

TOMELLERI ENGINEERING

HI-End measurement arms technology

Tomelleri Engineering S.r.l. Viale del Lavoro 12/a - 37069 VILLAFRANCA (VR) ITALY - Tel +39 0456304744
- Fax +39 0456303657 www.tomelleri-engineering.it - www.tomelleri-spacearms.com - info@tomelleri.com

MICRON – High Precision Measurement Arm

MICRON is a new concept portable articulated arm CMM, designed to get the best accuracy performance with the best part access **thanks to its unique 5 axis design**.

MICRON arm is a portable CMM dedicated for precise part inspection, in quality control or any other process where a touch probe control is necessary.

MICRON is an arm light-weight and easy handling, the counter-balance makes the movement of the axis extremely smooth. The operator holds the probe and guide the arm supporting only 15grams weight.

MICRON is the perfect equipment for touch probe inspection when easy of use and high precision is necessary quickly and within a hand's reach. The particular design of the arms allows access to the measurement of the workpiece around its outline, like no other CMMs can do!



The **MICRON** arms are designed to be fixed on a tripod with wheels that is adjustable in height and has a shelf that enables measurement of the part within, for example, the machine tool. They can be also fixed on other support equipment including granite table.

MICRON are equipped with a measurement program that allows you to perform all geometric measures, quickly and accurately and providing finally the report of the

results. The measuring arm **MICRON** are equipped with automatic temperature compensation of the arm and of the measuring part .

Technical specifications and Accessories

MICRON (5 axis arm) values in mm - *according ISO10360/2

MICRON	Measuring range	Accuracy*
MICRON 250	250 x 400 x 250mm	4μ + L/50mm
MICRON 400	400 x 600 x 400mm	6μ + L/40mm
MICRON 600	600 x 900 x 500mm	6μ + L/40mm

FLOATING PROBE

Is the revolutionary new concept probe designed by Tomelleri Engineering. It is a rigid mechanical probe suspended on a spring driven by an aluminum ring that triggers the probe with a simple touch. The integrated force control avoid to apply uncontrolled load on the part, improving accuracy and repeatability.

The control ring is isolated from the probe stylus to avoid thermal impact from the hands of the user.



All the available probes fits the same mechanical mount of the standard **MICRON** version and are interchangeable. The precision mount is extremely repeatable and allow to switch from one probe to another without recalibration.

MOBILE TRIPOD

Stable and practical, is the ideal accessory to move easily and quickly the MICRON arm.

The control wheel at the base allows you to quickly switch the from measurement position to mobile position, and vice versa in a gradual way without shocks.

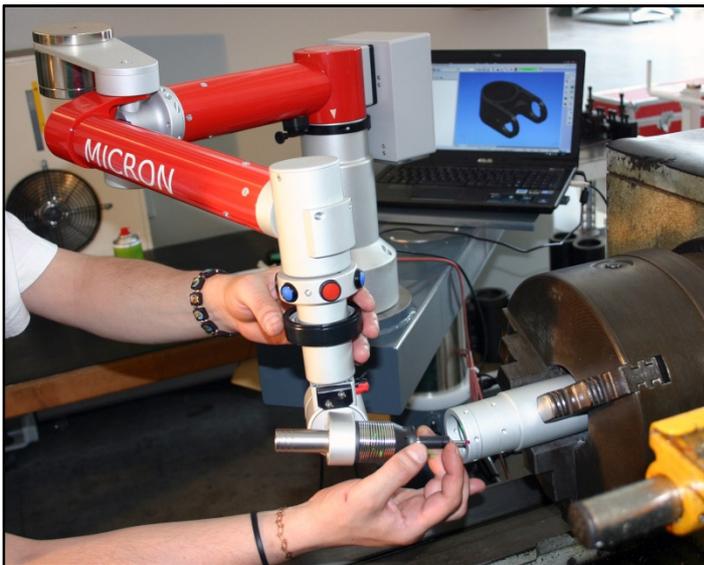
The tripod is adjustable in height and the weight of the tripod column is balanced by a gas spring, and a side handle allows for vertical and horizontal movement of the tripod.

The removable lateral shelf allows positioning of the laptop next to the measuring arm.





MICRON arms, are available in 3 size: 250, 400 and 600. A great flexible and accurate equipment, thanks to the fully balanced structure and the unique 5 axes configuration, for any 3D measure directly on the workshop, without the limits of the bridge-type CMM or the traditional set of manual gages and instruments.



MICRON arms, will be suitable for 3D quality inspection of any parts, whether on a simple granite or steel table, or directly in the machine tool, thanks to the portable tripod that can be positioned easily close to the machine.

ALL our products are MADE IN ITALY with top quality components – **NO COMPROMISE**
