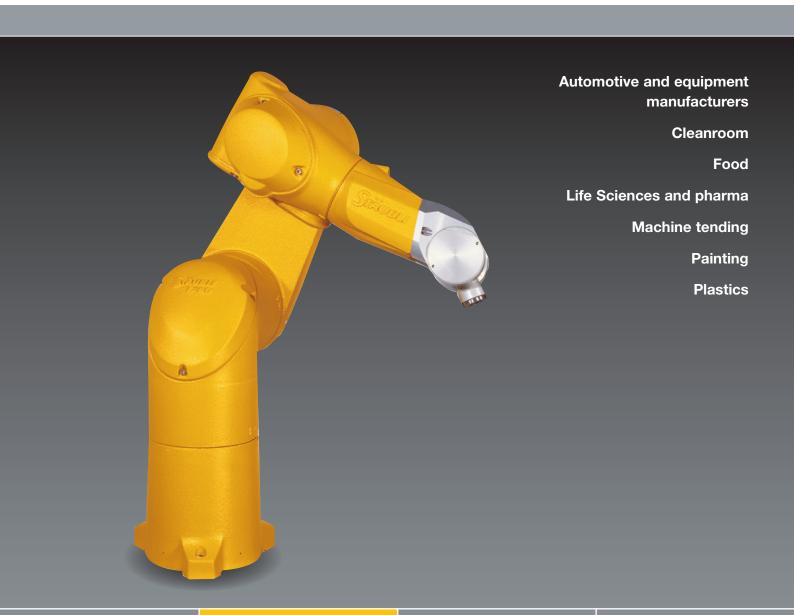


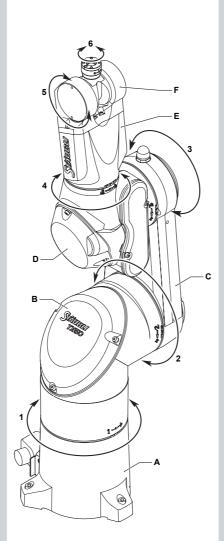


# TX60 series industrial robots



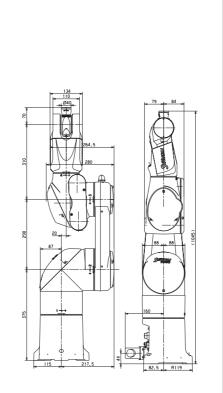
	MODEL	TX60	TX60L
	Characteri	stics	
Maximum load (1)		9 kg	5 kg
Nominal load		3,5 kg	2 kg
Reach (between axis 1 and 6)		670 mm	920 mm
Number of degrees of freedom		6	6
Repeatability - ISO 9283		± 0,02 mm	± 0,03 mm
	Axis 1 (A)	± 180°	± 180°
Motion range	Axis 2 (B)	± 127,5°	± 127,5°
	Axis 3 (C)	± 142,5°	± 142,5°
	Axis 4 (D)	± 270°	± 270°
	Axis 5 (E)	+133,5°/-122,5°	+133,5°/-122,5°
	Axis 6 (F)	± 270° (2)	± 270° (2)
	Maximum reach between axis 1 and 5 (R. M)	600 mm	850 mm
Work envelope	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
	Minimum reach between axis 3 and 5 (R. b)	310 mm	540 mm
	Axis 1	435°/s	435°/s
Maximum speed	Axis 2	410°/s	385°/s
	Axis 3	540°/s	500°/s
	Axis 4	995°/s	995°/s
	Axis 5	1065°/s	1065°/s
	Axis 6		
	AXIS 0	1445°/s	1445°/s
Maxir	mum speed at load gravity center	8 m/s	10,6 m/s
Maximum inertias	Axis 5	0,325 kg.m <sup>2</sup>	0,125 kg.m <sup>2</sup>
Maximum inertias	Axis 6	0,1 kg.m <sup>2</sup>	0,032 kg.m <sup>2</sup>
Weight		51,4 kg	52,5 kg
Brakes All axis			axis
Forearm connections	Pneumatic	2 solenoid valves 5/2-way monostable 1 direct line between the base and the forearm	
Fore	Electrical	1 female 19-contact socket (8 twisted pairs including 2 shielded)	
Cleanroom standard - ISO 14644-1 5			
Protection class (*wrist) according to standard NF EN 60529		IP65 (*67)	
Stäubli CS8 series controller CS8C			
	Installation env	ironment	
Working temperature according to standard directive NF EN 60 204-1 + 5°C to + 40°C			
Humidity according to standard directive NF EN 60 204-1		30% à 95% max. non-condensing	
Attachment methods		Floor/Wa	II/Ceiling
Vertical cable outlet version (3)		•	•
Pressurized version (4)		•	•
HE (H	lumid Environment) version (5)	•	•
Market specific versions			
CR Cleanroom - class 4 cleanliness - ISO 14644-1		•	•
SCR Cleanroom - class 2 cleanliness - ISO 14644-1		•	•
Plasti	ics - Euromap 12/67 interface	•	•



