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RUP60 (QE) high-accuracy radio ultrasonic thickness probe



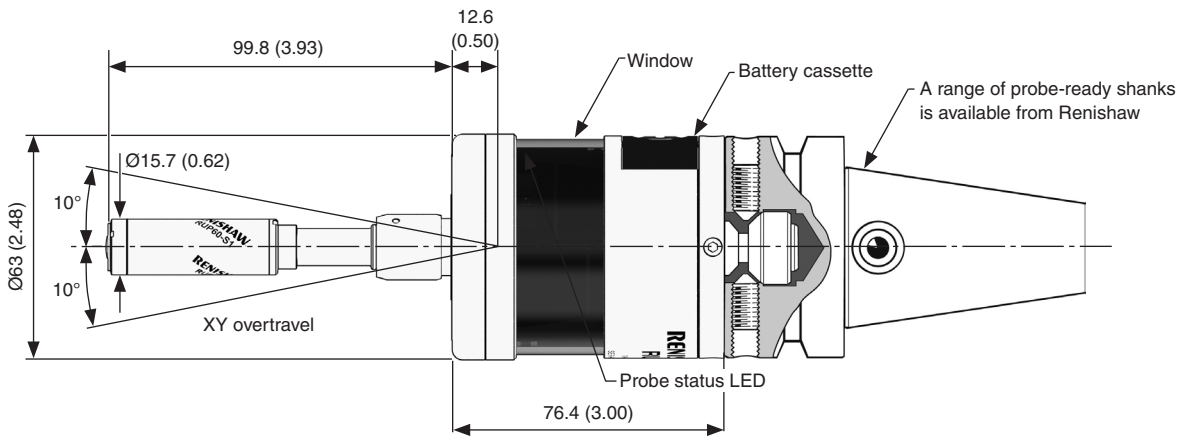
Specification

Principal application		Ultrasonic thickness measurement of parallel-sided metallic parts.	
Weight without shank (including batteries)		With stylus Without stylus	1022 g (36.05 oz) 951 g (33.55 oz)
Transmission type		Hybrid frequency-hopping spread spectrum (FHSS) radio Radio frequency 2400 MHz to 2483.5 MHz	
Radio approval regions		UK, EU, EFTA, Japan and USA (China exempt). For details about other regions, contact Renishaw.	
Compatible receiver / interface		RMM-QE and USI	
Operating range		Up to 15 m (49.2 ft)	
Switch-on / switch-off options		Radio on → Radio off	
Probe switch-on time		1 second	
Probe feedrate (minimum, for surface detection)		300 mm/min (11.8 in/min)	
Battery life (2 × AA 1.5 V alkaline)	Standby life Continuous life	37 months 225 hours	
Sense direction		–Z	
Repeatability		2 µm (78.74 µin) 2σ [1]	
Measurement accuracy		±10 µm (393.70 µin) [2]	
Material thickness range		0.7 mm (0.03 in) to 30 mm (1.2 in) – material dependent	
Measurement time		< 2 seconds	
Minimum part curvature (radius)		200 mm (7.87 in)	
Stylus alignment allowance		Up to 0.7°	
Stylus measuring force Z (typical)		27 N ±1.5 N, 2753 gf ±153 gf (97 ozf ±5.4 ozf)	
Stylus overtravel	XY plane +Z plane	±10° 6 mm (0.24 in)	
Coupling fluid		Operates with or without coupling fluid	
Delay line life (dependent on working environment)		In use (application dependent) Shelf life	3 months maximum 3 years maximum
Environment		IP rating	IPX8, BS EN 60529:1992+A2:2013
		IK rating (typical)	IK01 BS EN IEC 62262: 2002 [for glass window]
		Storage temperature	–25 °C to +70 °C (–13 °F to +158 °F)
		Operating temperature	+5 °C to +54 °C (+41 °F to +129 °F)
		Indoor/outdoor use	Indoor use
		Altitude	≤ 3000 m (9843 ft)
		Relative humidity	5% to 95%
		Wet location	Yes, water/oil/coolant
		Pollution degree	Level 2

[1] When variables such as temperature, humidity and coupling fluid are controlled.

[2] When adequate acoustic coupling is achieved and when calibration has been performed on an identical material of the same or greater thickness.

