

# ScanMax®

## Specifications



**New !**

**Optional:**

With increased accuracy  
in preferred measuring  
range

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Worker self inspection  
in the shopfloor,  
in scanning mode.

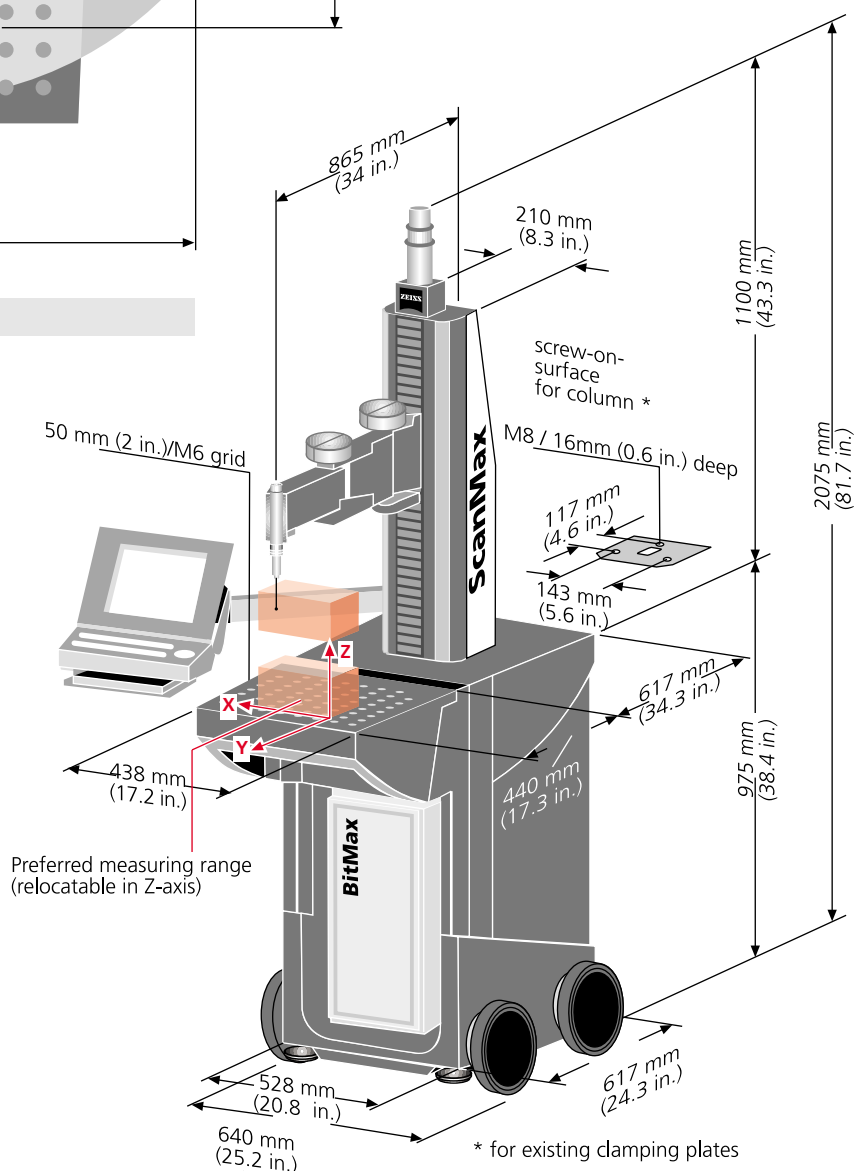
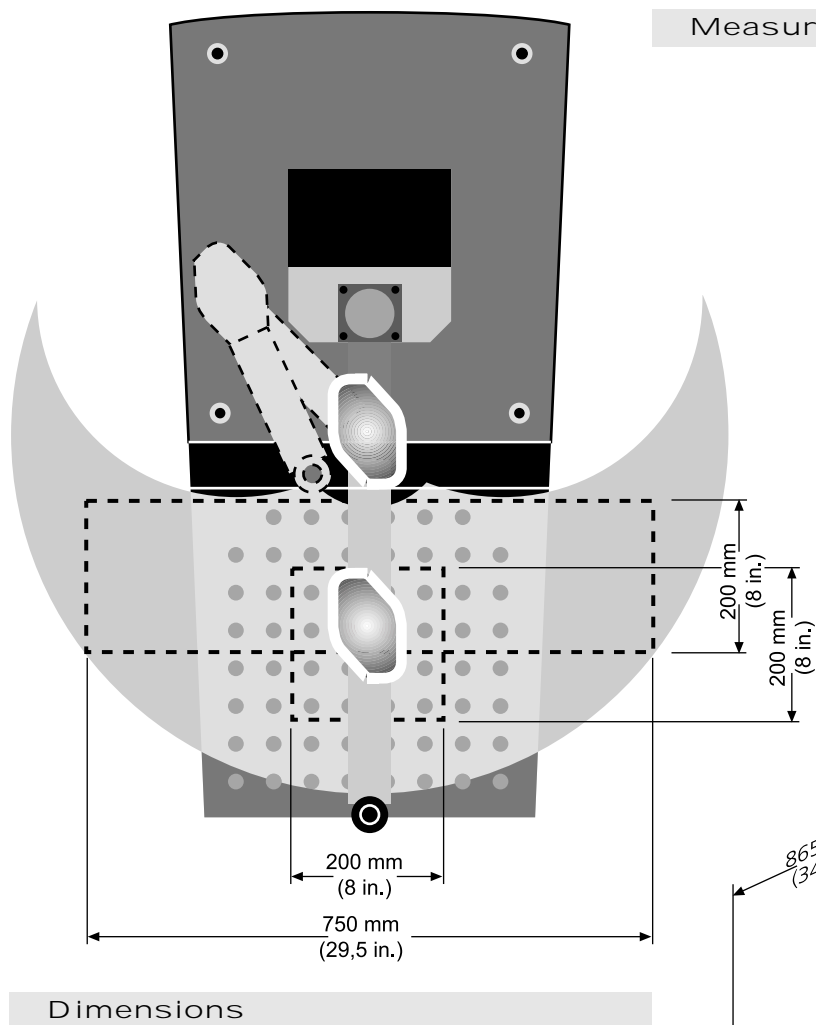
- reliable
- fast
- simple to use