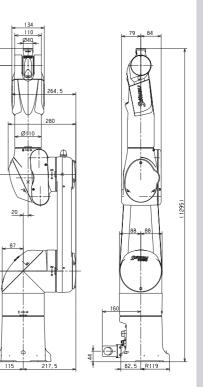


- (1) Under special conditions, consult us.
- (2) Software configurable up to  $\pm 18000^{\circ}.$
- (3) Pressurization kit: necessary for use in an environment with high dust levels or with substantial liquid splashing. This kit generates positive pressure in the arm. Factory installation only and required with Pressurization kit.
- (4) Pressurization kit: necessary for use in an environment with high dust levels or with substantial liquid splashing. This kit generates positive pressure in the arm. Factory installation only and required with Pressurization kit..
- (5) Version HE (Humid Environment): designed for use in humid and oxidizing environments. The arm components are painted individually, providing additional arm protection against oxidation and corrosion. Factory installation only and required with Pressurization kit.

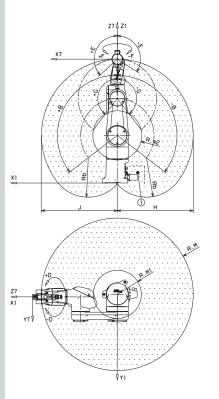
#### TX60 dimensions



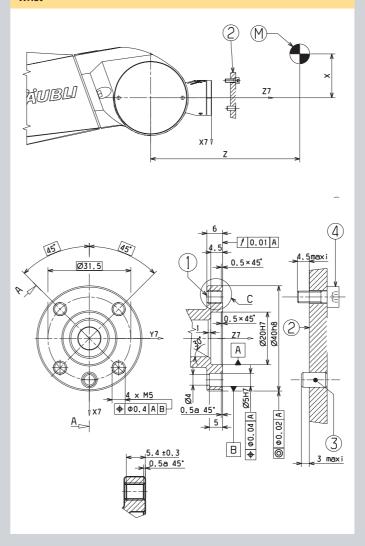
#### TX60L dimensions



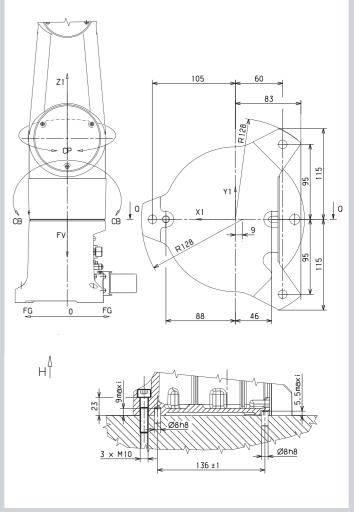
## Work envelope



### Wrist



## Mounting ( not for vertical cable outlet option)





## **Product benefits**

The TX60 robot series feature unique benefits to fit in all environments providing the best possible process quality and increased productivity.



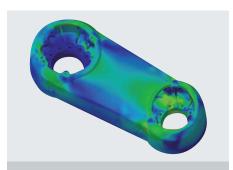
IP67 rating, submersible, high robustness, limited built-up on wrist.



STÄUBLI PATENTED REDUCTION GEAR SYSTEMS Unmatched precision, flexibility and speed, high rigidity, reduced maintenance.



FOREARM CONNECTIONS
Electrical and pneumatic connections close to the tool, user lines already installed.



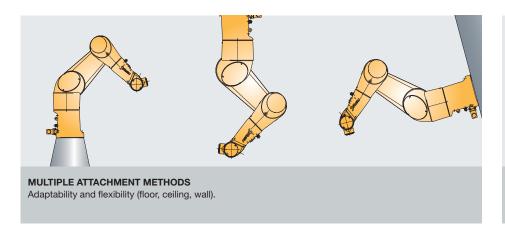
**RIGID STRUCTURE**Better dynamic performance.

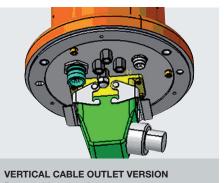


**ENCLOSED STRUCTURE**Easy to clean and use in clean or hostile environments.



**ARM FINISH**Smooth or textured, color customization.





Better cable protections, use in clean environment.

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