

Technical Data

Digital Robot HORST1000

Basic data

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



Operation

Panel

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

Operating software

horstFX

horstFX provides an intuitive and easy-to-use graphical user interface for programming the robot as standard. user interface is available. Furthermore, textual programming can be used to create entire programs or individual functions in JavaScript with syntax editor.

If required, horstFX can be extended by the powerful additional software features "Advanced Graphical Features" and "Advanced Interfaces".

Advanced Graphical Features

Enables graphical programming of palletizing applications, use of the personalized operation view with freely assignable macro buttons and setup of user-defined coordinate systems.

Advanced Interfaces

Enables access to Modbus, Profinet and the primary interface for external function calls (XML-RPC).

Control and interfaces

Control

Dimensions (H x W x D)	313 mm x 174 mm x 446 mm
I/O connections on switch cabinet	20 digital inputs (expandable to 28) 18 digital outputs (expandable to 30)
I/O connections on tool flange	2 digital inputs and outputs each
I/O power supply	24 V/7 A at control 24 V/2.5 A at tool flange
Communication	TCP/IP 100-Mbit/s Ethernet (sockets), primary interface (XML-RPC)
Safety-relevant Interfaces (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
Wiring of HORST	Cable between robot and control: 3 m
Wiring of the control unit	Cable between control unit and control: 5 m

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