We make it visible.

# ScanMax®.

## For Shopfloor Use.



ScanMax® fulfills the EC-Directive for machinery  
98/37/EC, Low-Voltage Directive 73/23/ECC  
and the EMC Directive 89/336/ECC

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\* for existing clamping plates

# ScanMax®.

## Technical Data and Performance.

General		ScanMax®			
Design		Articulating arm CMM			
Probe system		Zeiss measuring probe system			
Drives		High dynamic servo drive. Electronic drive monitoring and thrust force limitation.			
Control		Dual PC control with ScanWarePRO evaluation software and Windows 2000 operating system			
Operation		Manual scanning of workpiece features and contours, motorized in the Z-axis			
Special features		Absolute precision due to design quality and patented correction techniques. Collision protection in vertical direction. Permanent scanning mode with a data capture rate of min 200 points/s Light-weight articulated arms made of carbon fiber – for manual scanning. Ultra-precise, integrated roller bearings for outstanding running accuracies. Workpiece chucking on rotary tilting table with automatic ledge measurement for shifting and rotating the coordinate system permits unrestricted 3D measurement (optional) Polymer concrete base with excellent inhere stability (optional). Optionally equipped with wheels for easy transport. Passive anti-vibration system.			
Measuring range, Dimensioms, Weight					
Travel paths		maximal in mm (in.)	width	depth	height
			850 (33.5)	400 (15.7)	450 (17.7)
Measuring ranges		See Drawing on left page			
Dimensions		width in mm (in.)	depth in mm (in.)	height in mm (in.)	
Basic machine			210 (8.3)	865 (34)	
Base		(without wheels)	528 (20.8)	1057 (41.6)	
		(with wheels)	640 (25.2)	1057 (41.6)	
Complete machine		(without wheels)	528 (20.8)	1057 (41.6)	
		(with wheels)	640 (25.2)	1057 (41.6)	
Clamping plate			438 (17.2)	440 (17.3)	
Electronics unit (IP 54)			285 (11.2)	485 (19.1)	
Space requirement		Floor area incl. clearance	1200 mm x 1500 mm (47.2 x 59.1 in.)		
		Floor area incl. clearance & cart	1200 mm x 2000 mm (47.2 x 78.4 in.)		
Weight		in kg (lb)	Machine: 60 (132) Base: 315 (693)		Electronics unit: 25 (55)
Max. workpiece weight		in kg (lb)	50 (110) (on Zeiss base)		
Performance Data			Standard		Optional
Length (size) measuring error <sup>1)</sup>			Total measuring range		Preferred measuring range
MPE acc. EN ISO 10360-2	for E	in µm (in.)	5.0 + L/50 (0.000 197 + L/50,000) <sup>3)</sup>		2.9 + L/50 (0.000 114 + L/50,000) <sup>2)</sup>
acc. VDI/VDE 2617		u <sub>2</sub> in µm (in.)	4.5 + L/60 (0.000 177 + L/60,000) (XY-plane) <sup>2)</sup>		2.4 + L/60 (0.000 094 + L/60,000) (XY-plane) <sup>2)</sup>
(Length measuring uncertainty)		u <sub>3</sub> in µm (in.)	5.0 + L/50 (0.000 197 + L/50,000) <sup>3)</sup>		2.9 + L/50 (0.000 114 + L/50,000) <sup>2)</sup>
Probing error					
following to MPE	for P	in µm (in.) <sup>2)</sup>	5.5 (0.000 216)		
acc. EN ISO 10360-2					
acc. VDI/VDE 2617 <sup>3)</sup>		V <sub>2</sub> in µm (in.) <sup>2)</sup>	3.0 (0.000 118)		
Form measurement error RON <sub>t</sub> / MZCI in µm (in.) <sup>2) 4)</sup>			6.0 (0.000 236)		
following to MPE					
acc.DIN EN ISO12181 (VDI/VDE 2617 part 2.2)					
Length measuring systems		Z-axis	Zerodur scale; reflected light system/photoelectric; resolution 0.5 µm		
		Rotating axes	Glass graduated circle with dual scanning; transmitted light system/photoelectric; resolution 0.4"		
Probing system			Inductive sensor system on carrier frequency basis for determining deflection and forces even with higher speeds		
Measuring forces during data capture			approx. 0.5 - 2 N		
Stylus weight			135 g (4.8 oz.) basic setting to higher values possible		
Max. stylus length			approx. 300 mm (11.8 in.)		
Smallest stylus tip diameter			1.5 mm (0.06 in.)		
Stylus changing system			Manual, patented stylus change. Absolute coding of each stylus via a CD chip		
Supply Data					
Power requirements			230 V (±10%); 50 to 60 Hz (±3.5%)		
Optional, with transformer			100/110/120 V~ (±10 %); 50 to 60 Hz (±3.5%)		
Total power consumption max.			400 VA		
Ambient Requirements					
Air humidity			40% to 60%, no condensation		
Ambient temperature for operation			+15 °C to +35 °C (59 °F to 95 °F)		
Ambient temperature required			+20 °C to +30 °C (68 °F to 86 °F)		
guarantee measuring			Thermal fluctuations	per hour	2.0 K/h (3.6 °F/h)
uncertainty				per day	7.5 K/d (13.5 °F/d)
			Thermal gradient	spatial	1.5 K/m (0.75 °F/ft)
Floor vibrations at site of installation			See installation information.		

1) L = measuring length in mm

2) Measured with standard probe stylus diameter 8 mm (0.3 in.), probe length 53 mm (2.1 in.), probe extension 100 mm (3.9 in.)

3) Measured with standard probe stylus diameter 8 mm (0.3 in.), probe length 53 mm (2.1 in.), probe extension 163 mm (6.4 in.)

4) Used Filter 15W/U

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