AGILE ROBOTS



Yu 5 Industrial

technical data sheet

Specifications

Yu 5 Industrial

Max payload and workspace radius	5 kg payload: 1,000 mm 7 kg payload: 850 mm
Protection rating (robot and controller)	IP54
Degrees of freedom	6
Repeatability	± 0.05 mm
Robot weight	31.5 kg
Max linear speed (TCP)	2.0 m/s (with 5 kg payload)
Operating temperature	5 to 40 °C

Joints	**Max Speed**	**Range**
1	141 °/s	-220° to 220°
2	141 °/s	-310° to 130°
3	169 °/s	-160° to 160°
4	180 °/s	-310° to 130°
5	180 °/s	-220° to 220°
6	180 °/s	-220° to 220°

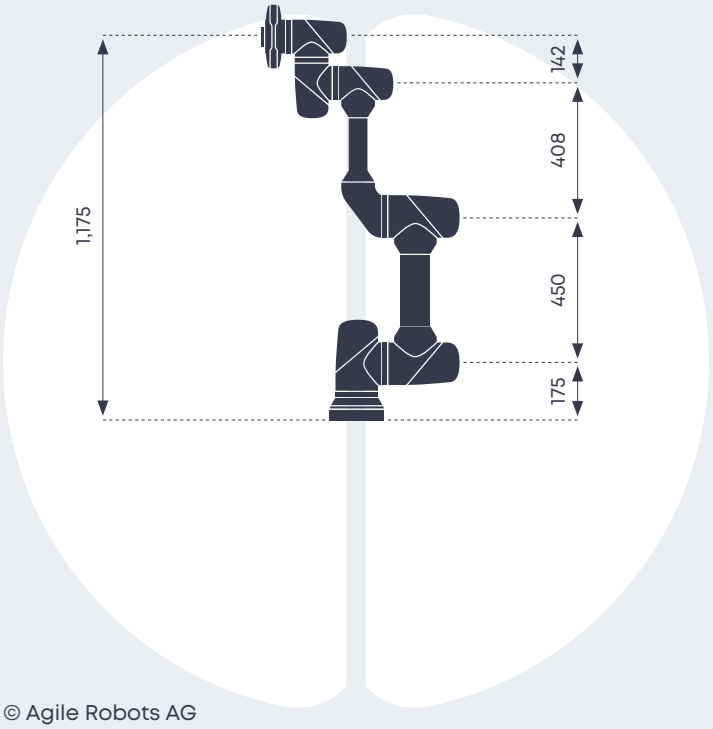
Vision	Integrated 2d camera with two high-power LEDs
Sensitivity	Torque sensors in each axis
Machine learning and AI	Integrated neural processing unit (NPU)
Power supply	220 – 230 VAC, 50/60 Hz
Average power consumption	250 W
Full load current	6.3 A (at 230 VAC)

User interface	Browser based programming interface, integrated Python API with graphical UI-builder, handguiding with 3 programmable buttons

Safety functions
According to
EN ISO 13849-1:2015,
EN ISO 10218-1:2011,
EN 61508-1:2010,
EN 61508-2:2010
EN 61508-3:2010

ES	Emergency stop
ED	Enabling device
OM	Operating mode
SLDS	Safely limited drive speed
SLDP	Safely limited drive position
SLDT	Safely limited drive torque
SLRP	Safely limited robot power
SLCP	Safely limited cartesian position
SLCO	Safely limited cartesian orientation
SLCS	Safely limited cartesian speed
SLCF	Safely limited cartesian force
PS	Protective stop / Configurable safe I/Os

Communication and protocols (robot control)	16 DI, 16 DO, 4 AI 4 safeDI, 4 safeDO Ethernet , OPC UA based gateway (SPS, Cloud, etc.)
Communication and protocols (end effector interfaces)	2 A max power consumption (24V) **M8-interface (8 pin):** 2 DI, 1 DO, 2 AI, 1 DI/O **Springprobe interface (wireless connection):** 2 DI, 3 DO, 2 AI, 1 DI/O
Hand controller	Emergency stop, Enabling device, Operating mode switch, Power button





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Technical data may be subject to change without previous notice.
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