

FAST MOVING TECHNOLOGY

STÄUBLI

TX2-200 range

6 axis industrial robot



Characteristics

	TX2-200	TX2-200L
Load capacity	170 kg	110 kg
Reach (between axis 1 and 6)	2209 mm	2609 mm
Number of degrees of freedom	6	6
Repeatability - ISO 9283	±0.02 mm	± 0.02 mm
Average energy consumption	1.638 kW	1.305 kW
Weight	980 kg	1000 kg
UL certification	ongoing certification	ongoing certification
Attachment methods		

(1) Ceiling consult us

Performance

Joint speed - axis 1	160°/s	160°/s
Joint speed - axis 2	160°/s	160°/s
Joint speed - axis 3	165°/s	165°/s
Joint speed - axis 4	260°/s	260°/s
Joint speed - axis 5	360°/s	360°/s
Joint speed - axis 6	450°/s	450°/s
Maximum speed at load gravity center	12 m/s	14 m/s
Maximum inertia axis 5	50 kg.m²	40 kg.m²
Maximum inertia axis 6	25 kg.m²	15 kg.m²
Brakes	All axes	

Work envelope and range of motion

Maximum reach between axis 1 and 5 (R. M)	2000 mm	2400 mm
Minimum reach between axis 1 and 5 (R.m1)	365 mm	528 mm
Minimum reach between axis 2 and 5 (R.m2)	545 mm	690mm
Reach between axis 3 and 5 (R.b)	800 mm	1200 mm

Axis 1 (A)	± 180°	± 180°
Axis 2 (B)	+ 120°/-115°	+ 120°/-115°
Axis 3 (C)	± 145°/-140°	± 145°/-140°
Axis 4 (D)	± 270°	± 270°
Axis 5 (E)	± 120°	± 120°
Axis 6 (F)	± 270° (2)	± 270° (2)

(2) Software configurable up to ± 11 250°

Installation environment

Working temperature according to NF EN 60 204-1	+5°C to +45°C
Humidity according to NF EN 60 204-1	50% to 90% max non-condensing
Vertical cable outlet version	Available
Pressurized version	Available
Controller	CS9 HP
Cleanroom standard ISO 14644-1	5
Protection class according to EN 60529	IP65/IP67

Sensitive environment versions

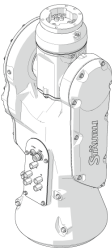
Harsh (Automotive, Metal)	Available
HE (Humid Environment)	Available
Stericlean	Available

Available options

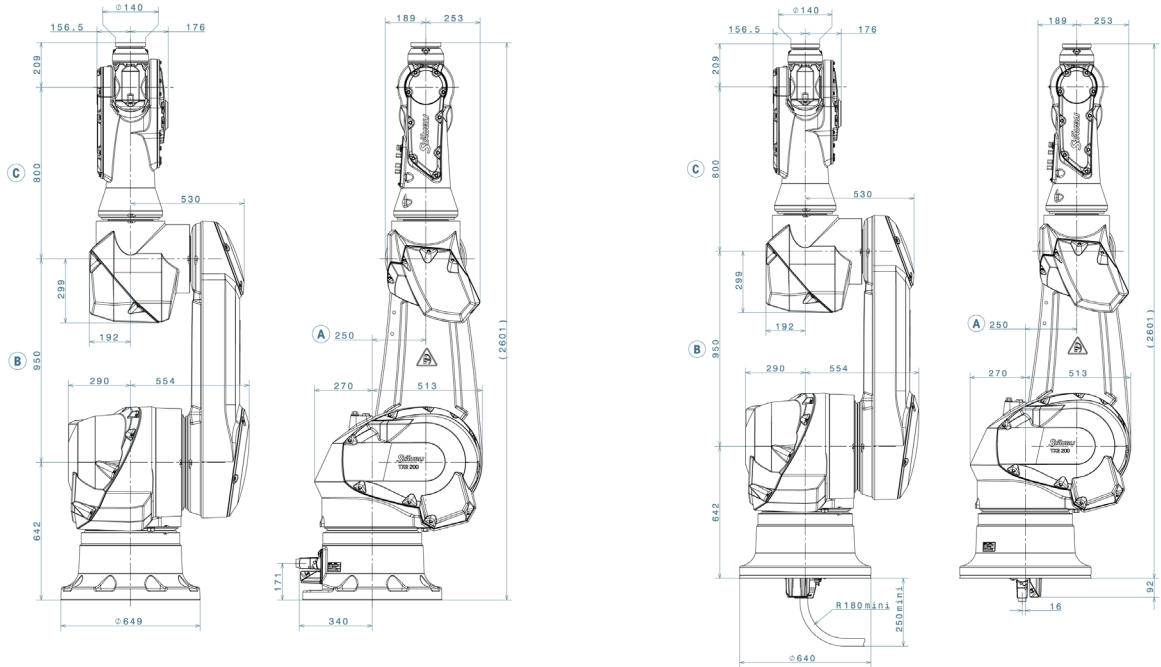
Vertical cable outlet for better sealing	for smarter integration
H1 oil and grease	for hygienic demands

