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PROCESS CMM 444 - MH20I + TP20

Coordinate Measuring Machine for shopfloor use
Includes: PC, touch screen, mouse and keybord, control unit, Joystick for remote control, supporting pole, calibration sphere
Axis strokes: 400x400x350: Head Unit Configuration - (MH20i + N° 2 TP20 SF) - 220 Volt 50/60Hz - 10A - 1500W - 670Kg



Precision Engineering for Industrial Excellence
The PROCESS CMM represents the pinnacle of shop floor measurement technology, engineered to deliver uncompromising accuracy in the most demanding industrial environments. Its robust portal structure provides exceptional rigidity unmatched in its category, ensuring precise measurements regardless of external conditions.

Key Advantages:

* Superior Accessibility & Ergonomics

* The mobile work table design enables effortless part loading with enhanced operator access, delivering ergonomic benefits that make a significant difference during repetitive shop floor cycles while facilitating robot integration.
Advanced Motion Technology

* Linear motors dramatically reduce maintenance requirements while providing smooth, fast movements that optimize cycle times and enhance productivity.

* Shop Floor Durability

* The "Compact" version features a specially configured measuring head engineered for maximum robustness in demanding workshop environments, ensuring reliable operation day after day.

* Enhanced Measurement Flexibility

* Pre-oriented stylus capability extends measurement reach to part areas inaccessible with fixed head configurations, maximizing measurement versatility and part coverage.

* The PROCESS CMM: Where precision meets productivity in the heart of your manufacturing operation.

TECHNICAL CHARACTERISTICS

ARCHITECTURE DESCRIPTION	Shop floor CNC coordinate measuring machine with cartesian axes, architecture with mobile granite table and fixed portal on which the

CLASSIFICATION		MEASURING STROKES		OVERALL DIMENSIONS		WEIGHT (MAX)		DYNAMIC (MAX)			AIR SUPPLY	
SERIE	SF CMM	Stroke X	400 mm	LX	948 mm	CMM	600 kg	3D Speed	800	mm/s	Cons.	Nl/min
MODEL	Compact	Stroke Y	400 mm	LY	710 mm	PIECE	100 kg	3D Accel.	2000	mm/s²	Supply	Bar
SIZE	04.04.04	Stroke Z	350 mm	HZ	1.952 mm							
MOT		Stroke YT										
DRIVE	LINEAR MOTOR	LINEAR SCALES		PILLARS								
Structure	MOVING TABLE	Type		Res.		NA						

WORKPLATE		DIMENSION (mm)	
MATERIAL	Granite	LENGTH	400
FLATNESS	DIN 876/III	WIDTH	400
HOLES	M8 Hole Pattern (100 x 100 mm)	THICKNESS	-
		HEIGHT	800

GUIDEWAY		SLIDING SYSTEM	DRIVE METHOD	MOTORS
X Axis	Dual mechanical linear guides	Dual linear guides with recirculating ball bearings	Linear motor	Linear Motor
Y Axis	Dual mechanical linear guides	Dual linear guides with recirculating ball bearings	Linear motor	Linear Motor
Z Axis	Mechanical linear guide	Linear guide with recirculating ball bearings	Linear motor	Linear Motor

SPECIFICATION ACCORDING UNI EN ISO 10360-2:2010 / 10360-4:2005

	MPE_{E0} / MPE_{E150} (µm)	MPL_{R0} (µm)	MPE/MPTTij (µm/s)	TEMP. RANGE	PROBE CONF	PERFORMANCE TEST
Base Ac.	2,4 + L/333	1,6		18÷22°C; 1,0°K/h; 2,0°K/24h; 1,0°K/m	MH20i-TP20	- TP2/TP20-5W: Std. Force Module, Stylus length 10 mm, Tip dia 4 mm
High Ac.	2,6 + L/250	1,6		16÷26°C; 1,0°K/h; 2,0°K/24h; 1,0°K/m	MH20i-TP20	
Scan Ac.	2,8 + L/200	1,6		15÷30°C; 1,0°K/h; 5,0°K/24h; 1,0°K/m	MH20i-TP20	
Dual Arm						

FOUNDATION	VIBRATION LIMIT	ENVIRONMENT	
Not necessary if the vibrations on the installation area are within the indicated limits. For indications on how to determine the type, intensity and nature of the vibrations present on the installation site of the measuring machine, see the relevant chapter on the User Manual.	(peak to peak acceleration) 30 mm/s² from 1 to 10 Hz 15 mm/s² from 10 to 20 Hz	Oper. T.	15-35 °C
		Umidity	40-80 %

All specifications listed in this document are subject to change without notice