COORD3 ARES NT/NT-L CNC CMM MACHINE

Category: Coordinate Measuring Machine (CMM)

GENERAL FEATURES
ARES is available in 500 mm and 700 mm deck width versions and undoubtedly stands out as the ideal CMM for workshops.

FEATURES AND BENEFITS

- Ultra-rigid alloy frame to ensure maximum rigidity for scanning applications
- Structure with rapid thermal diffusion for changes in environmental conditions
- FEA-designed bridge girder extrusion, allowing optimal moment of inertia for minimal deflection at high accelerations
- M8 threaded table that fits into the large checkerboard layout.
- Rigid air bearings for high bearing clearance coefficients
- Pneumatic counterbalancing of the Z-axis.
- Free-fluctuation resolution measurement scales of 0.1 micron incorporating dynamic signal processing.
- Fully digital motion control with probe path fusion for optimal performance
- Friction reducers with near-zero hysteresis on all axes
- Passive vibration damping system that isolates external vibrations
- Free access to the measurement area from all sides
- Maximum positioning speed: 517 mm/sec
- Maximum acceleration: 1730 mm/sec2

ARES NT

- Silicon carbide Z-axis column further reinforcing rigidity
- OptionalRenishaw TONiC resolution measurement scalesof 0.1 micron
- Dynamic wireless temperature compensation system including part temperature sensor.t

CMM ARES NT

07.05 / 07.07 SPECIFICATIONS

Models	T_1: 18 - 22 °C											Max. 3D Pos. Speed	Max. 3D Accel.
	PH10M/T/PH20-TP20			PH10M/T-TP200			PH10M/PH6M-SP25M						
	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	MPE_{TS} [4]	MPT_{TS} [5]		
	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[sec]	[mm/sec]	[mm/sec²]
xx.07.05	2,1 + 3,0 L/1000	2,0	2,1	1,9 + 3,0 L/1000	1,8	1,9	1,9 + 3,0 L/1000	1,8	1,9	4,0	120	500	1500
xx.07.07	2,5 + 3,3 L/1000	2,4	2,5	2,3 + 3,3 L/1000	2,2	2,3	2,3 + 3,3 L/1000	2,2	2,3	4,5	120	500	1500

Models	T_2: 16 - 26 °C											Max. 3D Pos. Speed	Max. 3D Accel.
	PH10M/T/PH20-TP20			PH10M/T-TP200			PH10M/PH6M-SP25M						
	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	MPE_{TS} [4]	MPT_{TS} [5]		
	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[sec]	[mm/sec]	[mm/sec2]
xx.07.05	2,1 + 4,0 L/1000	2,0	2,1	1,9 + 4,0 L/1000	1,8	1,9	1,9 + 4,0 L/1000	1,8	1,9	4,0	120	500	1500
xx.07.07	2,5 + 5,0 L/1000	2,4	2,5	2,3 + 5,0 L/1000	2,2	2,3	2,3 + 5,0 L/1000	2,2	2,3	4,5	120	500	1500

CMM ARES NT-L

07.05 SPECIFICATIONS

Models	T_1: 18 - 22 °C											Max. 3D Pos. Speed	Max. 3D Accel.
	PH10M/T/PH20-TP20			PH10M/T-TP200			PH10M/PH6M-SP25M						
	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	MPE_{TS} [4]	MPT_{TS} [5]		
	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[sec]	[mm/sec]	[mm/sec2]
xx.07.05	2,5 + 3,3 L/1000	2,4	2,5	2,3 + 3,3 L/1000	2,2	2,3	2,3 + 3,3 L/1000	2,2	2,3	4,6	120	500	1500

Models	T_2: 16 - 26 °C											Max. 3D Pos. Speed	Max. 3D Accel.
	PH10M/T/PH20-TP20			PH10M/T-TP200			PH10M/PH6M-SP25M						
	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	$MPE_{E0/150}$ [1]	MPL_{150} [2]	MPE(PFTU)[3]	MPE_{TS} [4]	MPT_{TS} [5]		
	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[µm]	[sec]	[mm/sec]	[mm/sec2]
xx.07.05	2,5 + 5,0 L/1000	2,4	2,5	2,3 + 5,0 L/1000	2,2	2,3	2,3 + 5,0 L/1000	2,2	2,3	4,6	120	500	1500