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 »	
Electrical	Standard	1 female 19-contact socket (7 twisted pairs including 2 shielded, 3 power contacts)
	Ethernet	A 19-contact female cylindrical connector with 5 twisted pairs and 3 power contacts + 4-contact female cylindrical connector M12 code D for a Cat 5e Ethernet link.

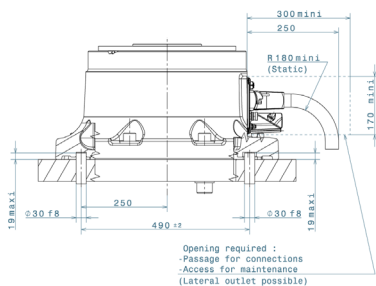
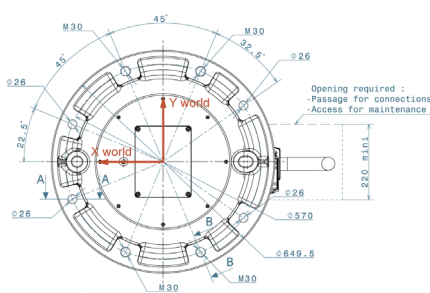


Dimensions

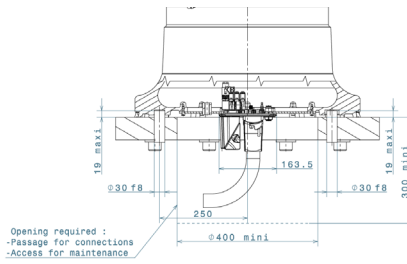
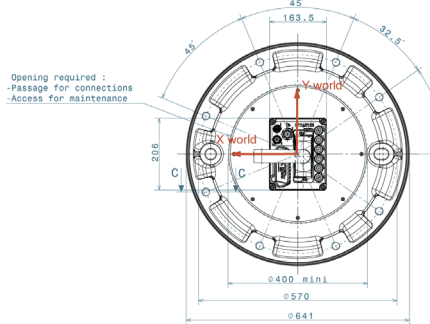


Mounting

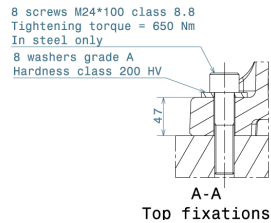
Horizontal cable output



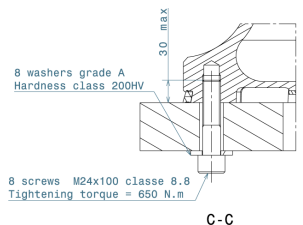
Vertical cable output



Fixation



For horizontal and vertical cable output



For vertical cable output



● Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

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