



COORD3 KRONOS NT LARGE BRIDGE TYPE **CNC CMM MACHINE**

Category: Coordinate Measuring Machine (CMM)

GENERAL FEATURES

The KRONOS series is also available in NT version, equipped with the innovative Silicon Carbide spindle for even higher metrological performance.

FEATURES AND BENEFITS

- Aluminum alloy moving carriage structure with integrated granite top
- Generously sized Z spindle made of light aluminum alloy or Silicon Carbide (NT)
- Mixed rack-and-pinion and hysteresis-free clutch drive system for smooth and repeatable movement
- Measurement system with high-resolution linear transducers (0.1 µm)
- Multi-sensor automatic temperature compensation system, with part temperature probe

PERFORMANCE

	Maximum Permissible Error ISO 10360-2 / ISO 10360-4 <i>MPE [μm], L [mm], t [sec]</i>															M 2D
			T ₁ : 18÷22 °C	С			Max. 3D Pos.	Max. 3D Accel.								
Models	PH10M-TP20		PH10MQ-TP200		PH10MQ-SP25			PH10M-TP20		PH10MQ-TP200		PH10MQ-SP25			Speed	7.000.0
	(1) MPE _E	(2) MPE _p	(1) MPE _E	(2) MPE,	(1) MPE _E	(2) MPE _p	(3) MPE _{THP}	(1) MPE _E	(2) MPE _p	(1) MPE _E	(2) MPE _p	(1) MPE _E	(2) MPE _p	(3) MPE _{THP}		
	[µm]		[µm]		[µm]		[µm]		[µm]		[µm]			[mm/s]	[mm/s²]	
xx.13.10	3,0 + L/285	3,0	2,8 + L/285	2,8	2,5 + L/285	2,5	5,0/120	3,7 + L/143	3,7	3,5 + L/143	3,5	3,3 + L/143	3,3	6,5/120	700	1300
xx.15.13	3,5 + L/285	3,5	3,3 + L/285	3,3	3,2 + L/285	3,2	6,5/120	5,0 + L/143	5,0	4,5 + L/143	4,5	4,0 + L/143	4,0	8,0/120	700	950
30.15.13	3,5 + L/285	3,5	3,3 + L/285	3,3	3,2 + L/285	3,2	6,5/120	5,0 + L/133	5,0	4,5 + L/133	4,5	4,0 + L/133	4,0	8,0/120	700	950

- Performance data are only valid if the following specifications are met:
 PH10M/PH10MQ/TP20/TP200: Tip diameter Ø4 mm x Stylus length 10 mm
- PH10MQ/SP25: SM1. Stylus Ø5 mm x 50 mm
- L = measuring length in mm
- T_.: 18 ÷ 22 °C; Max. Gradients: 1,0 °C/h 2,0 °C/24h 0,5 °C/m
- T₂: 16 ÷ 26°C; Max. Gradients: 1,0 °C/h 5,0 °C/24h 1,0 °C/m
- According to ISO 10360-2, Error of indication of a CMM for size measurement
- (2) According to ISO 10360-2, Probing Error
- Scanning probing error according to ISO 10360-4 applicable to the SP25/SP80 probes only

PERFORMANCE

Models		Maximum Permissible Error ISO 10360-2 / ISO 10360-4 MPE [μm] , L [mm], t [sec]														
	T,: 18÷22 °C							T ₂ : 16÷26 °C							Max. 3D Pos.	Accel.
	PH10M	-TP20	PH10MQ-TP200		PH10MQ-SP25			PH10M-TP20		PH10MQ-TP200		PH10MQ-SP25			Speed	
	(1) MPE _E	(2) MPE,	(1) MPE _E	(2) MPE _p	(1) MPE _E	(2) MPE _p	(3) MPE _{THP}	(1) MPE _E	(2) MPE,	(1) MPE _E	(2) MPE _p	⁽¹⁾ MPE _E	(2) MPE _p	(3) MPE _{THP}		
	[µm]		[µm]		[µm]			[µm]		[µm]		[µm]			[mm/s]	[mm/s²]
xx.20.15	4,0 + L/250	4,0	3,8 + L/250	3,8	3,6 + L/250	3,6	7,5/120	6,5 + L/133	6,5	5,5 + L/133	5,5	5,2 + L/133	5,2	10,0/120	500	800

ring specifications are met:

- PH10T/PH10M/PH10MQ/TP20/TP200: Tip diameter Ø4 mm x Stylus length 10 mm
- PH10MQ/SP25: SM1, Stylus Ø5 mm x 50 mm.
- L = measuring length in mm
- T.: 16 ÷ 26°C: Max. Gradients: 1.0 °C/h 5.0 °C/24h 1.0 °C/m
- (1) According to ISO 10360-2, Error of indication of a CMM for size measurement
- ^[2] According to ISO 10360-2, Probing Error ^[2] Scanning probing error according to ISO 10360-4 applicable to the SP25/SP80 probes only