



PROVEN ACCURACY  
SUPERIOR FLEXIBILITY  
UNMATCHED VALUE

**AccuFLEX**  
Coordinate Measuring Machines







FOR OVER 35 YEARS, MADE TO MEASURE HAS BEEN MEETING THE NEEDS OF CUSTOMERS WITH OUR CMM SOLUTIONS.



### **Our Approach Sets Us Apart**

What sets us apart is that we not only construct coordinate measuring machines, but our metrologists use the same coordinate measuring machines every day to measure parts for our clients.

We know first-hand the accuracy, speed, and flexibility required to inspect high-volume, tight-tolerances and complex geometries. That's what we built into every AccuFLEX series CMM.

You'll find with our new, enhanced line of AccuFLEX CMMs, the possibilities are unlimited.

### **CMMs Designed for Every Industry**

Our line of AccuFLEX CMMs ensures a high level of accuracy and unmatched flexibility while providing the best value in the market.

Made to Measure's comprehensive portfolio includes bridge, shop floor, horizontal and gantry models to serve a wide range of industries and applications.

Every CMM comes with either Modus or Verisurf software. Where a specific software is preferred, the AccuFLEX series open-platform allows virtually any software to be utilized.

AccuFLEX is powered by Renishaw controllers and amplifiers, permitting any of Renishaw's probe technology to be operated including the 3-Axis PH10, 5-Axis PH20 and REVO-2 system. Nikon's L100 and LC15DX laser scanners can also be integrated into any AccuFLEX CMM system.

This flexibility and accuracy create the ideal configuration at a very affordable price, resulting in the lowest total cost of ownership.



Accredited Laboratory for Calibration & Dimensional Inspection





OUR ACCUFLEX SERIES OF CMMS ARE CONSTRUCTED IN THE UNITED STATES FROM THE FINEST COMPONENTS TO MEET THE HIGHEST STANDARDS AND PROVIDE THE BEST IN ACCURACY, SPEED, AND REPEATABILITY.

**Constructed for Exceptional Results**

AccuFLEX CMMs feature:

- All **granite construction** offering unwavering performance and thermal stability.<sup>1</sup>
- **Durable Renishaw gold-plated scales**, with +/- .012  $\mu\text{m/mm}$  linearity over 60mm, give superior dependability and provide repeatability as low as 1.9  $\mu\text{m}$ .
- **Renishaw controllers** provide compatibility for all Renishaw sensors and probe heads and are I++ DME compliant, allowing integration with most CMM software.
- Your choice of any **Renishaw probe head technology** including the 3-axis PH10, 5-axis PH20, and the revolutionary REVO-2 probe head system.
- Gather non-contact measurements at the highest accuracy level with **Nikon's L100 and LC15DX CMM** laser scanners.
- **Tsunami's Air Filtration System** eliminates virtually all contaminants from your compressed air system, supplying reduced down time and longer CMM lifespan.
- **Hard coat anodized, diamond-lapped**, aluminum cylindrical air bearings deliver the ultimate in stability and speed.<sup>2</sup>
- Powerful desktop computer with the **newest Intel processor** provides the best in speed and performance.
- **Custom computer workstation** to accommodate all your inspection and programming needs.

<sup>1</sup> Excluding the AccuFLEX atlas and enduro CMMs.

<sup>2</sup> Not available on the AccuFLEX enduro CMM.

**Expect a Superior Experience**

Made to Measure not only delivers an exceptional CMM, but also an unrivaled, superior turnkey experience.

**Financing**

Made to Measure partners with several industry-leading financing companies to offer financing options that best fit your requirements.

**Shipping**

Whether your company is in the United States or overseas, Made to Measure will coordinate shipment of your CMM, guaranteeing the utmost care, and a safe and swift delivery.

**Installation and Calibration**

Upon delivery, every CMM is professionally installed and calibrated to ISO 10360 standards by a Made to Measure CMM Service Engineer to ensure your equipment performs optimally.<sup>1</sup>

**Training & Consultation**

A complimentary three-day software and CMM training session is offered at our Chicago area training center or online.<sup>2</sup> Metrology training and consultation are also available to elevate any CMM operator's or programmer's proficiency.

