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Press information

Ultimate in performance: The new ultra-accurate MITUTOYO LEGEX coordinate measuring machines

The new MITUTOYO LEGEX series constitutes the pinnacle of CNC coordinate measuring machine technology with an outstanding accuracy of no more than 0.28 micrometers. A new design, a new controller and an ultra-high resolution guarantee unmatched precision.

Neuss, March 2015. Premium manufacturer of dimensional measuring equipment MITUTOYO is proud of the latest development: The new LEGEX CMM series represents the limit in coordinate measuring accuracy available today, combined with a dynamic response that delivers the highest scanning performance. It is the ideal solution to examine small- to medium-sized components manufactured to the tightest engineering tolerances.

The new LEGEX series with its built-in thermal effect compensation delivers an impressive guaranteed measuring accuracy of 0.28 micrometers in combination with the MITUTOYO scanning probe MPP-310Q. It was newly designed from the elemental technological level upward. The engineers invested a vast amount of development work in order to eliminate all possible sources of measurement error. The fixed bridge/movable table design is optimal for highest possible measurement accuracy. The drive mechanism was improved in order to eliminate static as well as dynamic errors. An enormous resolution of 0.00001 millimetres, the new and fast UC400 controller and the application of an ultra-high precision linear encoder contribute to the LEGEX's high accuracy. The optional Air Server conditions the incoming air from the factory supply lines to deliver air at a practically constant temperature for the self-adjusting air bearings and guide ways in order to eliminate the potential source of environmental destabilization and to ensure maximum accuracy.

The new LEGEX CMMs grant fast execution of part programs by a high measuring speed and acceleration, which in turn makes for high throughput. In addition to 3D coordinate measurement it can adopt any type of probe system including touch-trigger, contact scanning, vision, laser scanning and surface finish sensors for complex 3D freeform surfaces.

MITUTOYO offers the new LEGEX series in four different measuring ranges between (X x Y x Z) 500 mm x 700 mm x 450 mm and 900 mm x 1000 mm x 600 mm with a maximum table load capability of up to 250, 500 or 800 kilograms.

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