



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 LIB+ 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

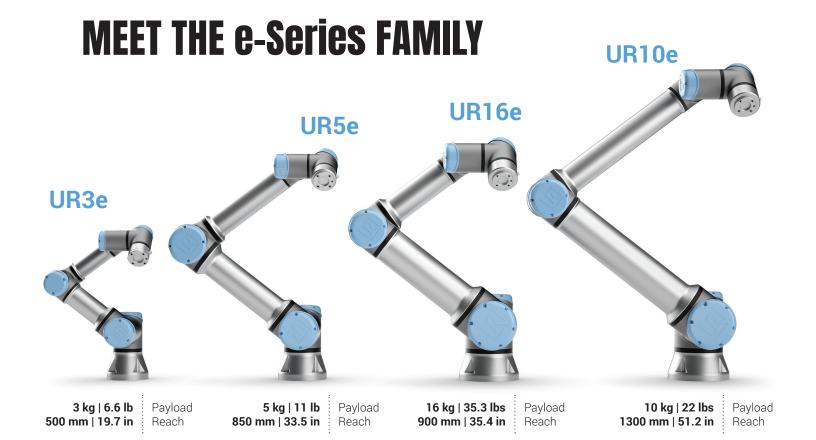
FAST PAYBACK

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

Control box size (WxHxD)

Weight

Materials

Features

IP classification	IP44			
ISO 14644-1 Class Cleanroom	6			
Ambient temperature range	0-50°C			
I/O ports Digital in Digital out Analog in Analog out Quadrature Digital Inputs	16 16 2 2 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				

475 mm x 423 mm x 268 mm

(18.7 in x 16.7 in x 10.6 in)

12 kg (26.5 lbs)

Powder coated steel

Teach pendant

Features

Humidity

IP classification

•	`
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)

IP54

90%RH (non-condensing)



- 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)		10 kg (22 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 jo	ints —					
Programming	12 inch touchscreen with polyscope graphical user interface									
Performance										
Power, consumption, maximum average	300 W		570 W		615 W		585 W			
Safety	17 configurable safety functions									
Certifications	EN ISO 13849-1, PLd Category 3, and EN ISO 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° 100°	Maximum speed ±180°/s ±180°/s ±180°/s ±360°/s ±360°/s ±360°/s	Working range ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ±180°/s ±180°/s ±180°/s ±180°/s ±180°/s ±180°/s	Working range ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ± 120°/s ± 120°/s ± 180°/s ± 180°/s ± 180°/s ± 180°/s	Working range ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ±120°/s ±120°/s ±180°/s ±180°/s ±180°/s ±180°/s		
Typical TCP speed		2 000 70	2 000		39.4 in/s) ———	10070	1000	1100 / 0		
Features				IDE	4					
IP classification				IP5	4					
ISO 14644-1 Class Cleanroom				5						
Noise	Less than 60 dB(A) Less than 65 dB(A) Less than 65 dB(A) Less than 65 dB(A)							B(A)		
Robot mounting				Any Orien	tation					
I/O ports Digital in Digital out Analog in										
Tool I/O Power Supply Voltage	12/24 V —									
Tool I/O Power Supply	600 mA		1.5 A (Dual pin) 1 A (Singl		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 lb	.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.