

## TX40 series industrial robots



Automotive and equipment  
manufacturers

Cleanroom

Food

Life Sciences and pharma

Machine tending

Plastics

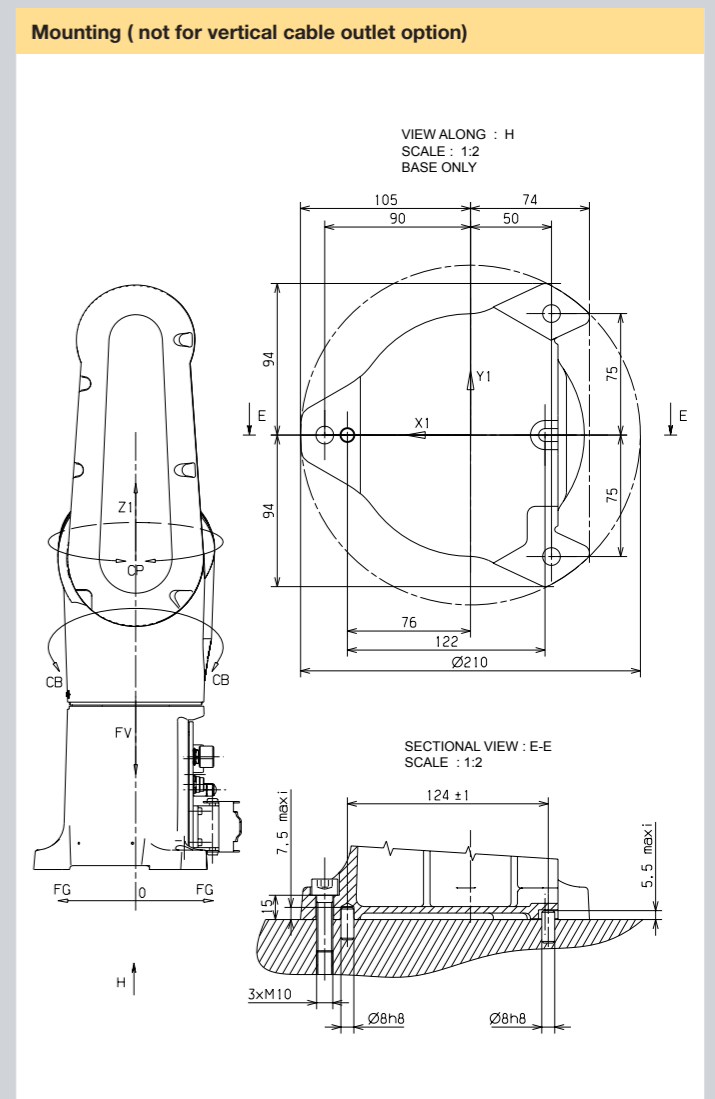
