

## UR3 Technical Specifications

Item no. 110103

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

<b>Weight:</b>	11 kg / 24.3 lbs		
<b>Payload:</b>	3 kg / 6.6 lbs		
<b>Reach:</b>	500 mm / 19.7 in		
<b>Joint ranges:</b>	+/- 360° Infinite rotation on end joint		
<b>Speed:</b>	All wrist joints: 360 degrees/sec. Other joints: 180 degrees/sec. Tool: Typical 1 m/s. / 39.4 in/s.		
<b>Repeatability:</b>	+/- 0.1 mm / +/- 0.0039 in (4 mils)		
<b>Footprint:</b>	Ø128 mm / 5.0 in		
<b>Degrees of freedom:</b>	6 rotating joints		
<b>Control box size (WxHxD):</b>	475 mm x 423 mm x 268 mm / 18.7 x 16.7 x 10.6 in		
<b>I/O ports:</b>		<b>Controlbox</b>	<b>Tool conn.</b>
	Digital in	16	2
	Digital out	16	2
	Analog in	2	2
	Analog out	2	-
<b>I/O power supply:</b>	24 V 2A in control box and 12 V/24 V 600 mA in tool		
<b>Communication:</b>	TCP/IP 100 Mbit: IEEE 802.3u, 100BASE-TX Ethernet socket & Modbus TCP		
<b>Programming:</b>	Polyscope graphical user interface on 12 inch touchscreen with mounting		
<b>Noise:</b>	Comparatively noiseless		
<b>IP classification:</b>	IP64		
<b>ISO Class Cleanroom robot arm:</b>	5		
<b>ISO Class Cleanroom control box:</b>	6		
<b>Power consumption:</b>	Approx. 100 watts using a typical program		
<b>Collaboration operation:</b>	15 advanced adjustable safety functions		
<b>Materials:</b>	Aluminum, PP plastic		
<b>Temperature:</b>	The robot can work in a temperature range of 0-50°C*		
<b>Power supply:</b>	100-240 VAC, 50-60 Hz		
<b>Cabling:</b>	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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