zone is breached, the CMM immediately slows down to a safe speed.

4 No foundation needed

Due to the low load on the floor and the standard pneumatic vibration insulation, an expensive foundation is not needed.

5 ZEISS AirSaver

Automatically shuts off the compressed air of the air bearings after a defined time and thus minimizes air consumption when the CMM is not being used.



Key characteristics and benefits

6 ZEISS PowerSaver

Reduces power consumption during downtimes and lowers the amount of needed energy in the system.

7 Recuperation function to save energy

Intelligent energy management stores the energy from deceleration and transfers it into the next acceleration.

8 CALYPSO VAST navigator

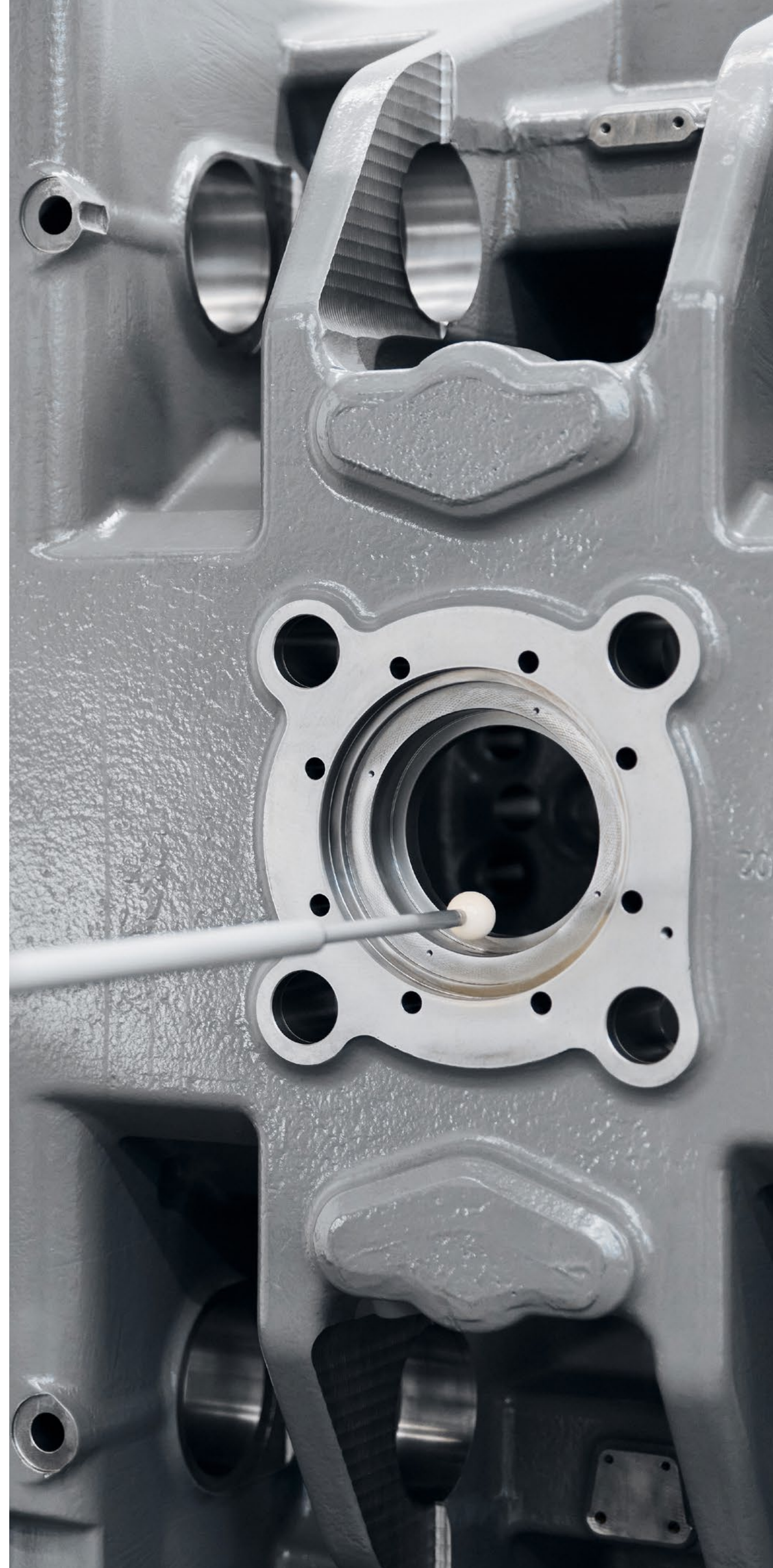
Enables even faster calibration, approach and scanning as well as improved precision, leading to faster measurements and higher performance.

9 ZEISS mass technology

Works with a variety of contact probes and provides maximum flexibility for different measuring tasks.

10 ZEISS CALYPSO software

Leading software with additional features, such as curve measurement, PCM (parameter coded measurements), statistics and reporting. In addition, compatibility and consistency across all ZEISS CMMs.



Would you like to automate your measurements with ZEISS MMZ 1 table?

Contact us for further information.





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