

universal-robots.com



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



WITH UR+ ECOSYSTEM



FREE ONLINE TRAINING PROGRAM



Servo Dynamics Sdn Bhd 17, Solok Kekabu 1, Permatang Damar Laut, 11960 Bayan Lepas, Penang, Malaysia

Tel: 04-626 6388 e-mail: support@servo.com_l.my

www.servo.com.my

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

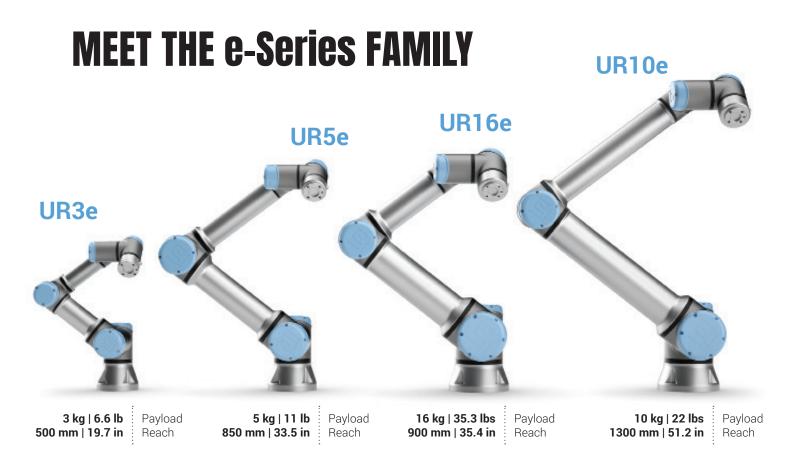
FAST PAYBACK

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

Universal Robots USA, Inc.

5430 Data Court, Suite 300 Ann Arbor, Michigan 48108 United States Tel. +1 844-GO-COBOT or +1 844-462-6268 universal-robots.com ur.na@universal-robots.com



Control box

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

Physical

Humidity

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

90%RH (non-condensing)

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	JR3e UR5e		UR10e		UR16e				
Specifications										
Payload	3 kg (6.6 lbs)		5 kg (11 lbs)	5 kg (11 lbs)		10 kg (22 lbs)		16 kg (35.3 lbs)		
Reach	500 mm (19.7 ir	1)	850 mm (33.5 ir	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° # 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	# 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) ———					
English										
Features IP classification				IP5	4					
				5						
ISO 14644-1 Class Cleanroom						4.1		- 4.3		
Noise	Less than 60 dE	B(A)	Less than 65 dB		Less than 65 dB	(A)	Less than 65 dB(A)			
Robot mounting				Any Orien	tation					
I/O ports Digital in Digital out Analog in	2 2 2 2									
Tool I/O Power Supply Voltage				12/2	4 V					
Tool I/O Power Supply	600 mA	600 mA		1.5 A (Dual pin) 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 lb	s)	20.6 kg (45.4 lb	s)	33.5 kg (73.9 lbs)		33.1 kg (73 lbs)			
Operating temperature range		0-50°C								
Humidity		90%RH (non-condensing)								