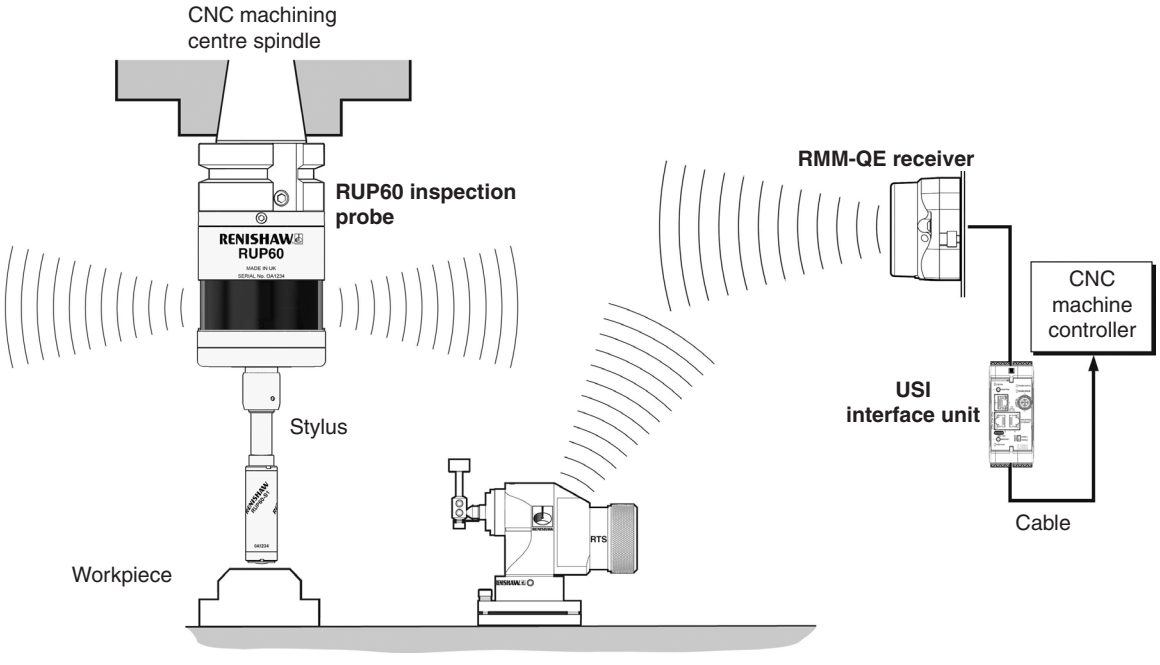
RUP60 dimensions



Stylus overtravel limits	
±X/±Y	**+Z**
±10°	6 (0.24)

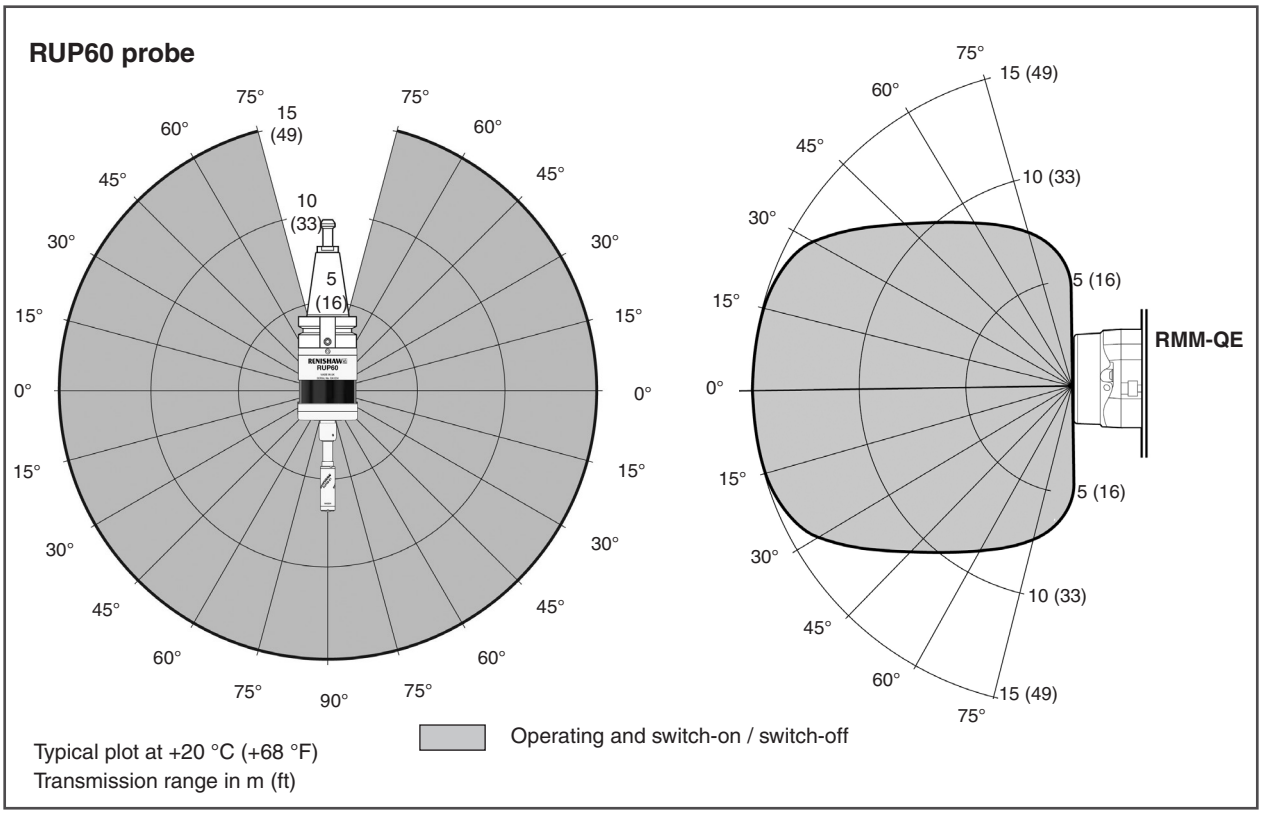
Dimensions given in mm (in)

Installing the RUP60 with a RMM-QE and USI



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RUP60 performance envelope



Spare parts and accessories

A full range of spare parts and accessories is available. Contact Renishaw for a full list.

www.renishaw.com/contact **#renishaw**

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Part no.: H-6723-8200-01-C
Issued: 08.2026