

TCR20 module change rack for PH20

TCR20 is a compact probe module rack that provides quick, 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.

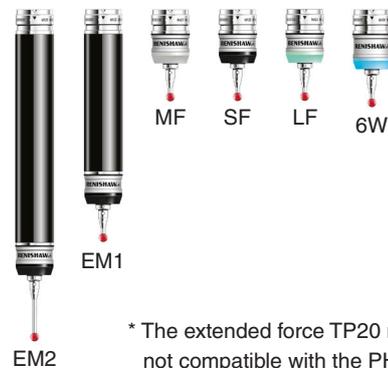
TCR20 features an integrated tip datum artefact in the centre of the rack assembly, minimising the cycle time of the tip correct procedure.

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.

Leg mounted and rail mounted versions are available, to help optimise installation for a variety of applications.



TP20 stylus modules



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

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*.

Innovations

Tip correction

Integrated tip correction artefact.

Port design

Capable of holding up to six TP20 module combinations for highly repeatable module changing.

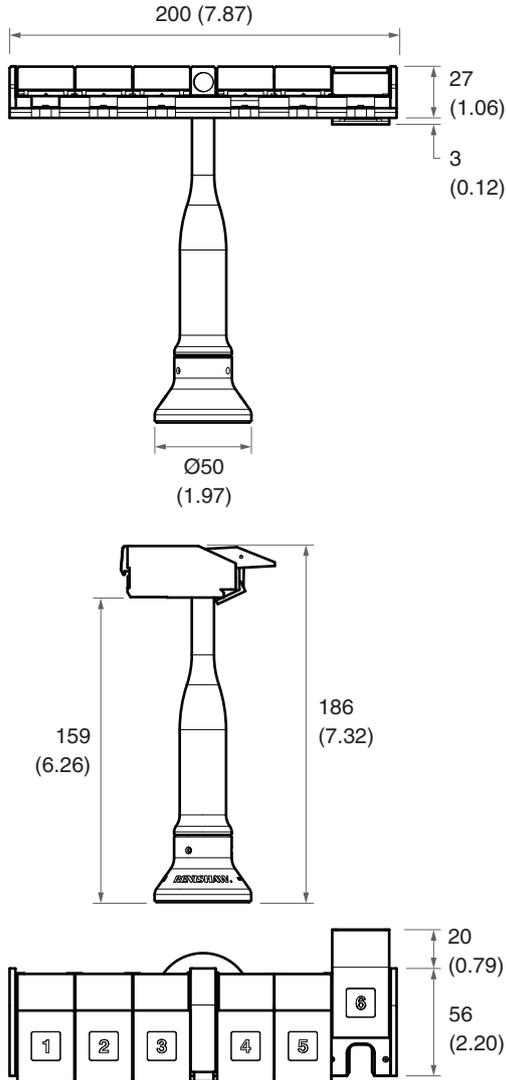
Quick alignment

Simple alignment routine means TCR20 can be ready to use in minutes.

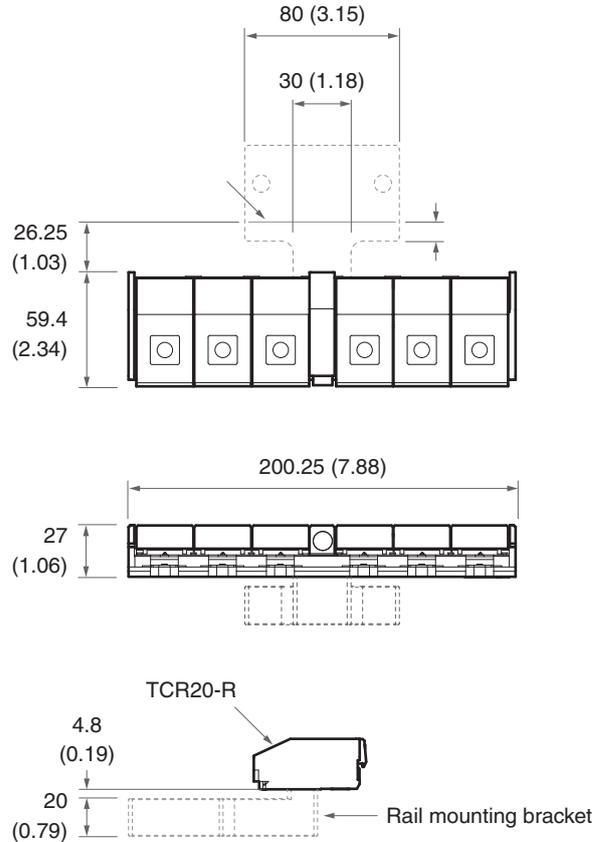
Dimensions

Dimensions in mm (in)

TCR20



TCR20-R



Specification

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

www.renishaw.com/TCR20

#renishaw

+44 (0) 1453 524524 uk@renishaw.com

© 2013–2023 Renishaw plc. All rights reserved. RENISHAW® and the probe symbol are registered trade marks of Renishaw plc. Renishaw product names, designations and the mark 'apply innovation' are trade marks of Renishaw plc or its subsidiaries. Other brand, product or company names are trade marks of their respective owners. Renishaw plc. Registered in England and Wales. Company no: 1106260. Registered office: New Mills, Wotton-under-Edge, Glos, GL12 8JR, UK. WHILE CONSIDERABLE EFFORT WAS MADE TO VERIFY THE ACCURACY OF THIS DOCUMENT AT PUBLICATION, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS AND LIABILITY, HOWSOEVER ARISING, ARE EXCLUDED TO THE EXTENT PERMITTED BY LAW.

Part no.: H-1000-1371-02-A
Issued: 03.2023