



NEWS

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Mitutoyo STRATO-Apex[®] CMM combines speed and accuracy for class-leading performance

(Aurora, IL) The new STRATO-Apex[®] Coordinate Measuring Machine from Mitutoyo America Corporation combines an advanced structure with newly-developed high-performance control and scanning technologies. The result is faster drive speeds, higher acceleration, and a CMM that is a productivity leader in the 1 μ m class.

The extremely rigid STRATO-Apex[®] CMM structure incorporates vibration-dampening, auto-leveling air springs and the newest compensation technology to support acceleration of 2,598mm/s² (3D), 0.23g (3D) and measuring scan speeds up to 3mm/s.

The STRATO-Apex[®] features digital servo system control loops for position, speed, and current. This makes it easy to implement various types of control algorithms. Additionally, the digital servo system has a wide dynamic range and is highly resistant to drift over time. The controller is located outside the main unit to mitigate the effect of generated heat.

The ultra-high accuracy measurement units installed on each axis of the STRATO-Apex[®] consist of high-performance reflective linear encoders that utilize ultra-high precision crystallized glass scales which exhibit virtually no thermal expansion (coefficient of linear expansion of $0.01 \times 10^{-5}/^{\circ}\text{C}$).

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The available software options enable the STRATO-Apex[®] to tackle a wide variety of measurement applications. Software packages include GEOPAK[®], a high-functionality general-purpose measurement program which is at the heart of MCOSMOS[®] (Mitutoyo Controlled Open System for Modular Operation Support) software. MCOSMOS[®] supports virtually every CAD format while providing routines for in-line measurement, data feedback, and process management. Additional software supported includes: CAT1000S[®] for freeform surface evaluation; CAT1000P[®], an offline teaching program; SCANPAK[®], for contour measurement; and a wide variety of programs supporting laser and vision probes.

Additionally, STRATO-Apex[®] supports MeasurLink STATMeasure Plus[®], Mitutoyo's proprietary statistical-processing and process-control program. MeasurLink STATMeasure Plus[®] performs statistical analysis and provides real-time display of measurement results for SPC applications. The program can also be linked to a higher-level network environment for enterprise-wide functionality.

Mitutoyo Corporation is the world's largest provider of measurement and inspection solutions offering the most complete selection of machines, sensors, systems and services with a line encompassing CMMs (Coordinate Measuring Machines), vision, form and finish measuring machines as well as precision tools and instruments, and metrology data management software.

Mitutoyo's nationwide network of Metrology Centers and support operations provides application, calibration, service, repair and educational programs to ensure that our 6,000+ metrology products will deliver measurement solutions for our customers throughout their lifetime. Contact Mitutoyo America Corporation, 965 Corporate Boulevard, Aurora, IL 60502. Phone: (630) 820-9666

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STRATO-Apex CMM - Pg. 3 of 3

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