

FAST MOVING TECHNOLOGY

STÄUBLI

Mobile Robot System HeMo

The next step in man-robot-collaboration



Characteristics

ROBOT ARM	TX2-90	TX2-90L	TX2-90XL
Reach (between axis 1 and 6)	1000 mm	1200 mm	1450 mm
Maximum load	14 kg (20 kg under conditions)	12 kg (15 kg under conditions)	7 kg (9 kg under conditions)
Nominal load	7 kg	6 kg	5 kg
Repeatability - ISO 9283	± 0,03 mm	± 0,035 mm	± 0,04 mm

ROTATION UNIT	
Maximum rotation angle	350°
Safe positions	0° / ± 90° / 180°
Maximum speed	16,8 °/s
Tool change station	4 tools per station
Tool changing system	MPS032

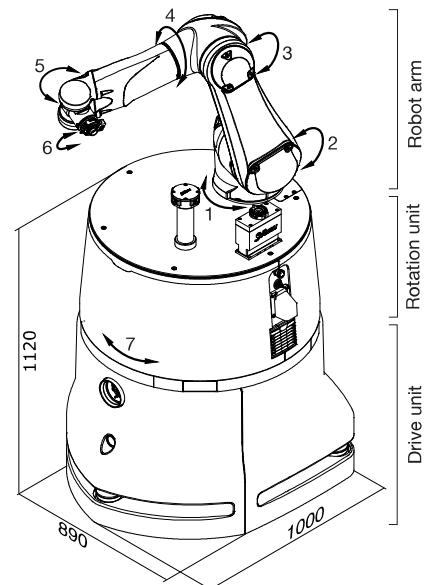
DRIVE UNIT	
Maximum speed	0,6 m/s
Position accuracy of drive unit	± 10 mm, 1°
Dimensions (without robot arm)	890 x 1120 x 1000 mm (W x H x D)
Number of laser scanners	3 (360° monitoring area)
Height of scan plane (personal safety)	150 mm
Drive type	Differential drive

TOTAL SYSTEM	
Navigation	based on laser scanner data
Protection class wrist / robot arm / total system	IP67 / IP65 / IP20
Average surface pressure on floor	max. 10 N/mm ²
Power supply	1 x 230 V / 16 A
Interfaces	WLAN, LAN, Fieldbus ⁽¹⁾
Multi coupling	compressed air, power supply, 2 x Cat5e, 26 x 1 mm ² electrical pins
Battery capacity	6,0 kWh - 9,0 kWh
Compressed air tank	0,75 l ⁽²⁾ / 8 bar
Optical and acoustical effects	4 LED units and memory space for up to 16 audio files
Weight	710 kg

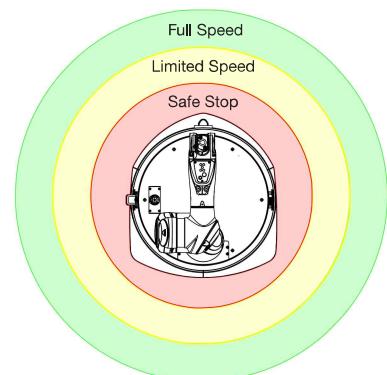
(1) more available on demand

(2) extension possible

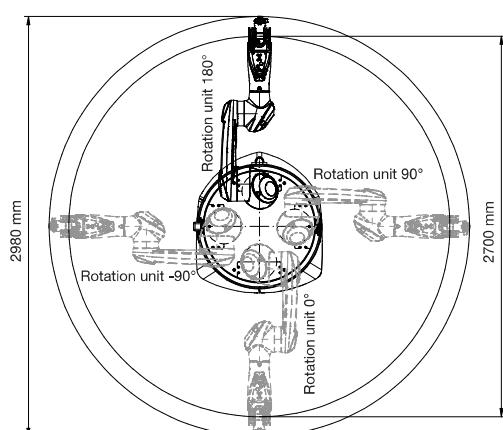
System components



Monitoring area for safety technology



Save positions of rotatio5n unit



Reach e.g. TX2-90L

