

FAST MOVING TECHNOLOGY

STÄUBLI

TX2-60 Range

6 axis industrial robots



Characteristics

	TX2-60	TX2-60L
Load capacity	4.5 kg	3.7 kg
Reach (between axis 1 and 6)	670 mm	920 mm
Number of degrees of freedom	6	6
Repeatability - ISO 9283	± 0.02 mm	± 0.02 mm
Average power consumption	0.405 kW	0.4 kW
Weight	52.2 kg	52.9 kg
UL certification	✓	✓
Attachment methods		

Performance

Joint speed -axis 1	435°/s	435°/s
Joint speed -axis 2	410°/s	385°/s
Joint speed -axis 3	540°/s	500°/s
Joint speed -axis 4	995°/s	995°/s
Joint speed -axis 5	1065°/s	1065°/s
Joint speed -axis 6	1445°/s	1445°/s
Maximum speed at load gravity center	8.4 m/s	11.1 m/s
Maximum inertia axis 5	0.325 kg.m²	0.125 kg.m²
Maximum inertia axis 6	0.1 kg.m²	0.032 kg.m²
Brakes	All axes	

Work envelope and range of motion

Maximum reach between axis 1 and 5 (R. M)	600 mm	850 mm
Minimum reach between axis 1 and 5 (R.m1)	190 mm	209 mm
Minimum reach between axis 2 and 5 (R.m2)	189 mm	208 mm
Reach between axis 3 and 5 (R.b)	310 mm	450 mm

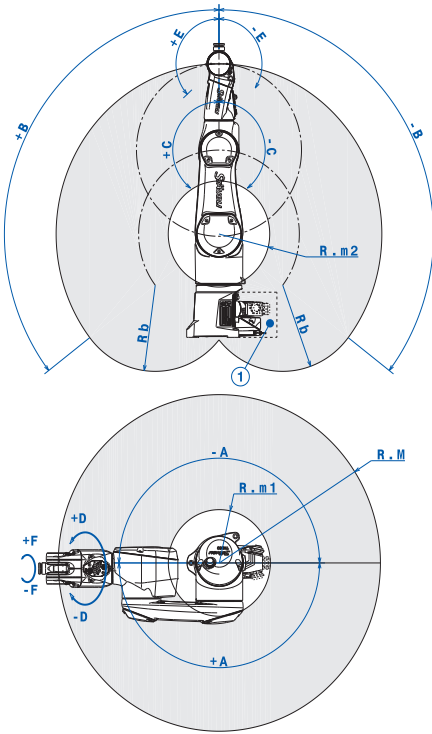
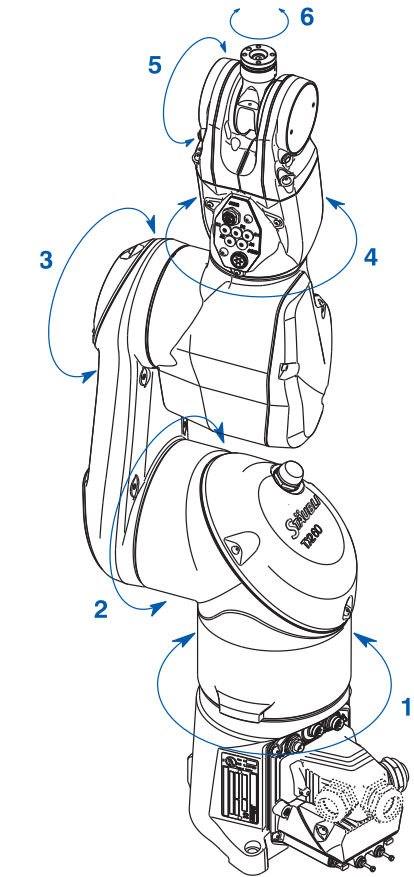
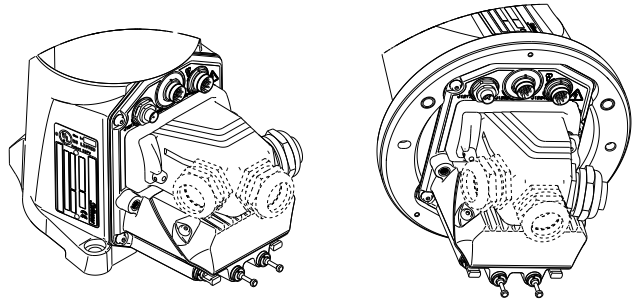
Axis 1 (A)	± 180°	± 180°
Axis 2 (B)	± 127.5°	± 127.5°
Axis 3 (C)	± 142.5 °	± 152.5 °
Axis 4 (D)	± 270°	± 270°
Axis 5 (E)	+ 132.5°/-121°	+ 132.5°/-121°
Axis 6 (F)	± 270° ⁽¹⁾	± 270° ⁽¹⁾

