

Prima C1

Prima C1 offers state of the art performance and cost-effective flexible gaging of large–volume workpieces for manufacturing support. The quality of design and unique mechanical structure, makes Prima C1 a high-performance Direct Computer Control, (DCC) system.

The Prima C1 is designed for easy operation within most operating conditions. Its open architecture design allows complete access and facilitates effortless material handling. A three-point worktable support design eliminates the need for costly foundations. The rugged construction is combined with a built-in linear thermal compensation system for reliable operation within production environments.

Prima C1 can be equipped with a high-performance CW43L servo wrist, laser sensors, continuous scanning probes, and an assortment of probes / styli changers. It is available in single arm configuration, and side-mounted to system base plate. Prima C1 can be equipped with the patented FIVE U-nique flexible fixturing system permitting program driven configuration for highly accurate part holding fixtures. The modular concept of FIVE U-nique allows accurate fixture construction to accommodate an unlimited number of work piece configurations.

- Standard Package
- Options
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Standard Package

- Prima C1 Single Arm Base Machine with Integral Cast Iron Measuring Plate
- Control System
- Probe Head PH10M
- TP6
- Lightweight Extension Kit (50-, 100-, and 200 mm)
- Styli Kit
- Calibration Sphere

- Computer System, Monitor, Printer, Table/Workstation
- PC-DMIS PRO
- DataPage R/T Statistical Process Control Software
- Installation and On-site Performance Verification
- On-line User's and Maintenance Manuals
- PC-DMIS PRO Software Training
- Scanning probe ready

Options

Probing Options

- CW43L Continuous Rotary Head
- Analog Scanning Sensor
- Metris Laser Scanning Sensor

Software Options

- Upgrade from PCDMIS PRO to PC-DMIS CAD++
- PC-DMIS Offline Packages, if ordered with a new machine:
 - PC-DMIS CAD Offline
 - PC-DMIS CAD++ Offline
- DCC Scanning Option (available with PRO and CAD)
- Display CAD Option
- PCDMIS Sheet Metal Option (available with PRO and CAD)
- Upgrade to PC-DMIS CAD Software
- Direct CAD Interfaces (DCIs)

Environmental Options

- Refrigerated Air Dryer
- Bellows Covers Kit

Machine Options

- Disengageable Drives
- Worktable Threaded Holes
- Worktable T Slots, 3 Total

Technical Information

Design features

- Open architecture design allows complete access and facilitates effortless material handling.
- Worktable support system eliminates the need for costly foundations.
- Rugged construction is combined with a built-in linear thermal compensation system for reliable operation within production environments.

Environment

- Nominal Temperature: 20 °C ± 4.0 °C (68 °F ±7.2 °F)

Performance Data

- Brown & Sharpe tests and evaluates CMM products using the American standard ASME B89 and international standard, ISO 10360-2, and ISO 10360-4.

- Please visit the [About ISO Standards](#) page for ISO Standard information.
- To request performance information on this model [Click Here](#)

Sizes

The Prima C1 is available in the following sizes:

- 20.12.16
- 20.14.16
- 30.14.16
- 30.16.21
- 40.16.21