

FAST MOVING TECHNOLOGY


STÄUBLI

TX2-90 Range

6 axis industrial robots



Characteristics

	TX2-90	TX2-90L	TX2-90XL
Maximum load	14 kg (20 kg under conditions)	12 kg (15 kg under conditions)	7 kg (9 kg under conditions)
Nominal load	6 kg	5 kg	4 kg
Reach (between axis 1 and 6)	1000 mm	1200 mm	1450 kg
Number of degrees of freedom	6	6	6
Repeatability - ISO 9283	± 0,03 mm	± 0,035 mm	± 0,04 mm
Weight	114 kg	117 kg	119 kg
Attachement methods			

Performance

Joint speed -axis 1	330°/s	345°/s	330°/s
Joint speed -axis 2	340°/s	340°/s	350°/s
Joint speed -axis 3	430°/s	420°/s	410°/s
Joint speed -axis 4	540°/s	540°/s	540°/s
Joint speed -axis 5	475°/s	475°/s	475°/s
Joint speed -axis 6	760°/s	760°/s	760°/s
Maximum speed at load gravity center	10,9 m/s	11,1 m/s	11,6 m/s
Maximum inertia axis 5	1,5 kg.m²	1,25 kg.m²	1 kg.m²
Maximum inertia axis 6	0,25 kg.m²	0,20 kg.m²	0,15 kg.m²
Brakes	All axes		

Work envelope and range of motion

Maximum reach between axis 1 and 5 (R. M)	900 mm	1100 mm	1350 mm
Minimum reach between axis 1 and 5 (R.m1)	200 mm	272 mm	327 mm
Minimum reach between axis 2 and 5 (R.m2)	256 mm	320 mm	391 mm
Reach between axis 3 and 5 (R.b)	425 mm	550 mm	650 mm

Axis 1 (A)	± 180°
Axis 2 (B)	± 147,5°/-130°
Axis 3 (C)	± 145 °
Axis 4 (D)	± 270°
Axis 5 (E)	+ 140°/-115°
Axis 6 (F)	± 270° ⁽¹⁾

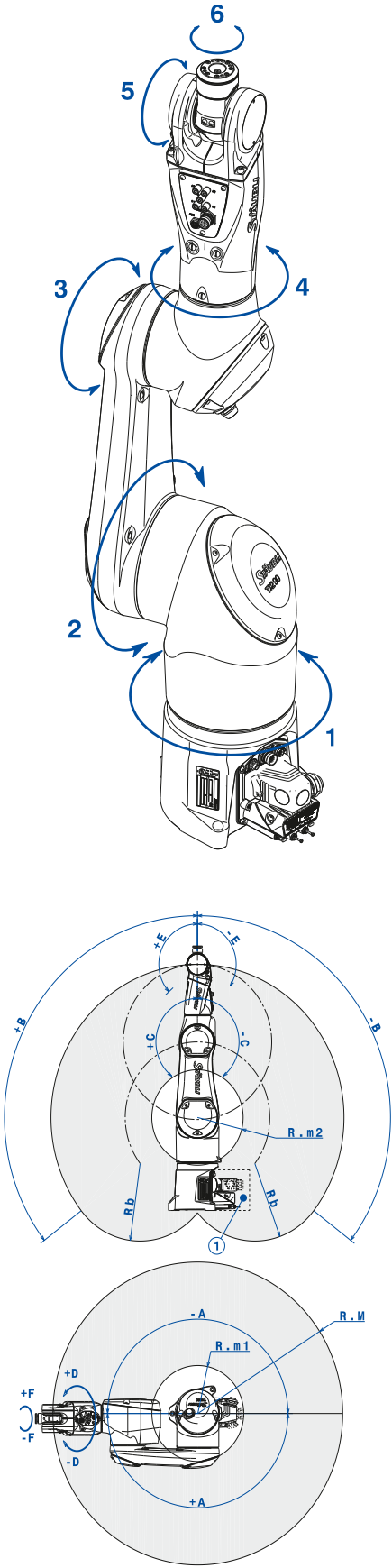
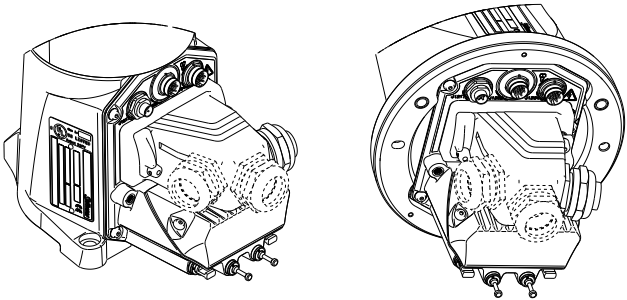
(1) Software configurable up to ± 11 250°

Installation environment

Working temperature according to NF EN 60 204-1	+5°C to +40°C
Humidity according to NF EN 60 204-1	30% to 95% max non-condensing
Vertical cable outlet version	Available
Pressurized version	Available
Controler	CS9
Cleanroom standard ISO 14644-1	5
Protection class according to EN 60529	IP65/IP67

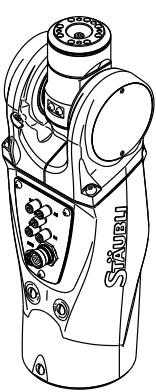
TX2-90

Cable outlet horizontal and vertical (option)



