



UR3 Technical Specifications

Item no. 110103

6-axis robot arm with a working radius of 500 mm / 19.7 in

Weight:	11 kg / 24.3 lbs		
Payload:	3 kg / 6.6 lbs		
Reach:	500 mm / 19.7 in		
Joint ranges:	+/- 360° Infinite rotation on end joint		
Speed:	All wrist joints: 360 degrees/sec. Other joints: 180 degrees/sec. Tool: Typical 1 m/s. / 39.4 in/s.		
Repeatability:	+/- 0.1 mm / +/- 0.0039 in (4 mils)		
Footprint:	Ø118 mm / 4.6 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		
Power consumption:	Approx. 100 watts using a typical program		
Collaboration operation:	15 advanced adjustable safety functions		
Materials:	Aluminum, ABS plastic, 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 touch screen and control box (4.5 m / 177 in)		

*) At high continuous joint speed, ambient temperature is reduced.

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