



UR30

Technical Specification

The UR30 is the strongest UR robot and is part of our next generation heavy payload cobots. These cobots have been redesigned from the ground up to provide extraordinary lift in a compact footprint with superior motion control and a first-class user experience.

Today, more than 75,000 UR collaborative industrial robots have been delivered to customers across industries and around the world. The newest series of heavy payload cobots brings unparalleled performance, adaptability and an unparalleled user experience.

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UR30

General specification

Payload	30 kg (66.1 lbs)
Reach	1300 mm (51.18 in)
Degrees of freedom	6 rotating joints
Programming	12 inch touchscreen with PolyScope graphical user interface (see Teach Pendant)
Power consumption (average)	
Maximum power	750 W
Moderate operating settings	300 W
Operating temperature range	Ambient temperature: 0-50°C (32-122°F)
Safety functions	17 configurable safety functions
In compliance with	EN ISO 13849-1 (PLd Category 3) and EN ISO 10218-1
Joint architecture	2-1-3

UR30 arm

Performance

Force sensing, tool flange/torque sensor	Force, x-y-z	Torque, x-y-z
Range	± 200,0 N	± 20,0 Nm
Precision	± 5,5 N	± 0,2 Nm
Accuracy	± 10,0 N	± 1,0 Nm

Movement

Typical TCP speed	2 m/s	
Pose repeatability per ISO 9283	± 0,1 mm	
Axis movement	Working range	Maximum speed
Base	± 360°	± 120°/s
Shoulder	± 360°	± 120°/s
Elbow	± 360°	± 150°/s
Wrist 1	± 360°	± 210°/s
Wrist 2	± 360°	± 210°/s
Wrist 3	± 360°	± 210°/s

Features

IP rating	IP65
Noise	< 65 dB(A)
Arm mounting direction	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	2 A (Dual pin), 1 A (Single pin)

Physical

Footprint	Ø 245 mm
Materials	Aluminum, plastic, steel
Tool flange	EN ISO-9409-1-80-6-M8
Connector type	M8 8-pin female
Cable length (robot arm)	6 m (236 in/19.68 ft)
Weight including cable	63,5 kg (139.9 lbs)
Humidity	≤ 90% RH (non-condensing)

Contact

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3-Position Enabling Teach Pendant

Features

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

Physical

Materials	Plastic
Teach pendant size (W x H x D)	300 mm x 231 mm x 50 mm (11.8 in x 9.1 in x 1.97 in)
Weight	1,8 kg (3.961 lbs) including 1 m of teach pendant cable
Cable length	4,5 m (177.17 in)

Control Box

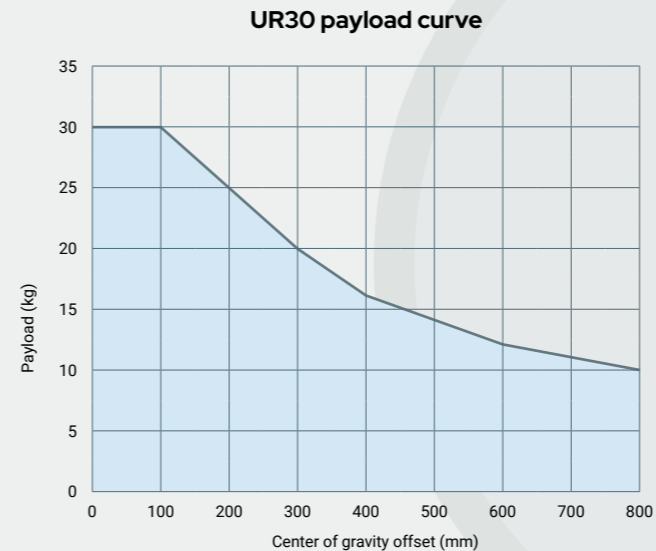
Features

IP classification	IP44
Humidity	≤ 90% RH (non-condensing)
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
Industrial protocols	Modbus TCP (Client/Server) Ethernet/IP Adapter PROFINET device/PROFIsafe ROS/ROS2
Hardware interfaces	Ethernet 1 Gb/s USB 2.0 USB 3.0 Mini DisplayPort Injection Moulding Machine Interface (SPI AN-146 & Euromap-67)
Power Source	115/230 VAC, 60/50 Hz

