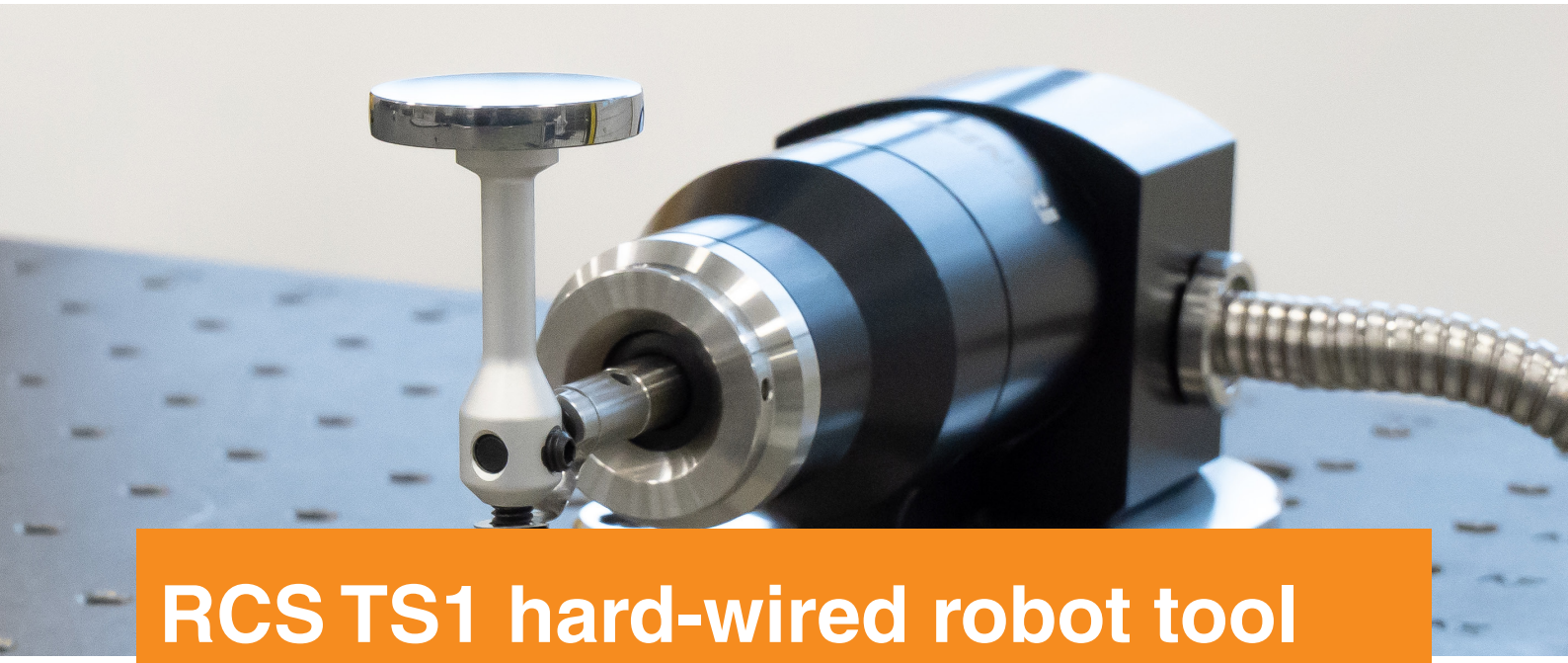
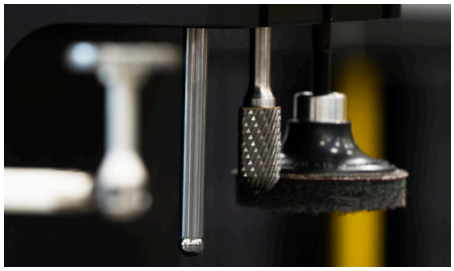
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RCS TS1 hard-wired robot tool setter

Designed for industrial automation

The RCS P-series TS1 tool setter enables the precise alignment of tool frames allowing you to set up and recover robot cells efficiently and reliably. It is best suited as a permanent component of a robot cell due to its robust design and ability to assist with product quality control. The RCS TS1 provides a way to set tools, including calibration of spindles, with ease.



