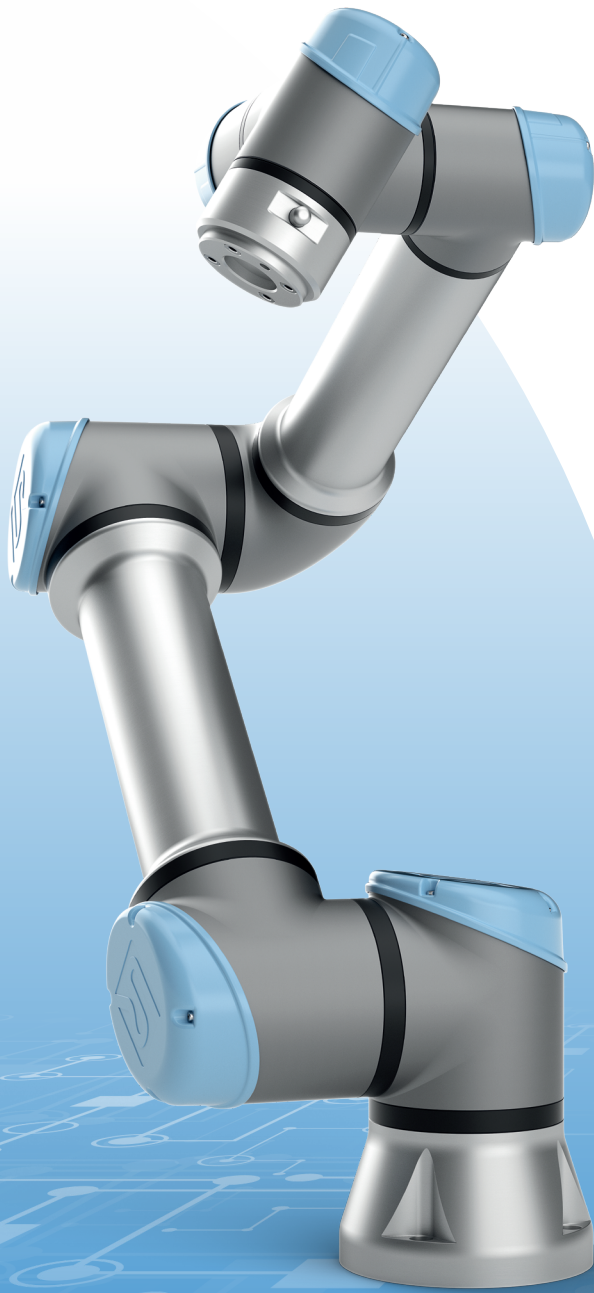**UNIVERSAL ROBOTS**

Meet the World's
#1 Collaborative Robot

THE e-SERIES

- **PACKAGING AND PALLETIZING**
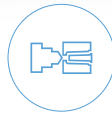- **MACHINE TENDING**
- **INDUSTRIAL ASSEMBLY**
- **PICK AND PLACE**
- **INJECTION MOLDING**
- **GLUING, DISPENSING, WELDING**

- **CERTIFIED PLUG AND PLAY PRODUCTS WITH UR+ ECOSYSTEM**
- **FREE ONLINE TRAINING PROGRAM**

universal-robots.com

SUPERCHARGE GROWTH WITH THE e-Series

GET AN EDGE OVER YOUR COMPETITORS WITH THE e-Series' FIVE KEY BENEFITS

EASY PROGRAMMING

87 minutes to turn anyone into a robot programmer.

- Integrated Force Torque Sensor
- User friendly Teach Pendant
- Intuitive 3D interface
- Drag-and-drop functions

FAST SET-UP

The e-Series takes less than 60 minutes to unpack, mount, and program after completion of UR Academy Training.

- Connects to a 110 VAC power outlet
- Intuitive user interface
- 20 industrial I/O connectors
- Ethernet connectivity
- Easy integration into almost any production set-up

SAFE & COLLABORATIVE

Bridge the gap between man and machine.

- Customizable stopping times + stopping distance
- Collision detection
- 17 safety functions, all EN ISO 13849-1, Cat.3, PL d, certified by TÜV NORD
- ISO 10218-1 Cat 3, PLd, certified by TÜV NORD

FLEXIBLE

Infinite ways of deployment and task automation.

