

Mitutoyo

PROMOTION!

STRATO-APEX 574

SECURE HIGH-ACCURACY 3D MEASUREMENT

VALID THROUGH MARCH 31, 2017

STRATO-APEX 574 PROMOTION



STRATO-Apex 574

A state-of-the-art CNC coordinate measuring machine that offers a rare blend of fast operation combined with highly accurate measurement.

The outstanding drive speed and acceleration support top scanning performance in a machine that also offers high-accuracy measuring in the 1 µm class.

For detailed information on the conditions, please contact your local Mitutoyo subsidiary!



Length measurement error

unit: µm

Standard	Probe used	Max. permissible length measurement error
ISO 10360-2: 2009	SP25M	$E_{0,MPE}=0.7+2.5L/1000$
		$E_{150,MPE}=0.7+2.5L/1000$

Repeatability

unit: µm

Standard	Probe used	Repeatability range of E_0
ISO 10360-2: 2009	SP25M	$R_{0,MPL}=0.7$

Specifications

Item	STRATO-Apex 574	
Measuring range	X	500 mm
	Y	700 mm
	Z	400 mm
Guide method	Air bearings on all axes (static pressure air bearings)	
Drive speed	CNC mode	Drive speed: From 8 to 300 mm/s for each axis (maximum combined speed: 519 mm/s)
		Measuring Speed 1 – 3 mm/s
Drive acceleration	1,330 mm/s ² for each axis (maximum combined acceleration: 2,310 mm/s ²)	
Measuring method	Linear encoder	
Resolution	0.00005 mm	
Work table	Material / Inserts	Granite / M8 x 1.25 mm
	Size (table surface)	676 x 1420 mm
Workpiece	Maximum height / Mass	560 mm / 180 kg
Machine mass (includes controller)	1530 kg	
Air supply	Pressure	0.4 MPa / 60 l/min (air source: at least 120 l/min)
Specified accuracy temperature environment	Temperature range	18 – 22 °C
	Temperature change	Per hour / 24h
	Temperature gradient	vertical/horizontal
		1.0 K / 2.0 K
		1.0 K/m

Single stylus form error

unit: µm

Standard	Probe used	Max. permissible single stylus form error
ISO 10360-5: 2010	SP25M	$P_{FTU,MPE}=0.7$

Scanning probing error

unit: µm

Standard	Probe used	Maximum permissible scanning probing error (Maximum permissible scanning test time) [sec]
ISO 10360-4: 2000	SP25M	$MPE_{THP}=1.3 (MPT_{THP}=40)$

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