

Payload	35 kg / 77.2 lbs with boundary conditions according to the manual.
Reach	1300 mm / 51.18 in
Degrees of freedom	6 rotating joints
Programming	12 inch touchscreen with PolyScope graphical user interface
Power consumption	
Maximum power	750 W
Operating temperature range	Ambient temperature: 0-50 °C / 32-122 °F
Safety functions	23 configurable safety functions
In compliance with	EN ISO 13849-1 (PLd Category 3), EN ISO 10218-1 and UL 1740

Performance

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

Maximum TCP sp

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

Technical specification

UR30 offers extraordinary lift in a compact footprint with superior motion control ensuring the perfect placement of large payloads.

for high torque screw driving and the 30 kg payload brings productivity to everything from machine tending with multiple grippers to palletizing heavy parts.

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IP Classification

Cleanroom classification	Class 4 at $\leq 80\%^*$
ISO 14644-1 <i>*Velocity and payload</i>	
Noise	< 67 dB(A)
Status identification	Light ring at robot base
Arm mounting	Any orientation
I/O Ports at tool flange	
Digital In	2
Digital Out	2
Analog In	2 or 1 x RS485
Power supply voltage	12/24 V
Power supply	2 A (Dual pin) 1 A (Single pin)

Footprint

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 without cable	63.5 kg / 140.0 lbs
Humidity	< 90% RH (non-condensing)

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Features

Humidity	≤ 90% RH (non-condensing)
Display resolution	1280 x 800 pixels

Materials

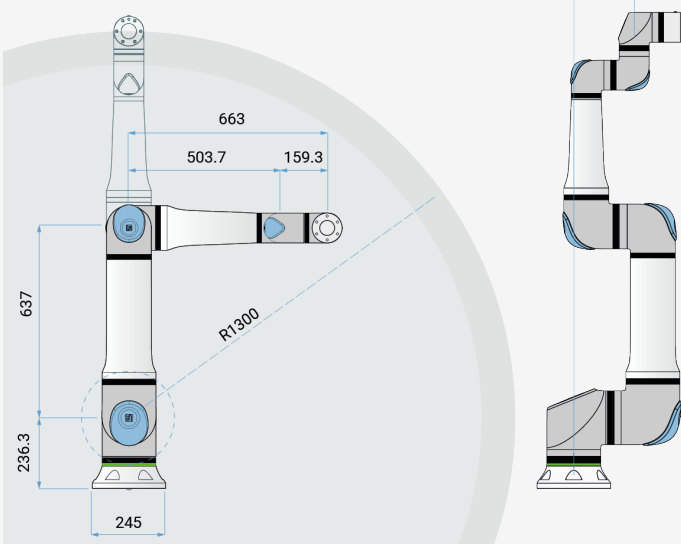
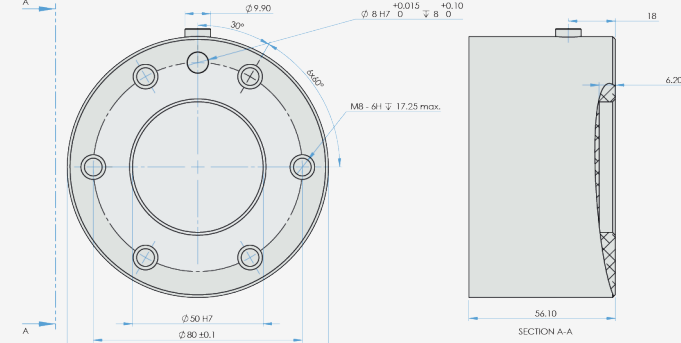
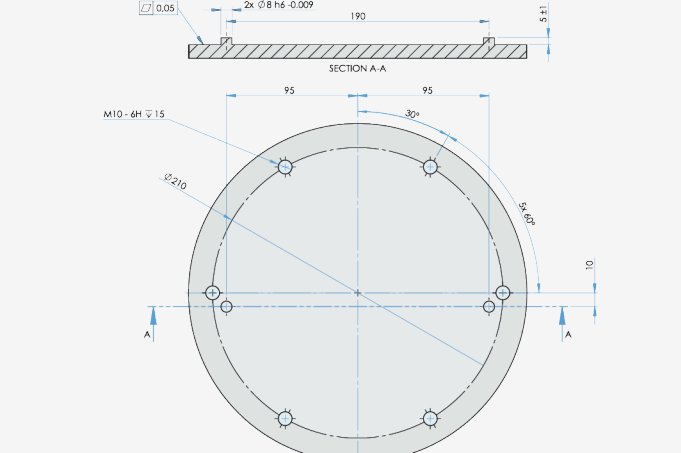
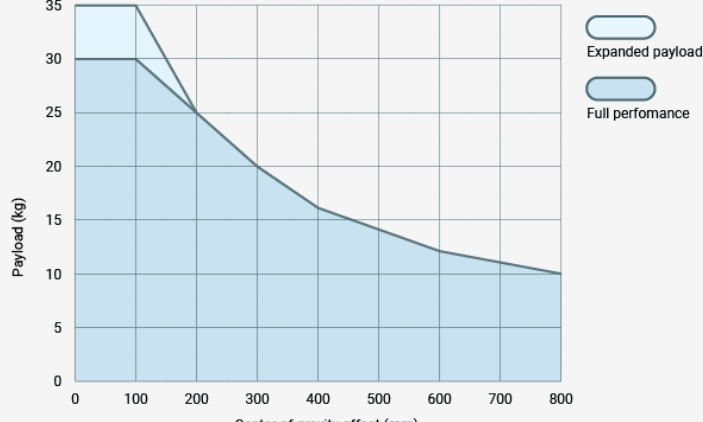
Teach pendant size (W x H x D)	300 mm x 231 mm x 50 mm / 11.8 in x 9.1 in x 1.97 in
Weight	1.8 kg / 3.968 lbs including 1 m of teach pendant cable
Cable length	4.5 m / 177.17 in

Features

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	100-240 VAC. 47-440 Hz

Control Box S

Weight	12 kg / 26.5 lbs
Materials	Powder coated steel



OTHERWISE SPECIFIED:

millimeters. Tolerance $\pm 0,1 \text{ mm} \pm 0,5^\circ$