

## UR5

### Performance

<b>Repeatability</b>	±0.1 mm / ±0.0039 in (4 mils)
<b>Temperature range</b>	0-50°
<b>Power consumption</b>	Min 90W, Typical 150W, Max 325W
<b>Collaboration operation</b>	15 advanced adjustable safety functions. TüV NORD Approved Safety Function Tested in accordance with: EN ISO 13849:2008 PL d

### Specification

<b>Payload</b>	5 kg / 11 lbs
<b>Reach</b>	850 mm / 33.5 in
<b>Degrees of freedom</b>	6 rotating joints
<b>Programming</b>	Polyscope graphical user interface on 12 inch touchscreen with mounting

### Movement

Axis movement robot arm	Working range	Maximum speed
<b>Base</b>	± 360°	± 180°/Sec.
<b>Shoulder</b>	± 360°	± 180°/Sec.
<b>Elbow</b>	± 360°	± 180°/Sec.
<b>Wrist 1</b>	± 360°	± 180°/Sec.
<b>Wrist 2</b>	± 360°	± 180°/Sec.
<b>Wrist 3</b>	± 360°	± 180°/Sec.
<b>Typical tool</b>		1 m/Sec. / 39.4 in/Sec.

### Features

<b>IP classification</b>	IP54
<b>ISO Class Cleanroom</b>	5
<b>Noise</b>	Comparatively noiseless
<b>Robot mounting</b>	Any
<b>I/O ports</b>	Digital in 2 Digital out 2 Analog in 2 Analog out 0
<b>I/O power supply in tool</b>	12 V/24 V 600 mA in tool

### Physical

<b>Footprint</b>	Ø 149mm
<b>Materials</b>	Aluminium, PP plastics
<b>Tool connector type</b>	M8
<b>Cable length robot arm</b>	6 m / 236 in
<b>Weight with cable</b>	18,4 kg / 40.6 lbs

\* The robot can work in a temperature range of 0-50°C. At high continuous joint speed, ambient temperature is reduced.

## CONTROL BOX

### Features

<b>IP classification</b>	IP20
<b>ISO Class Cleanroom</b>	6
<b>Noise</b>	<65dB(A)
<b>I/O ports</b>	Digital in 16 Digital out 16 Analog in 2 Analog out 2
<b>I/O power supply</b>	24V 2A
<b>Communication</b>	TCP/IP 100Mbit, Modbus TCP, Profinet, EthernetIP
<b>Power source</b>	100-240 VAC, 50-60 Hz

### Physical

<b>Control box size (WxHxD)</b>	475mm x 423mm x 268mm / 18.7 x 16.7 x 10.6 in
<b>Weight</b>	15 kg / 33.1 lbs
<b>Materials</b>	Steel

## TEACH PENDANT

### Features

<b>IP classification</b>	IP20
<b>Physical</b>	
<b>Materials</b>	Aluminium, PP
<b>Weight</b>	1,5 kg / 3.3 lbs
<b>Cable length</b>	4,5 m / 177 in

