



Collaborative Robot UR12e

The UR12e is a highly versatile collaborative robot. With its optimal combination of payload, reach, and compact design, the UR12e easily adapts to a wide range of workstations. It seamlessly integrates with the extensive ecosystem of UR+ components and kits. In industrial environments, the UR12e streamlines everyday tasks such as palletizing, machine tending, and welding, while also inspiring innovative applications in areas like recycling, glass manufacturing, and automated vehicle refueling. ...

Parameter	Value
Degrees of freedom	6
Pose repeatability	± 0.05 mm
Payload	12.5 kg
Reach	1300 mm
Total weight	33.5 kg
Axis rotation range	360 °
Maximum axis rotation speed	Base, Arm: 120 °/s Axes: 3, 4, 5, 6: 180 °/s
Mounting base diameter	Ø 190 mm
Maximum TCP speed	4 m/s
Robot protection rating	IP54
Operating temperature	0-50 °C
Controller ports	16 × DI 16 × DO, 2 × AI, 2 × AO, 4 × quadrature input
Communication interfaces	PROFINET, Ethernet/IP Adapter, Modbus TCP, PROFISafe ROS/ROS2
Network interface	Ethernet 1 Gb/s

Parameter	Value
Force/torque measurement	Force and torque sensors: $\pm 100\text{ N}$ / $\pm 10\text{ Nm}$, in X, Y, Z axes