



Purdue Metrology

www.purduemetrology.co.uk E: sales@purduemetrology.co.uk T: 07887 691129

TOMELLERI *SPACE Plus and SPACE – Measuring Arms*

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. Ideal with Aberlink's powerful software suite.

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

The **SPACE line entry level** arms are now lighter and this make it 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 offer high accuracy** and 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.

Our **SPACE Plus** arms are available in sizes: from 1.8m to 4.0m diameter range and in 6 or 7 axis configuration.

Accessories include: A range of touch probes, laser scanners, Tripods and software options.

| SPACE Plus | Measuring range | Volumetric accuracy* | Point Repeatability* | Weight (Kg) |
|--------------------------------------------------------------------------------|------------------------|-----------------------------|-----------------------------|--------------------|
| SPACE PLUS series (6 and 7 axes arm) – all values in mm – *=2 sigma error (mm) | | | | |
| SPACE 1.8 Plus -6 axes | 1800mm | 0,020 | 0,012 | 8,4 |
| SPACE 2.5 Plus -6 axes | 2500mm | 0,026 | 0,016 | 8,9 |
| SPACE 3.2 Plus -6 axes | 3200mm | 0,036 | 0,020 | 9,3 |
| SPACE 4.0 Plus -6 axes | 4000mm | 0,046 | 0,024 | 10,0 |
| SPACE 1.8 Plus -7 axes | 1800mm | 0,027 | 0,017 | 8,9 |
| SPACE 2.5 Plus -7 axes | 2500mm | 0,034 | 0,021 | 9,4 |
| SPACE 3.2 Plus -7 axes | 3200mm | 0,045 | 0,026 | 9,8 |
| SPACE 4.0 Plus -7 axes | 4000mm | 0,056 | 0,030 | 10,5 |

The **SPACE** arm is the entry-level version of **SPACE Plus** arm with light electronics, available only in 6 axes configuration and without the electromagnetic brake.

Touch trigger probe, “floating” probe and laser forks can be quickly interchanged thanks to a high precision mount.

It's suitable also for **pipe inspection with laser fork** and dedicated software.

Our **SPACE** arms are available in several size: from 1.8m to 4.0m diameter range and in 6 configuration.

| SPACE | Measuring range | Volumetric accuracy* | Point Repeatability* | Weight (Kg) |
|---------------------------------------------------------------------|------------------------|-----------------------------|-----------------------------|--------------------|
| SPACE series (6 axes arm) – all values in mm – *=2 sigma error (mm) | | | | |
| SPACE 1.8 | 1800mm | 0,025 | 0,018 | 7,9 |
| SPACE 2.5 | 2500mm | 0,036 | 0,022 | 8,4 |
| SPACE 3.2 | 3200mm | 0,045 | 0,032 | 8,8 |
| SPACE 4.0 | 4000mm | 0,060 | 0,040 | 9,5 |

The high repeatability probe mount, ensure an easy and reliable use of the arm, switching from one probe configuration to another, having the system automatically recognizing the type and the parameters of the probe in use.

EXPLORER ARM

Large capacity EXPLORER Arms also available 6 and 7 axis. With an electromagnetic brake or lock on the 2nd axis for comfort and manageability.

| 6 Axis | Range (Dia) | Volumetric Accuracy | Repeatability | Weight Kg |
|--------------|-------------|---------------------|---------------|-----------|
| EXPLORER 5.0 | 5000mm | 0.065mm | 0.038mm | 12.5 |
| EXPLORER 7.0 | 7000mm | 0.080mm | 0.048mm | 14.0 |
| EXPLORER 9.0 | 9000mm | 0.150mm | 0.075mm | 16.5 |
| 7 Axis | | | | |
| EXPLORER 5.0 | 5000mm | 0.075mm | 0.050mm | 13.5 |
| EXPLORER 7.0 | 7000mm | 0.090mm | 0.060mm | 15.0 |
| EXPLORER 9.0 | 9000mm | 0.170mm | 0.090mm | 17.5 |