







PRODUCT FOCUS

HMM430 COORDINATE MEASURING MACHINE

DETAILS AND SPECIFICATIONS

Measuring volume: 15.7" x 16.9" x 13.7" (400 x 430 x 350mm) (XYZ)

Granite bed area: 23.2" x 33.5" (590 x 850mm)

Probe body: Renishaw TP20 with standard force module

Standard Renishaw Probe Tips-

- Uses standard, off-the-shelf Renishaw probe tips compatible with Renishaw's range of M2 thread probe styli.
- Four probe tips included 1, 2, 3, & 4mm diameter, all 20mm length.

Linear scale resolution: 0.00004" (0.001mm)

Accuracy:

- Linear accuracy: 2 6 μm (0.00008" 0.00024")
- Volumetric accuracy: 4 11 μm (0.00016" 0.00043")

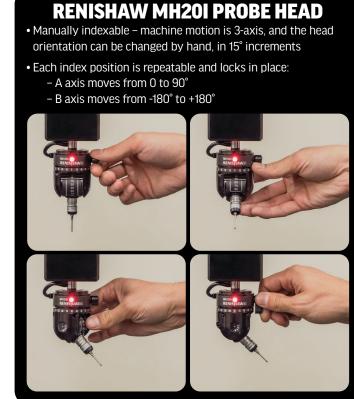
Max part weight: 265 lb (120 kg)

Renishaw control package:

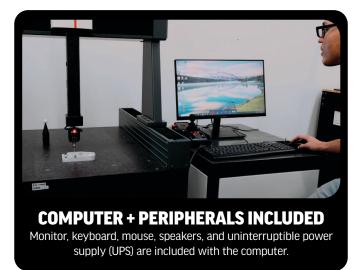
 Main controller, motor driver, scales, and probe head package are all standard Renishaw components.

CappsDMIS GeoCAD+ measuring software:

- CappsDMIS GeoCAD+ is an intermediate measuring software package by Applied Automation Technologies, Inc. (AAT3D). An "Advanced" measuring package is available directly from AAT3D.
- A full software license is included with the purchase of the machine. The license seat does not expire.
- A 1-year Software Maintenance Agreement (SMA) with AAT3D is included with the machine. This entitles the customer to technical support and software updates from AAT3D. The SMA may be renewed after the first year directly through AAT3D, for additional cost. Renewal is not required to use the software, but is highly recommended.









HMM430, COORDINATE MEASURING MACHINE

Part #: 08-2002

\$54,995



Full CNC inspections with CAD models

- Accepts neutral CAD file formats STEP and IGES
- Native file format (SOLIDWORKS, etc.) support is an option purchasable from AAT3D
- Use CAD model features to help create/direct inspection routines

Includes a 12-month warranty from ship date, supported by your local Haas Factory Outlet.

FREQUENTLY ASKED QUESTIONS

What inspection software is included, and are other options available?

• The HMM430 includes a full license to CappsDMIS GeoCAD+, a powerful software package from Applied Automation Technologies, Inc. (AAT3D) that has all the inspection features/tools you need to get started. An "advanced" software package upgrade is available to purchase directly from AAT3D. Other Renishaw-compatible software packages can also be used in place of CappsDMIS.

Why is the measuring volume smaller than the bed size? Is it possible to measure larger parts?

• The measuring volume is smaller than the volume between the bed and gantry, because extra clearance is needed for different probe-head angles and stylus configurations. Technically, you could fit a larger part on the bed, if the features of interest fit within the measuring volume, even though the rest of the part doesn't. This would be a fringe case.

Does the HMM430 require calibration?

• The HMM430 comes calibrated from the manufacturer. Your local HFO only needs to verify the accuracy at installation. If recalibration is needed, it should be performed by a certified 3rd-party CMM calibration service. Annual recalibration typically is required for ISO certification

What does the 430 stand for in the model name?

• The "430" designation represents the Y-axis travel: 430mm.

Can I install a 3rd-Party Measuring Software if I decide to switch from the one that comes included with the HMM430?

• Yes, the HMM430 is compatible with other measuring software. However, it is the customer's responsibility to verify compatibility by consulting the software manufacturer to determine if their software supports the Renishaw UCC protocol (I++ DME) and is compatible with the UCC server as a controller.

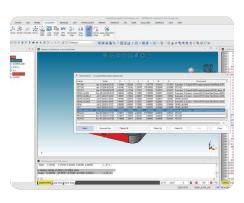
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CappsDMIS is a powerful software package that has all the inspection features/tools you need to get started.



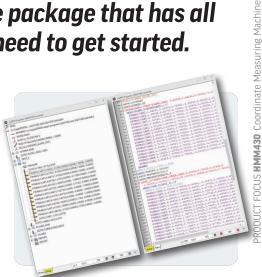
REPORTING TOOLS

- Inspection results are automatically output in report format in the Results Window.
- Generate comprehensive, easily understandable reports.
- Customize report headers and formats.



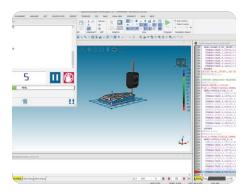
GLOBALLY SAVED PROBE CALIBRATION AND ALIGNMENT DATA

 Probe tip calibration data and defined work coordinate systems can be saved to and recalled from a global database in CappsDMIS, allowing you to save time on frequently repeated setups.



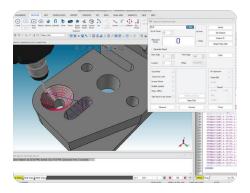
WRITES DMIS CODE FOR YOU

- Each function writes its corresponding DMIS code for you, helping you learn DMIS, and letting you look "under the hood" of your inspection program.
- Programs can also be displayed in easy-toread treeview format, or as raw DMIS code for granular control over your programs.



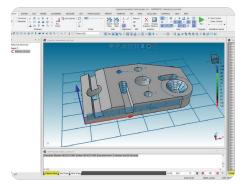
OFFLINE MODE

- CappsDMIS has full offline programming capability, with simulation.
- Useful for writing programs ahead of time, and checking for collision avoidance before running
- Develop programs at an offline station, while the machine performs automated measurements.



EASY MEASUREMENTS IN MANUAL MODE

 The joystick controller makes it easy to hand-jog the machine to take manual measurements – essential for defining coordinate systems and reverseengineering features, and convenient for quickly checking geometry.



WELL-ORGANIZED USER INTERFACE

- CappsDMIS has a familiar layout

 toolbars along the top, and the

 Treeview, Results, and Program windows surrounding the central graphics window.
 The windows can be moved and resized to complement your preferences.
- CAD and geometry data are viewable in the Treeview window, while the Graphics window takes front and center in the screen.