**Warranty**

Made to Measure offers one of the best warranties in the industry. Every new CMM installed comes with a 24-month all-system warranty from the date of installation.

**Customer Support**

Our U.S. based customer support team is readily available, guaranteeing a quick response and industry leading expertise.

<sup>1</sup> Installation expenses do not include machine placement and/or rigging.

<sup>2</sup> Travel expenses not included. Valid for one year.





# AccuFLEX elite

THE FLEXIBILITY AND ACCURACY THAT IS IDEAL FOR JOB SHOP REQUIREMENTS.

## Bridge CMM

The AccuFLEX elite is our traditional bridge-style CMM. This cost-efficient machine provides uncompromising accuracy and versatility. It will be your company's workhorse.

- All granite construction for stable performance.
- Zero hysteresis (zero-drag) belt drive for smooth repeatable movement.
- Choice of 3-Axis PH10, 5-Axis PH20, REVO-2, and scanning probe options.
- Open-platform accepts any CMM software.

## Industries Best Served

- Medical
- Aerospace
- Plastics
- Machining

AccuFLEX elite Specifications	X	Y	Z	T1 Accuracy MPE <sub>e</sub> (18°C - 22°C)
<b>Measuring Range &amp; Accuracy</b>	500/600mm	600/800/1000mm	400/500mm	2.2 + L/350 μm
	800mm	1000/1500/2100mm	600mm	2.2 + L/300 μm
	1000mm	1200/1500/2000mm	800mm	2.5 + L/300 μm
	1000mm	1500mm	1000mm	2.9 + L/300 μm
	1200mm	1500/2000mm	800/1000mm	2.9 + L/300 μm
	1200mm	2500mm	1200mm	3.5 + L/250 μm
	1500mm	2000mm	1000mm	3.2 + L/250 μm
	1500mm	2500/3500mm	1200/1400mm	3.5 + L/250 μm
<b>Resolution</b>	0.1 μm			
<b>Mode of Operation</b>	Motorized/CNC			
<b>Guidance</b>	Air Bearings On All Axes			
<b>Max. 3D Positioning Speed</b>	700 mm/sec			
<b>Max. 3D Acceleration</b>	1200 mm/sec <sup>2</sup>			





# AccuFLEX enduro

SHOP FLOOR  
DURABILITY AND  
ECONOMY.

## Production Floor CMM

The AccuFLEX enduro is a ruggedly designed CMM built to withstand the harsh conditions of the shop floor. Thanks to its compact size, it can be easily positioned next to your production line for added convenience and efficiency. And this operator friendly CMM does not require a trained metrologist to run it.

