

FAST picker TP80 HE industrial robot



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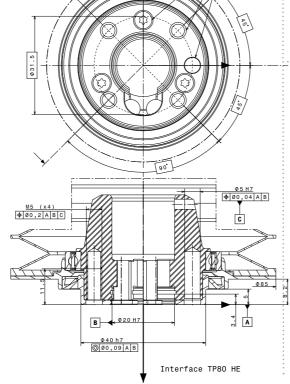
	CHARACTERIST	TICS		
Maximum load (1)		1 kg		
Nominal load		0,5 kg		
Reach		800 mm		
Number of degrees	of freedom	4		
Repeatability - ISO	9283	± 0,05 mm		
Maximum inertia		0,014 kg.m²		
Weight		68 kg		
Stäubli CS8 series	controller	CS8C		
RANGE OF MOTION				
Angular reach axis	1	± 117°		
Angular reach axis	2	± 153°		
Stroke	• • • • • • • • • • • • • • • • • • • •	100 mm		
Angular reach axis 4		± 500° ⁽²⁾		
WORK ENVELOPE				
Maximum radius be	etween axis 1 & 3	800 mm		
Minimum radius be	tween axis 1 & 3	187 mm		
ROBOT PICKS PER MINUTE (3), SUSTAINED, AT 25°C TEMPERATURE				
25-300-25 mm cycle	e:	Up to:		
	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		

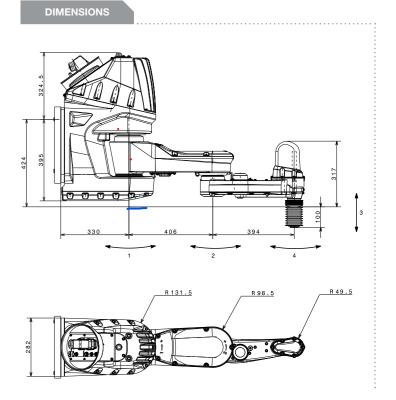
USER INTERFACE			
	On forearm	On tool flange (optional)	
Electrical cables	8 x 0,16 mm² (AWG26) shielded	8 x 0,16 mm² (AWG26) shielded	
Pneumatic lines	1 x Ø 4 mm + 1 x Ø 6 mm	1 x Ø 4 mm + 1 x Ø 6 mm (2 x Ø 4 mm)	
Tension & maximum current by contact	60 VDC - 25 VAC - 1A		
Cleanroom standard – ISO 146444-1	6		
Protection class according to standard NF EN 60529	IP65		

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			
MARKET SPECIFIC VERSION				
HE (Humid Environment) version (4)	•			

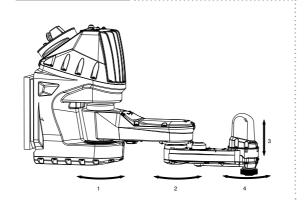
NSF H1 Food graded oil

INSTALLATION ENVIRONMENT



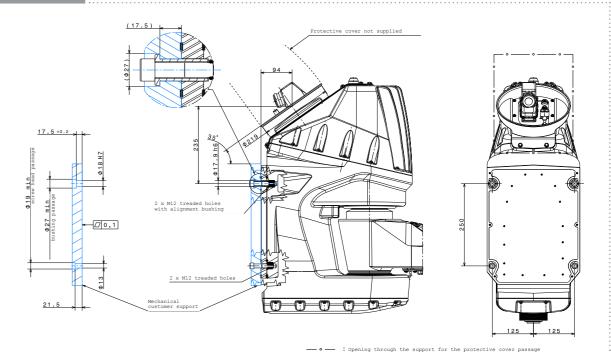


MOTION RANGE



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

ATTACHMENT



The FAST picker TP80 HE, the world's only clean picker robot, delivers up to 200 picks per minute, is designed for lightweight handling operation, decoration and packaging in sensitive environments requiring bacteria cleaning protocols.

ROBOT RESISTANT TO PH 4.5 - 8.5

- Foaming and rinsing identical to the rest of the line
- Compatible with the most cleaning and disinfection solutions
- Reduced cleaning time

ENVIRONMENT

SIMPLE ATTACHMENT

- No visible screws
- No supporting framework above the products
- Unique mounting options reduces cell size, especially on multi robot
- Multiple mounting configurations away from the sensitive pick area
- Robot bypass mode: easily placed in a service / maintenance position allowing production to continue

ELECTRICAL AND PNEUMATIC CONNECTION PROTECTED ENVIRONMENT

- Ease of integration
- No risk of wear or tearing
- All pneumatic and electrical supplies routed through the arm
- All connections are completely removed from the sensitive area

ROBOT COMPLETELY TIGHT

- Fully closed structure with overpressurized IP65 arms
- The overpressure prevents all contact between the robot's internal components and the outside environment

INDUSTRY CUSTOMIZED PERFORMANCE

- Extremely fast robot
- Up to 200 picks per minute (ppm)
- Designed to work in primary and secondary handling application
- Optional VALtrack software allows management of multiple conveyors
- Ready interface with vision camera for parts detection
- Reliable and safe handling of sensitive products



SMOOTH ROUNDED SURFACE

- Smooth surface with rounded edges
- No liquid retention area that accelerates corrosion
- Encourages liquid run-off

HYGIENIC DESIGN

- Designed in compliance with EHEDG food recommendations and requirements of food industry
- Full head stainless screws without liquid retention area
- Stainless steel used for wrist flange and critical parts
- NSF H1 food oil with no loss of performance
- Bellows
- Unpainted forearm

LARGE WORK ENVELOPE

- 1600 mm work envelope
- Repeatability \pm 0.05 mm across the entire work envelope
- No interference with camera's field of vision



CERTIFICATION

Compliance with CE and KCS standards



Headquarters

74210 FAVERGES (Annecy) / France Tel.: +33 4 50 65 62 87 Fax: +33 4 50 65 61 30 robot.sales@staubli.com

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