

affordable SuperPrecision...





Finally, the highest CMM accuracies are available to everyone.

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 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 has arrived!

Geomet's software simplicity, yet full with analytical tools.

Helmel's Geomet CMM software has been praised for 30 years as efficient, practical, and easy to learn and use. At the same time it provides all the tools you need to make thorough, competent dimensional evaluations of features and relationships. It's great for starters, and easy to expand to a larger pallet of tools when needed.

Specifications A measure-ready high accuracy system includes: 906-501 Model Number 128-801 150mm (6") 200mm (8") Measuring Range: Χ Υ 225mm (9") 300mm (12") · Tool steel part stage Ζ 125mm (5") 200mm (8") • Steel 0.1 µm encoder scales Overall Size: Χ 400mm (16") 510mm (20") · Sealed bearings and guideways Υ 600mm (24") 820mm (32.3") Ergonomic Desk 700mm (28") 890mm (35") Renishaw PM1/TP20 electronic touch probe with styli* 225 lbs (102kg) 260 lbs (118kg) Weight: · Current PC with LCD monitor 0.1 um (0.000004") 0.1 um (0.000004") Resolution: · Latest Windows® operating system Performance: · Delta Tau motion controller* Per ISO 10360-2: · Powerful Geomet 101 3D software, upgradable* MPEp: 2.6 µm **TBD** · Printed user guide and online help for Geomet MPEe: $2.9 + L/1000 \mu m$ **TBD** • Calibration sphere and iconic keyboard labels Per ANSI B89.4.1a: · GeoWidget training artifact Repeatability: 0.7 µm (0.00003") **TBD** 1 Year warranty Linear: 1.8 µm (0.00007") **TBD** * The Model 128-801 is offered with an optional scanning 5.8 µm (0.00023") **TBD** Volumetric: package that includes the Renishaw UCC2 controller, **Utility:** 100-240 VAC, 50-60 Hz, 10A SP25 probe, and 501 level Geomet. Many options are available to tailor your Microgage system to Based on a Renishaw PM1/TP20 with 10mm stylus length, at 20°C (68°f) and your exacting requirements, and custom modifications for 50% humidity. Accuracy is mechanically intrinsic without volumetrically

Contact Helmel for the full range of options, accessories and training



1 - (800) BEST-CMM (1-800-237-8266) • www.Helmel.com • www.Geomet-CMM-Software.com

Builders of CMMs Since 1973

special requirements are also possible.

compensating software.