



COORD3 BENCHMARK CMM MACHINE

Brand: COORD3

Category: Coordinate Measuring Machine (CMM)

Coord3 CMM Machine

GENERAL CHARACTERISTICS

BENCHMARK CMM Machine is available in two manual or CNC configurations. Manual machines can be upgraded to the full CNC version later on-site, offering the possibility of a two-phase investment.

FEATURES AND BENEFITS

- Ultra-rigid advanced alloy platform
- Rapid thermal diffusion through the frame when the temperature changes
- The FEA design guarantees an optimal moment of inertia and rigidity, allowing for strong accelerations
- Base composed of a single piece of granite with M8 threaded top inserts in a large checkerboard design
- Rigid air bearings
- Pneumatic counterbalance Z axis
- Measurement scales with 0.1 micron resolution with dynamic signal processing
- Fully digital motion control with probe path fusion for optimal CMM performance
- Friction reducers with hysteresis close to zero on all axes
- Passive vibration damping system that isolates from external vibrations
- Free access to the CMM measurement area
- Maximum positioning speed: 500 mm/sec
- Maximum acceleration: 1500 mm/sec²

CMM BENCHMARK SPECIFICATIONS

Models	Specification according to UNI EN ISO 10360-2:2010				Max. 3D Pos. Speed [mm/s]	Max. 3D Acc. [mm/s²]
	MOTORIZED					
	MH20i/PH10T/M/PH20-TP20		PH10T/M-TP200			
	⁽¹⁾ MPE _{EQ/ISO}	⁽²⁾ MPL _{RO}	⁽¹⁾ MPE _{EQ/ISO}	⁽²⁾ MPL _{RO}		
06.05.05	2,7 + 3,0 L/1000	2,5	2,5 + 3,0 L/1000	2,5	500	1500

Performance data are only valid if the following specifications are met:

- MPE_{EQ}/MPE(PFTU)/MPL_{RO}: PH10M/PH10T/PH20/TP20/TP200: tip diameter Ø 4 mm, stylus length 10 mm.
- MPE_{ISO}: PH10M/TP20/TP200: tip diameter Ø 4 mm, stylus length 40 mm.
PH20/MH20i: EM1 STDF, tip diameter Ø 4 mm, stylus length 20 mm.
PH10T: PEL2, tip diameter Ø 4 mm, stylus length 10 mm
- L = measuring length in mm

- Ambient temperature Range:

TI: 18 ÷ 22 °C; Max. Gradients: 1,0 °C/h - 2,0 °C/24h - 1,0 °C/m

⁽¹⁾ Maximum Permissible Error of indication for size measurement according UNI EN ISO 10360-2:2010

⁽²⁾ Maximum Permissible Probing Error according UNI EN ISO 10360-2:2010

⁽³⁾ Maximum Permissible Shape error with single stylus according UNI EN ISO 10360-5:2010