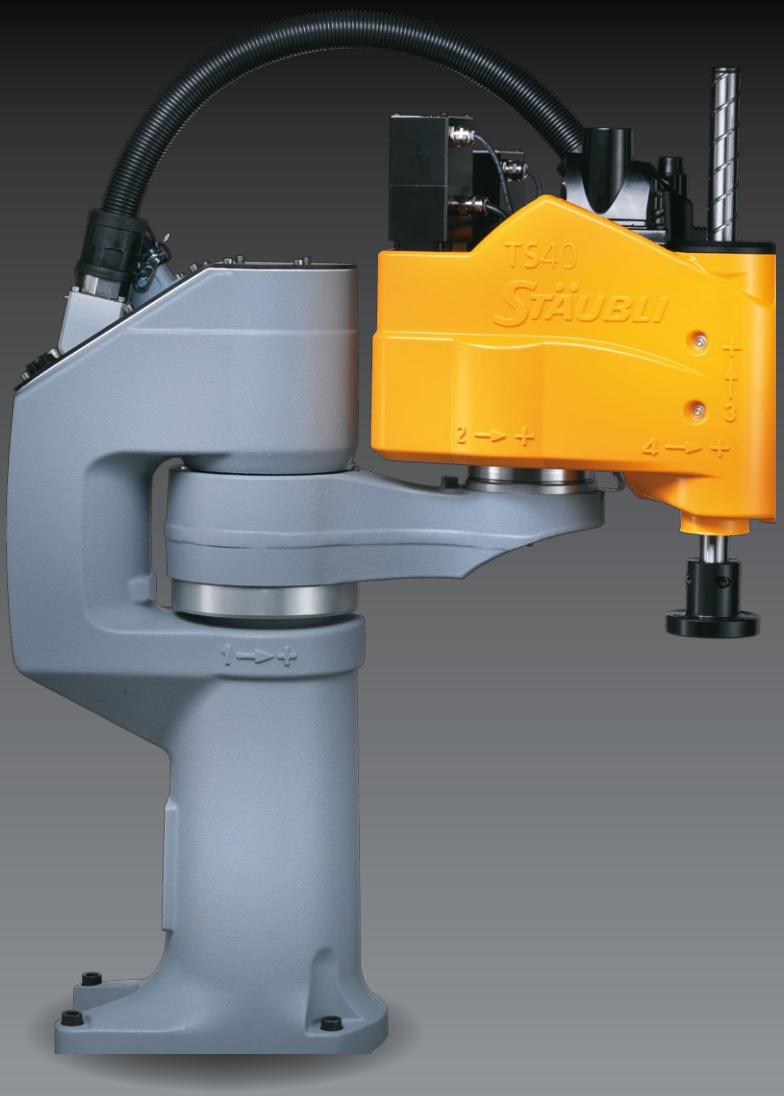
ROBOTICS

STÄUBLI

TS40 industrial robot



Automotive & equipment manufacturers

Food

Electronics

Life Sciences & pharma

Machine tending

Photovoltaics

Plastics

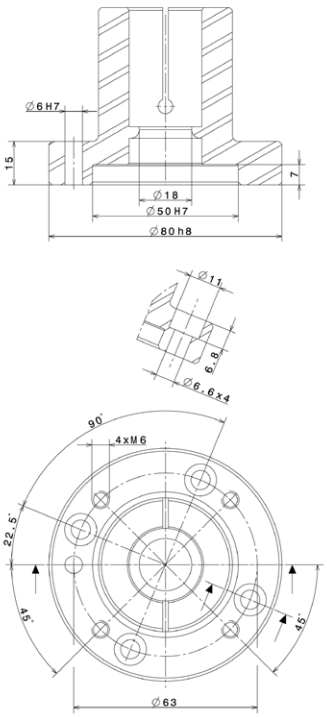
TS	**TX**	**RX/TX**	**RX/TX**
Scara / 4 axis	low payload / 6 axis	medium payload / 6 axis	heavy payload / 6 axis

MODEL		TS40
Characteristics		
Maximum load [1]		8 kg
Nominal load		2 kg
Reach		400 mm
Number of degrees of freedom		4
Repeatability - ISO 9283		± 0,01 mm
Range of Motion	**Angular reach axis 1**	± 105°
	Angular reach axis 2	± 143°
	Stroke	200 mm or 400 mm (optional)
	Angular reach axis 4	±500°[2]
Work Envelope	**Maximum radius between axis 1 & 3**	400 mm
	Radius between axis 2 & 3	170 mm
	Minimum radius between axis 1 & 3	166 mm
Maximum Speed	**Axis 1**	650 °/s
	Axis 2	725 °/s
	Axis 3	2100 mm/s
	Axis 4	2020 °/s
Maximum inertias (Axis 4)		0,1 kg.m²
Weight	**Floor version**	46 kg
	Wall mounted version	46 kg (estimate)
Brakes		Axis 3 and 4
Cleanroom standard - ISO 14644-1 (version with bellow)		6
Protection class according to standard NF EN 60529		IP54
Stäubli CS8 series controller		CS8C

