

### Your 5-Axis CMM Experts

Advanced Industrial Measurement Systems (AIMS) is an OEM of Revolution® CMMs, driven by Renishaw Technology. AIMS offers a wide range of measurement and inspection equipment and services for the manufacturing industry, including its exclusive Revolution® line of coordinate measurement machines.

The Revolution® line of CMMs utilizes the advanced technology of Renishaw controllers and probes, teamed with Modus software and tied together with training and support from friendly, knowledgeable staff experts. This creates an unbeatable solution for our customers. AIMS also provides custom programming, software training and part inspection on a contract basis.

#### SUPERIOR SUPPORT AND SERVICE

AIMS offers a wide range of services for the life of your equipment. From consultation and product selection to installation, training and responsive service support, we have you covered.

#### REVOLUTION® SERIES OF CMMs

We have teamed with Renishaw to create a superior CMM product for the manufacturing industry that's competitively priced. Renishaw's various technologies - controller, probing systems, software, retrofits and other technologies are unparalleled in the industry.



AIMS 20,000 sq. ft. headquarters also houses training and assembly facilities.



# AIMS

#### AIMS SALES NETWORK

We have a network of regional sales managers who work with distributors in your area to help you find and maintain the right equipment.

#### AIMS SERVICE NETWORK

Through our extensive service network we can:

- install and calibrate many makes of new CMMs
- retrofit existing CMMs with Renishaw controllers & software
- offer warranty service and superior customer support

#### AIMS SOFTWARE TRAINING

We provide both onsite Renishaw CMM software training as well as custom software training in our in-house training facilities - all tailored to *your* specific needs.

QUALITY SYSTEM  
CERTIFIED BY DNV  
=ISO 9001/2000=

All specifications listed in this brochure are subject to change without notice

# Revolution®

Powered by Renishaw

# AIMS

ADVANCED INDUSTRIAL MEASUREMENT SYSTEMS

# Revolution®

## HARD BEARING SHOP FLOOR CMM

### The Revolution® is on the Move!



Revolution® HB Series delivers true 5-axis measurement anywhere you want it!

# AIMS

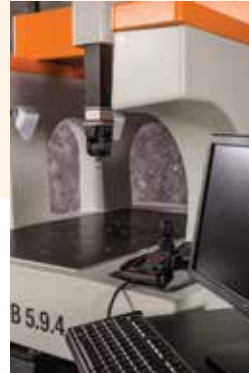
Your 5-Axis CMM Experts

## 5-AXIS FOR THE SHOP FLOOR



The Revolution® HB Shop Floor CMM is the only mobile 5-axis shop floor CMM on the market. Built in our Dayton, Ohio facilities, it features a durable, roll-around base and sealed components that provide the ultimate in stable metrology performance even in the midst of a chaotic shop floor.

- Shop-hardened design
  - Polymer cast base for thermal stability
  - Built-in vibration resistance
    - No shop air required
    - Uses standard 110 volt power
    - Monitor installed on left or right
    - Optional temperature compensation
  - Heavy duty locking castors
  - Internal wiring eliminates snags
  - Available in two sizes: 5.9.4 and 8.10.6



# Revolution®

### Powered by Renishaw

PH20's unique 5-axis continuous measurement system is recognized as one of the best CMM technology systems available.

- 3 times faster than conventional systems
- Improved accuracy and repeatability
- Eliminates time spent indexing the head
- Minimizes stylus changes
- Faster calibration



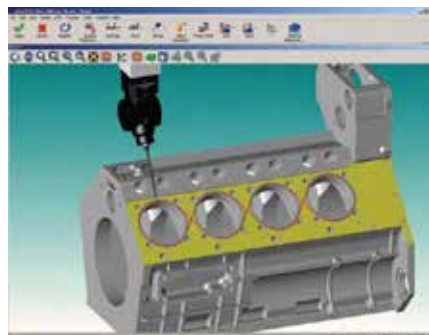
## AIMS TOTAL SUPPORT

Our experienced service technicians offer complete support. They can install and calibrate new Revolution® CMMs, retrofit existing CMMs with Renishaw controllers and software, offer warranty service and provide superior customer support.

- Turnkey Systems
- Complete Training Packages
  - On Site
  - At AIMS Training Center
  - Customized Training
- Installation and Calibration
- Contract Programming
- Retrofits
- Repair By Exchange (RBE)
- Nationwide Service Network



## MODUS SOFTWARE



Renishaw's MODUS software includes a configurable user interface to allow native DMIS programs to be developed offline utilizing geometry, embedded dimensions and tolerance data from CAD.

- True 5-axis measurement programs
- Full simulation and crash detection
- Programs arrive ready to run
- Little or no prove-out time required
- Large variety of report formats

## TECHNICAL CHARACTERISTICS

### STRUCTURE

Coordinate Measuring Machine (CMM) formed from advanced composite materials  
Guideways: Hardened machine tool ways  
Drive Method: Precision lead screw drives  
Sliding System: Precision mechanical bearings  
Motion Control: DC servo motor on all axes  
Thermal Compensation: Optional multi-sensor temperature compensation system  
Measuring System: Linear scales, System Resolution: 0.1  $\mu$ m

### 5-AXIS TECHNOLOGY

#### Renishaw PH20 5-Axis Touch Trigger System

Minimizes CMM Motion and Associated Dynamic Errors  
Infinite Positioning for Reduced Transition Time  
Rapid Calibration with All Positions Inferred  
Standard M2 Styli

### CONVENTIONAL PROBE SYSTEMS

Manual or motorized Probe Heads  
Point-to-point Trigger Probe  
Analog Scanning Probe

### STYLUS & PROBE CHANGER

Fully automated stylus and probe changers

### CONTROL UNIT

Renishaw UCC Controller and Hand Held Teach Pendant

### OPTION

Process Control Light Stack

### AIR SUPPLY

No Air Required

### POWER SUPPLY

Standard 110V Power

### ENVIRONMENT

Mean Significant Temperature Change  $\pm 2^\circ$  C ( $\pm 3.6^\circ$  F)  
Temperature Range  $15^\circ$  -  $40^\circ$  C ( $59$  -  $104^\circ$  F)  
Floor Vibration .002mm P-P, 5- 50 Hz

### WARRANTY

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



 **AIMS** ADVANCED INDUSTRIAL MEASUREMENT SYSTEMS

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