





Contact

MTS slovenský
distribútor

MTS, spol. s.r.o.
027 55 Krivá 53

roboty@mts.sk
www.mts.sk



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e-Series. Built to do more.

From Universal Robots

e-Series



Robot arm specifications.

	UR3e	UR5e	UR10e	UR16e
Specification				
Payload	3 kg (6.6 lbs)	3 kg (6.6 lbs)	12.5 kg (27.5 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
Power, Consumption, Typical with moderate operating settings (approximate)	100 W	200 W	350 W	350 W
Safety	17 configurable safety functions			
Certifications	EN ISO 13849-1, PLd Category 3, and EN ISO 10218-1			
Force Sensing, Tool Flange	Force, x-y-z	Torque, x-y-z	Force, x-y-z	Torque, x-y-z
- Range	30.0 N	10.0 Nm	50.0 N	10.0 Nm
- Precision	2.0 N	0.1 Nm	3.5 N	0.2 Nm
- Accuracy	3.5 N	0.1 Nm	0.1 Nm	0.3 Nm
Movement				
Pose Repeatability per ISO 9283	± 0.03 mm	± 0.03 mm	± 0.05 mm	± 0.05 mm
Axis movement	Working range	Maximum speed	Working range	Maximum speed
- Base	± 360°	± 180°/s	± 360°	± 180°/s
- Shoulder	± 360°	± 180°/s	± 360°	± 180°/s
- Elbow	± 360°	± 180°/s	± 360°	± 180°/s
- Wrist 1	± 360°	± 360°/s	± 360°	± 180°/s
- Wrist 2	± 360°	± 360°/s	± 360°	± 180°/s
- Wrist 3	Infinite	± 360°/s	± 360°	± 180°/s
Typical TCP speed	1 m/s (39.4 in/s)			
Features				
IP classification	IP54			
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)
Robot mounting	Any Orientation			
I/O ports				
- Digital in	2			
- Digital out	2			
- Analog in	2			
Tool I/O Power Supply Voltage	12/24 V			
Tool I/O Power Supply	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, 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)			

Meet the e-Series family.

The e-Series family has four members – the UR3e, UR5e, UR10e, and UR16e. Each cobot offers a different reach and payload, and they share the same ease of use and dependability that makes them a valuable addition to any production facility.

Subject to risk assessment, e-Series cobots can typically work alongside skilled operators on the production line, thanks to built-in configurable safety functions. Our cobots are certified by TÜV NORD for ISO 10218-1 and safety functions are rated as Cat.3 PL d according to ISO 13849-1. Safety is one of the pioneering features of collaborative robotics, and our users can meet demanding safety standards while exploring the unlimited applications of our cobots. Greater productivity, improved product quality, and peace of mind are ways we're making automation accessible to everyone.