

TX200 Range

6 axis industrial robot

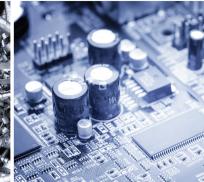












A unique 4 axis and 6 axis robot range for all applications

Whenever industrial companies need speed, repeatability and reliability, Stäubli robots provide the most appropriate answer.

To satisfy its customers, Stäubli Robotics has developed specific solutions, meeting the needs of all industries: electronics, medical, automotive, food, plastics, mechanical or painting.

Designed to work in the most hostile environments, but also to meet stringent cleanroom requirements, Stäubli robots demonstrate their efficiency in all circumstances.

With performance always in mind.

MAN AND MACHINE

Reliability, flexibility, performance



TX200 6-axis industrial robots feature an articulated arm for extraordinary dexterity and flexibility. This range of robots is designed for heavy payloads up to 150 kg and it is adapted to handle various applications in many industrial sectors. The compactness of the arm and the large work envelope allows maximum utilization of cell workspace. The

enclosed structure of the arm allows it to work in sensitive environments.



TX200L model







Optimum use of the work Less floorspace needed, large work envelope



Work in difficult environments Vertical cable outlet, complete protection of connections

The added values of Stäubli robot arms

Eliminating complex cable management

 Connections directly on the robot forearm thanks electrical I/O and Ethernet cable

Precise trajectory performance

- Increased part quality
- Reduced rework costs

Flexible integration on the production line

Multiple attachment methods

Optimum cleanliness, arm motion freedom and production reliability

- All cables and pipes routed through the arm removing obstacles from the work
- Enclosed structure

Customizable color and texture

Choice of finishes

Certifications:





TX200 Robotics | TX200

Characteristics

MODEL	TX200	TX200L
Maximum load	130 kg, 286.6 lb (150 kg, 330 lb under conditions)	80 kg, 176.4 lb (100 kg, 220 lb under conditions)
Nominal load	100 kg, 220 lb	60 kg, 132.2 lb
Reach d'action (between axis 1 and 6)	2194 mm, 86.3 in	2594 mm, 102.1 in
Number of degrees of freedom	6	6
Repeatability – ISO 9283	± 0.06 mm	± 0.1 mm
Stäubli series controller	CS8C HP	CS8C HP
Weight	980 kg, 2160 lb	1000 kg, 2204 lb

MAXIMUM SPEED		
Axis 1	160°/s	160°/s
Axis 2	160°/s	160°/s
Axis 3	160°/s	160°/s
Axis 4	260°/s	260°/s
Axis 5	260°/s	260°/s
Axis 6	400°/s	400°/s
Maximum speed at load gravity center	12 m/s	14 m/s
Maximum inertia axis 5	45 kg.m ²	40 kg.m ²
Maximum intertia Axis 6	20 kg.m ²	15 kg.m ²
Brakes	All a	ixes

WORK ENVELOPPE		
Maximum reach between axis 1 and 5 (R.M)	2000 mm, 78.74 in	2400 mm, 94.49 in
Maximum reach between axis 2 and 5 (R.M)	1750 mm, 68.90 in	2150 mm, 84.65 in
Minimum reach between axis 1 and 5 (R.m1)	365 mm, 14.37 in	528 mm 20.79 in
Minimum reach between axis 2 and 5 (R.m2)	545 mm, 21.47 in	690 mm, 27.17 in
Minimum reach between axis 3 and 5 (R.b)	800 mm, 31.50 in	1200 mm, 47.24 in

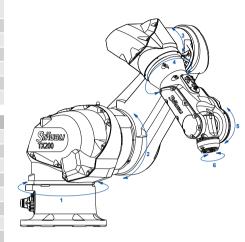
RANGE OF MOTION		
Axis 1 (A)	± 180°	± 180°
Axis 2 (B)	+ 120°/-115°	+ 120°/-115°
Axis 3 (C)	+145°/-140°	+145°/-140°
Axis 4 (D)	± 270°	± 270°
Axis 5 (E)	± 120°	± 120°
Axis 6 (F)	± 270° (1)	± 270° (1)

INSTALLATION ENVIRONNEMENT	
Working temperature according to NF EN 60 204-1	+5°C to +40°C, +41°F to +104°F
Humidity according to standard directive NF EN 60 204-1	30% to 95% max. non-condensing
Attachment methods	Floor/Ceiling
Vertical cable outlet version	•
Pressurized version	•

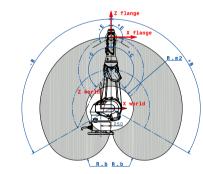
FOREARM CONNECTION	NS		
Pneumatic		2 solenoid valves in option 5/2-way monostable (compressed air) 3 direct lines between the base and the forearm	
	Standard	1 female 19-contact socket (7 twisted pairs including 2 shielded, 3 power contacts)	
Electrical	Ethernet option	A 19-contact female cylindrical connector with 5 twisted pairs and 3 power contacts + 4-contact female cylindrical connector M12 code D for a Cat 5e Ethernet link.	
Cleanroom standard ISO 14644-1		5	
Protection class according to EN 60529		IP65 / IP67	
	-		
MARKET SPECIFIC VE	RSIONS		
ESD (ElectroStatic Discharge) version HE (Humid Environment) version		•	
		•	
Plastics – Euromap 12/67 and SPI interface		•	
Stericlean version		•	

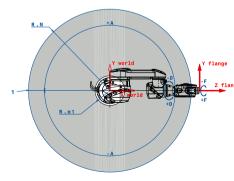
NSF H1 Food graded oil

Motion range



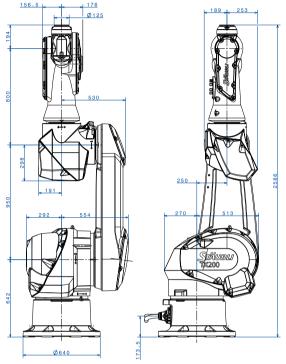
Work envelope



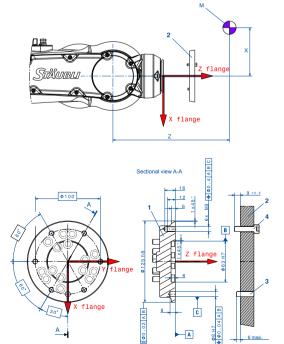


(1) Software configurable up to \pm 18 000°.

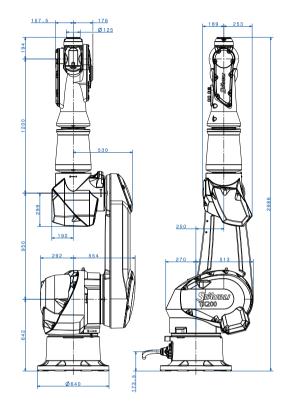
TX200 dimensions



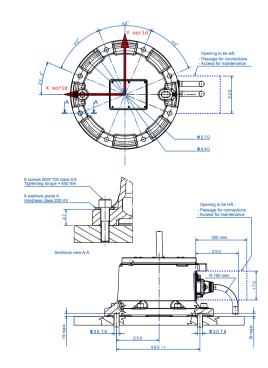
Wrist



TX200L dimensions



Mounting (not for vertical cable outlet option)



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Global presence of the Stäubli Group

www.staubli.com

