



# COORD<sup>3</sup>

## ARES The Value CMM



## ARES

### The Value CMM

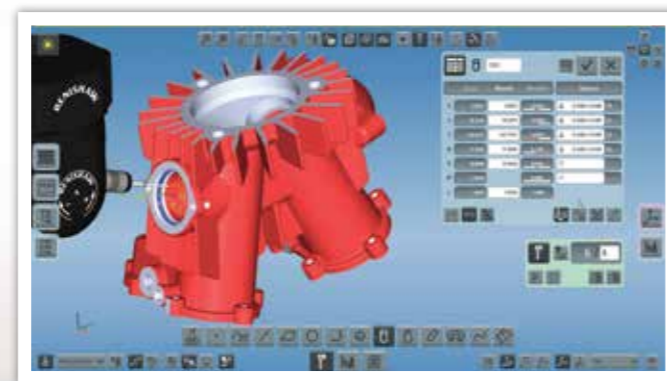
The COORD3 ARES series of small and medium volume bridge CMM offers a high performance dimensional inspection platform for general purpose metrology applications.

ARES CMMs have a lower overall height compared to most CMM brands. They are also available with a low profile support stand to reduce the overall height by an additional 100mm. This is ideal for inspection laboratories with low ceilings.

ARES CMMs can be supplied in manual or CNC configurations, with the option of upgrading a manual unit to a full CNC version at a later date. Two performance levels are available: ARES for standard applications and ARES NT for superior performance requirements.

The ARES NT model has a silicon carbide Z-axis column that increases the overall stiffness of the measuring platform. This outstanding CMM system for high accuracy metrology applications utilizes the full range of Renishaw scanning technologies.

ARES is available in bridge widths of 500mm and 700mm. It is the ideal job shop CMM.



## TouchDMIS

One Touch Measurement

ARES CMMs come standard with TouchDMIS metrology software. TouchDMIS is a fully functional CMM software package with seamless CAD integration that can be learned in just a few hours.

The simple interface of TouchDMIS has been ergonomically designed to provide maximum productivity for both novice and expert CMM users. TouchDMIS incorporates floating toolbars to maximize the graphics area, with the main software functionality accessed via eight large function buttons. TouchDMIS has no drop-down menus, no stacked toolbars, and all functionality is easily accessed with a single touch.

### Features & Benefits

- Ultra-rigid alloy CMM frame provides maximum stiffness for scanning applications
- Rapid thermal diffusion structure when environment conditions change
- FEA designed bridge beam extrusion provides optimum moment of inertia for minimum deflection at high accelerations
- M8 threaded table inserts in generous grid pattern
- Rigid air bearings to all axes with wide bearing spread ratios
- Pneumatic Z-axis counter balance
- Free-floating 0.1 micron resolution measuring scales incorporating dynamic signal processing
- Full digital motion control with probe path blending for optimized performance
- Zero hysteresis friction drives on all axes
- Passive vibration damping system isolates external vibrations
- Open access to measuring area from all sides
- Maximum positioning speed: 517mm/sec
- Maximum acceleration: 1730mm/sec<sup>2</sup>

### Standard Features of ARES NT

- Silicon carbide Z-axis column enhancing further stiffness
- Optional Renishaw TONiC 0.1 micron resolution measuring scales
- Dynamic wireless thermal compensation system including part temperature sensor

### Environment

- Nominal temperature: 20°C
- Metrological temperature range: 18 - 22°C
- Temperature gradient: 0.5°C/hour - 2°C/day - 0.5°C/meter
- Operating temperature range: 15 - 35°C
- Relative humidity: 40 - 80% (non-condensing)
- Acceptable vibrations: 30mm/ sec<sup>2</sup> 1-10Hz | 15mm/ sec<sup>2</sup> 10-20Hz | 50mm/ sec<sup>2</sup> 20-100Hz

### Services

- Minimum air supply: 5 Bar
- Air consumption: 100NI/min
- Power supply voltage: 230V 50Hz or 110V 60Hz (+/- 2% single phase)
- Maximum power consumption: 10A 1200W (1600W on larger models)

### Performance Data

- All COORD3 CMM products are factory validated for accuracy using the ISO10360 standard.

### Options

- Laser scanning sensor
- Dynamic wireless thermal compensation of machine and part
- Pneumatic vibration isolation system
- Modular part fixturing kits

### Models & Sizes

COORD3 ARES CMMs are available with the following measuring strokes (X.Y.Z mm):

7.5.5

7.7.5 / 10.7.5 / 12.7.5

7.7.7 / 10.7.7 / 12.7.7

13.9.07 / 16.9.07 / 19.9.7



Manual ARES CMM



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## About Perceptron:

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Perceptron (NASDAQ: PRCP) supplies a comprehensive range of automated industrial metrology products and solutions to manufacturing organizations for dimensional gauging, dimensional inspection and 3D scanning. Products include 3D machine vision solutions, robot guidance systems, coordinate measuring machines, laser scanners and advanced analysis software. Globally, automotive, aerospace and other manufacturing companies rely on Perceptron's metrology solutions to assist in managing their complex manufacturing processes to improve quality, shorten product launch times and reduce costs. More than 900 systems, 12,000 Perceptron measuring sensors and over 3,000 COORD3 coordinate measuring machines are in active daily use worldwide. Headquartered in Plymouth, Michigan, USA, Perceptron operates worldwide with subsidiary operations in Brazil, China, Czech Republic, France, Germany, India, Italy, Japan, Singapore, Slovakia, Spain, and the UK.

Your  
**Metrology**  
is our  
**Focus**

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