

PH20 PLUS 5-axis touch-trigger system

PH20 PLUS specification

Mass (head only)	810 g
Operating temperature range	+15 °C to +35 °C
Storage temperature range	–25 °C to +70 °C
Head warm up time	30 minutes
Maximum B-axis rotation speed	3 rev/s
Maximum head touch speed	50 mm/s
A-axis rotation angle	–115° to 115°
B-axis rotation angle	Infinite rotation
Angular resolution	0.4 µrad
Bearing type	Mechanical
Joystick options	MCUlite-2, MCU5-2, MCU W-3
Rack changing	PCR20, FCP1 TC (PE20 and PB20), TCR20, FCP2 (current TP20 modules)

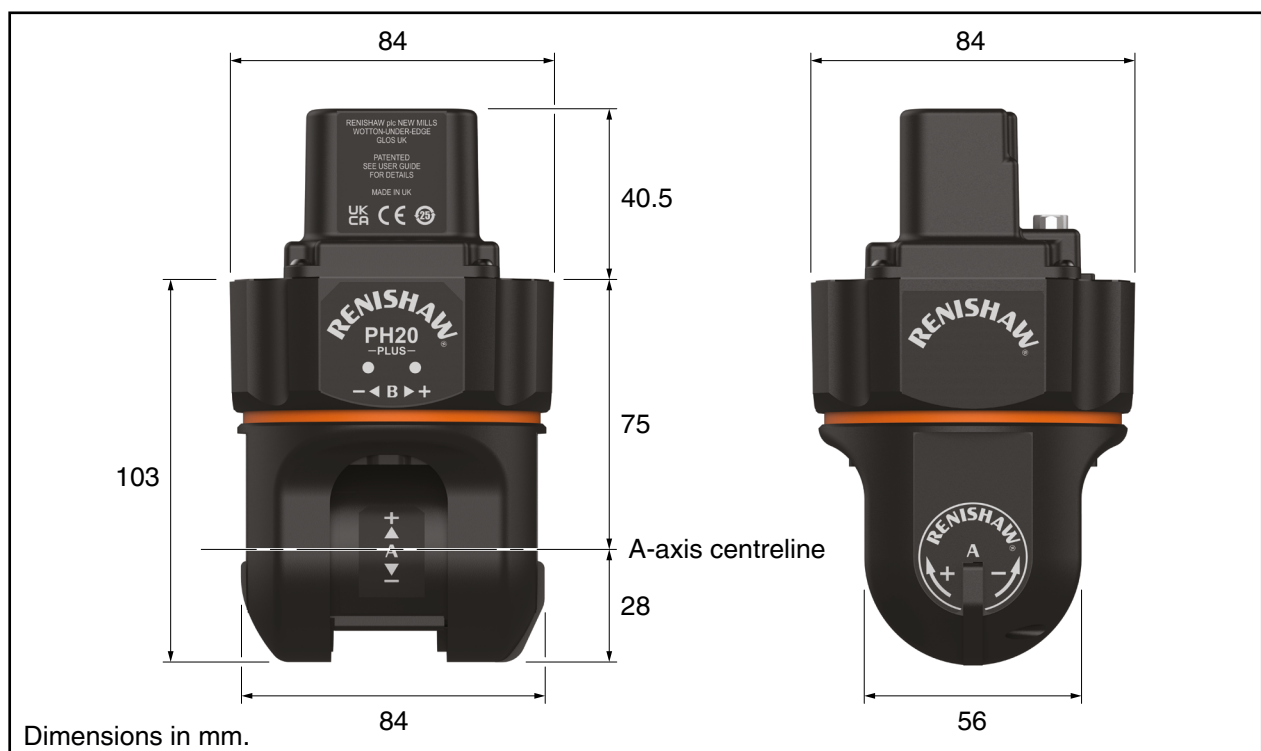
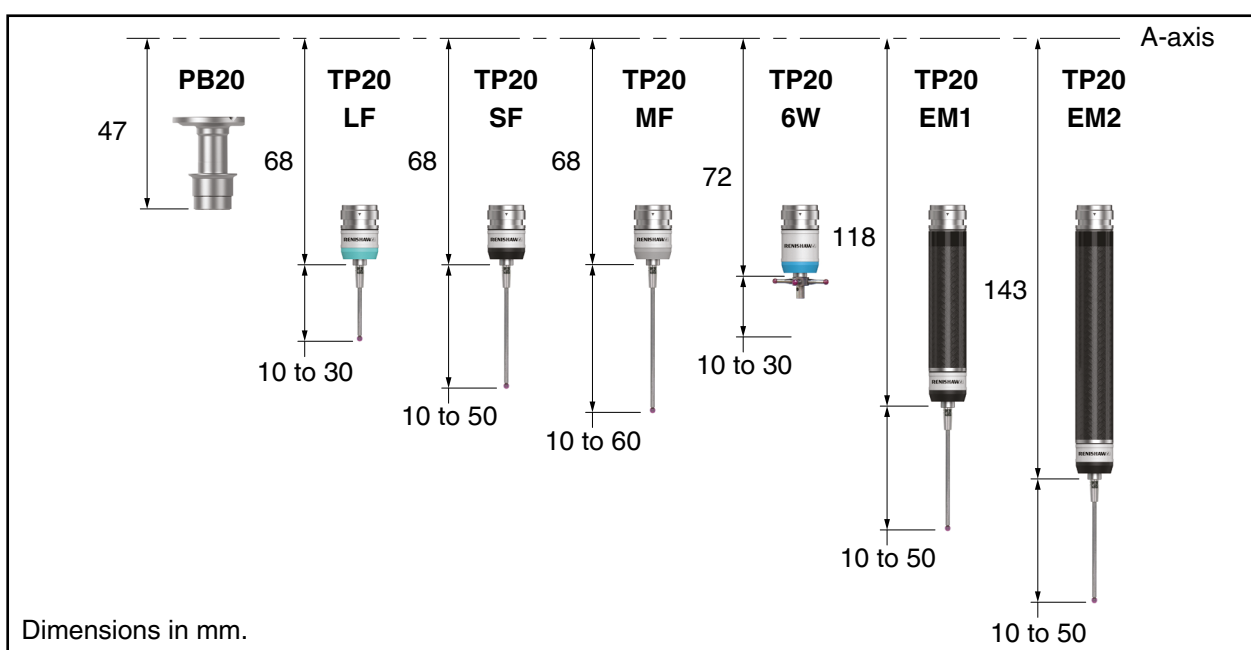
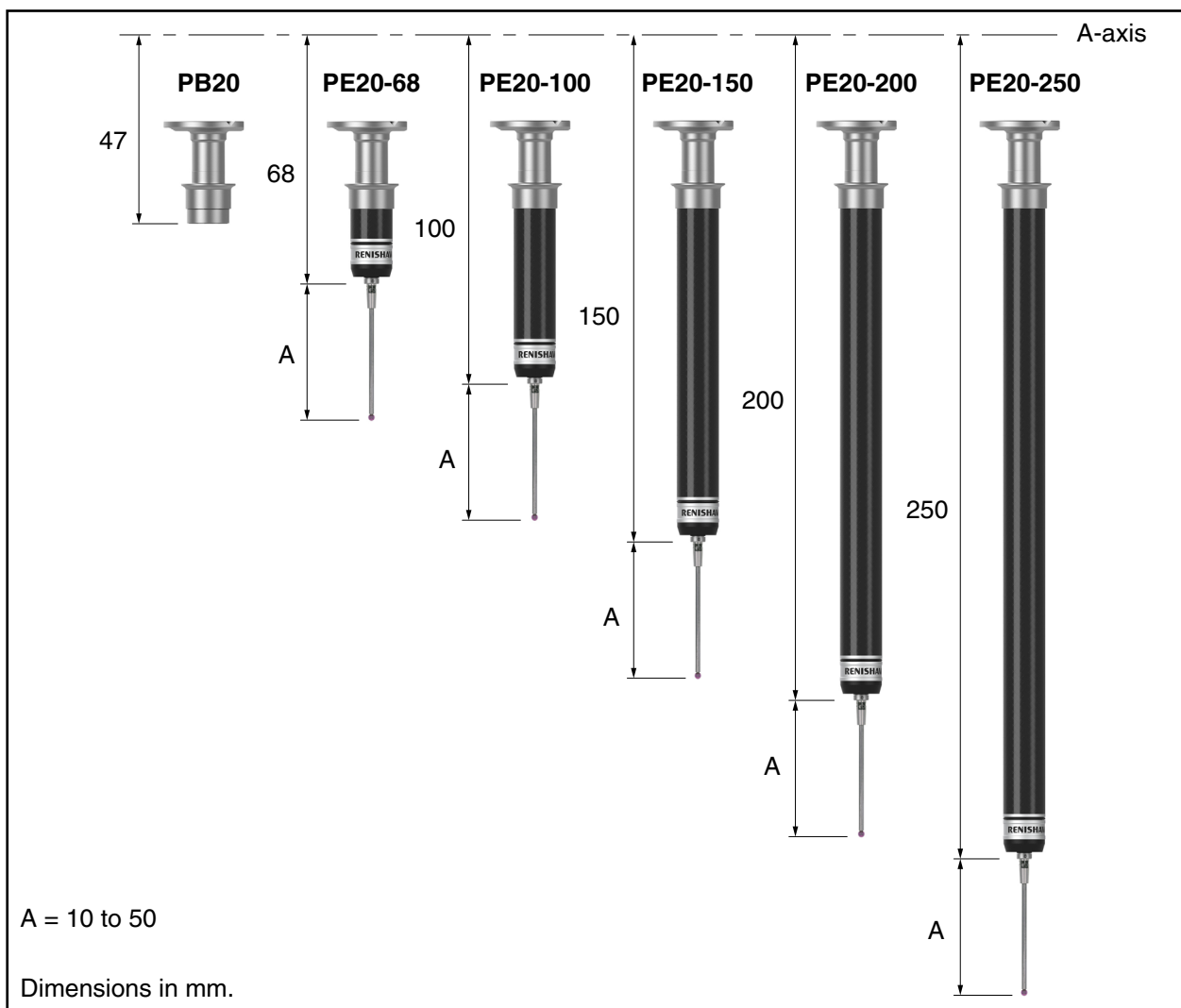


