

affordable SuperPrecision...

MG- Series

MICROGAGE

When Size Does Matter!



Small CMM with Ultra-High 3D Accuracy

Unheard of Value

Measure, Inspect, Scan, or Reverse-Engineer

Small Footprint

Durable and Reliable

Ultimate Laboratory Instrument

Ideal as an Inline-Line Production Gage

made in usa

HELMEL

Builders of Coordinate Measuring Machines since 1973

Finally, the highest CMM accuracies are available to everyone.

Until Microgage, the cost of this level of 3D precision has been several 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 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, Microgage has arrived!



TURNKEY systems offered with optional fixtures, programs, stylus changing, simple production menus, custom graphical output, and integration with SPC or automation.

Geomet Software simplicity, yet full with analytical tools.

Helmel's Geomet CMM software has been praised for more than 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 is great for starters, and easy to expand to a larger pallet of tools when needed.

A measure-ready high accuracy system includes:

- Tool steel part stage
- Steel 0.1µm encoder scales
- Ergonomic Desk
- Renishaw TP20 touch trigger probe with styli*
- PC and Flat Panel screen
- Latest Windows® operating system
- Delta Tau motion controller
- Powerful Geomet 101 3D software, upgradable*
- Printed user guide and online help for Geomet
- Calibration sphere and iconic keyboard labels
- GeoWidget training artifact
- 1 Year Warranty

*Inquire for probe system and software options. The Microgage is also offered with an optional scanning package that includes the Renishaw UCC2 Controller, SP25 probe, and Geomet 501.

Specifications:

Measuring Range:	X	200mm (8")
	Y	300mm (12")
	Z	200mm (8")
Overall Size:	X	510mm (20")
	Y	820mm (32.3")
	Z	890mm (35")
Weight:	118Kg (260 lbs.)	
Scale Resolution:	0.1µm (0.000004")	
Accuracy per ANSI B89.4.10360.2-2008*:	MPE _p	2.6 µm
	MPE _e	2.9+L/1000 µm
	Utility:	100-240VAC, 50-60 Hz, 10A

* Based on a 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.



Builders of CMMs since 1973

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