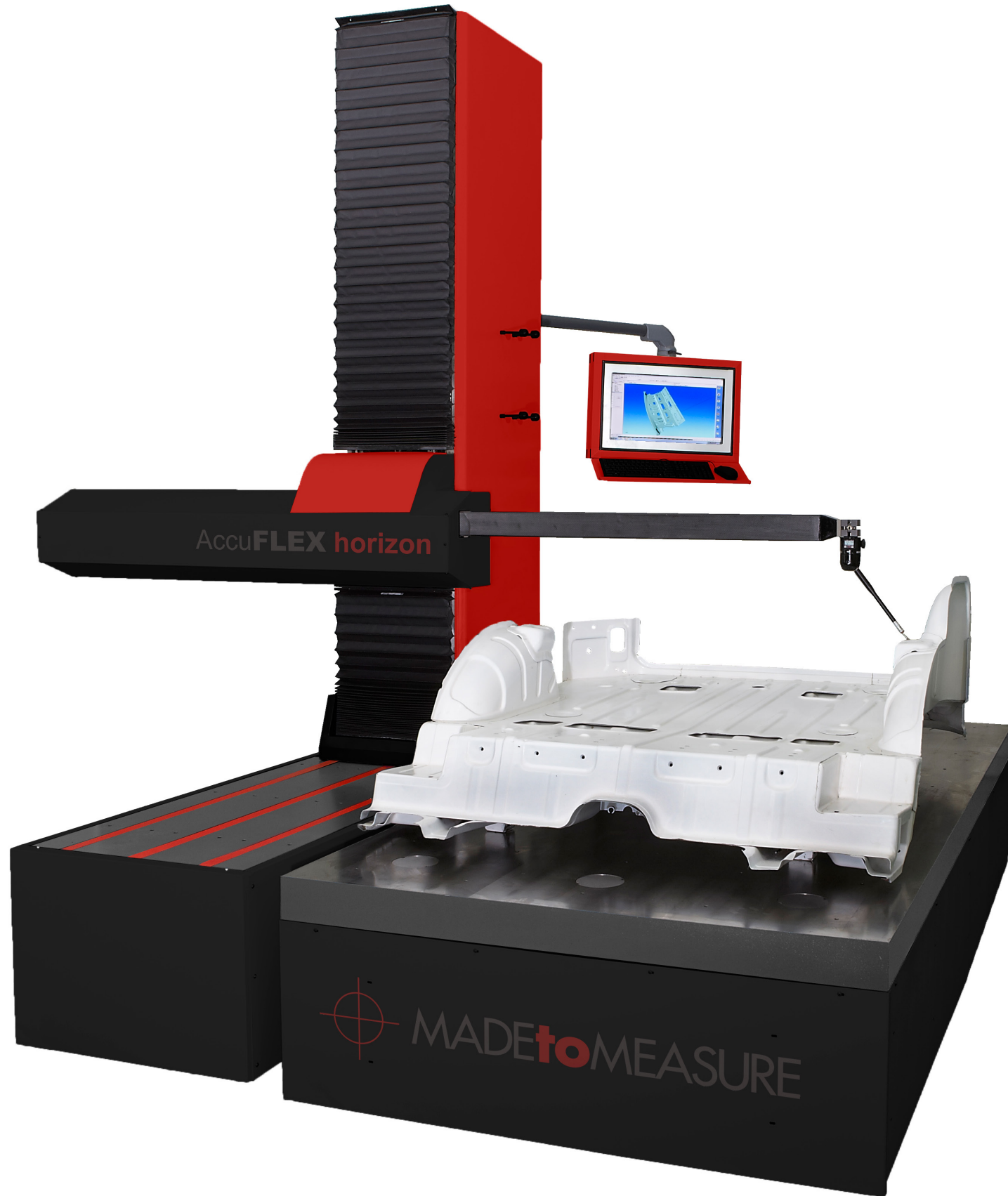
- No dedicated air supply required.
- Automatic temperature compensation.
- Choice of most Renishaw probe heads including 3-axis PH10, 5-axis PH20, PH6M and scanning probe options.
- Open-platform accepts any CMM software.

## Industries Best Served

- Manufacturing
- Fabrication

AccuFLEX enduro Specifications	X	Y	Z	T1 Accuracy MPEe (18°C - 22°C)
<b>Measuring Range &amp; Accuracy</b>	700mm	600mm	500mm	2.5+L/300
<b>Resolution</b>	0.1 μm			
<b>Mode of Operation</b>	Motorized/CNC			
<b>Guidance</b>	High Precision Linear Guideways			
<b>Max. 3D Positioning Speed</b>	700 mm/sec			
<b>Max. 3D Acceleration</b>	1200 mm/sec <sup>2</sup>			





# AccuFLEX horizon

HORIZONTAL  
ARM CMM FOR  
MEASURING  
LONG/TALL  
COMPONENTS  
AND SUB  
ASSEMBLIES.

## Horizontal CMM

The AccuFLEX horizon is our horizontal arm CMM, ideal for measuring parts that are exceptionally long or tall including body-in-white components and sub-assemblies. This flexible machine is constructed of a granite base, spring balanced Z-axis and an advanced composite Y-axis for stability. You will discover it is one of the best-value CMMs on the market today.

- Available in single or dual arm configurations.
- Suitable for the shop floor environment
- Choice of 3-Axis PH10, 5-Axis PH20, REVO-2, and scanning probe options.
- Open-platform accepts any CMM software.

## Industries Best Served

- Automotive
- Large Assembly
- Sheet Metal Fabricators

AccuFLEX horizon Specifications	X	Y	Z	T1 Accuracy MPE <sub>e</sub> (18°C - 22°C)
<b>Measuring Range and Accuracy</b>	2000-10000mm	1200-1600mm	1600-2500mm	20 + L/50 ≤ 50 μm
<b>Resolution</b>	0.5 μm			
<b>Mode of Operation</b>	Motorized/CNC			
<b>Guidance</b>	High Precision Linear Guideways			
<b>Max. 3D Positioning Speed</b>	700 mm/sec			
<b>Max. 3D Acceleration</b>	1200 mm/sec <sup>2</sup>			





# AccuFLEX atlas

OPEN FORMAT  
CMM FOR  
LARGE/HEAVY  
PARTS.

