

FAST MOVING TECHNOLOGY

STÄUBLI

TX2-40

6 axis industrial robot



Characteristics

	TX2-40
Load capacity	2 kg
Reach (between axis 1 and 6)	515 mm
Number of degrees of freedom	6
Repeatability - ISO 9283	± 0.02 mm
Average power consumption	0.345 kW
Weight	29 kg
UL certification	✓
Attachment methods	

Performance

Joint speed -axis 1	555°/s
Joint speed -axis 2	475°/s
Joint speed -axis 3	585°/s
Joint speed -axis 4	1035°/s
Joint speed -axis 5	1135°/s
Joint speed -axis 6	1575°/s
Maximum speed at load gravity center	8.6 m/s
Maximum inertia axis 5	0.1 kg.m²
Maximum inertia axis 6	0.03 kg.m²
Brakes	All axes

Work envelope and range of motion

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
Reach between axis 3 and 5 (R.b)	225 mm

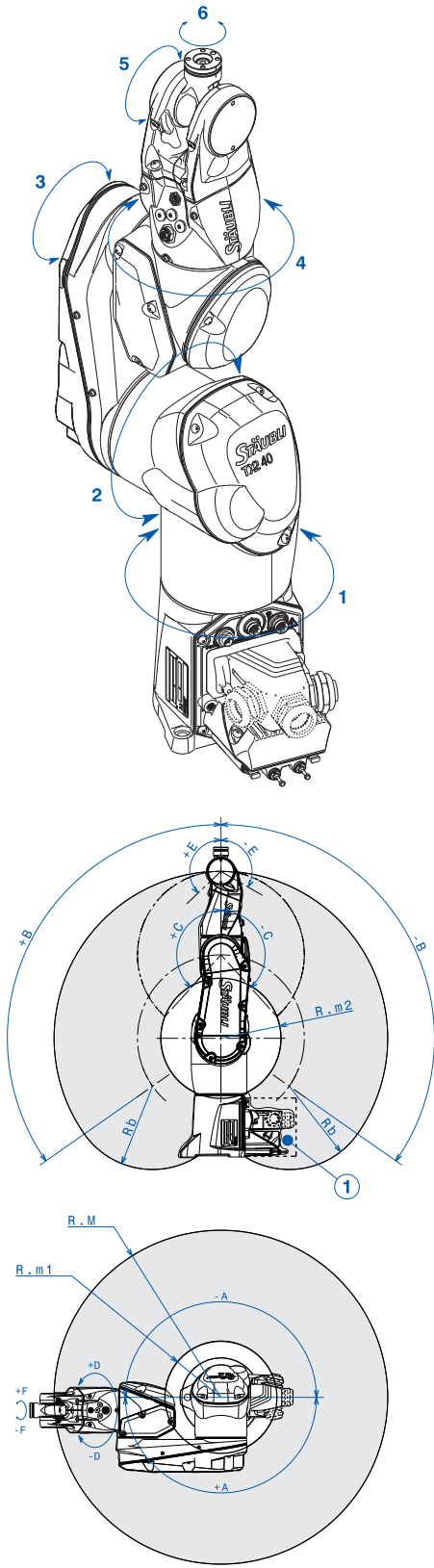
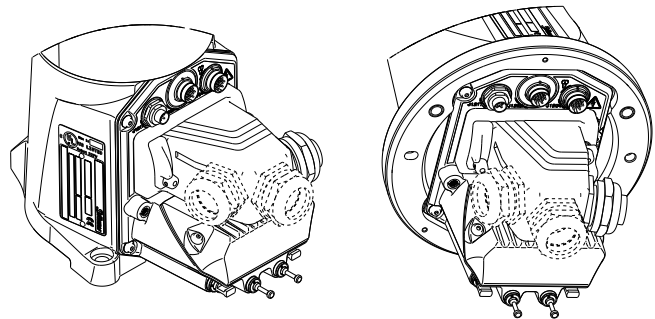
Axis 1 (A)	± 180°
Axis 2 (B)	± 125°
Axis 3 (C)	± 138°
Axis 4 (D)	± 190° ⁽¹⁾
Axis 5 (E)	+ 133.5°/-120°
Axis 6 (F)	± 270° ⁽²⁾

