

STRATO-APEX 700/900 Series

Series 355 - High accuracy CNC CMM

- High measurement accuracy and high-speed motion.
- High-performance scanning.
- Ultra high precision scales on each axis.



STRATO-Apex 9106

Accuracy is specified for the following environmental conditions for the CMM:*

Temperature range		18°C - 22°C
Temperature change	Per hour	1.0 K
	Per 24 hours	2.0 K
Temperature gradient	Vertical	1.0 K/m
	Horizontal	1.0 K/m

*When using temperature compensation system

Model	STRATO-Apex 776	STRATO-Apex 7106	STRATO-Apex 9106	STRATO-Apex 9166
No.	355-502	355-507	355-512	355-517
Range X x Y x Z axis	705 x 705 x 605 mm	705 x 1005 x 605 mm	905 x 1005 x 605 mm	905 x 1605 x 605 mm
Work table size	880 x 1420 mm	882 x 1720 mm	1082 x 1720 mm	1080 x 2320 mm
Workpiece	Max. height : 770 mm Max.loading : 500 kg	Max. height : 770 mm Max. loading : 800 kg	Max. height : 770 mm Max.loading : 800 kg	Max. height : 770 mm Max. loading : 1200 kg
Mass (main unit)	1895 kg	2180 kg	2410 kg	3085 kg

FALCIO-APEX 1600 Series

Series 355 - High accuracy CNC CMM



FALCIO-Apex 163012

Accuracy is specified for the following environmental conditions for the CMM:*

Temperature range		18°C - 22°C
Temperature change	Per hour	1.0 K
	Per 24 hours	2.0 K
Temperature gradient	Vertical	1.0 K/m
	Horizontal	1.0 K/m

*When using temperature compensation system

No.	Range X-axis	Range Y axis	Range Z axis	Work table size	Workpiece	Mass (main unit)
FALCIO-Apex 162012	1605 mm	2005 mm	1205 or 1505 mm ⁽¹⁾	1850 x 3280 mm ⁽¹⁾	Max. height : 1350 or 1650 mm Max. loading : 3500 kg	9500 or 9600 kg
FALCIO-Apex 163012	1605 mm	3005 mm	1205 or 1505 mm ⁽¹⁾	1850 x 4280 mm ⁽¹⁾	Max. height : 1350 or 1650 mm Max. loading : 4000 kg	14000 or 14050 kg
FALCIO-Apex 164012	1605 mm	4005 mm	1205 or 1505 mm ⁽¹⁾	1850 x 5280 mm ⁽¹⁾	Max. height : 1350 or 1650 mm Max. loading : 4500 kg	25000 or 25050 kg

⁽¹⁾ According to order N°

Specifications

Digital step Accuracy ⁽¹⁾	0,02 µm E _{0,MPE} : (0,9+0,25L/100)µm P _{FTU,MPE} : 0,9 µm MPE _{THP} : 1,8 µm (45s)
Work table material	Black granite
Work table tapped insert	M8 x 1.25 mm
Scales	High accuracy linear encoder
Guide system	Air bearing
Max. drive speed	519 mm/sec
Max. acceleration	0,15G

⁽¹⁾ The machine is equipped with a temperature compensation system, the effect of which is included in the accuracy specification according to ISO 10360-2 (2010) methods when using the SP25M probe system module SM25-1, with a ø 4x50 mm stylus.
L= measured length (mm).

Specifications

Digital step Accuracy ⁽¹⁾	0,1 µm E _{0,MPE} : (2,8+0,4L/100)µm or (3,3+0,45L/100)µm : Z-axis = 1505 mm P _{FTU,MPE} : 2,8 µm or 3,3 µm : Z-axis = 1505 mm MPE _{THP} : 2,8 µm (90s) or 3,5 µm (90s) : Z-axis = 1505 mm
Work table material	Black granite
Work table tapped insert	M8 x 1.25 mm
Scales	High accuracy linear encoder
Guide system	Air bearing
Max. drive speed	500 mm/sec
Max. acceleration	0.13G

⁽¹⁾ The machine is equipped with a temperature compensation system, the effect of which is included in the accuracy specification according to ISO 10360-2 (2010) methods when using the SP25M probe system module SM25-1, with a ø 4x50 mm stylus.
L= measured length (mm).