

# UR5e **Technical Specifications**

The UR5e brings ultimate flexibility to medium-duty applications with a payload of up to 5 kg and a reach of 850 mm.

Today, more than 50,000 UR collaborative industrial robots have been delivered to customers across industries and around the world. UR5e 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**

Universal Robots USA, Inc. 5430 Data Court Ann Arbor, Michigan 48108 United States

+1 844-462-6268 ur.na@universal-robots.com universal-robots.com

## UR5e

### Specification

Payload	5 kg (11 lbs)
Reach	850 mm (33.5 in)
Degrees of freedom	6 rotating joints
Programming	12 inch touchscreen with polyscope graphical user interface

#### **Performance**

	Citorinanoc		
F	Power, Consumption, Maximum Average	570 W	
	Power, Consumption, Typical with moderate settings (approximate)	200 W	
9	Safety	17 configurable safet	y functions
(	Certifications	EN ISO 13849-1, PLd Ca and EN ISO 10218-1	ategory 3,
F	Force Sensing, Tool Flange Range Precision Accuracy	Force, x-y-z 50.0 N 3.5 N 4.0 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.3 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°	± 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	1.5 A (Dual pin) 1 A (Single pin)

### Dhysical

Ø 149 mm
Aluminium, Plastic, Steel
M8   M8 8-pin
6 m (236 in) cable included. 12 m (472 in) and high-flex options available.
20.6 kg (45.4 lbs)
0-50°C
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 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
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 control box is also available in an OEM version.	

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## **Teach Pendant**

#### **Features**

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

#### Physical

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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.