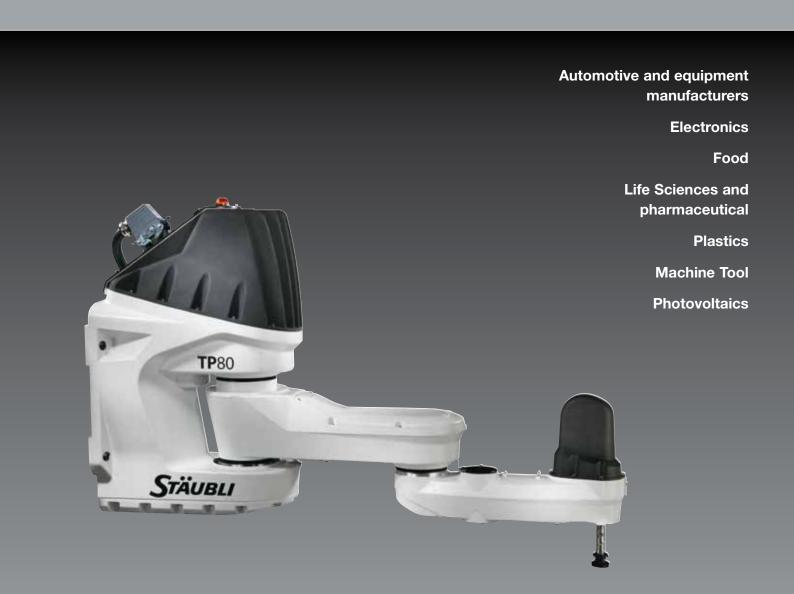




TP80 industrial robot

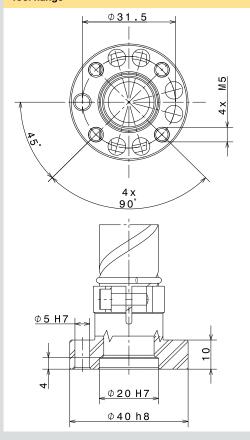


MODEL		TP80	
Characteristics (preliminary data)			
Maximum load (1)		1 kg	
Nominal load		0,5 kg	
Reach		800 mm	
Number of degrees of freedom		4	
Motion range	Angular reach axis 1 (A)	± 117°	
	Angular reach axis 2 (B)	± 153°	
	Stroke (C1, C2)	100 mm	
	Angular reach axis 4 (D)	± 500° (2)	
Work Envelope	Maximum radius between axis 1 and 3 (R. M)	800 mm	
	Minimum radius between axis 1 and 3 (R. m1)	174 mm	
Robot cycle-time (3), sustained, at 25°C temperature	25-300-25 mm cycle:	up to (ppm = picks per minute)	
	0,1 kg load	200 ppm	
	0,5 kg load	185 ppm	
	1 kg load	170 ppm	
	50-700-50 mm cycle:	up to	
	0,1 kg load	110 ppm	
	0,5 kg load	105 ppm	
	1 kg load	95 ppm	
Repeatability - ISO 9283		< ± 0,05 mm	
Maximum inertias (Axis 4)		0,014 kg.m²	
Weight		71 kg	

	On forearm	On tool flange (optional)		
Electrical cables	8 x (2 x 0,21 mm²) (AWG24) shielded	8 x (2 x 0,21 mm²) (AWG24) shielded		
Pneumatic lines	1 x Ø4 mm + 1 x Ø6 mm	1 x Ø4 mm + 1 x Ø6 mm (coupling of 2 x Ø4 mm)		
Tension & maximum current by contact	24 VDC - 2A			
Cleanroom standard - ISO 14644-1 (version with bellows)	6 / 5 (4)			
Protection class according to standard NF EN 60529	IP54 standard, IP65 with bellows			
Stäubli CS8 series controller	CS8C			
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	Wall			

User interface

Tool flange



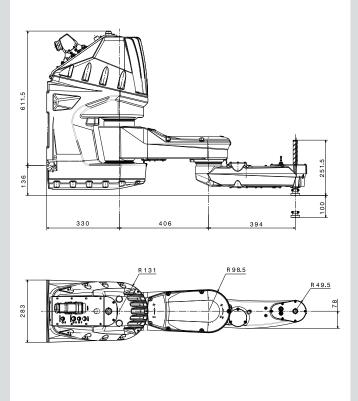
- (1) Under special conditions with reduced speed and acceleration, consult us.
- (2) Standard = $\pm 500^{\circ}$ Configurable = $\pm 18000^{\circ}$ With user cable optional = $\pm 200^{\circ}$
- (3) Under special conditions, consult us.
- (4) Optional.

 To be confirmed, consult us.

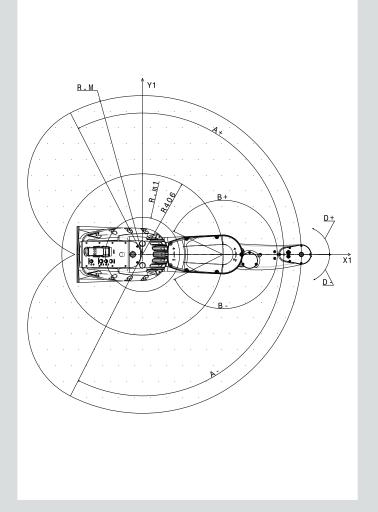
Motion range



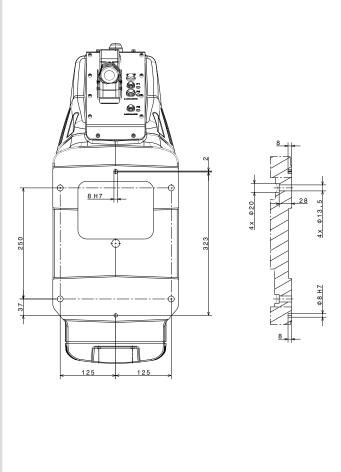
Dimensions



Work envelope



Attachment





Product benefits

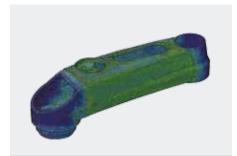
The TP80 fast Picker is an extremely fast robot dedicated to handling operations of small parts (under 1 kg). It is particularly well-suited for packaging applications in various fields such as food, pharmaceutical, photovoltaics or cosmetics.



HIGH SPEED Extremely fast robot with sustained 200 picks per minute (ppm) capability.



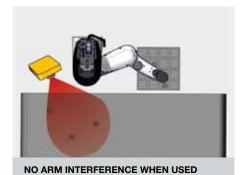
SIMPLE MOUNTING Compared to parallel robots where a large gantry structure must be built to attach the robot, the TP80 fast Picker can be mounted on a much lighter base, bringing substantial cost savings and making it easier to integrate in a cell.



HIGH PRECISION AND RIGIDITY The sturdy industrial design of the TP80 makes very repeatable throughout its work envelope.



LARGE WORK ENVELOPE Its 800 mm reach with 100 mm stroke enables the TP80 to cover a large work envelope while maintaining high speed.



WITH VISION Unlike parallel robots with their multi-arm design, the TP80 does not interfere with the line of vision of the camera.



Its slim forearm enables the robot to access confined areas, for example slotted machine openings.



ALL USER CABLES RUNNING INSIDE THE ARM

Electrical, pneumatic and I/O connections are available on the tool flange with all cables running inside the arm.



HIGH PROTECTION

IP65 rating (with optional bellows) and angled connector design bring better protection against dust and liquids.



CERTIFICATION

TP80 robot meets CE and RoHS certifications, UL pending.

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