

UR16e Technical Specifications

The UR16e delivers 16 kg of payload, allowing for heavier end of arm tooling and multi-part handling.

Today, more than 50,000 UR collaborative industrial robots have been delivered to customers across industries and around the world. UR16e is one of four e-Series cobots, each with a different payload and reach combination. e-Series brings incredible flexibility and unparalleled ease of use to your application.

Contact

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UR16e

Specification

Payload	16 kg (35.3 lbs)
Reach	900 mm (35.4 in)
Degrees of freedom	6 rotating joints
Programming	12 inch touchscreen with polyscope graphical user interface

Performance

Power, Consumption, Maximum Average Power, Consumption, Typical with moderate settings (approximate)	585 W 350 W
Safety	17 configurable safety functions
Certifications	EN ISO 13849-1, PLd Category 3, and EN ISO 10218-1
Force Sensing, Tool Flange Range Precision Accuracy	Force, x-y-z Torque, x-y-z 160.0 N 10.0 Nm 5.0 N 0.2 Nm 5.5 N 0.5 Nm

Movement

Pose Repeatability per ISO 9283	± 0.05 mm	
Axis movement	Working range	Maximum speed
Base	± 360°	± 120°/s
Shoulder	± 360°	± 120°/s
Elbow	± 360°	± 180°/s
Wrist 1	± 360°	± 180°/s
Wrist 2	± 360°	± 180°/s
Wrist 3	± 360°	± 180°/s
Typical TCP speed	1 m/s (39.4 in/s)	

Features

Features	
IP classification	IP54
ISO 14644-1 Class Cleanroom	5
Noise	Less than 65 dB(A)
Robot mounting	Any orientation
I/O ports Digital in Digital out Analog in	2 2 2
Tool I/O Power Supply Voltage	12/24 V
Tool I/O Power Supply	2 A (Dual pin) 1 A (Single pin)

Physical

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Footprint	Ø 190 mm
Materials	Aluminium, Plastic, Steel
Tool (end-effector) connector type	M8 M8 8-pin
Cable length robot arm	6 m (236 in) cable included. 12 m (472 in) and high-flex options available.
Weight including cable	33.1 kg (73 lbs)
Operating temperature range	0-50°C
Humidity	90%RH (non-condensing)



Control Box

Features

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IP classification	IP44
ISO 14644-1 Class Cleanroom	6
Operating temperature range	0-50°C
Humidity	90%RH (non-condensing)
I/O ports Digital in Digital out Analog in Analog out Quadrature Digital Inputs	16 16 2 2 2
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
Physical	
Control box size (W x H x D)	460 mm x 449 mm x 254 mm (18.2 in x 17.6 in x 10 in)
Weight	12 kg (26.5 lbs)
Materials	Powder Coated Steel
The central box is also excitable in an OEM version	

The control box is also available in an OEM version.

Teach Pendant

Features

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

Physical

Materials	Plastic, PP
Weight	1.6 kg (3.5 lbs) including 1m of TP cable
Cable length	4.5 m (177.17 in)

The teach pendant is also available in a 3PE option.