

UR10e

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 | |
| In compliance with | 17 configurable safety functions EN ISO 13849-1 (PLd Category 3) and EN ISO 10218-1 |

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

| | | |
|---------------------------------|----------------------|----------------------|
| Typical TCP speed | 1 m/s | |
| Pose Repeatability per ISO 9283 | ± 0.05 mm | |
| Axis movement | Working range | Maximum speed |
| Base | ± 360° | ± 180°/s |
| Shoulder | ± 360° | ± 180°/s |
| Elbow | ± 360° | ± 180°/s |
| Wrist 1 | ± 360° | ± 180°/s |
| Wrist 2 | ± 360° | ± 180°/s |
| Wrist 3 | ± 360° | ± 180°/s |

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 75,000 UR collaborative industrial robots have been delivered to customers across industries and around the world. UR10e is one of four e-Series cobots, each with a different payload and reach combination. e-Series brings incredible flexibility and unparalleled ease of use to your application.

Updated October 2023.

Features

| | |
|-------------------------------|---------------------------------|
| IP classification | IP54 water protection |
| Noise | < 65 dB(A) |
| Robot mounting | 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 190 mm |
| Materials | Aluminum, plastic, steel |
| Tool Flange | EN ISO-9409-1-50-4-M6 |
| Connector type | M8 M8 8-pin |
| Cable length (robot arm) | 6 m (236 in) |
| | 12 m (472 in) and high-flex options available. |
| Weight including cable | 33.5 kg (73.9 lbs) |
| Humidity | ≤ 90% RH (non-condensing) |

Contact

Universal Robots A/S
Energivej 25
5260 Odense
Denmark

+45 89 93 89 89
sales@universal-robots.com
universal-robots.com

3-Position Enabling Teach Pendant

Features

| | |
|----------------------------|----------------------------------|
| IP classification | IP54 |
| Included in certifications | EN ISO 10218-1 EN ISO 13849-1 |
| 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

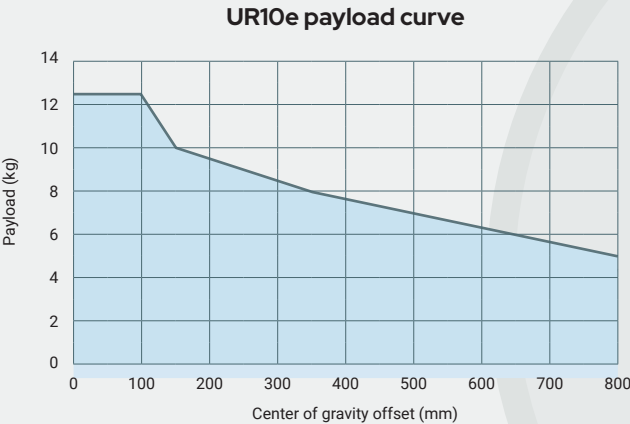
Features

| | |
|------------------------------|--|
| IP Classification | IP44 |
| ISO 14644-1 class cleanroom | 6 |
| Operating temperature range* | 0-50°C (32-122°F) |
| 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 |
| Communication | 500 Hz Control frequency Modbus PROFINET, PROFIsafe (optional) TCP USB 2.0, USB 3.0 Ethernet/IP USB 2.0, USB 3.0 PROFINET ROS/ROS2 driver (optional, open source) Euromap-67 (optional) SPI AN-146 (optional) Injection Moulding Machine Interface (IMMI, optional) |
| Power Source | 100-240 VAC, 47-440 Hz |

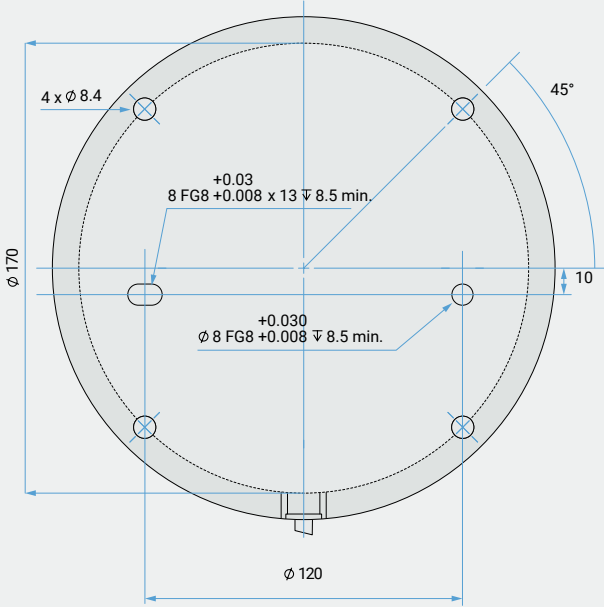
Physical

| | |
|------------------------------|---|
| 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 |

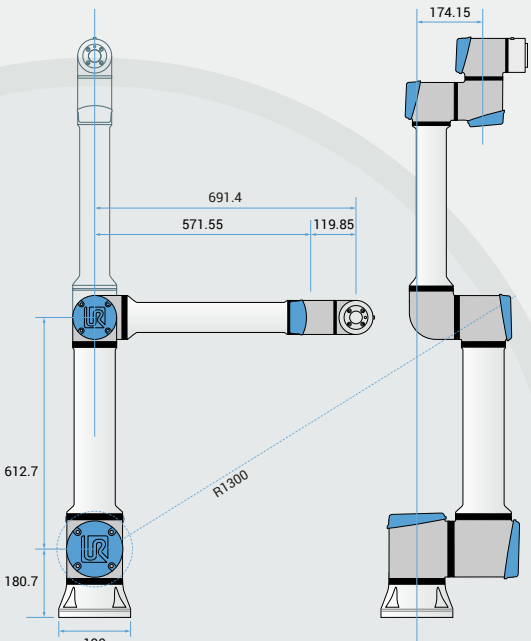
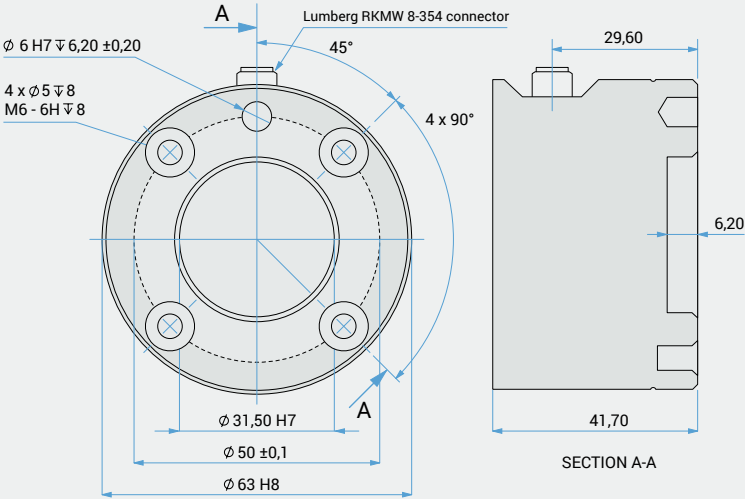
The control box is also available in an OEM version



Interface for UR10e base flange



Tool flange for UR3e, UR5e, UR10e and UR16e



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