



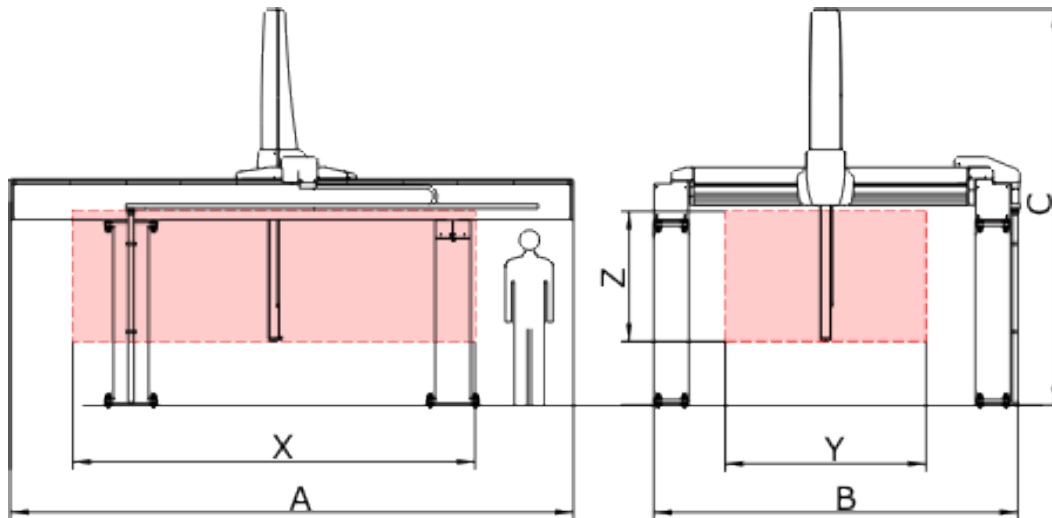
Coord3 DCC CMM

Model : Athena

The Athena by Coord3 is an accurate solution for measuring large complex shapes. This machine is also capable of free form, and continuous scanning. The X axis utilizes a combination of air bearings and high accuracy linear guideways. This design achieves reliability and high performance with a simple mechanical architecture.

- | | |
|-----------------|---------------|
| 1. Style : | DCC |
| 2. Probe : | PH10 |
| 3. Controller : | Renishaw UCC2 |
| 4. Software : | CAPPS-DMIS |
| 5. Frame Type : | Gantry |
| 6. Resolution : | 6.0 um |

Machine Dimensions



ATHENA Model	Strokes (mm)			Overall dimensions (mm)		
	X	Y	Z	A	B	C
30-20-10	3000	2000	1000	4600	3690	3650
30-20-15	3000	2000	1500	4600	3690	4150
30-25-10	3000	2500	1000	4600	4190	3650
30-25-15	3000	2500	1500	4600	4190	4150
40-20-10	4000	2000	1000	5600	3690	3650
40-20-15	4000	2000	1500	5600	3690	4150
40-25-10	4000	2500	1000	5600	4190	3650
40-25-15	4000	2500	1500	5600	4190	4150
50-20-10	5000	2000	1000	6600	3690	3650
50-20-15	5000	2000	1500	6600	3690	4150
50-25-10	5000	2500	1000	6600	4190	3650
50-25-15	5000	2500	1500	6600	4190	4150



Technical Specifications

STRUCTURE

CNC Coordinate Measuring Machine, Gantry type architecture

Guideways:

X axis: on stabilized welded steel beams with full covers
Y/Z axis: micromachined anodized light alloy extrusion with full covers

Drive Method:

X axis: rack & pinion
Y axis: rack & pinion
Z axis: zero hysteresis friction drive

Sliding System:

Air bearings on all axes

Motion Control:

DC servomotor on all axes

Thermal Compensation:

Multi-sensors temperature compensation system for part and scale. (by request)

Measuring System:

PROBING SYSTEM

Manual Probe Head:

MIH, MH20, MH20i

Motorized Probe Head:

PH10T, PH10M, PH10MQ

Point-to-Point Trigger Probe:

TP2, TP20, TP200

Analog Contact Probe:

SP25

Laser Probe:

Metris LC/XC series (qualification sphere included)

Stylus and Probe Changer:

Fully automated stylus and probe changers

CONTROL UNIT

Terminal Unit is used by the operator to manually control the motorized measuring machine (ArKey)
The controller feature the continuous interpolation of axes motion for cycle time optimization

Optional

-Index/continuous Rotary Table

ENVIRONMENT

Temperature Range for Metrological Specification:

Max. gradient per hour: 1.0 *C/h
Max. gradient per day: 2.0 *C/24h
Max. gradient in space: 1.0 *C/m

Acceptable Vibrations:

(vibration acceleration between peaks)
30mm/s from 1 to 10 Hz
15mm/s from 10 to 20 Hz
50mm/s from 20 to 100 Hz

AIR SUPPLY

Air Consumption:

150 NI/min

Minimum Air Supply:

5.5 Bar

POWER SUPPLY

Power Supply Voltage:

230 V +/- 10%; 50 Hz +/- 2% (monofase)

Maximum Power Consumption:

10A 1400 W

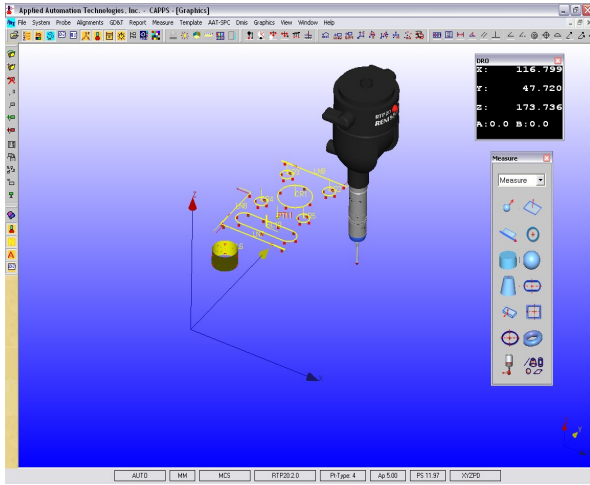
OPTIONS

Multi-wire cable
PC & Printer
Training
Installation

WARRANTY

12 months from the date of acceptance test or a maximum of 15 months from date of shipment

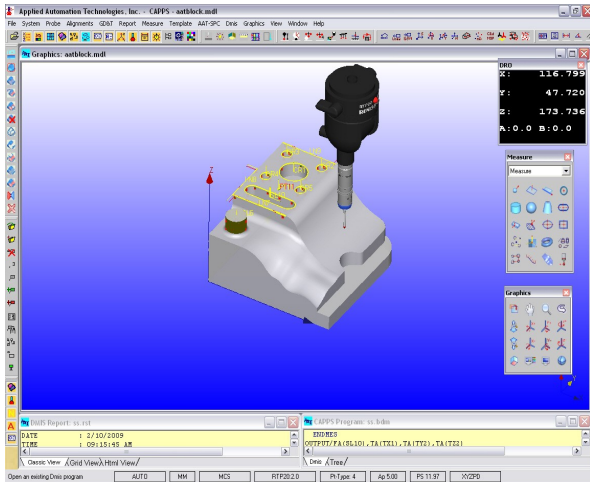
CAPPS Powerfully Simple



Capps Powerfully Simple is the least expensive measurement software with complete geometrical measuring capabilities.

- Complete measurement and GD&T
- Complete construction Methods
- Easy alignment and calibration
- Easy to learn 3D graphics menus and toolbars
- Measurements displayed in 3D
- Easy CAD like 3D graphics with user interaction
- Flexible reporting options with spread sheet like editing
- Scalable digital readout
- DMIS input/output options
- Easy upgrade to Basic Plus or Advanced

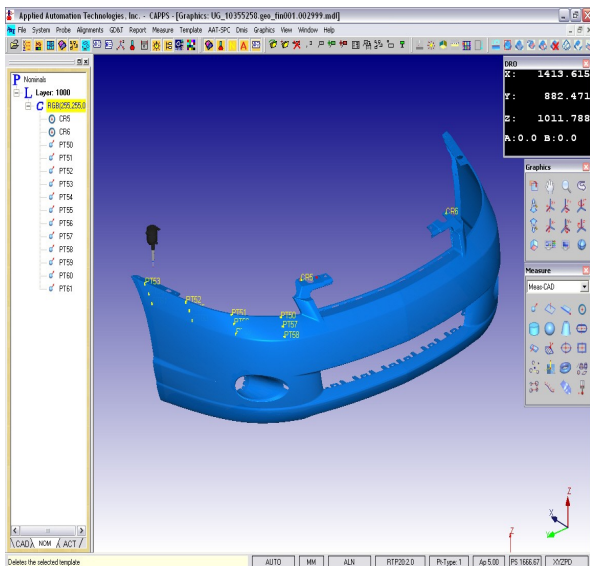
CAPPS Basic Plus



Capps Basic Plus is a complete measurement software with CAD capability for geometrical features.

- Native DMIS programming
- Automatic Probe Calibrations
- MGP CAD alignment macros
- Import and display CAD models with wireframe elements
- Extraction of Nominals from wireframe or create from blue prints
- Adaptive curve scanning
- Reverse engineering to CAD
- Easy upgrade to CAPPS-DMIS Advanced

CAPPS Advanced



Capps Advanced is a CAD based metrology software with easy to use graphics. Complete control over mathematical model, easy and precise alignment methods, automatic feature measurements and geometry recognition. Parts can be measured with or without CAD models automatically creating DMIS programs. Features of our Advanced level software include:

- CAD master model at the CMM
- Automatic collision avoidance
- Auto Probe Calibration
- Advanced CAD operations for surface and curve manipulation
- Automatic probe path generation routines for all geometric and sheet-metal features
- Automatic feature extraction from a CAD model
- Advanced Fixtureless alignment methods with CAD