## Gantry CMM

The AccuFLEX atlas has an open-access structure, which also enables easy inspection of large parts. This gantry CMM can measure huge volumes of large or heavy parts without compromising accuracy thanks to its high precision bearing in all axes.

- High precision air bearings.
- Zero hysteresis (zero-drag) belt drive for smooth repeatable movement.
- Choice of 3-Axis PH10, 5-Axis PH20, REVO-2, and scanning probe options.
- Open-platform accepts any CMM software.

## Industries Best Served

- Automotive
- Aerospace
- Large Component Manufacturing

AccuFLEX atlas Specifications	X	Y	Z	T1 Accuracy MPE (18°C - 22°C)
<b>Measuring Range and Accuracy</b>	1500-5000mm	3000-10000mm	1500-3000mm	5 + L/350 μm
<b>Resolution</b>	0.1 μm			
<b>Mode of Operation</b>	CNC			
<b>Guidance</b>	High Precision Linear Guideways			
<b>Max. 3D Positioning Speed</b>	250 mm/sec			
<b>Max. 3D Acceleration</b>	430 mm/sec <sup>2</sup>			





WE OFFER A  
FULL SUITE OF  
METROLOGY  
PRODUCTS  
AND SERVICES.

Everyday, our AUKOM Certified Metrologists produce professional dimensional inspection reports for our clients representing all industries. Made to Measure also offers a complete suite of metrology products and services to support those clients, which include:

### Metrology Services

- Dimensional Inspection – We specialize in FAI's, full and partial layouts, PPAP support and large scale inspections.
- CMM Programming – Our metrologists produce offline/onsite programming for PC-DMIS, Modus, MCOSMOS, Calypso, CMM Manager, Verisurf and many others.
- Reverse Engineering – We evaluate and measure components to develop the drawings and 3D models.
- 3D Scanning – We offer portable laser scanning for large parts, CMM-mounted laser scanning for extra precision and CT scanning to capture internal features.
- Part Sorting – We provide high-volume, metrology-class inspection and sorting.

### CMM Equipment

- Rebuilt CMMs – Get the latest technology without spending an excessive amount on a new frame.
- CMM Software – We offer several types of innovative software to enhance your team's capabilities and CMM's performance.
- CMM Upgrades – Update your existing CMM with a new probe head, controller, or software to enhance your inspection abilities.
- CMM Supplies – We offer numerous support tools for your CMM including styli, racks, fixturing, dryers, filters and much more.

### CMM Services

- CMM Calibration – Our service engineers conduct ISO 10360 calibration services traceable to NIST, ensuring optimal performance.
- Preventative Maintenance – Annually, we inspect and clean your CMM to prevent avoidable malfunctions.
- Relocation – Our relocation service includes decommissioning, delivery, commissioning, and calibration so you can continue inspecting as before.
- Issue Resolution/Repairs – System issues are resolved quickly by our CMM Service Engineers remotely or onsite, when necessary.

### Education and Development

- Training – Our trainers deliver AUKOM metrology certification (metrology best practices), blueprint reading, GD&T (geometric dimensioning and tolerancing), and CMM software training onsite or at our Chicago-area training center.
- Staffing and Consulting – Receive on-site staffing, blueprint review, inspection process consultation and custom-designed turn-key solutions from ASME GDTP and AUKOM Certified Metrologists.



Official AUKOM Metrology Training Provider



ASME GDTP Certified Professionals



Compliant Management of Defense-Related Data





WE ONLY  
PARTNER WITH  
THE BEST.



Our partners deliver robust and innovative solutions, along with a level of expertise that enables Made to Measure to produce CMMs that deliver speed, outstanding measurement accuracy and repeatedly.

Our network of best-in-class partners include:

- **Renishaw**
- **Tsunami**
- **Verisurf**
- **Nikon**
- **QX Soft/CMM Manager**
- **Aukom**

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