

JAMES PRECISION ENGINEERING PTE LTD

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Microgage - DCC

Until Microgage, the cost of this level of 3D precision has been 3 to 10 times higher, and the choices have been limited to much larger machines. The need for the highest precision is often found in the smallest parts, yet there has been no choice but to buy a relatively huge CMM for these tasks, wasting money and valuable floor space. The right Mini CMM at the right time

Microgage is modeled on the World's most precise machine tools, having a rigid fixed bridge design made of steel. And like machine tools, the mechanical bearings and guide ways, along with motors and scales, are covered and protected for durability, stability, and life-long value. Bearings are classified within 120 nanometers in X and Y, and the entire structure is stress-relieved and thermally shielded inside and out, as well as vibration dampened. Accuracy is intrinsic: there is no software error correction, just pure physical precision. If high precision in small and medium sized parts is your game, Microgage is the answer made simple, whether in the lab or for production. In a world going micro, the Microgage tabletop CMM has arrived!



Measuring Range: **X 200mm (8") Y 300mm (12") Z 200mm (8")**
Overall Size: **X 510mm (20") Y 820mm (32.3") Z 890mm (35")**
Accuracy MPEp **2.6 μ m MPEe 2.9 + L/1000 μ m**
Accuracy per ANSI B89.4.10360.2-2008*

Utility Utility 100-240VAC, 50-60Hz 10A

*Based on Renishaw TP20 with 10mm stylus length, at 20°C (68°F) and 50% humidity.
Accuracy is mechanically intrinsic. Volumetric software compensation or error mapping is not used.

Standard Features

- Fixed bridge design
- High precision ball cages on hard and ground ways
- Non-contact optical scales on steel structure
- M6 Clamping inserts
- Ergonomically designed desk
- Rugged 3-axis joystick pendent
- Flat panel LCD Monitor
- GEOMET 101 DCC Software
- 1 Year Warranty
- Stainless steel moving table
- All bearings, ways and scales are covered
- .1 μ m (.000004") Resolution
- Built in PM1 with TP20 Probe kit (included)
- Granite sub base for stability
- Latest computer hardware
- Keyboard with GEOMET Keystroke Magic™ keylabels
- 1/2"Ø Calibration Sphere
- Online access to software upgrades

Options

- Renishaw TP-200 Probe
- SP-25 Scanning System with Renishaw controller
- Renishaw 2, 4, or 6 port stylus rack
- GEOMET 301
- Steel Base/Industrial Cabinet- houses controller and PC 32" L x 24" W x 35" H plus monitor shelf (deletes desk)
- Vibration isolation pads
- Turnkey Systems - have Helmel complete fixture design/build and part programming for your projects. We can deliver your new CMM ready to run.
- Integrate your Helmel CMM into a cell or production line with our I/O Option to communicate with automation and provide output for process control.