



### Accuracies according to Standard ISO 10360-12:2016

#### SPACE

		$E_{Bi}^1$ (mm)	$P_{size}^2$ (mm)	$P_{form}^3$ (mm)	$L_{dia}^4$ (mm)
	6 axes				
<i>SPA6018</i>	SPACE 1800	0,029	0,009	0,019	0,031
<i>SPA6025</i>	SPACE 2500	0,038	0,013	0,024	0,040
<i>SPA6032</i>	SPACE 3200	0,053	0,018	0,031	0,056

#### SPACE Plus

	6 axes				
<i>SPP6018</i>	SPACE Plus 1800	0,023	0,007	0,015	0,025
<i>SPP6025</i>	SPACE Plus 2500	0,030	0,010	0,019	0,032
<i>SPP6032</i>	SPACE Plus 3200	0,042	0,014	0,025	0,045
<i>SPP6040</i>	SPACE Plus 4000	0,057	0,018	0,033	0,062
	7 axes				
<i>SPP7018</i>	SPACE Plus 1800	0,031	0,008	0,020	0,032
<i>SPP7025</i>	SPACE Plus 2500	0,040	0,012	0,026	0,043
<i>SPP7032</i>	SPACE Plus 3200	0,052	0,016	0,033	0,059
<i>SPP7040</i>	SPACE Plus 4000	0,069	0,020	0,042	0,079

#### MERCURY

	6 axes				
<i>SPM6013</i>	MERCURY 1300	0,016	0,006	0,010	0,018
<i>SPM6018</i>	MERCURY 1800	0,020	0,006	0,012	0,022

#### TECHNICAL SPECIFICATION

1. Maximum permissible longitudinal error of measurement, Bidirectional
2. Maximum permissible probe deviation, size

3. Maximum permissible probe deviation, shape
4. Maximum permissible probe deviation, position

## Terms explanation

The values reported in the table are representative of measurements taken under the 10360-12 certification process.

### 1. $E_{bi}$

The first column,  $E_{bi}$  refers to measure made on a straight gage. The measurements can be made either as Uni-directional or Bi-directional. The first type means that the gage is measured on both sides from the same direction; while the second type means the gage is measured rotating the probe against the touched surfaces, having two directions of measure.

*Tomelleri spec: Maximum permissible longitudinal error of measurement, Bidirectional*

### 2. $P_{size}$

The second column, as well as all the following ones, refers to measurements done on a sphere. Here in particular refers to the value of its diameter.

*Tomelleri spec: Maximum permissible probe deviation, size*

### 3. $P_{form}$

Measurements referred to the sphere, with Arm kept in vertical position and orienting the probe. The probe touches the sphere from various directions and the process evaluates point by point how the value goes away from an ideal spherical shape.

*Tomelleri spec: Maximum permissible probe deviation, shape*

### 4. $L_{dia}$

Measurement referred to the sphere, with the probe vertical and tilting the arm from one side to the other. The evaluation of the sphere's center position, difference between measured and real.

*Tomelleri spec: Maximum permissible probe deviation, position*