

UNIVERSAL ROBOTS
A Teradyne Robotics Company

# 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.

Updated September 2026

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## UR30

### General specification

| | |
|---|---|
| Payload | 30 kg / 66.1 lbs<br>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:<br>0-50 ˚C / 32-122 ˚F |
| Safety functions | 23 configurable safety functions |
| In compliance with | EN ISO 13849-1 (PLd Category 3),<br>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

| | | |
|---|---|---|
| Maximum TCP speed | 4 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 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 |
| **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) |

### 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 / 140.0 lbs |
| Humidity | ≤ 90% RH (non-condensing) |

## Contact

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## 3-Position Enabling Teach Pendant

### Features

| | |
|---|---|
| IP classification | IP54 |
| 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 / 3.968 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)<br>Ethernet/IP Adapter<br>PROFINET device, PROFIsafe<br>ROS/ROS2 |
| Hardware interfaces | Ethernet 1 Gb/s<br>USB 2.0 USB 3.0<br>Mini DisplayPort<br>Injection Moulding Machine Interface (SPI AN-146 & Euromap-67)* |
| Power Source | 100-240 VAC, 47-440 Hz |

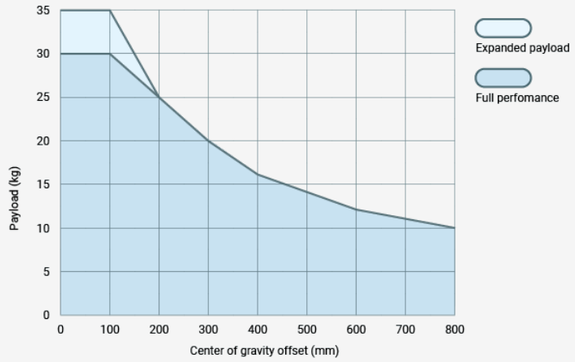
**Only valid for OEM version.*

### Physical

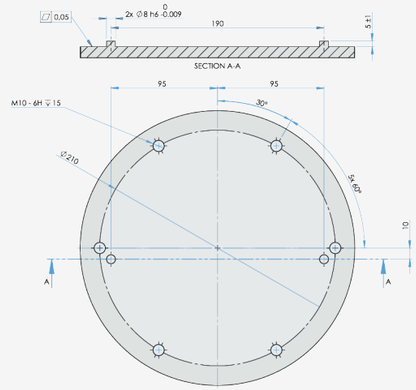
| | |
|---|---|
| Control Box Size (W x H x D) | 460 mm x 449 mm x 254 mm / 18.2 in x 17.6 in x 10 in |
| Weight | 12 kg / 26.5 lbs |
| Materials | Powder coated steel |

*The control box is also available in an OEM version.*

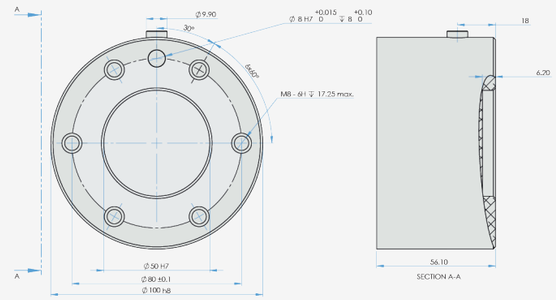
**UR30 payload curve**



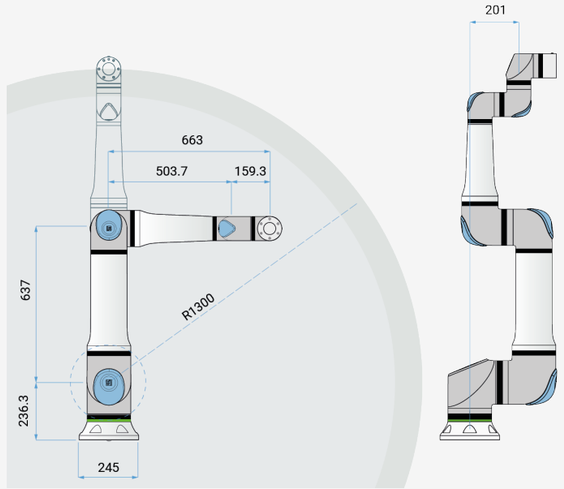

**Interface for UR30 base flange**




**Tool flange for UR30**




**Dimensions and reach UR30**




September 2026

UNLESS OTHERWISE SPECIFIED:

Dimensions are in millimeters. Tolerance ± 0,1 mm ± 0,5˚