



## UR15

### General specification

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| Payload                     | 15 kg / 33.1 lbs<br>17.5 kg / 38.58 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                               |
| <b>Power consumption</b>    |                                                                                           |
| Maximum power               | 550 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                                                                                     |

## UR15 Robot Arm

### Performance

| Force sensing, tool flange/torque sensor | Force, x-y-z | Torque, x-y-z |
|------------------------------------------|--------------|---------------|
| Range                                    | ± 150.0 N    | ± 10.0 Nm     |
| Precision                                | ± 7.5 N      | ± 0.2 Nm      |
| Accuracy                                 | ± 8.3 N      | ± 0.5 Nm      |

### Movement

|                                 |                      |                      |
|---------------------------------|----------------------|----------------------|
| Maximum TCP speed               | 5 m/s                |                      |
| Pose repeatability per ISO 9283 | ± 0.05 mm            |                      |
| <b>Axis movement</b>            | <b>Working range</b> | <b>Maximum speed</b> |
| Base                            | ± 360°               | ± 180°/s             |
| Shoulder                        | ± 360°               | ± 180°/s             |
| Elbow                           | ± 360°               | ± 240°/s             |
| Wrist 1                         | ± 360°               | ± 300°/s             |
| Wrist 2                         | ± 360°               | ± 300°/s             |
| Wrist 3                         | ± 360°               | ± 300°/s             |



## UR15

### Technical specification

UR15. Sharp. Compact. Outsized performance at arm’s reach.

The UR15 is the most lightweight member of the UR Series surpassing the expectations for the most sought-after size representing a sweet spot within the collaborative robot market offering speed and dependability that easily fits in a variety of environments.

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### Features

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| IP Classification                       | IP65                             |
| Cleanroom classification<br>ISO 14644-1 | Class 4 at ≤ 80%                 |
| <i>*Velocity and payload</i>            |                                  |
| 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 or 1 x RS485                   |
| Power supply voltage                    | 12/24 V                          |
| Power supply                            | 2 A (Dual pin), 1 A (Single pin) |

### Physical

|                          |                           |
|--------------------------|---------------------------|
| Footprint                | Ø204 mm                   |
| Materials                | Aluminum, plastic, steel  |
| Tool flange              | EN ISO 9409-1-50-4-M6     |
| Connector type           | M8 8-pin female           |
| Cable length (robot arm) | 6 m / 236 in              |
| Weight without cable     | 40.7 kg / 89.73 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