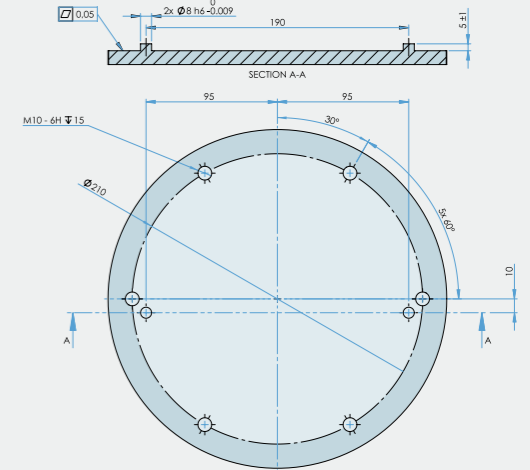
Physical

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

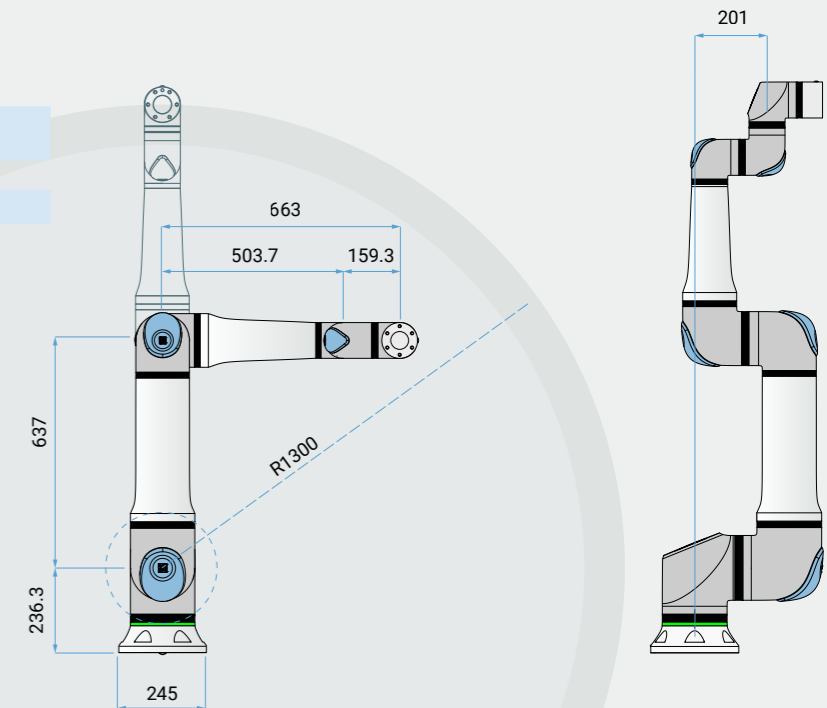
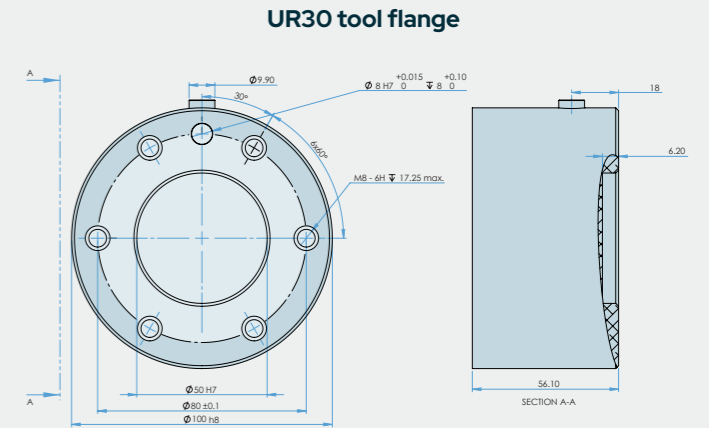
The control box is also available in an OEM version



Mounting hole pattern with pins for robot base



Recommended hole pattern for robot base



UNLESS OTHERWISE SPECIFIED:
 Dimensions are in millimeters. Tolerance ± 0,1 mm ± 0,5"