



## UR30

### Technical specification

Building off the same architecture as the UR20, the UR30 offers extraordinary lift in a compact footprint with superior motion control ensuring the perfect placement of large payloads.

Boasting 25% more torque the UR30 opens the door 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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## UR30

### General specification

Payload	30 kg (66.1 lbs)
	35 kg (77.1 lbs) with boundary conditions according to manual.
Reach	1300 mm (51.18 in)
Degrees of freedom	6 rotating joints
Programming	12 inch touchscreen with PolyScope graphical user interface
<b>Power consumption (average)</b>	
Maximum power	750 W
Moderate operating settings	300 W
Operating temperature range	Ambient temperature: 0-50°C (32-122°F)
Safety functions	20 configurable safety functions
In compliance with	EN ISO 13849-1 (PLd Category 3), EN ISO 10218-1 and UL 1740
Joint architecture	2-1-3

## UR30 Robot 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

Max TCP speed	4 m/s	
Pose repeatability per ISO 9283	± 0.1 mm	
<b>Axis movement</b>	<b>Working range</b> <b>Maximum speed</b>	
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 Classification	IP65
Cleanroom classification	
ISO 14644-1 *Velocity and payload	Class 4 at ≤ 80%*
Noise	< 67 dB(A)
Status identification	Light ring at robot base
Arm mounting	Any orientation
<b>I/O Ports at tool flange</b>	
Digital In	2
Digital Out	2
Analog In	2
Power supply voltage	12/24 V
Power supply	2 A (Dual pin), 1 A (Single pin)

### Physical

Footprint	Ø245 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 without cable	63.5 kg (139.9 lbs)
Humidity	≤ 90% RH (non-condensing)

### Contact

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Energivej 51  
5260 Odense  
Denmark

## 3-Position Enabling Teach Pendant

### Features

IP classification	IP54
Humidity	≤ 90% RH (non-condensing)
Display resolution	1280 x 800 pixels
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)
<b>I/O Ports</b>	
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

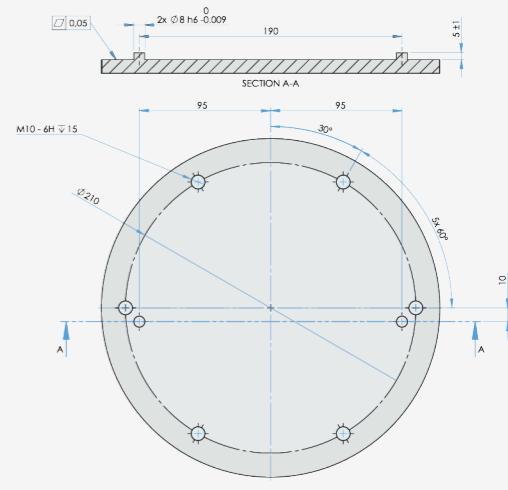
\*Only valid for OEM version.

### Physical

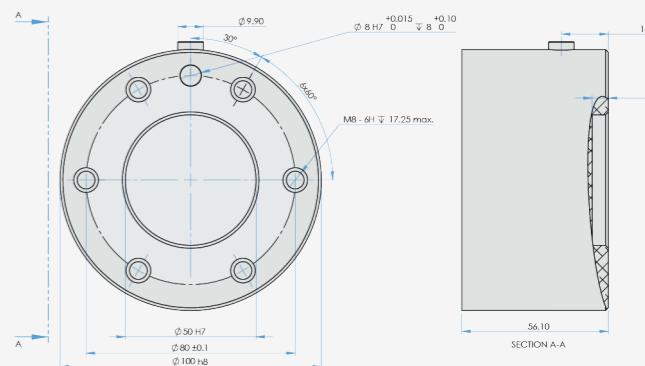
Control Box Size (W x H x D)	460 mm x 449 mm x 254 mm (18.2 in x 17.6 in x 10 in)
Weight	12 kg (26.5 lbs)
Materials	Powder coated steel

The controlbox is also available in an OEM version.

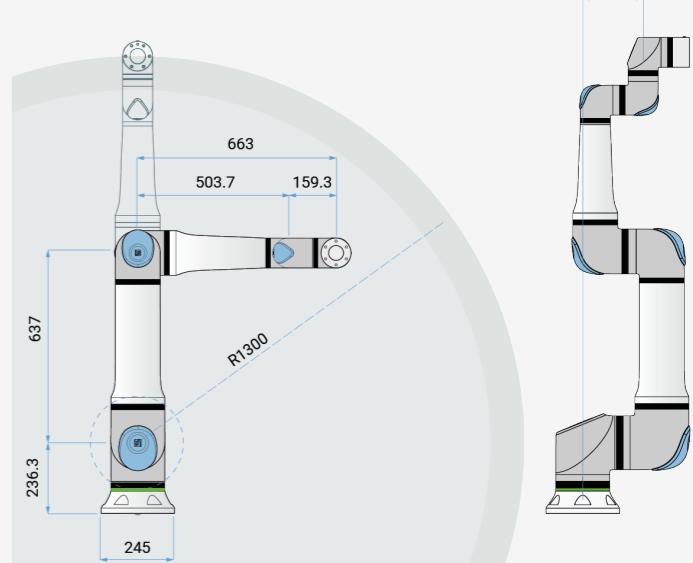
### Interface for UR30 base flange



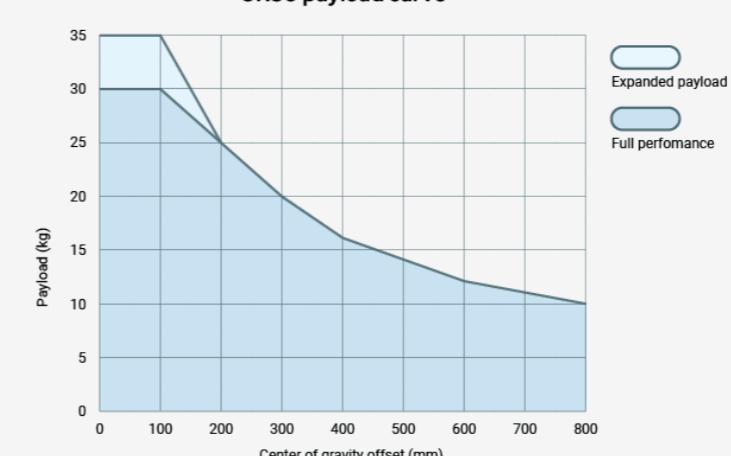
### Tool flange for UR30



### Dimensions and reach UR30



### UR30 payload curve



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