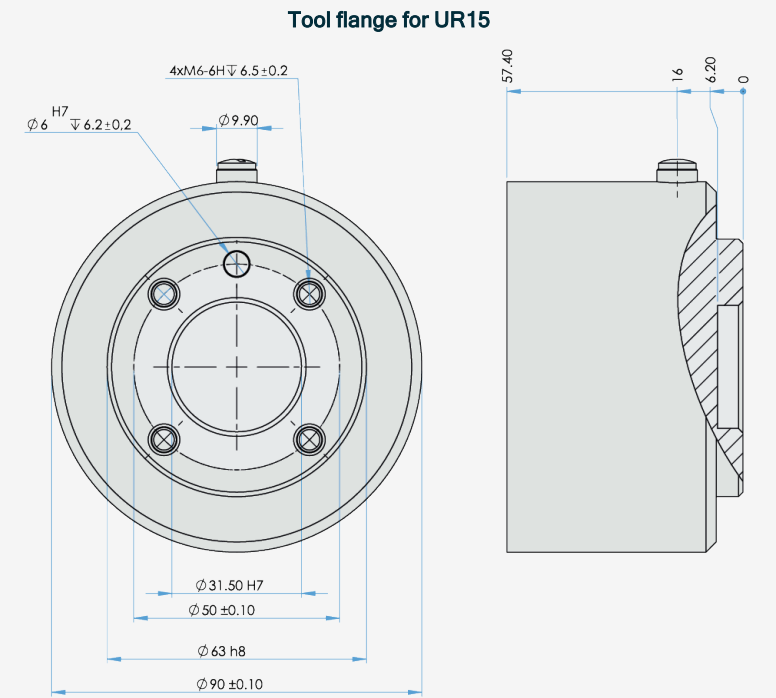
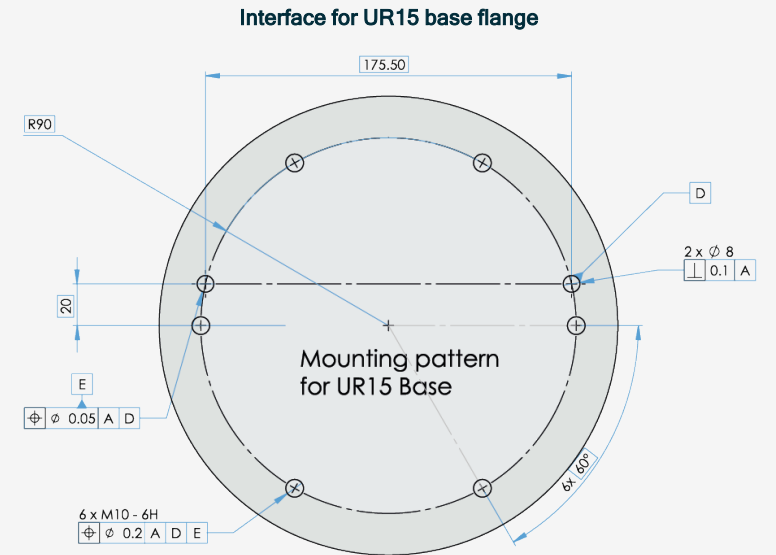
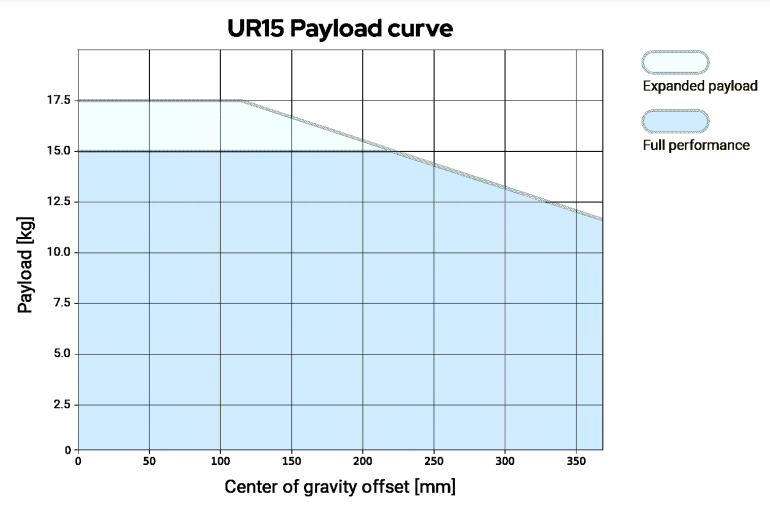
|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| IP classification         | IP44                                                            |
| Humidity                  | ≤ 90% RH (non-condensing)                                       |
| <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          | 24 V, 2 A                                                       |
| Industrial protocols      | Modbus TCP (Client/Server)                                      |
|                           | Ethernet/IP Adapter                                             |
|                           | PROFINET device, PROFIsafe                                      |
|                           | ROS/ROS2                                                        |
|                           | Ethernet 1 Gb/s                                                 |
| Hardware interfaces       | USB 2.0 USB 3.0                                                 |
|                           | Mini DisplayPort                                                |
|                           | Injection Moulding Machine Interface (SPI AN-146 & Euromap-67)* |
|                           |                                                                 |
|                           |                                                                 |
| Power Source              | 100-240VAC, 47-440 Hz                                           |

*\*Only valid for OEM version.*

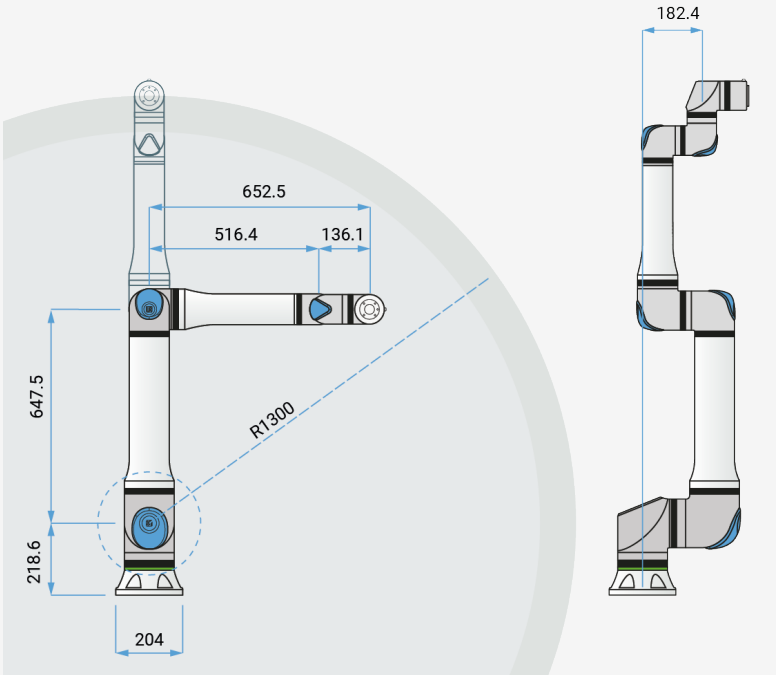
### Physical

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| 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.*



### Dimensions and reach of UR15



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UNLESS OTHERWISE SPECIFIED:

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