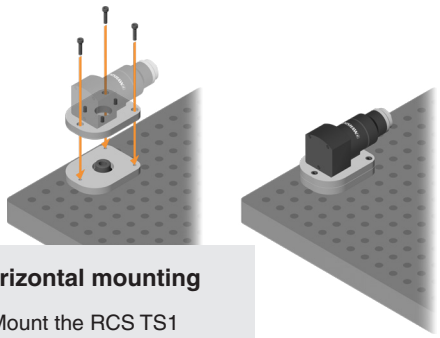


Features and benefits

- **Increase throughput** — remove the need for manual robot reteaching after cell relocation, maintenance, or collision. Resulting in less robot downtime.
- **Set any tool** — the RCS TS1 has the option to use either a straight stylus or disc stylus, to suit your application.
- **Versatility** — the design of the tool setter includes horizontal and vertical mounting options to complement any styli choice.
- **Robot specific** — Renishaw's first line of probes designed for use on robots, suitable for harsh environments and conforming to IPX8 rating.
- **Hard-wired** — provides a reliable and trustworthy connection type for easier set up and reduce loss of transmission.
- **Reduce waste** — calibrated probes produce more accurate product resulting in less waste and support lean manufacturing.
- **Long cable and conduit options** — use the RCS TS1 no matter the size of your cell, with a 2 m and 5 m conduit extension options.

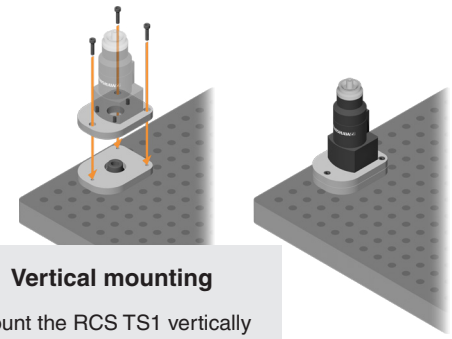
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Mounting method



Horizontal mounting

Mount the RCS TS1 horizontally and use the disc stylus for spindle calibration.



Vertical mounting

Mount the RCS TS1 vertically and use the straight stylus for tool frame location.

Specification

Recommended styli		M4 50 mm to 100 mm stylus. Material of the stylus depends on the application. Use of an in-line break stem is advised.
Weight with bracket mount		480 g
Sense directions		Radial (XY) / Axial (Z)
Unidirectional reliability		1.00 µm (40 µin) 2s
Stylus trigger force **Radial low force** **Radial high force** **Axial direction**		 1.00 N, 102 gf (3.59 ozf) 1.85 N, 188 gf (6.65 ozf) 7.40 N, 754 gf (26.61 ozf)
Stylus overtravel limits radial plane		14.87 mm (0.55 in) ±12.5°
Stylus overtravel limits axial plane		6.5 mm (0.26 in)
Mounting		Mounting base plate. Single bolt (M10) or 3 x M4.
Environment	**IP rating**	IPX8, BS EN 60529:1992+A2:2013
	Storage temperature	–10 °C to +70 °C (14 °F to +158 °F)
	Operating temperature	+10 °C to +40 °C (+41 °F to +131 °F)
Cable		4 core screen cable with polyurethane sheath. Each core 7/0.2 insulated. Ø 4.35 mm X 1.0m (3 ft 3 in).
Contact type		Normally open or normally closed.
Supply voltage		12 Vdc to 30 Vdc
Supply current		18 mA nominal, 25 mA max
Output current		50 mA max
Protection		Short circuit.



www.renishaw.com/industrial-automation

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Part no.: H-6967-0011