

TCR20 module change rack for PH20

TCR20 is a compact probe module rack for use with PH20 that provides the capability for quick and repeatable tool changing and tip correction

Based on the industry standard range of MCR20 rack systems, TCR20 securely stores modules for rapid automatic changing, protecting mating surfaces from any airborne contaminants within the working envelope of the machine.

TCR20 carries the full range of TP20 modules which are compatible with the PH20 system and can accommodate up to six module/stylus combinations.

TCR20 features an integrated tip datum artefact in the centre of the rack assembly, minimising the cycle time of the tip correct procedure.

Tip correction is key when the highest level of accuracy is required. It compensates for any residual variations following a tool change, maintaining a market leading level of accuracy from PH20.

Innovations

Tip correction - integrated tip correction artefact

Port design - capable of holding up to six TP20 module combinations for highly repeatable module changing

Quick alignment - simple alignment routine means TCR20 can be ready to use in minutes

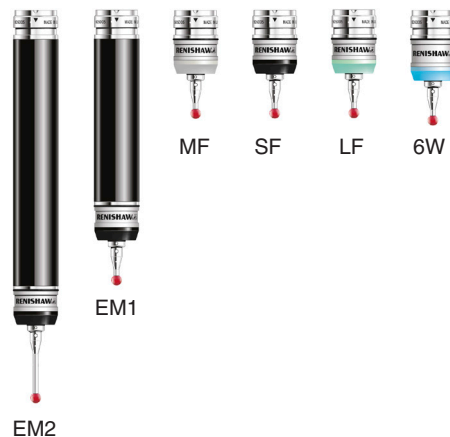


Key features

Compact design - suitable for a wide range of CMM sizes

Head compatibility - designed for use with PH20, the only 5-axis, infinitely positioning, touch-trigger head

Probe compatibility - designed to hold, protect and change Renishaw's range of industry standard TP20 modules*



* The extended force TP20 module is not compatible with the PH20 system

Specification



Specification summary		
Dimensions	Width	200 mm (7.87 in)
	Depth	57 mm (2.24 in)
	Base diameter	50 mm (1.97 in)
	Height to top of rack	186 mm (7.32 in)
	Height to bottom of ports	159 mm (6.26 in)
Port entry velocity		Maximum 800 mm/s (31.50 in/sec)
Mounting orientation		Ports in a horizontal position only
Tip correct artefact		Centre of rack assembly
Overtravel		Not required - protection provided by PH20 head
Inhibit range		Not required - provided by UCC controller
Part number summary		
TCR20 rack kit		A-1371-1001
TP20 standard force module		A-1371-0270
TP20 medium force module		A-1371-0271
TP20 low force module		A-1371-0392
TP20 6-way		A-1371-0419
TP20 EM1 standard force module		A-1371-0430
TP20 EM2 standard force module		A-1371-0431

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