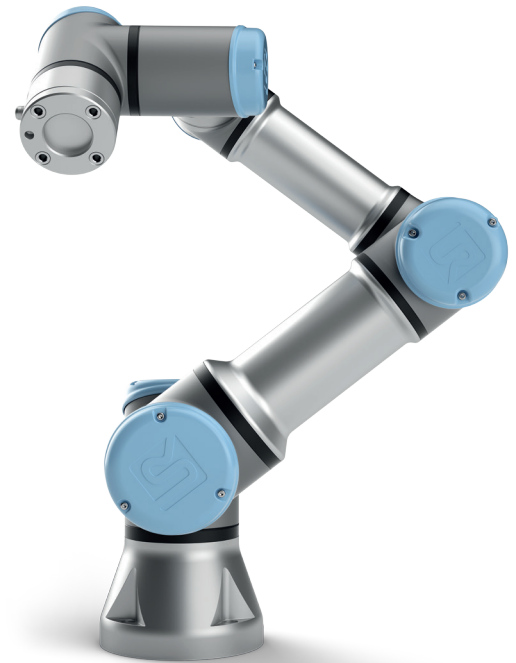


# UR3e technical details



## Performance

Power consumption	Approx. 100 W using a typical program		
Collaboration operation	17 advanced adjustable safety functions incl. elbow monitoring. Remote Control according to ISO 10218		
Certifications	EN ISO 13849-1, Cat.3, PL d, and EN ISO 10218-1		
F/T Sensor - Force, x-y-z	F/T Sensor - Torque, x-y-z		
Range	30 N	Range	10 Nm
Resolution	1.0 N	Resolution	0.02 Nm
Accuracy	3.5 N	Accuracy	0.10 Nm
Ambient temperature range	0-50°C*		
Humidity	90% RH (non-condensing)		

## Specification

Payload	3 kg / 6.6 lbs		
Reach	500 mm / 19.7 in		
Degrees of freedom	6 rotating joints DOF		
Programming	Polyscope graphical user interface on 12 inch touchscreen with mounting		

## Movement

Pose Repeatability	+/- 0.03 mm, with payload, per ISO 9283		
Axis movement robot arm	Working range	Maximum speed	
Base	± 360°	±180°/Sec.	
Shoulder	± 360°	±180°/Sec.	
Elbow	± 360°	±180°/Sec.	
Wrist 1	± 360°	±360°/Sec.	
Wrist 2	± 360°	±360°/Sec.	
Wrist 3	Infinite	±360°/Sec.	
Typical TCP speed			1 m/Sec./ 39.4 in/Sec.

## Features

IP classification	IP54		
ISO Class Cleanroom	5		
Noise	Less than 60 dB(A)		
Robot mounting	Any Orientation		
I/O Ports	Digital in	2	
	Digital out	2	
	Analog in	2	
	Analog out	0	
	UART interface (9.6k-5Mbps)		
I/O power supply in tool	12V/24V 600mA continuous, 2A for shorter periods		

## Physical

Footprint	Ø 128 mm		
Materials	Aluminium, Plastic, Steel		
Tool (end-effector) connector type	M8   M8 8-pin		
Cable length robot arm	6 m / 236 in		
Weight including cable	11.2 kg / 24.7 lbs		

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

## Control box

### Features

IP classification	IP44		
ISO Class Cleanroom	6		
Ambient temperature range	0-50°C		
I/O Ports	Digital in	16	
	Digital out	16	
	Analog in	2	
	Analog out	2	
	500 Hz control, 4 separated high speed quadrature digital inputs		
I/O Power supply	24V 2A		
Communication	Control frequency: 500 Hz ModbusTCP: 500 Hz signal frequency ProfiNet and EthernetIP: 500 Hz signal frequency USB ports: 1 USB 2.0, 1 USB 3.0		
Power source	100-240 VAC, 47-440Hz		
Humidity	90% RH (non-condensing)		

### Physical

Control box size (WxHxD)	475 mm x 423 mm x 268 mm 18.7 in x 16.7 in x 10.6 in		
Weight	Max 13 kg / 28.7 lbs		
Materials	Steel		

## Teach pendant

### Features

IP classification	IP54		
Humidity	90% RH (non-condensing)		
Display resolution	1280 x 800 pixels		

### Physical

Materials	Plastic		
Weight including 1m of TP cable	1.6 kg / 3.5 lbs		
Cable length	4.5 m / 177.17 in		