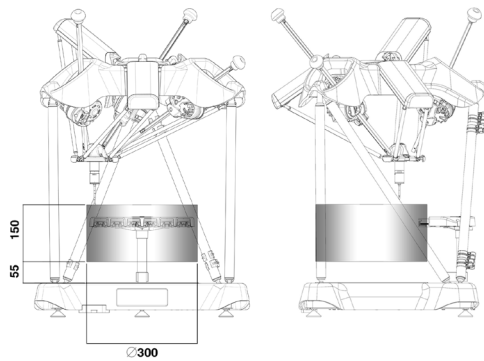


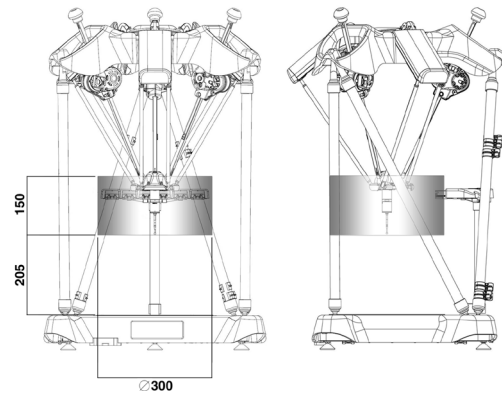
# Equator™ 300 versatile gauge

[www.renishaw.com/gauging](http://www.renishaw.com/gauging)

**Equator 300**



**Equator 300 Extended Height**



<b>Working volume (WV)</b>	XY	Ø300 mm
	Z	150 mm
<b>WV height from base*</b>	55 mm	
<b>Machine weight</b>	25 kg	
<b>Dimensions (WxDxH)</b>	570 mm x 500 mm x 700 mm	

<b>Working volume (WV)</b>	XY	Ø300 mm
	Z	150 mm
<b>WV height from base*</b>	205 mm	
<b>Machine weight</b>	27 kg	
<b>Dimensions (WxDxH)</b>	570 mm x 500 mm x 850 mm	

\* The position of the working volume in the Z direction depends on the length of the stylus. For example, the dimensions shown above are when using an SP25 with a 21x5 stylus. When using a 75 x 8 stylus on the EQ 300 standard height, the working volume boundary starts at the fixture plate.

## Specification

<b>Comparison uncertainty*</b>	±0.002 mm
<b>Probe type - scanning</b>	Renishaw 3-axis SP25 analogue scanning
<b>Maximum scanning speed (SP25)</b>	200 mm/s
<b>Scanning rate (SP25)</b>	1000 points/s
<b>Probe type - touch-trigger</b>	Renishaw 3-axis TP20 kinematic touch-trigger
<b>Recommended touch speed (TP20)</b>	10 mm/s
<b>Maximum movement speed</b>	500 mm/s
<b>Scale resolution</b>	0.0002 mm
<b>Fixturing requirement*</b>	±1 mm
<b>Machine air supply requirement</b>	No air required
<b>Operating temperature</b>	+5 °C to +50 °C
<b>Storage temperature</b>	-25 °C to +70 °C
<b>Relative humidity operating range</b>	Maximum 80 %RH at 40 °C, non condensing
<b>Machine electrical supply requirements</b>	100-240 V AC ±10 %, 50-60 Hz
<b>Maximum power consumption**</b>	190 W
<b>Typical power consumption***</b>	80-100 W
<b>Fixture plate</b>	305 mm x 305 mm aluminium
<b>Maximum workpiece weight</b>	25 kg

\* The process of measuring on an Equator involves defining a series of gauge points on the component surface. Periodic calibration of a master part on a CMM establishes datum values for each gauge point. The same gauge points on the same master part are measured on Equator, 'mastering', to establish a correlation with the certified CMM. Subsequently, a regular 're-mastering' process is used to account for changing environmental conditions. Size and position measurements made immediately following re-mastering will have a comparison uncertainty of ±0.002 mm relative to the certified measurements of the master part. This specification applies where each part is fixtured to within 1 mm relative to the master part.

\*\* Peak consumption at power up.

\*\*\* 3-axis system typical consumption based on taking touch points under DCC control.

## Equator 300 ordering



**A - EQ 3 3 - 1 S 1 1 A**

**Part number type**

A = Assembly

**Series**

EQ = Equator with SP25

EH = Equator Extended Height with SP25

TQ = Equator with TP20

TH = Equator Extended Height with TP20

**Working volume**

3 = 300 mm diameter

**Number of axes**

3 = 3 axes

**Controller standard**

1 = Controller kit with Organiser and MODUS (Operator version)

2 = Controller kit with Organiser and MODUS (Programmer version)

**Manual functions**

S = Stop button

J = Joystick kit

B = Button interface and stop button kit

**Fixture plate hole size**

1 = M6 41 holes

2 = M8 41 holes

3 = Imperial ¼ in. 41 holes

4 = Imperial ¼ in. 441 holes modular fixture plate

5 = M6 441 holes modular fixture plate

6 = M8 441 holes modular fixture plate

**Extended warranty**

0 = Without extended warranty

1 = 1 year extended warranty (covering year 2 of ownership)

**Power cables (x 2 per system)**

A = UK; B = EU and Korea; C = USA, Mexico, Canada, Japan and Taiwan; D = China; E = South Africa and India;

F = Switzerland; G = Denmark; H = Australia; I = Israel; J = Italy and Chile; K = Brazil

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