Figure 1 PH20 PLUS dimensions



PCR20 and FCP component specifications

Width	315 mm
Depth	108 mm
Base diameter	55 mm
Stem diameter	25 mm
Port entry velocity	Maximum 800 mm/s
Mounting orientation	Ports in horizontal position only
Tip correct artefact	Centre of rack assembly
Overtravel	None (overtravel in PH20 PLUS head)
Inhibit range	None (provided by UCC controller)
Maximum port configuration	6 × FCP1 TC, 1 × FCP C

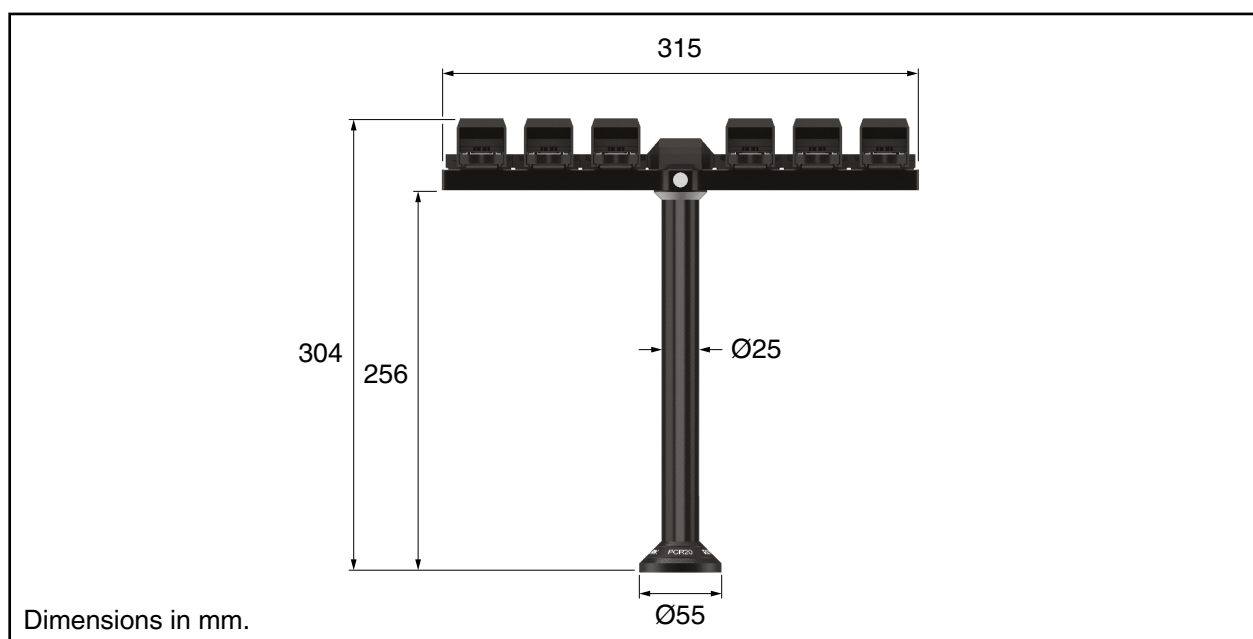


Figure 4 PCR20 rack dimensions

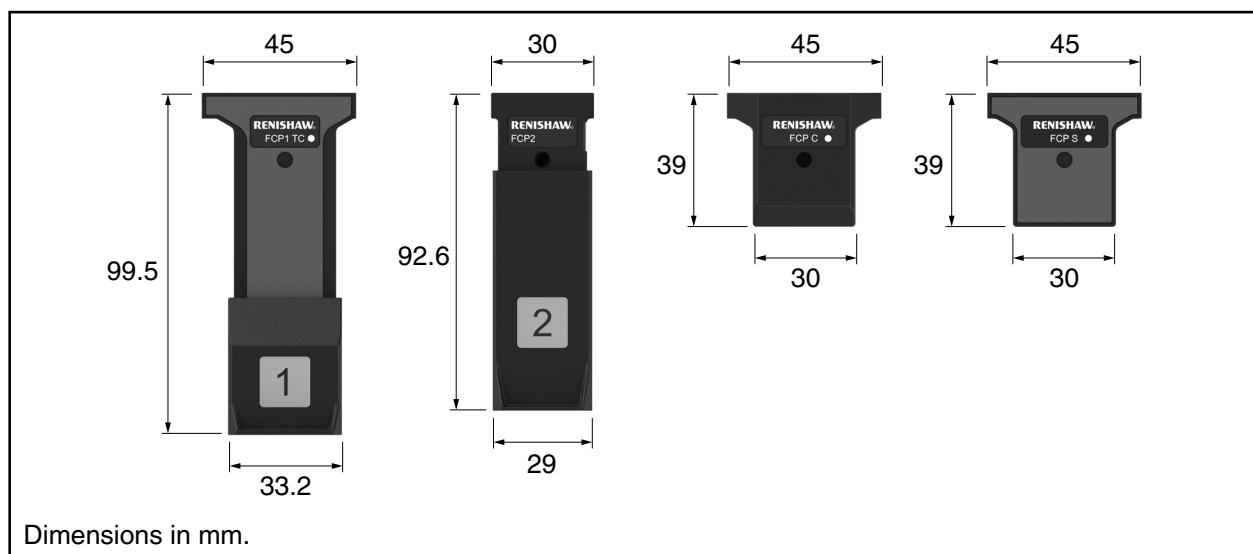


Figure 5 FCP component dimensions

PH20 PLUS cable connections

