

# Technical Data

## Digital Robot HORST1000

### Basic data

<b>Number of axes</b>	6
<b>Maximum payload</b>	8 kg (nominal load 5 kg)
<b>Range</b>	1018 mm
<b>Repeatability</b>	+/- 0.05 mm
<b>Protection classification</b>	IP54
<b>Sound level</b>	< 70 dB (A)
<b>Weight</b>	ca. 70 kg
<b>Power supply</b>	230 VAC, 50-60 Hz typically: 350 W
<b>Ambient temperature</b>	5-40 °C

### Programming (Software)

#### horstFX

horstFX provides you with an intuitive and convenient graphical user interface. The updateable horstFX operating software enables textual and graphical programming, external operation, and extended speed settings.

### IIoT-Plattform (digital content)

#### horstCOSMOS

horstCOSMOS represents simplicity and efficiency. Profit from condition monitoring, backups & updates, a detailed collection of knowledge, and much more. This is how you make the most out of your automation solution.

### Service & Support

#### horst365

We offer you the support you need with our staggered horst365 service contracts. From setting up the robot system to predictive system maintenance to warranty extension - everything is possible with our support and service packages.

The information, data, and illustrations given are for information purposes only and do not constitute a warranty of properties. Subject to change without notice. The respective subject matter of the contract is decisive for the scope of delivery.

Version: V 230109 © fruitcore robotics GmbH

fruitcore robotics GmbH | Macairestraße 3 +49(0)7531 97624 44  
fruitcore-robotics.com | 78467 Constance horst@fruitcore.de

### Operation

#### horstPANEL

13.3-inch touchscreen with emergency stop, three-level enabling switch, and two USB interfaces (incl. mount).

### Control and interfaces

#### horstCONTROL

<b>Dimensions</b> (H x W x D)	313 mm x 174 mm x 446 mm
<b>I/O connections on switch cabinet</b>	20 digital inputs (expandable to 28) 18 digital outputs (expandable to 30)
<b>I/O connections on tool flange</b>	2 digital inputs and outputs each
<b>I/O power supply</b>	24 V/7 A at control 24 V/2.5 A at tool flange
<b>Communication</b>	TCP/IP 100-Mbit/s Ethernet (sockets), primary interface (XML-RPC)*
<b>Fieldbuses</b>	Modbus/TCP* Profinet*
<b>Safety-relevant Interfaces</b> (2 channels each)	Emergency stop, Safety stop [input and output each] in accordance with DIN EN ISO 10218-1; PL d. + 4 config. safety inputs + 6 config. safety outputs
<b>Wiring of HORST</b>	Cable between robot and control: 3 m
<b>Wiring of the control unit</b>	Cable between control unit and control: 5 m/10 m

\* Availability of interfaces according to software package