(1) Software configurable up to ± 270°
(2) Software configurable up to ± 11 250°

Installation environment

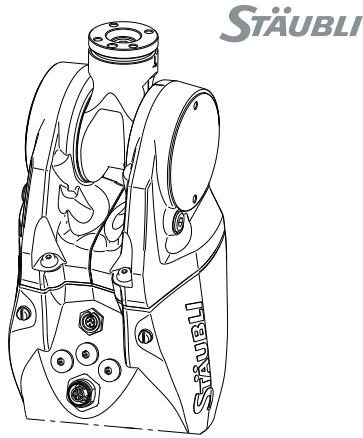
Working temperature according to NF EN 60 204-1	+5°C to +40°C
Humidity according to NF EN 60 204-1	30% to 95% max non-condensing
Vertical cable outlet version	Available
Pressurized version	Available
Controller	CS9
Cleanroom standard ISO 14644-1	5
Protection class according to EN 60529	IP65/IP67

Cable outlet horizontal and vertical (option)

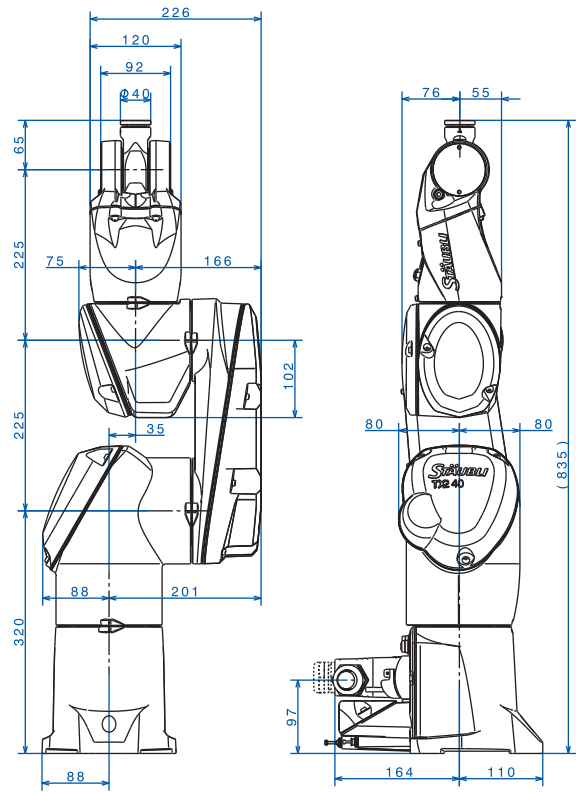


User interface

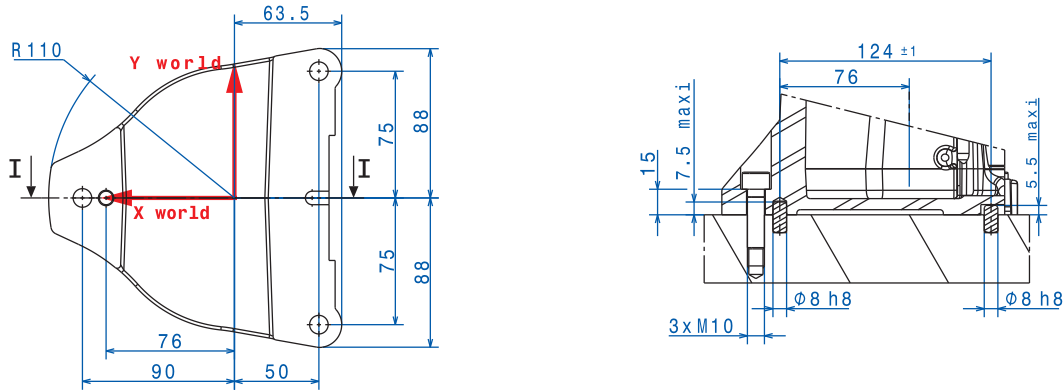
FOREARM CONNECTIONS	
Pneumatic	2 direct lines between base and forearm or 1 optional solenoid valve : bi-stable solenoid valves 5/2 « pressure » or mono-stable « center close » solenoid valves 5/3 « pressure » or Mono-stable solenoid valves 3/2 « vacuum »
Electrical	3 electrical lines + 4 cat5e lines, 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)	
Stericlean	Available
SCR (Supercleanroom) - class 2 cleanliness ISO 14644-1	

Available options

Vertical cable outlet	for smarter integration
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● Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

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