- Universal Robots+ offers plug and play cutting edge products
- Lightweight – easy to relocate
- Mounts in any orientation
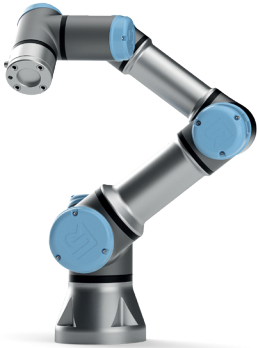- Ability to save programs and redeploy to new tasks

FAST PAYBACK

34 days - our fastest recorded payback worldwide.

- Advanced collaborative robots - available to companies of any size
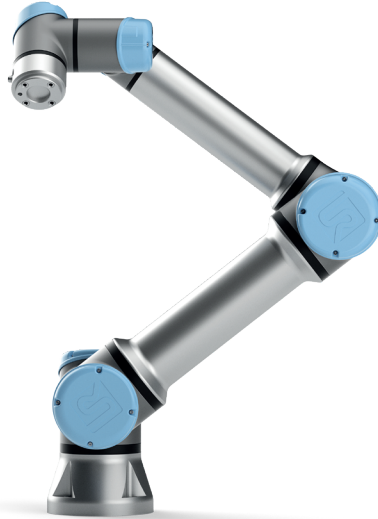- Fully upgradable software platform for a lasting and worthy investment

MEET THE e-Series FAMILY

UR3e

UR5e

UR10e

3 kg | 6.6 lb
500 mm | 19.7 in

Payload
Reach

5 kg | 11 lb
850 mm | 33.5 in

Payload
Reach

10 kg | 22 lbs
1300 mm | 51.2 in

Payload
Reach

- *Intuitive programming flow*
- *Light and responsive Teach Pendant Thin cable and wide screen*
- *Customizable stopping time and stopping distance*

BY THE NUMBERS:

<1 YEAR
typical ROI

135+ CERTIFIED
Universal Robots+ plug and play cutting edge products

31,000+
cobots installed over 10 years

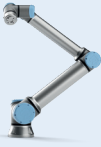**20** LANGUAGES
available on the Teach Pendant

