

UR10e

Technical specification

Our most versatile robot, the UR10e delivers an impressive payload of 12.5 kg and 1300 mm reach, making it ideal for a wide range of applications.

Today, more than 100,000 UR collaborative industrial robots have been delivered to customers across industries and around the world. The e-Series of cobots brings incredible flexibility and unparalleled ease of use to your application.

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Features

| | |
|---------------------------------|----------------------------------|
| IP Classification | IP54 |
| Noise | < 65 dB(A) |
| Arm mounting | Any orientation |
| I/O Ports at tool flange | |
| Digital In | 2 |
| Digital Out | 2 |
| Analog In | 2 or 1 RS-485 |
| Power supply voltage | 12/24 V |
| Power supply | 2 A (Dual pin), 1 A (Single pin) |

Physical

| | |
|--------------------------|---|
| Footprint | Ø190 mm |
| Materials | Aluminum, plastic, steel |
| Tool flange | M8 8-pin female, EN ISO-9409-1-50-4-M6 |
| Connector type | M8 8-pin female |
| Cable length (robot arm) | 6 m (236 in) |
| Weight including cable | 33.5 kg (73.9 lbs) |
| Humidity | ≤ 90% RH (non-condensing) |

Contact

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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 | 1.6 kg (3.5 lbs) including 1 m of teach pendant cable |
| Cable length | 4.5 m (177.17 in) |

Control Box

Features

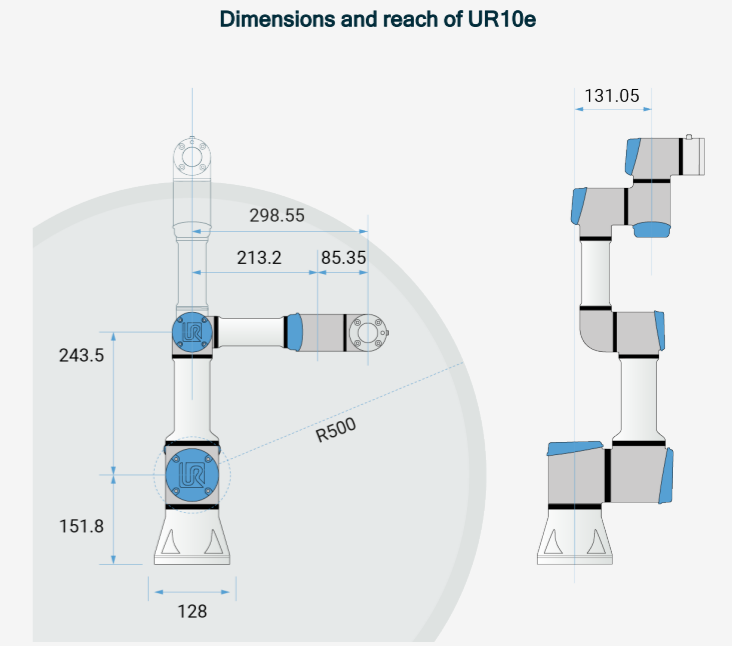
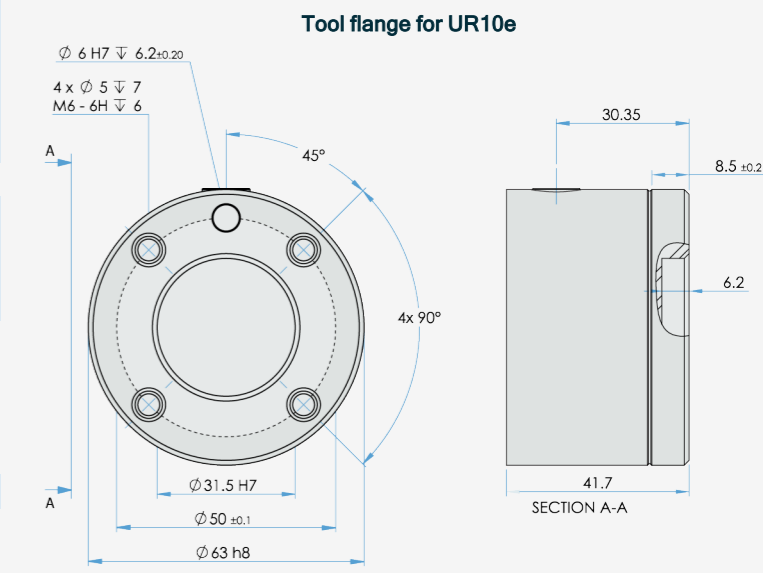
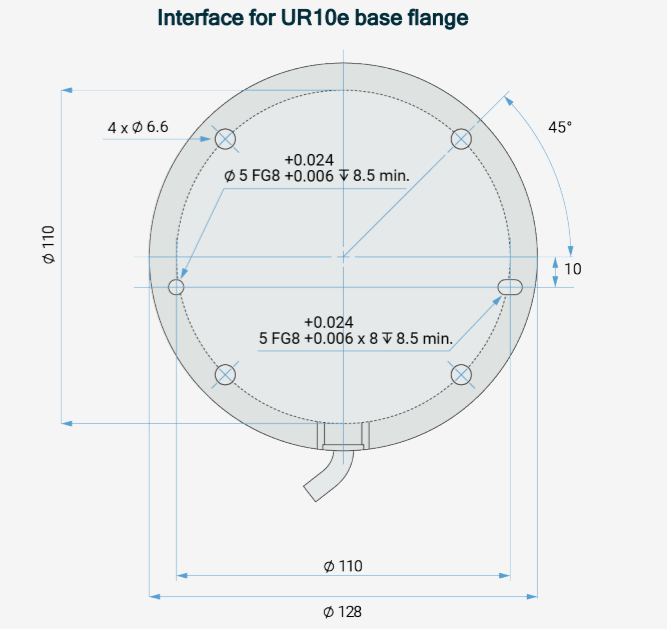
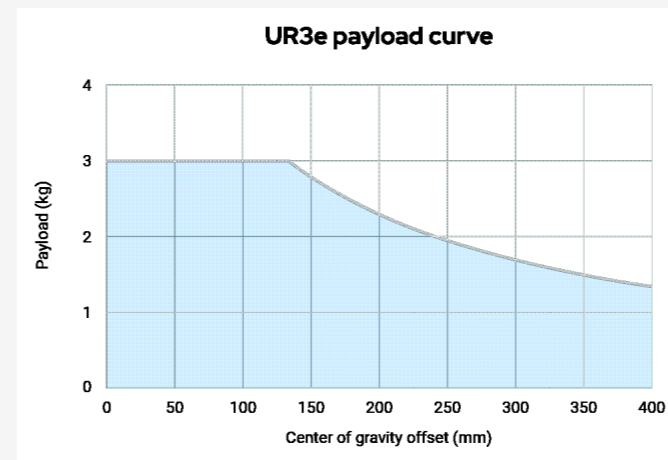
| | |
|-----------------------------|---|
| IP classification | IP44 |
| Humidity | ≤ 90% RH (non-condensing) |
| I/O Ports | |
| Digital In | 16 |
| Digital Out | 16 |
| Analog In | 2 |
| Analog Out | 2 |
| Quadrature digital inputs | 4 |
| I/O Power Supply | 24V, 2A |
| Industrial protocols | |
| | Modbus TCP (Client/Server) Ethernet/IP Adapter PROFINET device, PROFINET safe 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.



