

Technical Data Sheet

6-axis industrial robot HORST600 lab

Basic data

Number of axes	6
Maximum payload	3 kg ¹
Nominal load	2 kg
Maximum range	585 mm
Repeatability	+/- 0,05 mm
Protection classification	IP20 ²
Sound level	< 75 dB
Weight	ca. 29 kg
Installation area	382 x 200 mm
Standard color	RAL 9003 (signal white)
Power supply	230 VAC, 50-60 Hz, 450 W/600 W
Ambient temperature	5-40 °C
Mounting position	floor, ceiling, wall ³

Axis data

Axis	Range of movement	Max. Speed
1	+/- 173°	190° /s
2	- 64° / + 115°	70° /s
3	- 176° / + 41°	210° /s
4	+/- 172°	610° /s
5	+/- 142°	470° /s
6	+/- 300°	640° /s

¹ Depending on load distances and speed.

² On demand up to IP54 possible.

³ Wall mounting is only permitted after consultation with fruitcore robotics.

Control and interfaces horstCONTROL

Dimensions (H x B x T)	313 mm x 174 mm x 446 mm
I/O connections on switch cabinet	16 digital inputs 14 digital outputs Enhancements possible.
I/O connections on tool flange	2 digital inputs and outputs
I/O power supply	24 V/3 A at control 24 V/2 A at tool flange
Communication	TCP/IP 100-Mbit/s Ethernet [Web-Interface via HTTP]
Safety-relevant interfaces	Emergency stop [input and output] Safety stop [input and output] in accordance with DIN EN ISO 10218-1
Fieldbus	Modbus/TCP Optional: Profinet
Wiring of HORST	Cable between robot and control: 3 m
Wiring of the control unit	Cable between control unit and control: approx. 5 m / 10 m

Programming horstFX

Software	horstFX user interface: simple graphic programming, advanced textual programming and intelligent features. Can be updated.
Control unit	13.3-inch touchscreen with emergency stop, three-level enabling switch and two USB interfaces
Mount	Fixture for mounting the control unit on the wall, table or cell

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