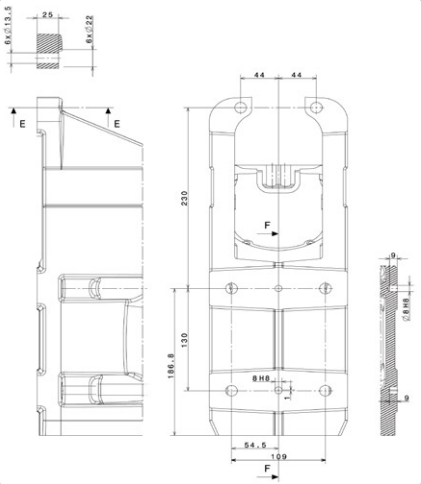
User Interface	**On forearm**	**On forearm with optional CAN bus**	**On tool flange (optional)**	**On tool flange with optional CAN bus and user installation**
Digital I/O (Input / Output)	-	8/8	-	5/8
Analog I/O (Input/ Output)	-	4/4	-	-
Electrical cables	6 x 0,24 mm² (AWG24) shielded	-	6 x 0,24 mm² (AWG24) shielded	-
Pneumatic lines	2 x Ø4mm	2 x Ø4mm	2 x Ø4mm	2 x Ø4mm
Tension & maximum current by contact	24 VDC - 2A			

Installation Environment	
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% to 95% max. non-condensing
Attachment methods	Floor / Wall

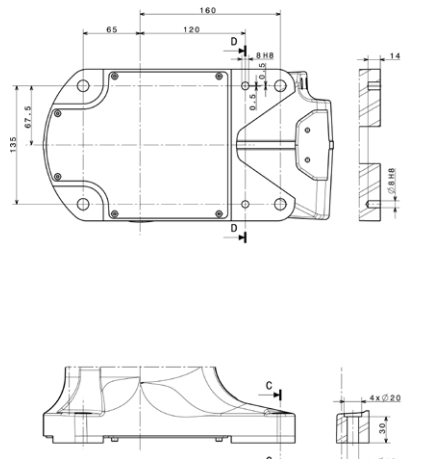
Tool Flange



Console



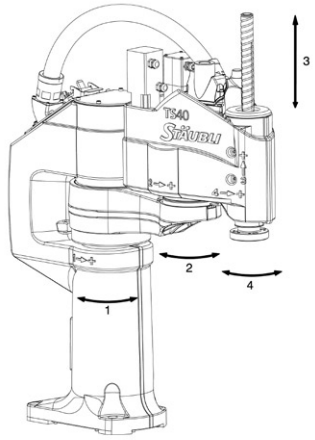
Mounting



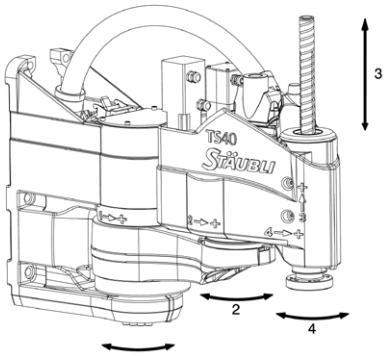
(1) Under special conditions with reduced speed and acceleration, consult us.

