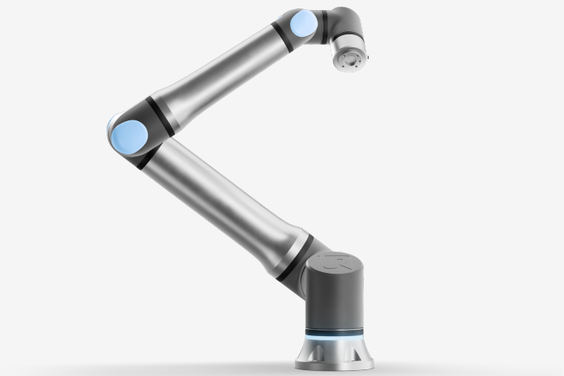

UNIVERSAL ROBOTS
A Teradyne Robotics Company

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.

Updated May 2025.

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UR15

General specification

Payload	15 kg (33.1 lbs) 17.5 kg (38.58 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
Power consumption (average)	
Maximum power	550 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 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	
Axis movement	**Working range**	**Maximum speed**
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

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 RS-485
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	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-Postion 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 (3.961 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)
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, 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	100-240VAC, 47-440 Hz

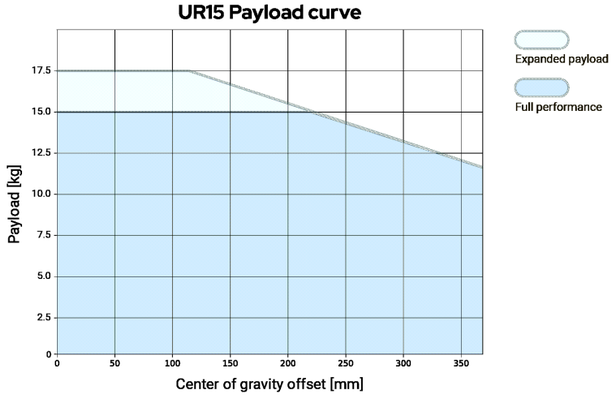
**Only valid for OEM version.*

Physical

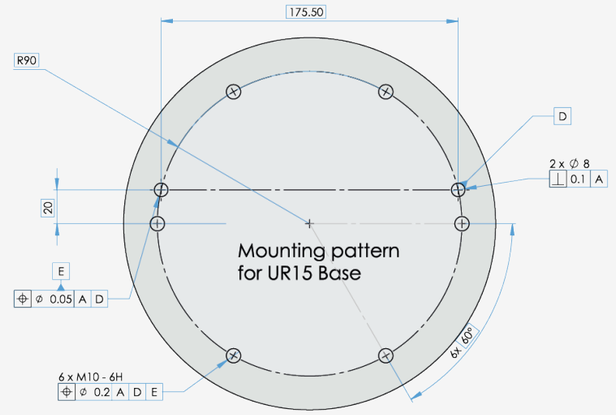
Control Box Size (W x H x D)	460 mm x 449 mm x 254 mm (18.2 in x 17.6 in x 10 in)
Weight	12 kg (26.5 lbs)
Materials	Powder coated steel

The controlbox is also available in an OEM version.

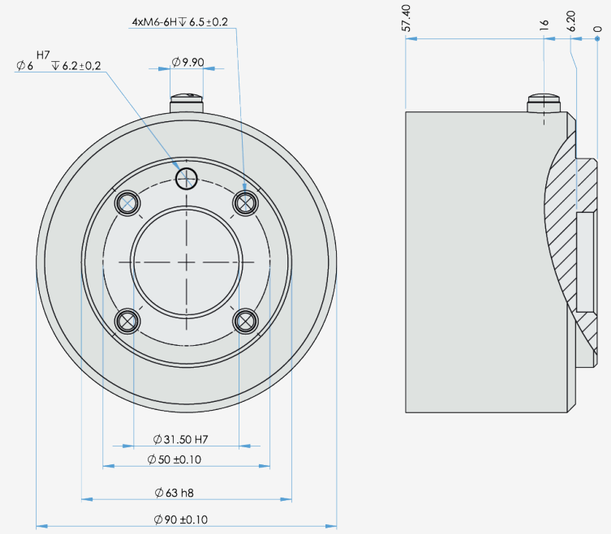
UR15 Payload curve



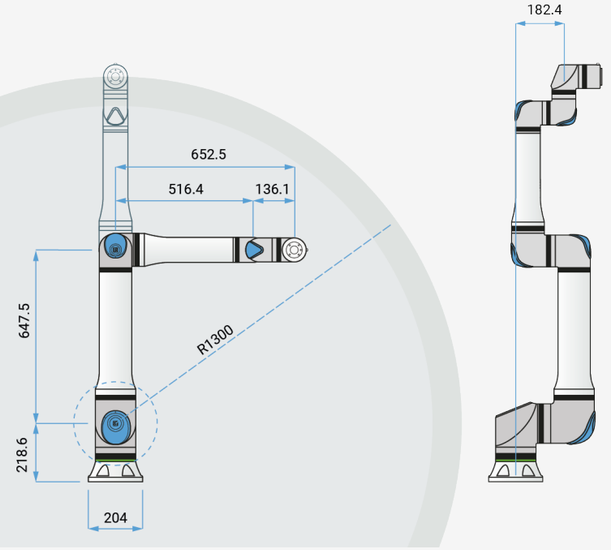
Interface for UR15 base flange



Tool flange for UR15



Dimensions and reach of UR15



April 2026

UNLESS OTHERWISE SPECIFIED:

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