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# TCR20 module change rack for PH20

## TCR20 is a compact probe module rack that provides quick, repeatable tool changing and tip correction

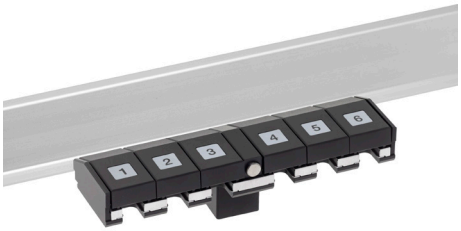
Based on the industry standard range of MCR20 rack systems, TCR20 securely stores modules for rapid automatic changing, protecting mating surfaces from any airborne contaminants within the working envelope of the machine.

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.

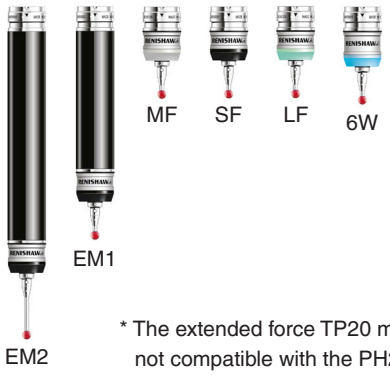
Leg mounted and rail mounted versions are available, to help optimise installation for a variety of applications.







**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 compatibilty**

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**

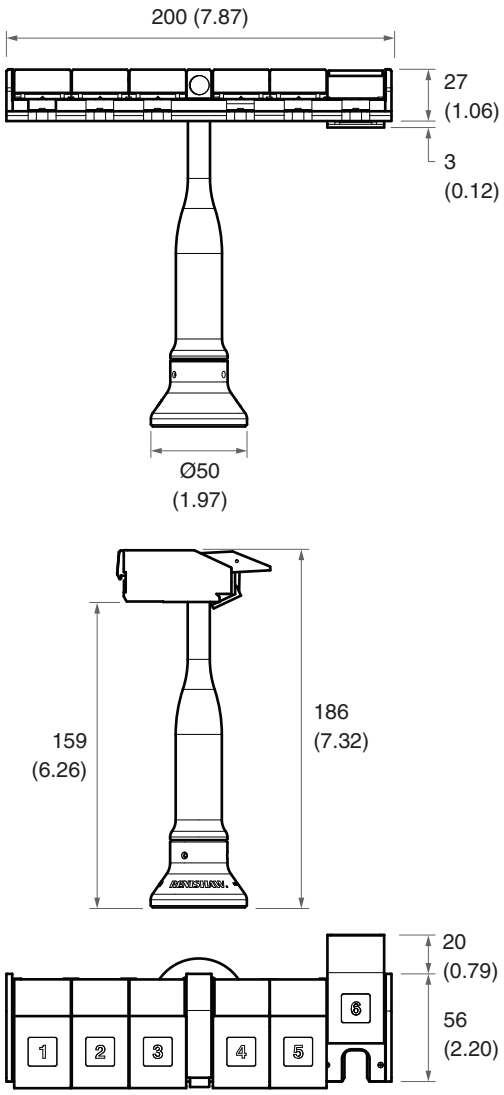
Simple alignment routine means TCR20 can be ready to use in minutes.

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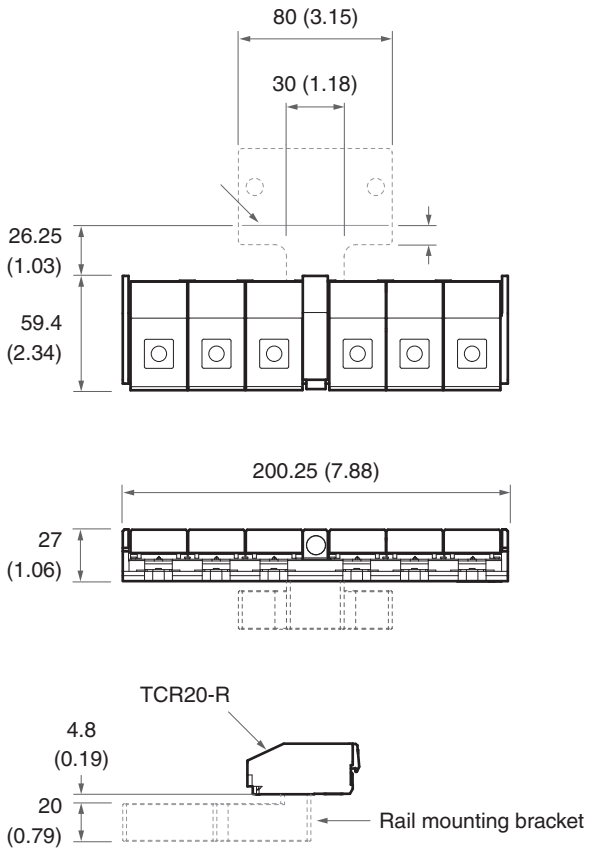
# Dimensions

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**


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