



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 LIR+ FCOSYSTEM



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

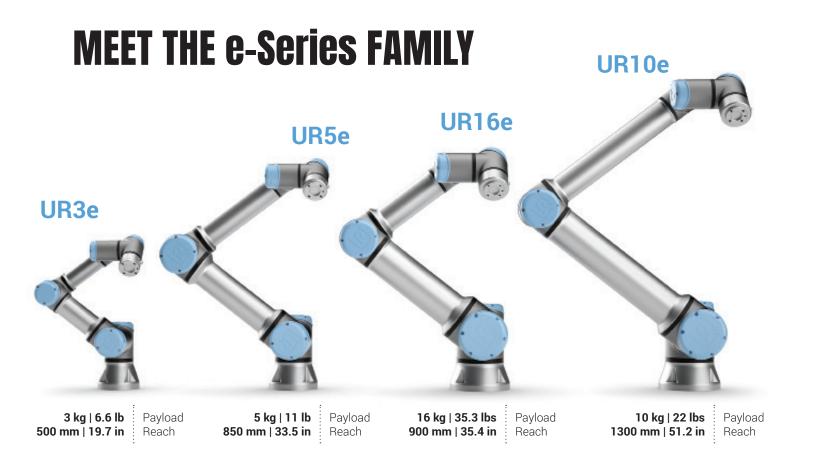
FAST PAYBACK

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

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Control box

Features

IP classification	IP44
ISO 14644-1 Class Cleanroom	6
Ambient temperature range	0-50°C
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 TCP
	PROFINET
	Ethernet/IP
	USB 2.0, USB 3.0
Power source	100-240VAC, 47-440Hz
Humidity	90%RH (non-condensing)
Physical	
Control hav size (MyLlyD)	475 mm v 400 mm v 060 mm

Control box size (WxHxD)	475 mm x 423 mm x 268 mm (18.7 in x 16.7 in x 10.6 in)
Weight	12 kg (26.5 lbs)
Materials	Powder coated steel

Teach pendant

Features

IP classification	IP54
Humidity	90%RH (non-condensing)
Display resolution	1280 x 800 pixels
Physical	
Materials	Plastic, PP
Weight including 1m of TP cable	1.6 kg (3.5 lbs)
Cable length	4.5 m (177.17 in)



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

	UR3e		UR5e		UR10e		UR16e		
Specifications									
Payload	3 kg (6.6 lbs)		5 kg (11 lbs)	5 kg (11 lbs)			16 kg (35.3 lbs)	16 kg (35.3 lbs)	
Reach	500 mm (19.7 in)		850 mm (33.5 in)		1300 mm (51.2 in)		900 mm (35.4 in)		
Degrees of freedom	6 rotating joints								
Programming	12 inch touchscreen with polyscope graphical user interface								
Performance									
Power, consumption, maximum average	300 W		570 W		615 W		585 W		
Safety				— 17 configurabl	e safety functions				
Certifications			EN IS	O 13849-1, PLd Cat	egory 3, and EN IS	0 10218-1			
Force Sensing, Tool Flange Range Precision Accuracy	Force, x-y-z 30.0 N 2.0 N 3.5 N	Torque, x-y-z 10.0 Nm 0.1 Nm 0.1 Nm	Force, x-y-z 50.0 N 3.5 N 4.0 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.3 Nm	Force, x-y-z 100.0 N 5.0 N 5.5 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.5 Nm	Force, x-y-z 160.0 N 5.0 N 5.5 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.5 Nm	
Movement									
Pose Repeatability per ISO 9283	± 0.03 mm		± 0.03 mm		± 0.05 mm		± 0.05 mm		
Axis movement Base Shoulder Elbow Wrist 1 Wrist 2 Wrist 3	# 360° # 360° # 360° # 360° # 360° # 360° Infinite	Maximum speed ± 180°/s ± 180°/s ± 180°/s ± 360°/s ± 360°/s ± 360°/s	# 360° # 360° # 360° # 360° # 360° # 360°	Maximum speed ± 180°/s ± 180°/s ± 180°/s ± 180°/s ± 180°/s ± 180°/s	# 360° # 360° # 360° # 360° # 360° # 360°	Maximum speed ± 120°/s ± 120°/s ± 180°/s ± 180°/s ± 180°/s ± 180°/s	# 360° # 360° # 360° # 360° # 360° # 360° # 360°	Maximum speed ± 120°/s ± 120°/s ± 180°/s ± 180°/s ± 180°/s	
Typical TCP speed				1 m/s (39.4 in/s) ———				
Factures									
Features IP classification				IP5	4				
ISO 14644-1 Class Cleanroom				5					
Noise	Loop than 60 dB)(A)	Loop than 6E dP		Loop than 65 dP	(4)	Loop than 65 de	D(A)	
	Less than 60 dB	D(A)	Less than 65 dB		Less than 65 dB(A) Less than 65 dB(A)				
Robot mounting				Any Orien	itation				
I/O ports Digital in Digital out Analog in									
Tool I/O Power Supply Voltage				12/2	24 V				
Tool I/O Power Supply	600 mA 1.5 A (Dual pin) 1 A (Single p		1 A (Single pin)	2 A (Dual pin) 1	A (Single pin)	2 A (Dual pin) 1 A (Single pin)			
Physical									
Footprint	Ø 128 mm		Ø 149 mm		Ø 190 mm		Ø 190mm		
Materials				—— Aluminium, F	Plastic, Steel				
Tool (end-effector) connector type	M8 M8 8-pin —								
Cable length robot arm	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) 33.1 kg (73 lbs)								
Operating temperature range	0-50°C								
Humidity	90%RH (non-condensing)								

 $[\]star$ The robot can work in a temperature range of 0-50°C at a high continuous joint speed, ambient temperature is reduced.