



MICURA®
Specifications
Version: 2011-09



We make it visible.

Dynamics

Travel speed	Motorized	Axes	0 to 70 mm/s
	CNC	Vector	max. 492 mm/s
Acceleration		Vector	max. 1969 mm/s ²
Scanning speed			max. 125 mm/s

Sensor and accuracy

VAST XT gold ¹⁾



Active scanning and multi-point sensor with Variable Accuracy and Speed Probing Technology. Optional navigator technology to increase measuring performance.

Variable measuring force (50 - 1000 mN) for data acquisition.
Stylus: max. length = 500 mm, max. weight = 500 g including stylus adapter, smallest stylus tip diameter = 0.5 mm.

Length measuring error ²⁾ MPE complies with DIN EN ISO 10360-2:2001	E	in μm	0.9 + L/400
Probing error MPE complies with DIN EN ISO 10360-2:2000	P	in μm	0.9
Scanning error MPE complies with DIN EN ISO 10360-4:2001	THP	in μm	1.3
Required measuring time MPT	τ	in s	40
Form measuring error ³⁾ MPE for roundness as per DIN EN ISO 12181	RONT (MZCI)	in μm	1.2

Technical properties

Length measuring system	Photoelectric reflected light system, 0.2 μm resolution
Controller	Type: ZEISS C99, Protection type: IP22
Accessories	Standard: Temperature compensation system for workpiece. Optional: Multi-sensor rack for storage of stylus systems.

Ambient conditions ⁴⁾

Humidity	30-60% (without condensation)
Measuring reference temperature	19 °C to 21 °C
Temperature fluctuations	Per day: 1.5 K/d; per hour: 1.0 K/h; spatial: 1.0 K/m
Floor vibrations	MICURA is equipped with passive vibration damping (tolerances upon request). If requested, we will perform a vibration analysis.

Conditions for operational readiness

Humidity	30 % bis 60 % (without condensation)
Ambient temperature	+17°C to +35°C
Power rating	1/N/PE 100/110/115/120/125/230/240 VAC ~ ($\pm 3.5\%$); 50-60 Hz ($\pm 3.5\%$), Power consumption: max. 1000 VA
Compressed air supply	Supply pressure 6 - 10 bar, pre-cleaned. Max. consumption: 30 l/min at 5.5 bar pressure. Air quality acc. ISO 8573 part 1: class 4

1) VAST XT gold: acceptance test with stylus length of 60 mm and sphere diameter of 8 mm.

2) Measuring length L in mm.

3) Roundness in Scanning Mode for $V_{scan} = 5 \text{ mm/s}$, filter 50 UPR, gage calibration.

4) To ensure specified accuracies.

5) Transport height of the secured machine group from the base of the machine (add 250 mm if transporting with the secured pallet).

Safety

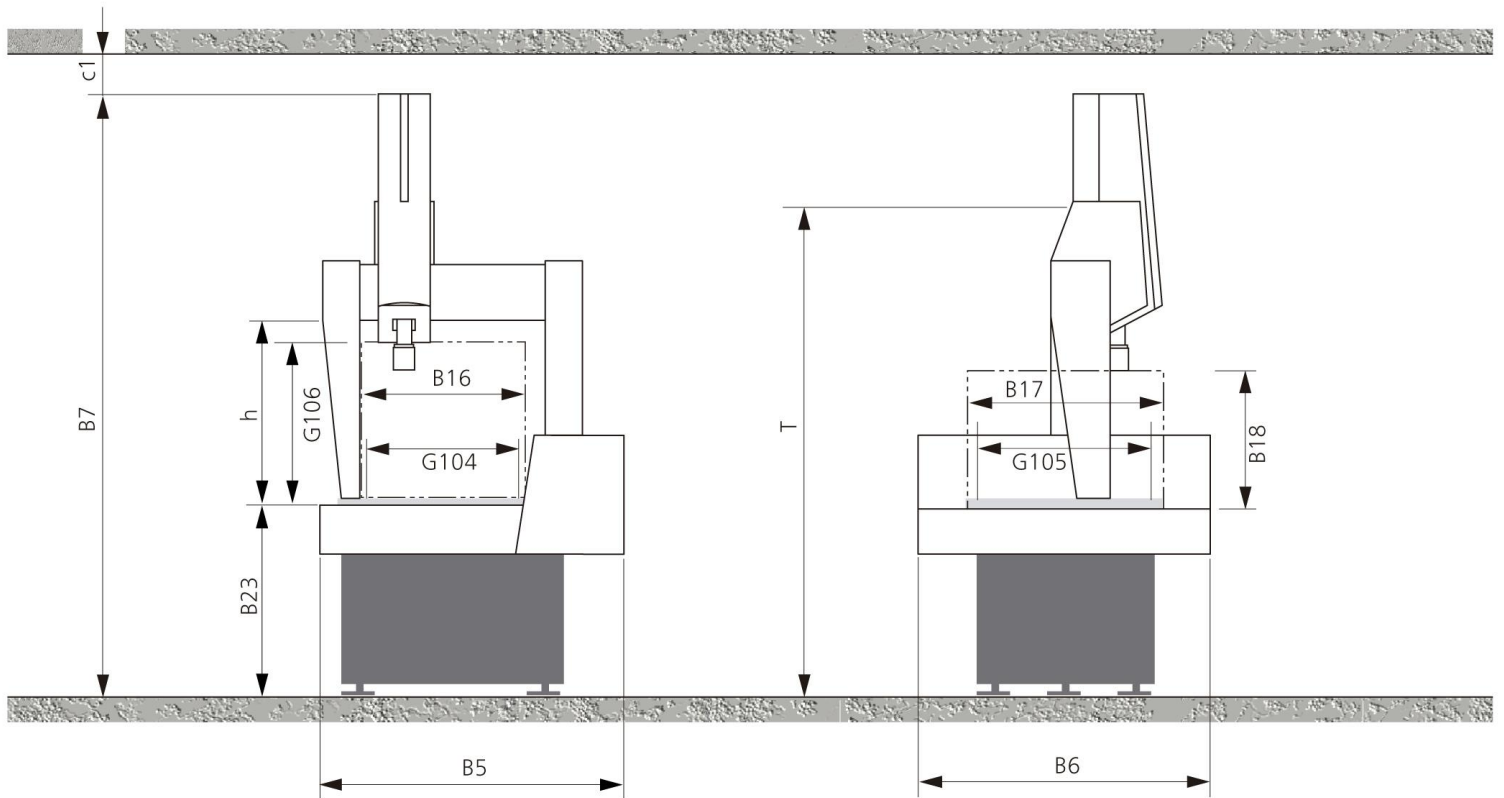
Regulations

MICURA is developed to EC machine directive 2006/42/EC and EMC directive 2004/108/EEC.
 Certification process to obtain CE and cCSAus approval is pending.
 DIN EN ISO 9001.

Disposal

CZ products and packaging returned to us are disposed of in accordance with applicable legal provisions.

MICURA	Dimensions in mm													Weight in kg	
	Measuring range			Machine overall dimensions			Working range (Max. workpiece size)				Table height	Assembly space	Transport height ⁵⁾	Max. workpiece	Measuring machine
	X axis	Y axis	Z axis	Length	Width	Height	Length	Width	Height	Height	Height	Height	Height		
	G104	G105	G106	B5	B6	B7	B16	B17	B18	h	B23	c1	T		
5/5/5	500	500	500	1295	1245	2600	705	841	616	680	850	≥200	2515	280	985



Note: the given dimensions and weights are approximate values. Subject to change. Dimensioning based on DIN 4000-167:2009.