

## Measurement Arms

The arms are certified with the ISO10360-2 norm that allows the verification and the annual calibration and certification at the customer premises by the exclusive TOMELLERI procedures

### SPACE Plus and SPACE

The **SPACE Plus** and the **SPACE** are two portable articulated arms CMM, ideal for quick and accurate inspection of any parts within its range.

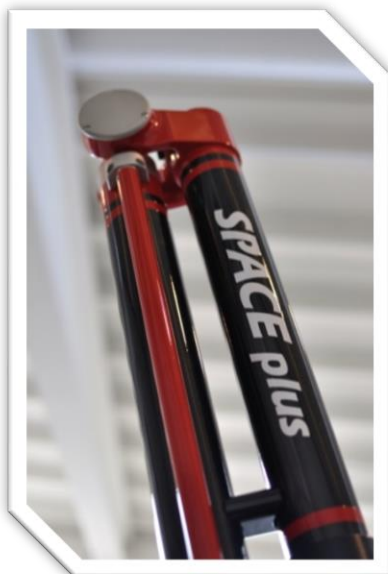
They are the result of nearly 30 years of experience in production of portable measurement arms, culminating in this renewed version.

Now we have better accuracy and repeatability and also a new design nice to see.

The **SPACE line arms** are lighter and this make easier to handle the arm during measuring.

The counter-balance system with a double spring also gives the machine characteristics of precision light-weight and easy handling.

Our new arm is the top of reliability, accuracy, and flexibility in use.



The **SPACE Plus** arm can be used also in combination with Laser Scanners for point cloud inspection or reverse-engineering, in 7 axis configuration.

This version has some unique features like the magnetic brake, which prevent accidental fall of the arm and improved electronics for better performance.

It's the perfect equipment for touch or laser inspection and reverse-engineering and is suitable also for pipe inspection with laser fork and dedicated software.

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## EXPLORER



When you need to measure a large volume! The unique portable arm available in the worldwide market with a measuring range of 5.0m, 7.0m up to 9.0m!

The result of a great experience in large volume metrology of  
**TOMELLERI ENGINEERING S.r.l.**

This is the product you need when other equipment cannot reach that large size with such incredible accuracy performance.

It's the perfect equipment for touch probe inspection of large parts, where you need to "explore" big parts with great flexibility. When your part to inspect is big and heavy, don't move it, take the **EXPLORER** arm on it and get your measures done quickly.



**EXPLORER** is standard equipped with electromagnetic brake on the second axis, which allows the operator to lock the second axis at required height and use the arm safely and comfortably.

It's also suitable with Laser Forks for pipe inspection, our all standard accessories line, and Laser Scanners for point cloud inspection or Reverse-engineering.

## MICRON

A new concept for portable articulated arm CMM, designed to get the best accuracy performance with the best part access thanks to its unique 5 axes design.

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



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

It's 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!



## ACCESSORIES



### HARD PROBE

The mechanical probe is the standard touch probe, available with different sphere diameter.

Points can be taken touching the part and pushing the button on board the probe body.

The smallest usable probe diameter is 1mm to guarantee the point accuracy, the maximum length suggested is 100mm. Any of the Renishaw standard M4 stylus is applicable.



### TOUCH TRIGGER (Renishaw™ LP2) PROBE

The touch trigger probe acquire points applying the minimum force on the measured part.

Is a very precise, quick and comfortable in use, acquires points only touching the surface, without triggering buttons.

Available with many different stylus length and sphere diameters. The model offered is produced by **Renishaw™ (model LP2 kit)**



### FLOATING PROBE (EXCLUSIVE FEATURE!)

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.

## MOBILE TRIPODS

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

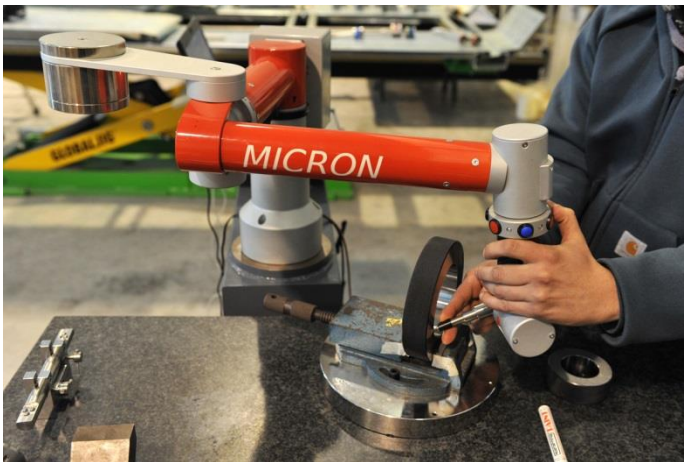
The handwheel at the base allows you to quickly switch the retractile wheels from measurement position to mobile position, and vice versa in a gradual way without shocks.



The tripod is adjustable in height (range 900-1400mm) and the weight of the tripod column is balanced by a gas spring. A side handle allows for vertical and horizontal movement of the tripod. A removable and rotary shelf allows positioning of the laptop next to the measuring arm.



# TOMELLERI ENGINEERING – SPACE Arms



**ALL the SPACE arms products are MADE IN ITALY.**



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