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

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MEET THE e-Series FAMILY

**UR3e**
- **Payload**: 3 kg | 6.6 lb
- **Reach**: 500 mm | 19.7 in

**UR5e**
- **Payload**: 5 kg | 11 lb
- **Reach**: 850 mm | 33.5 in

**UR10e**
- **Payload**: 10 kg | 22 lbs
- **Reach**: 1300 mm | 51.2 in

**BY THE NUMBERS:**

- **<1 YEAR**
  - typical ROI
- **31,000+**
  - cobots installed over 10 years
- **135+**
  - Universal Robots+ plug and play cutting edge products
- **20 LANGUAGES**
  - available on the Teach Pendant

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

#### Control Box

- **Features**
  - **IP classification**: IP54
  - **ISO Class Cleanroom**: 5
  - **Ambient temperature range**: 0–50°C
  - **I/O ports**
    - Digital in: 16
    - Digital out: 16
    - Analog in: 2
    - Analog out: 2
    - USB ports: 1 USB 2.0, 1 USB 3.0
  - **Power source**: 100–240 VAC, 47–440 Hz
  - **Humidity**: 90%RH (non-condensing)
  - **Physical**
    - **Control box size (WxHxD)**: 475 mm x 423 mm x 268 mm
    - **Weight**: UR3e: 13 kg / 28.7 lbs, UR5e: 13.6 kg / 30.0 lbs, UR10e: 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

#### Footprint

- **IP classification**: IP54
- **ISO Class Cleanroom**: 6
- **Robot mounting**: Any Orientation
- **I/O power supply in tool**: 12 V/24 V 600 mA continuous, 2 A for shorter periods
- **Power source**: 100–240 VAC, 47–440 Hz
- **Humidity**: Less than 60 dB(A)
- **Robot mounting**: Any Orientation
- **I/O ports**
  - Digital in: 2
  - Digital out: 2
  - Analog in: 2
  - Analog out: 0
  - UART interface (9.6 kbps)
- **I/O power supply in tool**: 12 V/24 V 600 mA continuous, 2 A for shorter periods
- **Weight including 1m of TP cable**: 1.6 kg / 3.5 lbs

#### Specifications

- **Footprint**: Ø 128 mm
- **Materials**: Aluminium, Plastic, Steel
- **Cable length robot arm**: 2 m / 79 in
- **Weight including cable**: 7.2 kg / 15.8 lbs

#### Features

- **IP classification**: IP54
- **ISO Class Cleanroom**: 6
- **Robot mounting**: Any Orientation
- **I/O ports**
  - Digital in: 2
  - Digital out: 2
  - Analog in: 2
  - Analog out: 0
  - UART interface (9.6 kbps)
- **I/O power supply in tool**: 12 V/24 V 600 mA continuous, 2 A for shorter periods
- **Weight including 1m of TP cable**: 1.6 kg / 3.5 lbs

#### Performance

- **Power consumption**: Approx. 100 W using a typical program
- **Collaboration operation**: 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
- **F/T Sensor - Force, x-y-z**
  - Range: 30 N
  - Resolution: 0.02 Nm
  - Accuracy: ±180°/Sec.
- **F/T Sensor - Torque, x-y-z**
  - Range: 6 Nm
  - Resolution: ±120°/Sec.
  - Accuracy: ±180°/Sec.
- **Payload**: 3 kg / 6.6 lbs
- **Reach**: 500 mm / 19.7 in
- **Degrees of freedom**: 6 rotating joints DOF
- **Programming**: Polyscope graphical user interface on 12 inch touchscreen with mounting
- **Movement**: Pose Repeatability: +/- 0.03 mm, with payload, per ISO 9283
  - Base: ± 360°
  - Shoulder: ± 360°
  - Elbow: ± 360°
  - Wrist 1: ± 360°
  - Wrist 2: ± 360°
  - Wrist 3: ± 360°
- **Typical TCP speed**: 1 m/sec / 39.4 in/sec.

#### Footprint

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- **I/O ports**
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  - UART interface (9.6 kbps)
- **I/O power supply in tool**: 12 V/24 V 600 mA continuous, 2 A for shorter periods
- **Weight including 1m of TP cable**: 1.6 kg / 3.5 lbs

#### Technical Details

- **Footprint**: Ø 128 mm
- **Materials**: Aluminium, Plastic, Steel
- **Cable length robot arm**: 6 m / 236 in
- **Weight including cable**: 11.2 kg / 24.7 lbs

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