

Measurements Arms

The arms are certified with the Standard ISO 10360-2 or the new ISO10360-12, depending on the customer necessities. This to allow the Arm's verification and the annual calibration at the customer premises by the exclusive TOMELLERI procedures

SPACE and SPACE Plus



SPACE and SPACE Plus are two lines of portable articulated arms CMM, ideal for quick and accurate inspections of any part.

They are the result of nearly 30 years of experience in the production of portable measurement arms, culminated in this renewed version with higher accuracy and repeatability, and also with a new design that captures the eye.

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.

The SPACE Plus arms can be used also in combination with laser scanners for point cloud inspection or reverse engineering in 7 axes configuration, and is also suitable also for pipe inspection with laser fork and dedicated software.

Our new arms are the top for reliability, accuracy, and flexibility in usage.





EXPLORER

EXPLORER results from the great experience in large volume metrology of TOMELLERI ENGINEERING, the unique portable arm available worldwide with a measuring range from 5 to 9 m diameter.

It's the perfect equipment for touch probe inspection of large parts, whenever you need to "explore" big parts with great flexibility. When you need to measure a large volume you need the best in terms of technology and mechanics.

The EXPLORER line is equipped with the electro-magnetic brake on the second axis, to allow the operator to lock the arm at required height and use it safely and comfortably.

It's also suitable, as the SPACE Plus line, with Laser Forks for pipe inspection, and with Laser Scanners for point cloud inspection or reverse engineering.

MERCURY



A brand new design with mass counterbalance, for a completely new handling experience. To inspect an object has never been so easy.

The MERCURY line is light and accessible, to enable the end user to quickly take confidence with the Arm and get the best result from the beginning.

It keeps the compatibility with all the probing inspection software available for the other TOMELLERI Arms, but aims to the highest level of accuracy.

	MPE_p^1 (mm)	MPE_e^2 (mm)
MERCURY 1300	0,008	$0,005 + L\sqrt{50} < 0,015$
MERCURY 1800	0,008	$0,005 + L\sqrt{40} < 0,018$

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 acquires 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

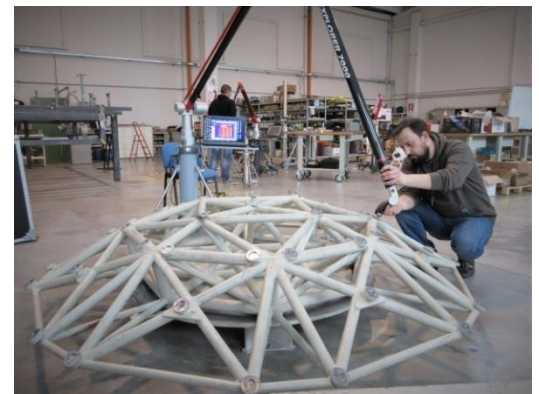
Is the revolutionary new concept probe designed by TOMELLERI ENGINEERING. It is a rigid mechanical probe suspended on a spring driven by an aluminum ring that triggers the probe with a simple touch. The integrated force control avoid to apply uncontrolled load on the part, improving accuracy and repeatability.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





ALL the TOMELLERI Arms are MADE in ITALY