

UR3e technical details

Specifications

Payload	3 kg (6.6 lbs)
Reach	500 mm (19.7 in)
Degrees of freedom	6 rotating joints
Programming	12 inch touchscreen with polyscope graphical user interface

Performance

Power, Consumption, Maximum Average	300 W	
Power, Consumption, Typical with moderate operating settings (approximate)	100 W	
Safety	17 configurable safety functions	
Certifications	EN ISO 13849-1, PLd Category 3, and EN ISO 10218-1	
Force Sensing, Tool Flange	Force, x-y-z	Torque, x-y-z
Range	30.0 N	10.0 Nm
Precision	2.0 N	0.1 Nm
Accuracy	3.5 N	0.1 Nm

Movement

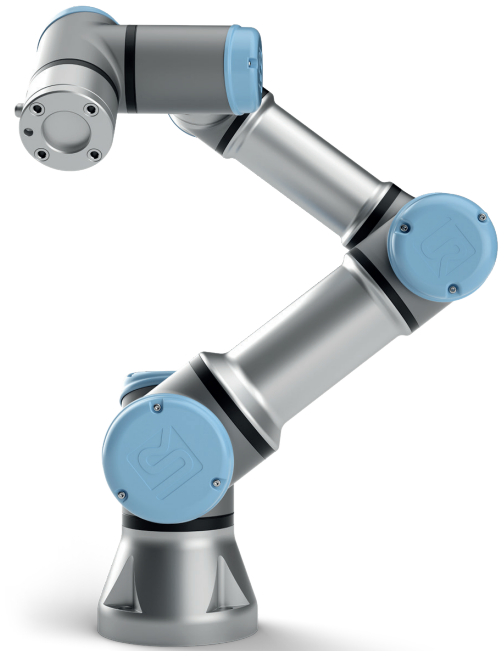
Pose Repeatability per ISO 9283	± 0.03 mm	
Axis movement	Working range	Maximum speed
Base	± 360°	± 180°/s
Shoulder	± 360°	± 180°/s
Elbow	± 360°	± 180°/s
Wrist 1	± 360°	± 360°/s
Wrist 2	± 360°	± 360°/s
Wrist 3	Infinite	± 360°/s
Typical TCP speed	1 m/s (39.4 in/s)	

Features

IP classification	IP54
ISO 14644-1 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
Tool I/O Power Supply Voltage	12/24 V
Tool I/O Power Supply	600 mA

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)
Operating Temperature Range	0-50°C
Humidity	90%RH (non-condensing)



Control box

Features

IP classification	IP44
ISO 14644-1 Class Cleanroom	6
Operating Temperature Range	0-50°C
I/O ports	
Digital in	16
Digital out	16
Analog in	2
Analog out	2
Quadrature Digital Inputs	4
I/O power supply	24V 2A
Communication	500 Hz Control frequency Modbus TCP PROFINET Ethernet/IP USB 2.0, USB 3.0
Power source	100-240VAC, 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	12 kg (26.5 lbs)
Materials	Powder Coated Steel

Teach pendant

Features

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

Physical

Materials	Plastic, PP
Weight including 1m of TP cable	1,6 kg (3,5 lbs)
Cable length	4,5 m (177,17 in)