

UR5 Technical specifications

Item no. 110105

6-axis robot arm with a working radius of 850 mm / 33.5 in

Weight:	18.4 kg / 40.6 lbs		
Payload:	5 kg / 11 lbs		
Reach:	850 mm / 33.5 in		
Joint ranges:	+/- 360°		
Speed:	All joints: 180°/s. Tool: Typical 1 m/s. / 39.4 in/s.		
Repeatability:	+/- 0.1 mm / +/- 0.0039 in (4 mils)		
Footprint:	Ø149 mm / 5.9 in		
Degrees of freedom:	6 rotating joints		
Control box size (WxHxD):	475 mm x 423 mm x 268 mm / 18.7 x 16.7 x 10.6 in		
I/O ports:		Controlbox	Tool conn.
	Digital in	16	2
	Digital out	16	2
	Analog in	2	2
	Analog out	2	-
I/O power supply:	24 V 2A in control box and 12 V/24 V 600 mA in tool		
Communication:	TCP/IP 100 Mbit: IEEE 802.3u, 100BASE-TX Ethernet socket & Modbus TCP		
Programming:	Polyscope graphical user interface on 12 inch touchscreen with mounting		
Noise:	Comparatively noiseless		
IP classification:	IP54		
ISO Class Cleanroom robot arm:	5		
ISO Class Cleanroom control box:	6		
Power consumption:	Approx. 200 watts using a typical program		
Collaboration operation:	15 Advanced Safety Functions Tested in accordance with: EN ISO 13849:2008 PL d EN ISO 10218-1:2011, Clause 5.4.3		
Materials:	Aluminum, PP plastic		
Temperature:	The robot can work in a temperature range of 0-50°C		
Power supply:	100-240 VAC, 50-60 Hz		
Cabling:	Cable between robot and control box (6 m / 236 in) Cable between touchscreen and control box (4.5 m / 177 in)		

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