

# Equator<sup>™</sup> 500 versatile gauge

# **Equator 500 Standard Height**



Ø500 mm

Working volume (WV)	XY	Ø500 mm
	Z	250 mm
WV height from base (see note 1)	0 mm 74 kg 1204 mm × 1139 mm × 1535 mm	
Machine weight		
Dimensions (W×D×H)		

# Equator 500 Extended Height

Working volume (WV)	XY	Ø500 mm	
	Z	250 mm	
WV height from base (see note 1)	150 mm		
Machine weight	75 kg 1204 mm × 1139 mm × 1685 mm		
Dimensions (W×D×H)			

# **Specification**

±0.002 mm	
Renishaw 3-axis SP25 analogue scanning	
250 mm/s	
1000 points/s	
750 mm/s	
0.0002 mm	
1 mm	
No air required	
+5 °C to +50 °C	
–25 °C to +70 °C	
Maximum 80% RH at 40 °C, non-condensing	
ne electrical supply requirements 100 Vac to 240 Vac ±10%, 50 Hz to 60 Hz	
190 W	
100 W	
510 mm × 510 mm	
100 kg	

Note 1 The position of the working volume in the Z direction depends on the length of the stylus. The dimensions shown above represent using a SP25 probe and SM25-2 module with a 75 mm × 8 mm stylus so that the working volume boundary starts at the fixture plate

Note 2 The process of measuring on an Equator gauging system 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 the Equator system, – '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.

Note 3 Peak consumption at power-up.

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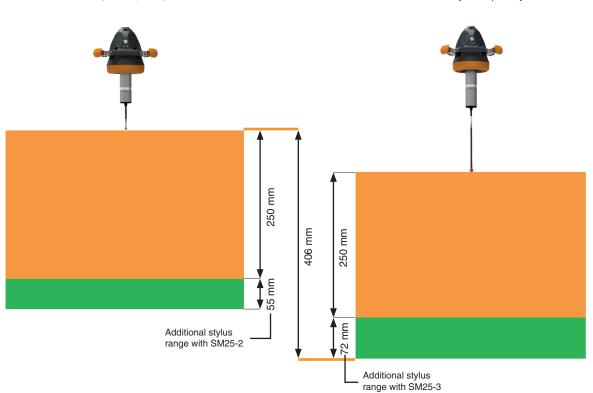
# Equator 500 Extended Height – range of Z-axis with different modules and styli

SM25-3

120 mm to 200 mm stylus capability

## SM25-2

50 mm to 105 mm stylus capability



### Machine

Machine		warranty
Equator 500 Standard Height gauging machine	A-6078-0070	Extended Warranty (Year 2
Equator 500 Extended Height gauging machine	A-6078-0085	Extended Warranty (Year 3
Controller standard		Power cables
Equator Controller and MODUS Operator	A-5696-0101	UK
Equator Controller and MODUS Programmer	A-5696-0102	Europe and Korea
Probe kit		US, Mexico, Taiwan, Cana China
Equator SP25 probe kit with SM25-2	A-5504-0205	S. Africa and India
Equator SP25 probe kit with SM25-2U	A-5504-0295	Switzerland
Equator SP25 probe kit with SM25-3	A-5504-0605	Denmark Australia Israel Brazil
Manual interface EQ500 EQ-J MCUlite-2 Equator joystick EQ500 EQ-EBI Button Interface and	A-6078-0258	
EQ-S stop button	A-6088-0050	Oleaning hit
EQ500 EQ-S Equator stop button	A-6078-0259	Cleaning kit Equator cleaning kit
Fixture plates		
EQ-5F-M8 Fixture plate – 41 hole	A-6078-0209	

EQ-5F-S150 Fixture plate spacer kit (H+150) A-6078-0208

### Warrantv

2 ownership) EW1 3 ownership) EW2

UK	A-5504-0261
Europe and Korea	A-5504-0262
US, Mexico, Taiwan, Canada, Japan	A-5504-0263
China	A-5504-0264
S. Africa and India	A-5504-0265
Switzerland	A-5504-0266
Denmark	A-5504-0267
Australia	A-5504-0268
Israel	A-5504-0269
Brazil	A-5504-0270
Cleaning kit	
Equator cleaning kit	A-5504-9055

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