



### 7-Axis Probing and Scanning Specifications – 73 series

Model <sup>3</sup>	Measuring Range	Probing Point Repeatability <sup>1</sup>	Probing Volumetric Accuracy <sup>2</sup>	Scanning System Accuracy SI <sup>4</sup> (with RS1)	Scanning System Accuracy SE <sup>4</sup> (with CMS 108)	Arm Weights SI	Arm weights SE
7320SI/SE	2.0 m / 6.6 ft.	± 0.044 mm / 0.0017 in.	± 0.061 mm / 0.0024 in.	± 0.079 mm / 0.0031 in.	± 0.075 mm / 0.0030 in.	8.3 kg / 18.3 lbs.	7.9 kg / 17.4 lbs
7325SI/SE	2.5 m / 8.2 ft.	± 0.049 mm / 0.0019 in.	± 0.069 mm / 0.0027 in.	± 0.084 mm / 0.0033 in.	± 0.080 mm / 0.0031 in.	8.6 kg / 19.0 lbs.	8.2 kg / 18.1 lbs
7330SI/SE	3.0 m / 9.8 ft.	± 0.085 mm / 0.0033 in.	± 0.110 mm / 0.0043 in.	± 0.119 mm / 0.0047 in.	± 0.113 mm / 0.0044 in.	8.9 kg / 19.6 lbs.	8.5 kg / 18.7 lbs
7335SI/SE	3.5 m / 11.5 ft.	± 0.108 mm / 0.0043 in.	± 0.136 mm / 0.0054 in.	± 0.147 mm / 0.0058 in.	± 0.140 mm / 0.0055 in.	9.2 kg / 20.3 lbs.	8.8 kg / 19.4 lbs
7340SI/SE	4.0 m / 13.1 ft.	± 0.120 mm / 0.0047 in.	± 0.168 mm / 0.0066 in.	± 0.181 mm / 0.0071 in.	± 0.172 mm / 0.0068 in.	9.5 kg / 20.9 lbs.	9.1 kg / 20.1 lbs
7345SI/SE	4.5 m / 14.8 ft.	± 0.156 mm / 0.0061 in.	± 0.198 mm / 0.0078 in.	± 0.214 mm / 0.0084 in.	± 0.203 mm / 0.0080 in.	9.8 kg / 21.6 lbs.	9.4 kg / 20.7 lbs

### 7-Axis Probing and Scanning Specifications – 75 series

7520SI/SE	2.0 m / 6.6 ft.	± 0.023 mm / 0.0009 in.	± 0.033 mm / 0.0013 in.	± 0.058 mm / 0.0023 in.	± 0.053 mm / 0.0021 in.	8.6 kg / 19.0 lbs.	8.2 kg / 18.1 lbs
7525SI/SE	2.5 m / 8.2 ft.	± 0.028 mm / 0.0011 in.	± 0.039 mm / 0.0015 in.	± 0.063 mm / 0.0025 in.	± 0.058 mm / 0.0023 in.	8.9 kg / 19.6 lbs.	8.5 kg / 18.7 lbs
7530SI/SE	3.0 m / 9.8 ft.	± 0.048 mm / 0.0019 in.	± 0.066 mm / 0.0026 in.	± 0.083 mm / 0.0033 in.	± 0.078 mm / 0.0031 in.	9.2 kg / 20.3 lbs.	8.8 kg / 19.4 lbs
7535SI/SE	3.5 m / 11.5 ft.	± 0.061 mm / 0.0024 in.	± 0.093 mm / 0.0037 in.	± 0.101 mm / 0.0040 in.	± 0.096 mm / 0.0038 in.	9.5 kg / 20.9 lbs.	9.1 kg / 20.1 lbs
7540SI/SE	4.0 m / 13.1 ft.	± 0.074 mm / 0.0029 in.	± 0.106 mm / 0.0042 in.	± 0.119 mm / 0.0047 in.	± 0.114 mm / 0.0045 in.	9.8 kg / 21.6 lbs.	9.4 kg / 20.7 lbs
7545SI/SE	4.5 m / 14.8 ft.	± 0.088 mm / 0.0035 in.	± 0.126 mm / 0.0050 in.	± 0.138 mm / 0.0054 in.	± 0.133 mm / 0.0052 in.	10.1 kg / 22.3 lbs.	9.7 kg / 21.4 lbs

All specifications in relation to B89.4.22.

<sup>3</sup> **SI** designates the ROMER Absolute Arm with integrated scanner, **SE** designates the ROMER Absolute Arm with external scanner.

<sup>4</sup> **The Scanning System Accuracy Test** most accurately represents the reasonable expectations for machine performance in practical measuring applications while using the laser scanning method. The test consists of measuring a matte grey sphere with 5 different arm articulations. In each articulation of the arm the sphere is scanned from 5 different directions such that the majority of the sphere is scanned. The result is the maximum 3D center to center distance of the 5 spheres.