

## UR3

### Performance

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

### Specification

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

### Movement

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

### Features

|                                 |  |
|---------------------------------|--|
| <b>IP classification</b>        | IP64   |
| <b>ISO Class Cleanroom</b>      | 5  |
| <b>Noise</b>                    | <65dB(A)   |
| <b>Robot mounting</b>           | Any  |
| <b>I/O ports</b>                | Digital in 2<br>Digital out 2<br>Analog in 2<br>Analog out 0 |
| <b>I/O power supply in tool</b> | 12 V/24 V 600 mA in tool                                     |

### Physical

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

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

## CONTROL BOX

### Features

|                            |  |
|----------------------------|--|
| <b>IP classification</b>   | IP20   |
| <b>ISO Class Cleanroom</b> | 6  |
| <b>Noise</b>               | <65dB(A)   |
| <b>I/O ports</b>           | Digital in 16<br>Digital out 16<br>Analog in 2<br>Analog out 2 |

|                         |        |
|-------------------------|--------|
| <b>I/O power supply</b> | 24V 2A |
|-------------------------|--------|

|                      |  |
|----------------------|--|
| <b>Communication</b> | TCP/IP 100Mbit, Modbus TCP, Profinet, EthernetIP |
|----------------------|--|

|                     |                       |
|---------------------|-----------------------|
| <b>Power source</b> | 100-240 VAC, 50-60 Hz |
|---------------------|-----------------------|

|                                  |       |
|----------------------------------|-------|
| <b>Ambient temperature range</b> | 0-50° |
|----------------------------------|-------|

### Physical

|                                 |  |
|---------------------------------|--|
| <b>Control box size (WxHxD)</b> | 475mm x 423mm x 268mm /<br>18.7 x 16.7 x 10.6 in |
|---------------------------------|--|

|               |                  |
|---------------|------------------|
| <b>Weight</b> | 15 kg / 33.1 lbs |
|---------------|------------------|

|                  |       |
|------------------|-------|
| <b>Materials</b> | Steel |
|------------------|-------|

## TEACH PENDANT

### Features

|                          |      |
|--------------------------|------|
| <b>IP classification</b> | IP20 |
|--------------------------|------|

### Physical

|                  |               |
|------------------|---------------|
| <b>Materials</b> | Aluminium, PP |
|------------------|---------------|

|               |                  |
|---------------|------------------|
| <b>Weight</b> | 1,5 kg / 3.3 lbs |
|---------------|------------------|

|                     |                |
|---------------------|----------------|
| <b>Cable length</b> | 4,5 m / 177 in |
|---------------------|----------------|