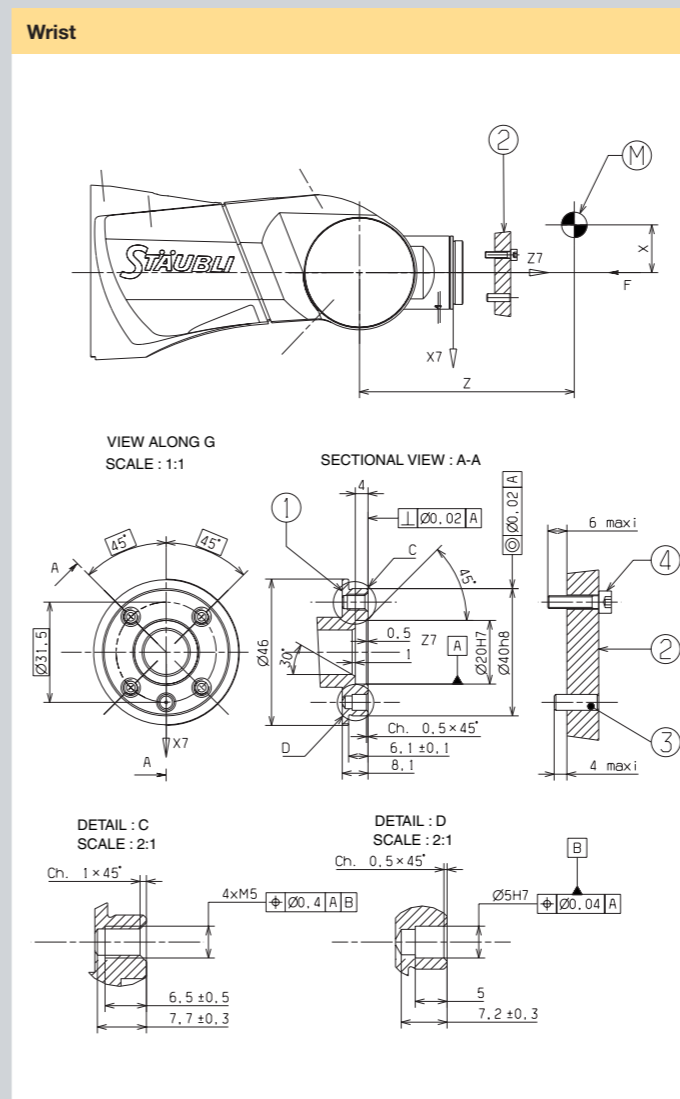
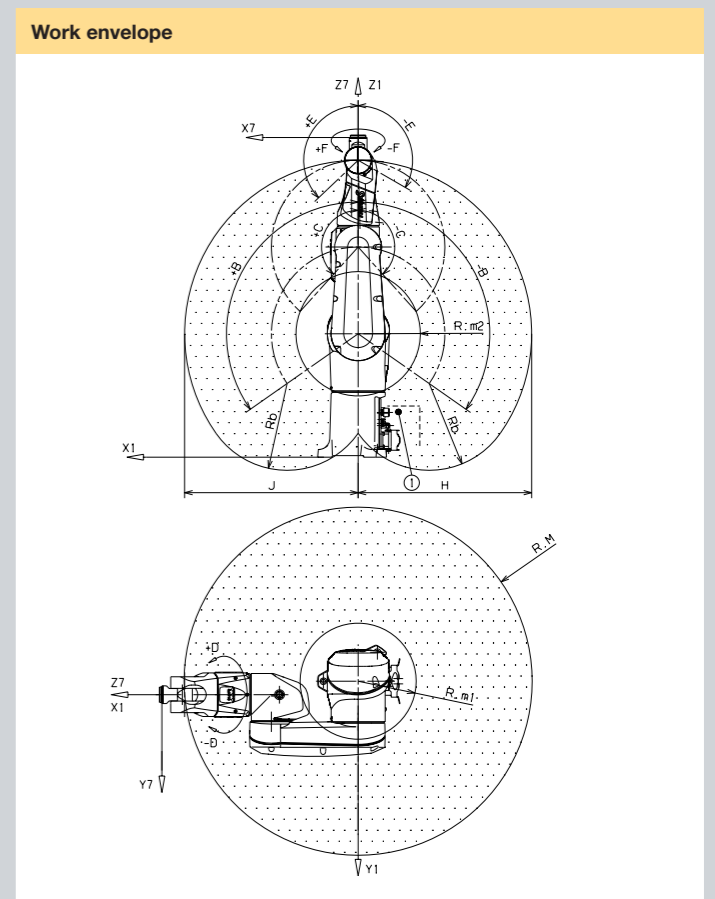
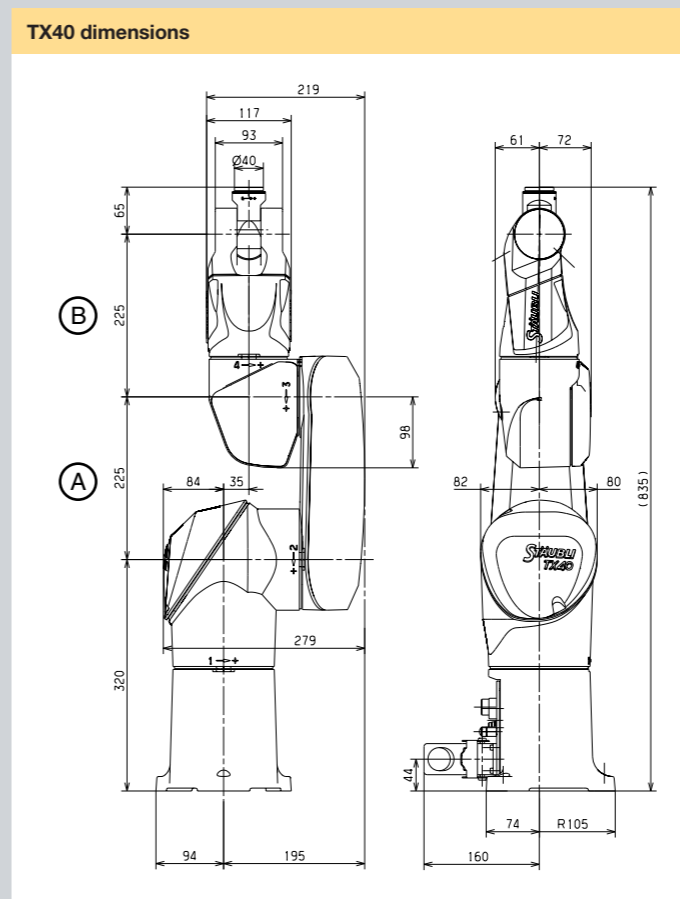
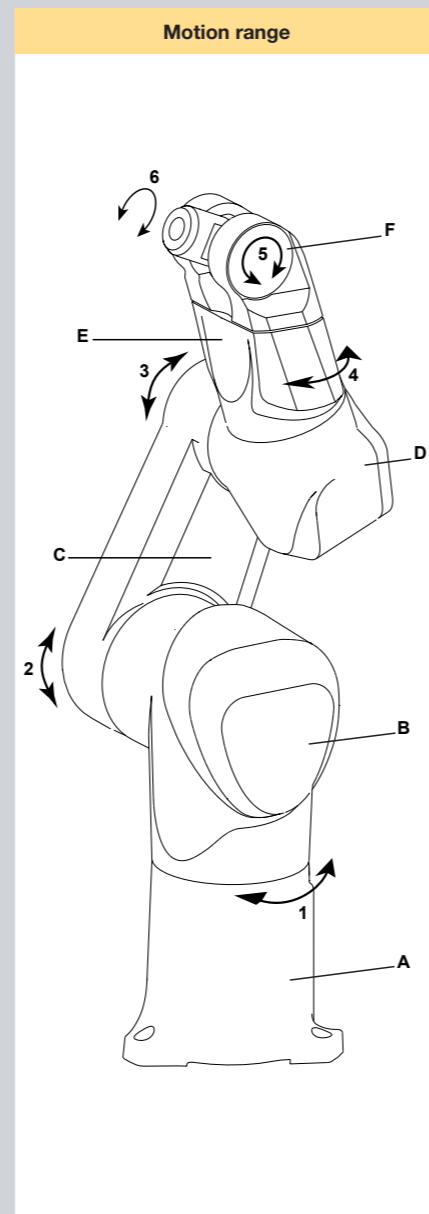
**RS**  
Scara / 4 axis

