



STRATO-Apex 1600 Series 355-High Accuracy CNC CMM

Series 355

FEATURES

The FALCIO-Apex 1600 series is a large-sized CNC CMM developed for supporting quality evaluation and assembly of large parts. The scale systems on Mitutoyo high-precision models utilizes a high-performance linear encoder (manufactured by Mitutoyo), for detecting axis position. In addition, various technologies have been utilized in the structure, part processing, and assembly to provide high accuracy measurement. Floor vibration at the installation location, can be a source of variations in measured values. The auto leveling air spring vibration isolator is available as an option for FALCIO-Apex 1600 series. The vibration isolator insulates the main unit from floor vibrations and can quickly levels the CMM main unit, using a sensor that detects load fluctuations caused by axis movement of the CMM or workpiece loading. All STRATO-Apex high precision series CMM's are equipped with temperature compensation and therefore do not require a temperature controlled room. Accuracy is guaranteed within the range of 16 to 26°C.

† This test is not part of Mitutoyo America's standard A2LA accredited CMM calibration procedure and is quoted upon request.

Technical Data

Model	STRATO-Apex 162012
Order No.	355-592-1
Type	BRIDGE TYPE
Range	X-axis 62.99in1600mm <hr/> Y-axis 78.73in2000mm <hr/> Z-axis 47.24in1200mm

Resolution	0.0000019" (0.00005mm)
Guide Method	Air bearing on each axis
Speed	Maximum Drive Speed 3D 23.85"/s (606mm/s) <hr/> Maximum Acceleration 3D 0.13G (1,350mm/s²)
Work Table	Material-Granite <hr/> Size 72.83x129.13in 1850x3280mm <hr/> Tapped insert-M8x1.25mm
Work piece	Max.Load7,716lbs 3500kg <hr/> Max.Height 53.14in1350mm
Mass(incl. stand & controller)	24,582lbs 1115kg
Dimensions	110.43 x 145.07 x 170.87" (2805 x 3685 x 2805mm)