

# JAMES PRECISION ENGINEERING PTE LTD

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## Reliable CMM for shop floor and lab.

Our Microstar series of CMMs covers a wider size range from medium to large. These versatile units can be used in the lab or in the shop. The ways, bearings, scales and motors are enclosed or protected against harsh environments. All are available in manual or DCC, with several levels of software.

The Microstar is built on a substantial granite base for stability. The moving bridge construction provides the greatest flexibility, accuracy and structural integrity at a reasonable price. The design emphasizes powerful bearing ratios together with Helmel's tradition of precision mechanical bearing movement on hardened and ground steel ways. You do not need an air supply! Straight and square construction ensures intrinsic mechanical accuracy without reliance on volumetric error correcting software tricks. This makes calibration simple and saves you money in the future.

An optional Renishaw UCC2 Controller can be ordered to enhance capabilities in support of the PH20 Probe with "head-tap" mode or SP25 continuous scanning.

### Manual Microstar

delivers drift-free, stable and smooth motion in a system which retains machine geometry even when operated by hand; you do not need to be concerned with the settling time pneumatic systems need for accuracy. When needed to check fine features mechanical locks and fine adjustment give precise positioning. Add Geomet with its easy to use keyboard interface and you have a very efficient measuring center.

### Motorized Microstar

is state of the art systems with a powerful motion controller, latest PC, best servo electronics and easy to program Geomet DCC software. A unique drive system contributes to the reliability of the CMM. The joystick is enclosed in a durable cast aluminum housing. Geomet supports all motorized probes and stylus changers.



## Standard Models

Model Number	Travels X Y Z			Overall Size		
225 - 162	20" (500)	25" (625)	16" (400)	40" (1000)	45" (1400)	85" (2160)
325 - 202	25" (625)	30" (750)	20" (500)	46" (1170)	55" (1400)	97" (2465)
430 - 202	30" (750)	40" (1000)	20" (500)	51" (1295)	70" (1780)	97" (2465)
430 - 252	30" (750)	40" (1000)	25" (625)	51" (1295)	70" (1780)	107" (2720)
630 - 252	30" (750)	60" (1500)	25" (625)	51" (1550)	90" (2290)	107" (2720)
640 - 252	40" (1000)	60" (1500)	25" (625)	61" (1550)	96" (2440)	107" (2720)
840 - 252	40" (1000)	80" (2000)	25" (625)	61" (1550)	118" (3000)	107" (2720)
850-252	50" (1000)	80" (2000)	25" (625)	71" (1800)	118" (3000)	108" (2745)

## Standard Features

- Dual beam bridge design
- Precision bearings on hardened and ground ways
- .5µm (.000020") Resolution
- 3/8-16 clamping inserts
- Separate Electronic/Computer Cabinet
- Latest computer hardware
- Pull-out keyboard with GEOMET Keystroke Magic™ keylabels
- Training part and manual
- 1 Year Warranty
- Bearings, ways, drives and scales are covered
- Non-contact optical steel scales mounted on steel structure
- Granite base with stand
- Wired for Renishaw Touch Trigger Probes
- Rugged 3-axis joystick
- Flat panel LCD monitor
- GEOMET 101 DCC software
- 1" (25.4mm) calibration sphere
- Online access to software upgrades