

# RTS (QE) radio tool setter



## **Specification**

Principal application		Tool measuring and broken tool detection on vertical and horizontal machining	
		centres and gantry machining centres.	
Weight with disc stylus (including batteries)		870 g (30.69 oz)	
Transmission type		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 interfaces		RMI-Q or RMI-QE combined interface and receiver unit.	
Operating range		Up to 15 m (49.2 ft)	
Recommended styli		Disc stylus (tungsten carbide, 75 Rockwell C) or Square tip stylus (ceramic tip, 75 Rockwell C)	
Switch-on / switch-off options		Radio on Radio off	
Battery life (2 × AA 3.6 V lithium-thionyl chloride)	Standby life	99 months maximum.	
	Continuous life	4860 hours maximum.	
Sense directions		±X, ±Y, +Z	
Unidirectional repeatability		1.00 μm (40 μin) 2σ <sup>1</sup>	
Stylus trigger force 23		1.3 N to 2.4 N, 133 gf to 245 gf (4.7 ozf to 8.6 ozf) depending on the sense direction.	
Stylus overtravel		XY plane +Z plane	±3.5 mm (0.14 in) 6 mm (0.24 in)
Mounting		M10 / M12 T bolt (not supplied) Optional SPIROL® pins to allow accurate remounting.	
Environment		IP rating	IPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1989+A1:1999+A2:2013)
		IK rating	IK01, BS EN 62262:2002+A1:2021 [for glass window]
		Storage temperature	-25 °C to +70 °C (-13 °F to +158 °F)
		Operating temperature	+5 °C to +55 °C (+41 °F to +131 °F)
		Indoor/outdoor use	Indoor use
		Altitude	<3000 m
		Relative humidity	5% to 95%
		Wet location	Yes, water/oil/coolant
		Pollution degree	Level 2

Performance specification is tested at a standard test velocity of 480 mm/min (18.9 in/min) with a 35 mm stylus. Significantly higher velocity is possible depending on application requirements.

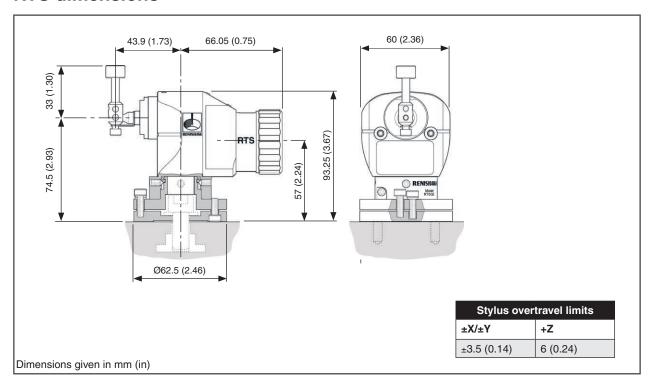


Trigger force, which is critical in some applications, is the force exerted on the stylus by the tool when the probe triggers. The maximum force applied will occur after the trigger point (overtravel). The force value depends on related variables, including measuring speed, machine deceleration and system latency.

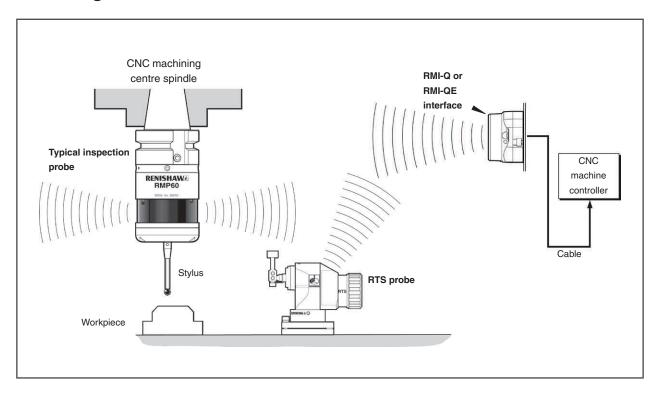
These are the factory settings; manual adjustment is not possible.



### **RTS dimensions**



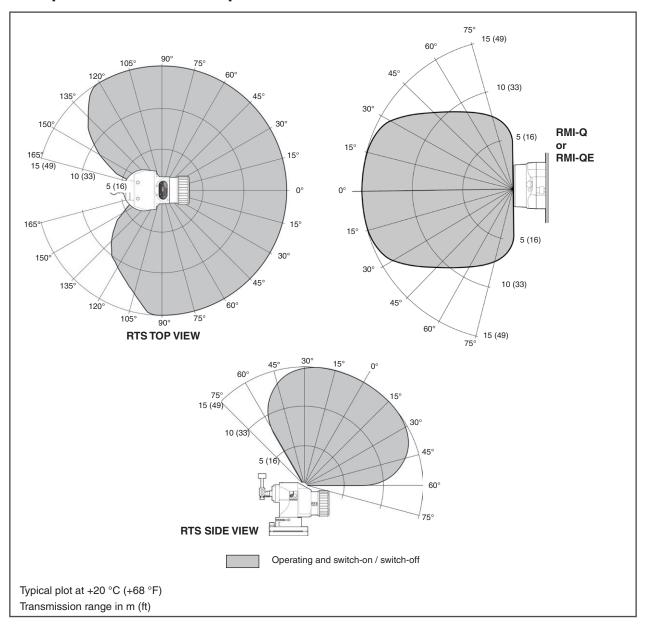
# Installing the RTS with a RMI-Q or RMI-QE



2 www.renishaw.com/rts



### RTS 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/rts #renishaw +44 (0) 1453 524524 wk@renishaw.com

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