15-way HD D-type socket pins	Function	Core colour	15-way D-type plug pins
11	Comms D+	Green	1
2	0 V	Black	2
1	Comms U+	Orange	3
7	0 V	White	4
13	Motor B0	Blue	5
3	+20 V	Red	6
4	Motor A2	Grey	7
10	Motor A0	Pink	8
9	0 V	Inner screen*	9
12	Comms D-	Green/black	10
6	Comms U-	Orange/black	11
8	+20 V	Clear	12
14	Motor B1	Violet	13
15	Motor B2	Yellow	14
5	Motor A1	Brown	15
Shell		Outer screen	Shell

* In pre-crimped cables this will be yellow/green.

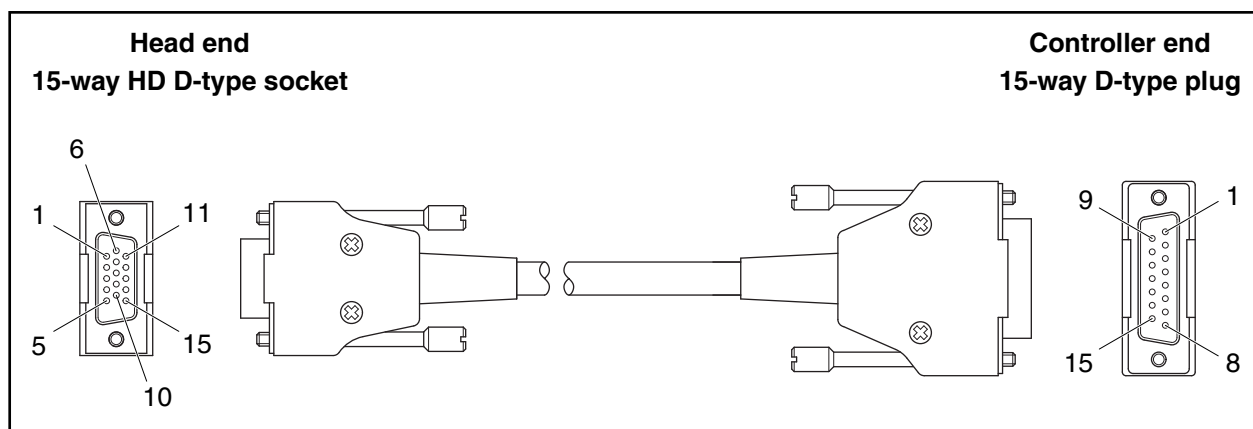


Figure 6 PH20 PLUS cable connections

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