

PRE 1621

Mitutoyo

Coordinate Measuring Machine
CRYSTA-KM 565



COORDINATE MEASURING MACHINES

Trusted performance – now even more refined.



CRYSTA-KM 565

MEASURING RANGE

X = 500 mm
Y = 600 mm
Z = 500 mm

PERFORMANCE

Accuracy (18° to 22 °C, ISO 10360-2:2009):
With MH20i-TP20: $E_{0,MPE} = (3.2 + 5L/1000) \mu\text{m}$



ENVIRONMENT

| | |
|------------------------------|--|
| Nominal temperature: | 20 °C |
| Allowable temperature range: | 18 – 22 °C temperature gradient: 0.5 °C/hour, 2 °C/day |
| Operating temperature: | 15 – 35 °C |
| Relative humidity: | 40 – 80 % (non-condensing) |
| Acceptable vibrations: | 1–10 Hz: 30 mm/s ² 10–20 Hz: 15 mm/s ² 20–100 Hz: 50 mm/s ² |



THE NEW MANUAL CMM FROM MITUTOYO

Whether you're stepping into coordinate metrology for the first time or looking for a flexible addition to your quality control process - our new manual coordinate measuring machine delivers reliable results without complexity.

Designed for ease of use, cost efficiency, and robust performance, it's the ideal solution for:

- Small and medium-sized enterprises (SMEs)
- Technical education and R&D
- Toolmaking, workshops, and prototype production
- Quality labs and inspection departments

No programming. No automation. Just pure measurement precision - in your hands. Built for environments where speed, accessibility, and precision matter most, this manual CMM offers a smart, entry-level approach to dimensional inspection across various industries - from mechanical engineering and automotive to medical technology.

Mitutoyo quality. Manual flexibility. Maximum control.

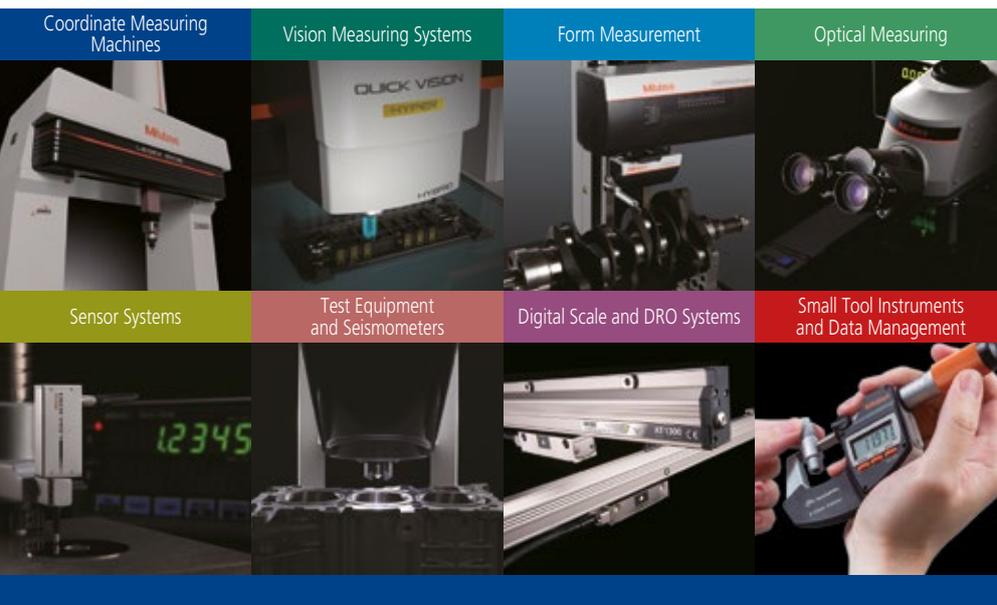
FEATURES AND BENEFITS

- Ultra-rigid alloy platform
- Rapid thermal diffusion through the frame
- FEM-optimized design ensures stiffness and acceleration
- One-piece granite base with M8 threaded inserts
- Rigid air bearings
- Pneumatic Z-axis counterbalance
- 0.1 μm resolution scales with dynamic signal processing
- Friction reducers with near-zero hysteresis
- Passive vibration damping
- Free access to measurement area

SUPPLY REQUIREMENTS

| | |
|-------------------------|----------------------------|
| Minimum air supply: | 5 bar (72 PSI) |
| Air consumption: | 90 NL/min (3 cfm) |
| Voltage: | 230 V 50 Hz or 110 V 60 Hz |
| Max. power consumption: | 10 A, 1200 W |





Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top-quality measuring products but one that also offers qualified support for the lifetime of the equipment backed up by comprehensive services, ensuring your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test, and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



Find additional product literature and our complete catalogue here.

www.mitutoyo.eu

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