

UR3

Technical details

Specification

| | |
|---------------------------|---|
| Payload | 3 kg / 6.6 lbs |
| Reach | 500 mm / 19.7 in |
| Degrees of freedom | 6 rotating joints |
| Programming | Polyscope graphical user interface on 12 inch touchscreen with mounting |

Performance

| | |
|----------------------------------|---|
| Repeatability | ±0.1 mm / ±0.0039 in (4 mils) |
| Ambient temperature range | 0-50°C |
| Power consumption | Min 90W, Typical 125W, Max 250W |
| Collaboration operation | 15 advanced adjustable safety functions. TüV NORD Approved Safety Function Tested in accordance with: EN ISO 13849:2008 PL d |

Movement

| Axis movement robot arm | Working range | Maximum speed |
|-------------------------|-------------------------|---------------|
| Base | ± 360° | ± 180°/Sec. |
| Shoulder | ± 360° | ± 180°/Sec. |
| Elbow | ± 360° | ± 180°/Sec. |
| Wrist 1 | ± 360° | ± 360°/Sec. |
| Wrist 2 | ± 360° | ± 360°/Sec. |
| Wrist 3 | Infinite | ± 360°/Sec. |
| Typical tool | 1 m/Sec. / 39.4 in/Sec. | |

Features

| | | |
|--------------------------------------|--------------------------|---|
| IP classification | IP64 | |
| ISO Class Cleanroom | 5 | |
| Noise | 70dB(A) | |
| Robot mounting | Any | |
| Estimated life at rated loads | 35,000 hours | |
| I/O ports | Digital in | 2 |
| | Digital out | 2 |
| | Analog in | 2 |
| | Analog out | 0 |
| I/O power supply in tool | 12 V/24 V 600 mA in tool | |

Physical

| | |
|-------------------------------|------------------------|
| Footprint | Ø 128mm |
| Materials | Aluminium, PP plastics |
| Tool connector type | M8 |
| Cable length robot arm | 6 m / 236 in |
| Weight with cable | 11 kg /24.3 lbs |

Control Box

Features

| | | |
|----------------------------------|--|----|
| IP classification | IP20 | |
| ISO Class Cleanroom | 6 | |
| Ambient temperature range | 0-50°C | |
| I/O ports | Digital in | 16 |
| | Digital out | 16 |
| | Analog in | 2 |
| | Analog out | 2 |
| I/O power supply | 24V 2A | |
| Communication | TCP/IP 100Mbit, Modbus TCP, Profinet, EthernetIP | |
| Power source | 100-240 VAC, 50-60 Hz | |

Physical

| | |
|---------------------------------|-----------------------|
| Control box size (WxHxD) | 475 x 423 x 268 mm |
| | 18.7 x 16.7 x 10.6 in |
| Weight | 15 kg / 33.1 lbs |
| Materials | Steel |

Teach Pendant

Features

| | |
|--------------------------|------|
| IP classification | IP20 |
|--------------------------|------|

Physical

| | |
|---------------------|------------------|
| Materials | Aluminium, PP |
| Weight | 1,5 kg / 3.3 lbs |
| Cable length | 4,5 m / 177 in |