**TX**  
Low payload / 6 axis

**RX**  
Medium payload / 6 axis

**RX**  
Heavy payload / 6 axis

MODEL		TX40
<b>Characteristics</b>		
Maximum load <sup>(1)</sup>		2,3 kg
Nominal load		1,7 kg
Reach (between axis 1 and 6)		515 mm
Number of degrees of freedom		6
Repeatability - ISO 9283		± 0,02 mm
Motion range	Axis 1 (A)	± 180°
	Axis 2 (B)	± 125°
	Axis 3 (C)	± 138°
	Axis 4 (D)	± 270°
	Axis 5 (E)	+133,5°/-120°
	Axis 6 (F)	± 270° <sup>(2)</sup>
Work envelope	Maximum reach between axis 1 and 5 (R. M)	450 mm
	Minimum reach between axis 1 and 5 (R. m1)	151 mm
	Minimum reach between axis 2 and 5 (R. m2)	162 mm
	Minimum reach between axis 3 and 5 (R. b)	225 mm
Maximum speed	Axis 1	555°/s
	Axis 2	475°/s
	Axis 3	585°/s
	Axis 4	1035°/s
	Axis 5	1135°/s
	Axis 6	1575°/s
Maximum speed at load gravity center		8,2 m/s
Maximum inertias	Axis 5	0,1 kg.m <sup>2</sup>
	Axis 6	0,03 kg.m <sup>2</sup>
Weight		27 kg
Brakes		All axis
Forearm connections	Pneumatic	2 direct lines between the base and the forearm 1 optional solenoid valve 5/2-way (compressed air) or 3/2-way (vacuum) monostable
	Electrical	1 female 8-contact socket (2 shielded twisted pairs, 3 power contacts)
Cleanroom standard - ISO 14644-1		5
Protection class (*wrist) according to standard NF EN 60529		IP65 (*67)
Stäubli CS8 series controller		CS8C
<b>Installation environment</b>		
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/Wall/Ceiling
Vertical cable outlet version <sup>(3)</sup>		•
Pressurized version <sup>(4)</sup>		•
HE (Humid Environment) version <sup>(5)</sup>		•
<b>Market specific versions</b>		
CR Cleanroom - class 4 cleanliness - ISO 14644-1		•
SCR Cleanroom - class 2 cleanliness - ISO 14644-1		•
Plastics - Euromap 12/67 interface		•

