

The natural choice for the shop floor.

ZEISS DuraMax

ZEISS DuraMax combines robustness, precision and efficiency, while withstanding even high temperatures. This makes it the perfect choice for demanding at-line measurement directly in the production environment. In conjunction with the ZEISS VAST sensor, ZEISS DuraMax enables fast single-point measurements as well as scanning of contours and free-form surfaces.



Seeing beyond

Key Characteristics



Efficiency

Optimal measurement volume/
footprint ratio



Speed

Reduced operating times
and fast measurement



Precision

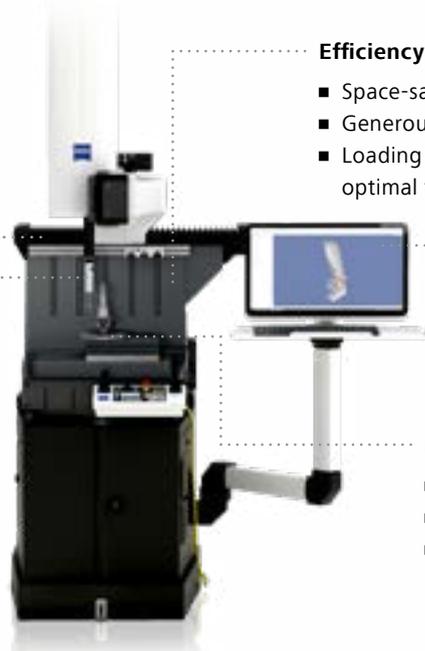
Precise results even in harsh
environments

Temperature resistivity & reliable precision

- Glass-ceramic scales on all axes for stable measurements from +18 °C to +30 °C
- IP54 base protects the computer hardware
- HTG option for the widest temperature range
- Optional pneumatic vibration isolation

Exceptional speed and productivity

- Fast scanning with ZEISS VAST XXT
- Better evaluation of tolerances
- ZEISS VAST probing saves up to 30 % measurement time
- Duplex system for increased throughput



Efficiency and optimal accessibility

- Space-saving design for a small footprint
- Generous, easily accessible measuring volume
- Loading from three sides and from above at optimal working height

Intuitive and user-friendly software

- ZEISS CALYPSO software
- ZEISS CALYPSO express: particularly easy to learn and program

Highly flexible applications

- Four-axis measurement
- Optional rotary table
- No compressed air required

Technical Specifications

	DuraMax	DuraMax HTG
Measuring volume	500 x 500 x 500 mm ³	500 x 500 x 500 mm ³
Length measurement error E0 in µm E0/E40 in µm MPE according to ISO 10360-2:2009	2,4 + L/300 18 °C - 22 °C	2,2 + L/300 18 °C - 22 °C
Extended temperature range (ZEISS TVA 1) E0/E40 in µm	2,7 + L/250 18 °C - 26 °C	2,5 + L/250 18 °C - 26 °C
Extended temperature range (ZEISS TVA 2) E0/E40 in µm	2,9 + L/200 18 °C - 30 °C	2,7 + L/200 18 °C - 30 °C
Extended temperature range (ZEISS TVA 3) E0/E40 in µm	not available	3,9 + L/100 15 °C - 40 °C
Software	ZEISS CALYPSO	ZEISS CALYPSO
Tactile sensor	VAST XXT TL 3	VAST XXT TL 3
Stylus length	radially up to 65mm (star stylus)	radially up to 65mm (star stylus)
Probe diameter	0,3 - 8 mm	0,3 - 8 mm

Applications

Industries

- Production manufacturing
- Automotive
- Aerospace
- Medical
- Electronics

Exemplary Parts

- Small housings & gears, CNC-m. parts
- Vacuum pump
- Small blades (LPC, HPC)
- Hip parts, inhalers
- Connectors

Contact

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