

Accurate. Affordable. Portable. Each MicroScribe Portable CMM system provides a cost-effective alternative to traditional coordinate measurement machines for industrial modeling, reverse engineering, quality control, spatial alignment, and position tracking. Revware's easy-to-use articulated arm products seamlessly integrate with many popular metrology, reverse engineering, and 3D design software applications.

## MX, *i*



## PRECISION MADE



## ONE HAND USE



# MicroScribe® PCMM

## PRODUCT OVERVIEW

### The Right Tool and Price

The MicroScribe portable measurement system supplies economical desktop CMM functionality. Showcasing several new enhancements, the MicroScribe system provides accuracy appropriate for a wide range of modeling and data capture uses within design, industrial, medical, and reverse-engineering applications. MicroScribe PCMM systems work with physical objects of any shape, size, and material. Trace over the contours of an object once or at intervals and you can build complex 3D and 4D datasets. Now you can have the data collection efficiency of coordinate measurement systems at an affordable price.

### Fast, Efficient, Solid

A MicroScribe PCMM is a precision-built aircraft aluminum and carbon fiber tool designed for quick, balanced movements. Smooth action and one-hand operation make it easy to complete measurement tasks quickly. The counter-balanced and intuitive articulation of the arm allows you to quickly position the stylus into even tight spaces. Infinite rotation in the wrist enhances maneuverability of the stylus. Optional M4-threaded probe tips further support fast and accurate measurement of many parts and materials.

### Software Solutions

MicroScribe PCMM systems seamlessly integrate with many measurement and inspection software packages. Unlike other CMMs that limit third-party software integration, MicroScribe technology frees you to choose the software that's right for your business.

In addition, MicroScribe Utility Software (MUS) allows data acquisition for applications that do not provide native support.

With the fast operation and ease of use provided by a MicroScribe PCMM, you can do more projects in-house and avoid the increased cost and protracted turnaround associated with outsourcing.

### Accurate and Easy to Use

MicroScribe Portable CMM systems are calibrated according to Revware's Tri-Test Calibration method based on the American Society of Mechanical Engineers' B89.4.22 specifications for the performance evaluation of articulated-arm CMMs. All systems ship with two M4 threaded, 3 mm ruby ball tips (one master and one working). Convenient probe calibration software and a precision calibration fixture are included, allowing the use of custom tips and rapid tip changing. MicroScribe PCMMs are CE and FCC certified, and come with a standard one-year warranty.

Setting up a MicroScribe PCMM is simple and fast. USB connectivity produces a highly portable digitizing solution when combined with a laptop or tablet. Mount the base to a work surface or set a clamp system wherever you need it.

### Highlights

- The right accuracy at the right price
- Fast and easy, click-and-go operation – minimal training needed
- Portable – weighs as little as 8.3 pounds (3.8 kg) (50" MicroScribe *i* version)
- Seamless integration with premier reverse engineering and metrology software
- Custom reference frame for defining the physical workspace
- Magnetic base stop for precision homing
- Infinite rotation in wrist for increased maneuverability



# MicroScribe® PCMM

## PRODUCT FEATURES

MicroScribe System	<i>i</i>	<i>iL</i>	MX	MLX
Reach	25 in (.63m)	33 in (.84m)	25 in (.63m)	33 in (.84m)
Work sphere diameter	50 in (1.27m)	66 in (1.67m)	50 in (1.27m)	66 in (1.67m)
Degrees of freedom	5, 6	5, 6	5, 6	5, 6
Position accuracy	+/-0.005 in (0.127 mm)	+/-0.006 in (0.152 mm)	+/-0.0020 in (0.0508 mm)	+/-0.0030 in (0.762 mm)
Weight	8.3 lb (3.8 kg)	9.1 lb (4.1 kg)	12.0 lb (5.4 kg)	13.3 lb (6.0 kg)
Universal Power Supply	5V (100V – 240V source) *optional		9V (100V – 240V)	
Connectivity	USB 1.1 / RS-232C Serial up to 115 kps		USB 2.0	
OS compatibility	Windows XP, 7, 8, 10		Windows XP, 7, 8, 10	
Operating temp	59 to 95°F (15°C to 35°C)		59 to 95°F (15°C to 35°C)	
Storage temp	-4 to 158°F (-20°C to 70°C)		-4 to 158°F (-20°C to 70°C)	
Operating Humidity	10-90% non-condensing		10-90% non-condensing	

### Included Accessories

- MicroScribe Utility Software (MUS)
- Limited manufacturer warranty
- Certificate of Calibration
- USB cable
- Two 3 mm ruby ball probe tips and one point probe tip, M4 threaded
- Tip calibration fixture
- Tip tool
- Hand switch
- User's guide
- Storage strap



### Optional Accessories

- Additional probe tips
- Rugged carry case for easy travel
- Dual foot pedal for hands-free use
- Mounting plate
- Magnetic mounts
- Tripod
- Universal power supply (with country-specific IEC cable)
- Serial cable
- Annual recertification

### For more Information

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### About Revware

Revware develops software and hardware technologies which improve the way people collect physical information key to their business processes. Revware's MicroScribe products are the fast, flexible way to capture 3D measurements from a physical model. The MicroScribe family of portable measurement systems offers superb flexibility and metrology-level accuracy at the right price for many reverse engineering, inspection, automation, guided medical procedures, and modeling projects.



MicroScribe *i*

