



Collaborative Robot UR7e

The UR7e collaborative robot is an enhanced version of the proven UR5e model. It's an excellent choice for applications that require a lightweight, compact cobot with a reach 200 mm longer than the average human arm and a payload capacity of 7 kg — enabling precise and accurate task execution. Its compact design, high precision, and ease of integration make it an ideal tool for learning and experimentation in technical university laboratories. Along with the UR7e robot arm, we supply a control box, a control panel (teach pendant, optionally with 3PE), a power cable, a cable connecting the arm to the control box, and full technical documentation.

UR7e Mechanical Specification	
Degrees of freedom	6
Total weight	20.6 kg
Position repeatability	± 0.03 mm
Payload	7 kg
Range	850 mm
Axis rotation range	$\pm 360^\circ$
Max. axis rotation speed	180°/s

UR7e Mechanical Specification	
Footprint diameter	Ø 151 mm
Protection level	IP54
Ambient temperature	0-50 °C
Force / torque sensor	3-axis force and torque sensor in the robot wrist (ranges: 50 N, 10 Nm) Axes: x,y,z
Max. TCP speed	4 m/s

Software & Hardware	
Ports on the robot tool flange	2 × DI, 2 × DO, 2 × AI/ 1 × RS485
Ports on the controller	16 × DI, 16 × DO, 2 × AI, 2 × AO, 4 × quadrature input
Communication interfaces	Profinet, Ethernet/IP Adapter, Modbus TCP (Client/Server), PROFISafe, ROS/ROS 2
Hardware Interface	Ethernet 1Gb/s, USB 2.0 USB 3.0, Mini DisplayPort, Injection Moulding Machine Interface (SPI AN-146 & Euromap-67)* [*only in OEM versions]

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