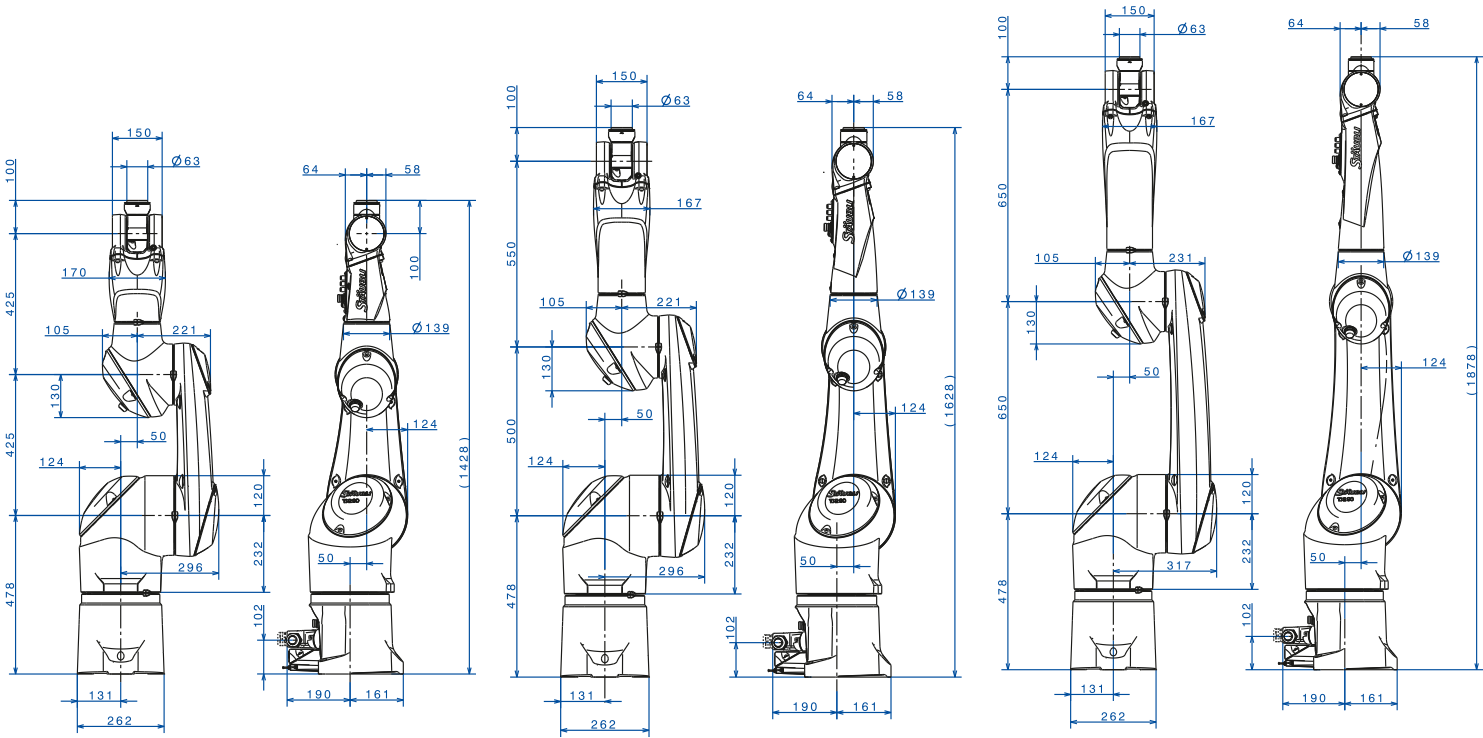
User interface

FOREARM CONNECTIONS	
Pneumatic	2 direct lines between base and forearm or 1 optional solenoid valve : bi-stable solenoid valves 5/2 « pressure » or mono-stable « center close » solenoid valves 5/3 « pressure » or Mono-stable solenoid valves 3/2 « vacuum »
Electrical	10 electrical lines I/O and Multibus cable inside the arm + 3 electrical lines + 4 Multibus cable cat 5e lines, DIN M12

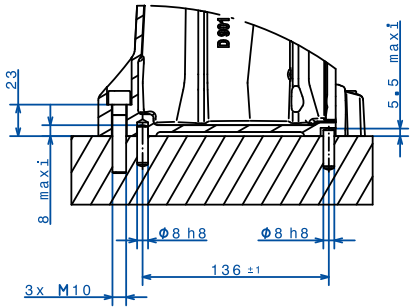
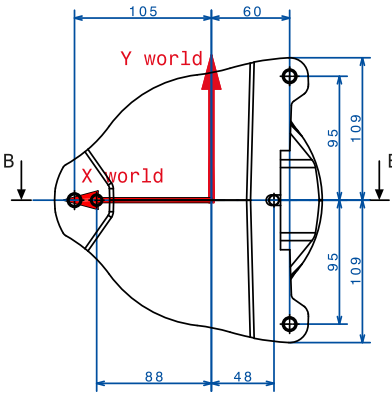


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Dimensions



Mounting (not for vertical cable outlet option)



Sensitive environment versions

Harsh (Automotive, Metal)	Available
ESD (ElectroStatic Discharge) version	Available
HE (Humid Environment)	Available
Stericlean	Available
SCR (Supercleanroom) - class 2 cleanliness ISO 14644-1	Available

Available options

Vertical cable outlet	for smarter integration
H1 oil and grease	for hygienic demands



■ Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

www.staubli.com