UR10e

General specification

| | |
|------------------------------------|---|
| Payload | 12.5 kg (27.5 lbs) |
| Reach | 1300 mm (51.2 in) |
| Degrees of freedom | 6 rotating joints |
| Programming | 12 inch touchscreen with PolyScope graphical user interface |
| Power consumption (average) | |
| Maximum power | 615 W |
| Moderate operating settings | 350 W |
| Operating temperature range | Ambient temperature: 0-50°C (32-122°F) |
| Safety functions | 21 configurable safety functions |
| In compliance with | EN ISO 13849-1 (PLd Category 3), EN ISO 10218-1 |

UR10e Robot Arm

Performance

| Force sensing, tool flange/torque sensor | Force, x-y-z | Torque, x-y-z |
|--|--------------|---------------|
| Range | ± 100.0 N | ± 10.0 Nm |
| Precision | ± 5.0 N | ± 0.2 Nm |
| Accuracy | ± 5.5 N | ± 0.5 Nm |

Movement

| Axis movement | Working range | Maximum speed |
|---------------|---------------|---------------|
| Base | ± 360° | ± 120°/s |
| Shoulder | ± 360° | ± 120°/s |
| Elbow | ± 360° | ± 180°/s |
| Wrist 1 | ± 360° | ± 180°/s |
| Wrist 2 | ± 360° | ± 180°/s |
| Wrist 3 | ± 360° | ± 180°/s |