Technical Data - Additional Documentation

1. ScanMax Technical Data

General	ScanMax
Design	Articulated arm coordinate measuring machine
Probing system	Zeiss measuring probe system
Drives	Highly dynamic servo drive Electronic drive monitor and shearing force limitation
Operation	Manual scanning of the workpiece contour to be measured
Special equipment	Absolute precision through design quality and patented correction techniques. Collision protection in the vertical direction. Inherently stable base made of concrete polymer (optional). Optionally equipped with wheels for easy transport. Passive vibration damping. Lightweight acticulated arm design made of CFK for manual scanning. Ultra high precision integrated roller bearings for outstanding running accuracy.
Accessories	Rotary tilting table for all-around measurement of workpieces.

Dimensions & Weights				
External dimensions		Width (mm)	Depth (mm)	Height (mm)
Upper part		210	865	1100
Base	(without wheels) (with wheels)	528 640	1057 1057	975 980
Complete unit	(without wheels) (with wheels)	528 640	1057 1057	2075 (w/o arm for control panel) 2080 (w/o arm for control panel)
Clamping plate		438	440	50
Electronics unit (IP54)		285	485	620
Space requirement	Floor space w. clearance	1200mm x 1500mm		
	Floor space with clearance and machine cart	1200mm x 2000mm		
Weight	(kg)	Machine: 60	Base: 315	Electronics unit: 25
Max. workpiece weight	(kg)	50 (on Zeiss base)		

Performance Data			
Measuring paths	X (mm)	Y (mm)	Z (mm)
With active stylus length of 150 mm and 8 mm tip diam.	850	400	400
With active stylus length of 80 mm and 8 mm tip diam.	850	400	470
Measuring ranges	See Chap.1.2		
System length meas. uncertainty (compliant with VDI/VDE 2617 p. 2.1)			
(L= meas. length in mm)	u_2 (µm) = 4.5 + L/60	u_3 (µm) = 5+ L/50	
Resolution	Z scale: 0.5 mm; angular pos. measuring system: 0.5“		

General	ScanMax
Connection Data	
Electrical connections	230 V (+/- 10%), 50 to 60 Hz (+/- 3.5%) Max. total power consumption 400 VA
Permissible Ambient Conditions	
Air humdity	40% to 60% without condensation
Ambient temp. required for operational readiness	+ 15 °C bis + 35 °C
Ambient temp. required to ensure the specified length measuring uncertainty	+ 20° C bis + 30 °C
Max. hourly temperature fluctuation	2.0 K/h