

# The natural choice for the shop floor.

## ZEISS DuraMax



Seeing beyond

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.

[Learn more](#)

### 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
<b>Measuring volume</b>	500 x 500 x 500 mm <sup>3</sup>	500 x 500 x 500 mm <sup>3</sup>
<b>Length measurement error E0 in µm</b> 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
<b>Software</b>	ZEISS CALYPSO	ZEISS CALYPSO
<b>Tactile sensor</b>	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

#### Carl Zeiss Limited

2 Hadrians Way, Rugby  
CV21 1ST, UK  
[www.zeiss.co.uk/metrology/DuraMax](http://www.zeiss.co.uk/metrology/DuraMax)

[Click here to contact us](#)