## Performance

**Power consumption**  
Approx. 350 W using a typical program

**Safety System**  
All 17 advanced adjustable safety functions incl. elbow monitoring certified to Cat.3, PL d. Remote Control according to ISO 10218

**Certifications by TÜV Nord**  
EN ISO 13849-1, Cat.3, PL d, and full EN ISO 10218-1

**F/T Sensor - Force, x-y-z**
- **Range**: 100 N
- **Resolution**: 2.0 N
- **Accuracy**: 5.5 N

**F/T Sensor - Torque, x-y-z**
- **Range**: 10 Nm
- **Resolution**: 0.02 Nm
- **Accuracy**: 0.60 Nm

## Specification

**Payload**  
10 kg / 22 lbs

**Reach**  
1300 mm / 51.2 in

**Degrees of freedom**  
6 rotating joints DOF

**Programming**  
Polyscope graphical user interface on 12 inch touchscreen with mounting

## Movement

**Pose Repeatability**  
±/− 0.05 mm, with payload, per ISO 9283

**Axis movement robot arm**
- **Base**: ± 360° ± 120°/s
- **Shoulder**: ± 360° ± 120°/s
- **Elbow**: ± 360° ± 180°/s
- **Wrist 1**: ± 360° ± 180°/s
- **Wrist 2**: ± 360° ± 180°/s
- **Wrist 3**: ± 360° ± 180°/s

**Typical TCP speed**  
1 m/s / 39.4 in/s

## Features

**IP classification**  
IP44

**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

500 Hz control, 4 separated high speed quadrature digital inputs

**I/O power supply**
24V 2A

**Communication**
Control frequency: 500 Hz  
ModbusTCP: 500 Hz signal frequency  
ProfiNet and EthernetIP: 500 Hz signal frequency  
USB ports: 1 USB 2.0, 1 USB 3.0

**Power source**
100-240VAC, 47-440Hz

**Humidity**
90%RH (non-condensing)

## Physical

**Control box size (WxHxD)**  
475 mm x 423 mm x 268 mm  
18.7 in x 16.7 in x 10.6 in

**Weight**
Max 13.6 kg / 30.0 lbs

**Materials**
Steel

## Teach pendant

**Features**

**IP classification**  
IP54

**Humidity**
90%RH (non-condensing)

**Display resolution**
1280 x 800 pixels

## Physical

**Materials**
Plastic

**Weight including 1 m of TP cable**
1.6 kg / 3.5 lbs

**Cable length**
4.5 m / 177.17 in

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* The robot can work in a temperature range of 0-50°C. At high continuous joint speeds the maximum allowed ambient temperature is reduced.