(2) Software configurable up to ±18000°

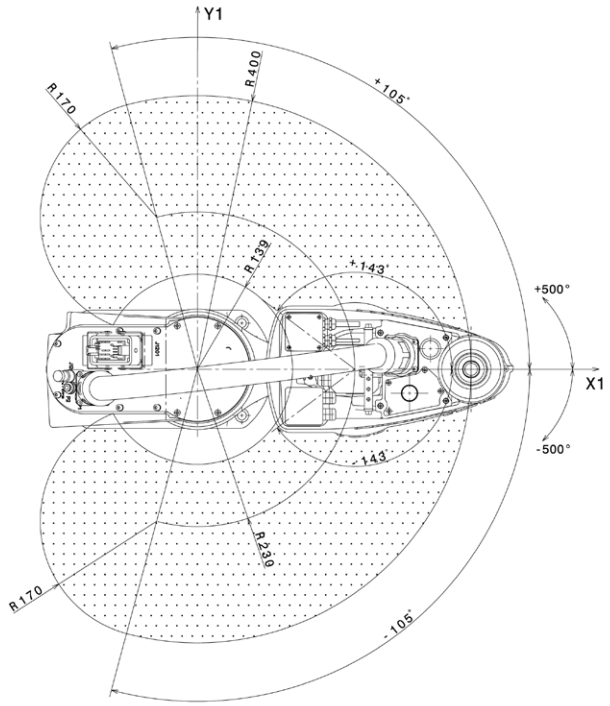
Floor version



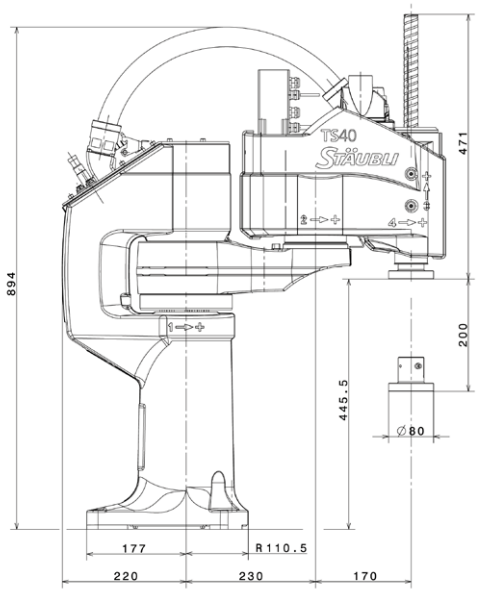
Wall mounted version (under development)

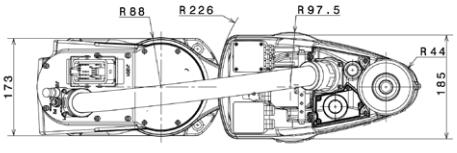


Work envelope

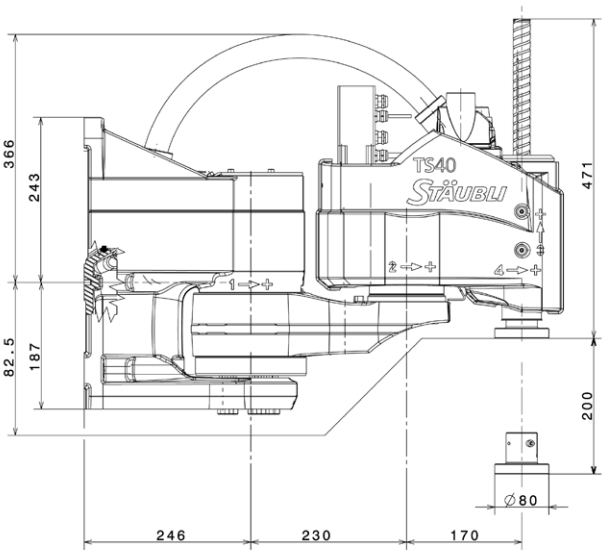


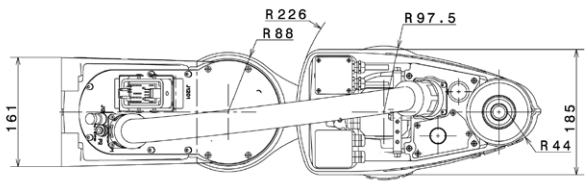
Standard floor version dimensions





Standard wall mount version dimensions







Product benefits

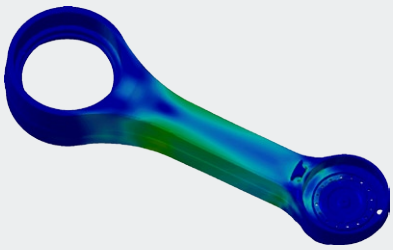
The TS SCARA robot series feature unique benefits to fit in all environments providing the best possible process quality and increased productivity.



HIGH SPEED
Fast robot with up to 100 pick per minute (ppm) capability.



HIGH PAYLOAD CAPACITY
Standard Ø25 mm quill enables to carry heavy payload while maintaining high speed.



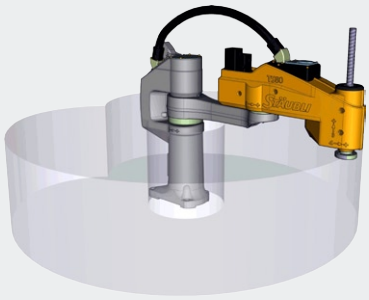
RIGID STRUCTURE
Increased dynamic performance.



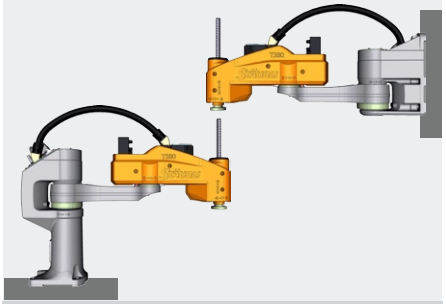
MULTIPLE USER CONNECTION OPTIONS
Electrical, pneumatic and I/O connections are available on the forearm as well as on the tool flange.



MULTIPLE INTERCONNECT CABLE OPTIONS
Straight or angled connections facilitate robot integration.



LARGE WORK ENVELOPE
200 or 400 mm stroke versions offer large work volume.



MULTIPLE ATTACHMENT METHODS
Floor or wall mounting bring more adaptability and flexibility in robot integration.



HIGH PROTECTION
IP54 rating, angled plate design & bellow bring better protection against dust & liquids.

CERTIFICATION
TS40 robots meet CE certifications, UL and RoHS pending.

D18157904
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