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UNIVERSAL ROBOTS

TECHNICAL DETAILS

	UR3e		UR5e		UR10e	
Performance						
Power consumption	Approx. 100 W using a typical program		Approx. 200 W using a typical program		Approx. 350 W using a typical program	
Collaboration operation	17 advanced adjustable safety functions incl. elbow monitoring. Remote Control according to ISO 10218		17 advanced adjustable safety functions incl. elbow monitoring. Remote Control according to ISO 10218		17 advanced adjustable safety functions incl. elbow monitoring. Remote Control according to ISO 10218	
Certifications	EN ISO 13849-1, Cat.3, PL d, and EN ISO 10218-1		EN ISO 13849-1, Cat.3, PL d, and EN ISO 10218-1		EN ISO 13849-1, Cat.3, PL d, and EN ISO 10218-1	
F/T Sensor - Force, x-y-z						
Range	30 N		50 N		100 N	
Resolution	1.0 N		2.5 N		2.0 N	
Accuracy	3.5 N		4.0 N		5.5 N	
F/T Sensor - Torque, x-y-z						
Range	10 Nm		10 Nm		10 Nm	
Resolution	0.02 Nm		0.04 Nm		0.02 Nm	
Accuracy	0.10 Nm		0.30 Nm		0.60 Nm	
Ambient temperature range	0-50°C*		0-50°C		0-50°C	
Humidity	90%RH (non-condensing)		90%RH (non-condensing)		90%RH (non-condensing)	
Specification						
Payload	3 kg / 6.6 lbs		5 kg / 11 lbs		10 kg / 22 lbs	
Reach	500 mm / 19.7 in		850 mm / 33.5 in		1300 mm / 51.2 in	
Degrees of freedom	6 rotating joints DOF		6 rotating joints DOF		6 rotating joints DOF	
Programming	Polyscope graphical user interface on 12 inch touchscreen with mounting		Polyscope graphical user interface on 12 inch touchscreen with mounting		Polyscope graphical user interface on 12 inch touchscreen with mounting	
Movement						
Pose Repeatability	+/- 0.03 mm, with payload, per ISO 9283		+/- 0.03 mm, with payload, per ISO 9283		+/- 0.05 mm, with payload, per ISO 9283	
Axis movement robot arm	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed
Base	± 360°	±180°/Sec.	± 360°	±180°/Sec.	± 360°	±120°/Sec.
Shoulder	± 360°	±180°/Sec.	± 360°	±180°/Sec.	± 360°	±120°/Sec.
Elbow	± 360°	±180°/Sec.	± 360°	±180°/Sec.	± 360°	±180°/Sec.
Wrist 1	± 360°	±360°/Sec.	± 360°	±180°/Sec.	± 360°	±180°/Sec.
Wrist 2	± 360°	±360°/Sec.	± 360°	±180°/Sec.	± 360°	±180°/Sec.
Wrist 3	Infinite	±360°/Sec.	± 360°	±180°/Sec.	± 360°	±180°/Sec.
Typical TCP speed		1 m/Sec. / 39.4 in/Sec.		1 m/Sec. / 39.4 in/Sec.		1 m/Sec. / 39.4 in/Sec.
Features						
IP classification	IP54		IP54		IP54	
ISO Class Cleanroom	5		6		5	
Noise	Less than 60 dB(A)		Less than 65 dB(A)		Less than 65 dB(A)	
Robot mounting	Any Orientation		Any Orientation		Any Orientation	
I/O ports	Digital in 2 Digital out 2 Analog in 2 Analog out 0 UART interface (9.6k-5Mbps)		Digital in 2 Digital out 2 Analog in 2 Analog out 0 UART interface (9.6k-5Mbps)		Digital in 2 Digital out 2 Analog in 2 Analog out 0 UART interface (9.6k-5Mbps)	
I/O power supply in tool	12V/24V 600mA continuous, 2A for shorter periods		12V/24V 600mA continuous, 2A for shorter periods		12V/24V 600mA continuous, 2A for shorter periods	
Physical						
Footprint	Ø 128 mm		Ø 149 mm		Ø 190 mm	
Materials	Aluminium, Plastic, Steel		Aluminium, Plastic, Steel		Aluminium, Plastic, Steel	
Tool (end-effector) connector type	M8 | M8 8-pin		M8 | M8 8-pin		M8 | M8 8-pin	
Cable length robot arm	6 m / 236 in		6 m / 236 in		6 m / 236 in	
Weight including cable	11.2 kg / 24.7 lbs		20.6 kg / 45.4 lbs		33.5 kg / 73.9 lbs	

Control Box

Features

IP classification	IP44
ISO Class Cleanroom	6
Ambient temperature range	0-50°
I/O ports	Digital in 16 Digital out 16 Analog in 2 Analog out 2 500 Hz control, 4 separated high speed quadrature digital inputs
I/O power supply	24V 2A
Communication	Control frequency: 500 Hz ModbusTCP: 500 Hz signal frequency ProfiNet and EthernetIP: 500 Hz signal frequency USB ports: 1 USB 2.0, 1 USB 3.0
Power source	100-240VAC, 47-440Hz
Humidity	90%RH (non-condensing)

Physical

Control box size (WxHxD)	475 mm x 423 mm x 268 mm 18.7 in x 16.7 in x 10.6 in
Weight	
UR3e	Max 13 kg / 28.7 lbs
UR5e	Max 13.6 kg / 30.0 lbs
UR10e	Max 13.6 kg / 30.0 lbs
Materials	Steel

Teach Pendant

Features

IP classification	IP54
Humidity	90%RH (non-condensing)
Display resolution	1280 x 800 pixels

Physical

Materials	Plastic
Weight including 1m of TP cable	1.6 kg / 3.5 lbs
Cable length	4.5 m / 177.17 in

Get started with Universal Robots today

Universal Robots has local offices and a worldwide network of channel partners.

universal-robots.com
+1 844-462-6268
ur.na@universal-robots.com

* The robot can work in a temperature range of 0-50°C. At a high continuous joint speed, ambient temperature is reduced.