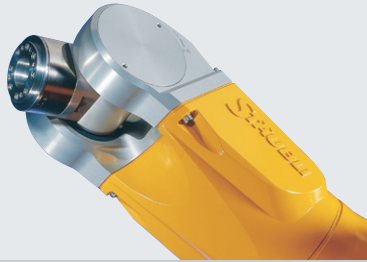


- (1) Under special conditions, consult us.
- (2) Software configurable up to ±18000°.
- (3) Pressurization kit : necessary for use in an environment with high dust levels or with substantial liquid splashing. This kit generates positive pressure in the arm. Factory installation only and required with 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.



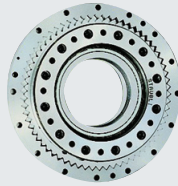
## Product benefits

The TX40 robot series feature unique benefits to fit in all environments providing the best possible process quality and increased productivity.



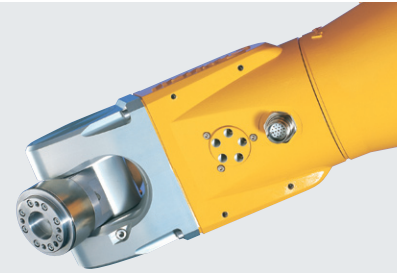
### WRIST

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



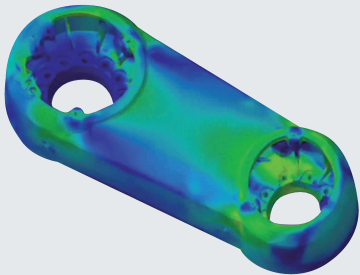
### STÄUBLI PATENTED REDUCTION GEAR SYSTEMS

Unmatched precision, flexibility and speed, high rigidity, reduced maintenance.



### FOREARM CONNECTIONS

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



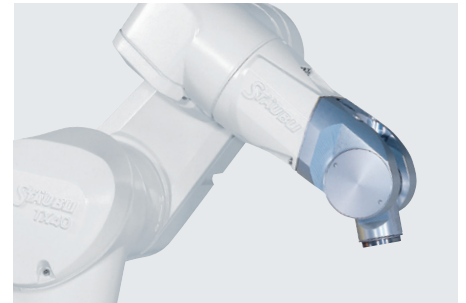
### RIGID STRUCTURE

Better dynamic performance.



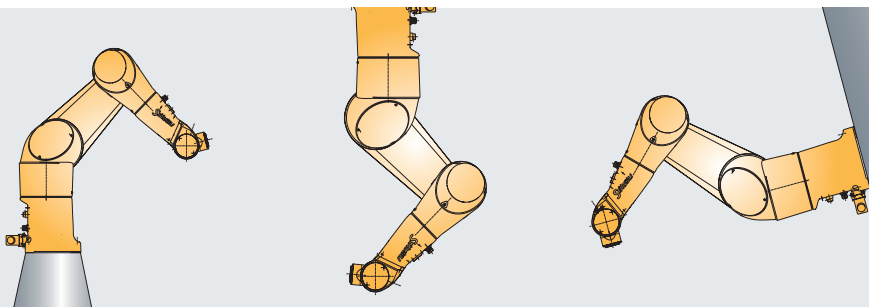
### ENCLOSED STRUCTURE

Easy to clean and use in clean or hostile environments.



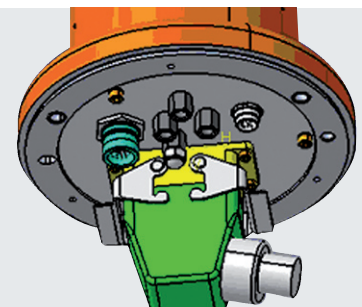
### ARM FINISH

Smooth or textured, color customization.



### MULTIPLE ATTACHMENT METHODS

Adaptability and flexibility (floor, ceiling, wall).



### VERTICAL CABLE OUTLET VERSION

Better cable protections, use in clean environment.

[www.staubli.com/robotics](http://www.staubli.com/robotics)

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**STÄUBLI**