(1) Software configurable up to ± 11 250°

Installation environment

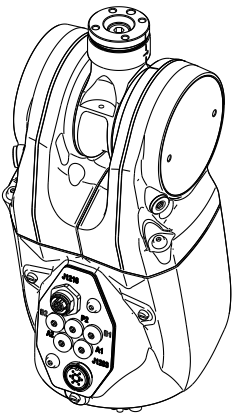
Working temperature according to NF EN 60 204-1	+5°C to +40°C
Humidity according to NF EN 60 204-1	30% to 95% max non-condensing
Vertical cable outlet version	Available
Pressurized version	Available
Controller	CS9
Cleanroom standard ISO 14644-1	5
Protection class according to EN 60529	IP65/IP67

Cable outlet horizontal and vertical (option)

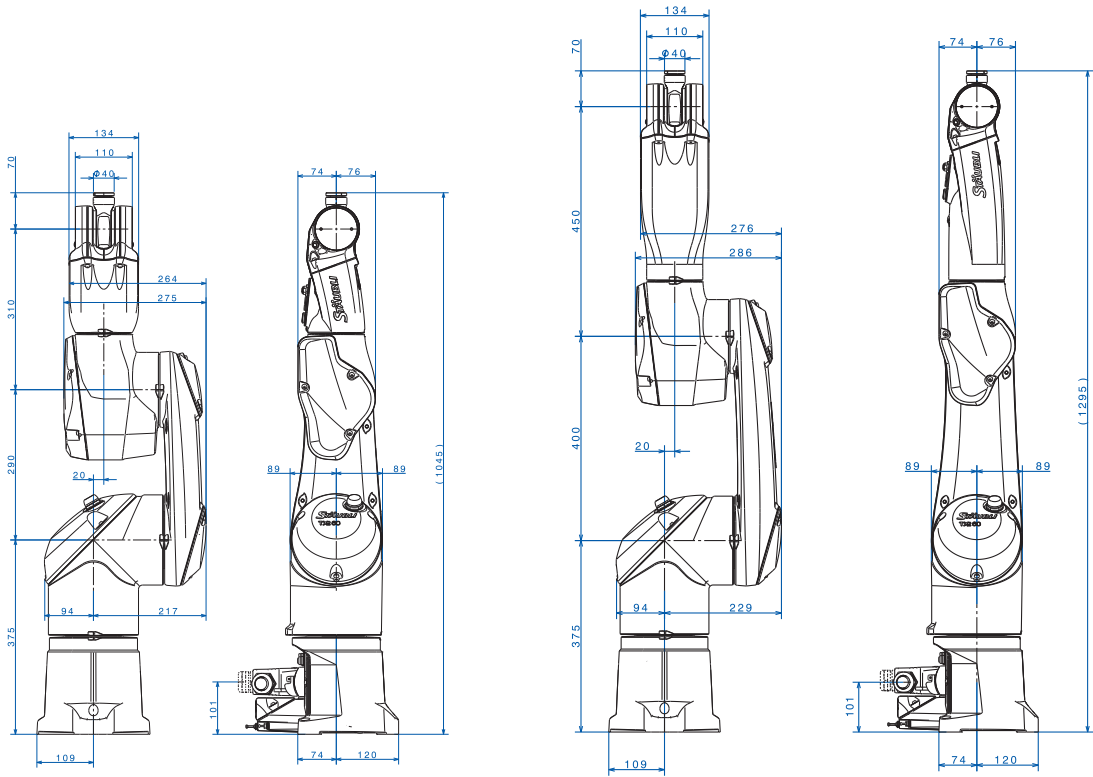


User interface

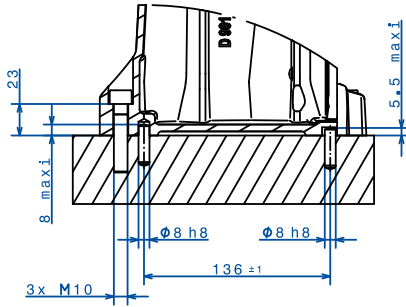
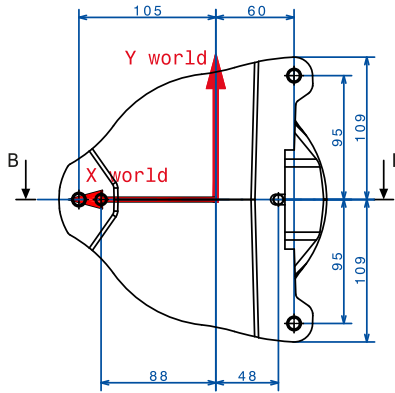
FOREARM CONNECTIONS	
Pneumatic	2 direct lines between base and forearm or 2 optional solenoid valves : bi-stable solenoid valves 5/2 « pressure » or mono-stable « center close » solenoid valves 5/3 « pressure » or Mono-stable solenoid valves 3/2 « vacuum »
Electrical	10 electrical lines I/O and Multibus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



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



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Global presence of the Stäubli Group

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