



AGILE ROBOTS



Yu 5 Industrial
technical
data sheet



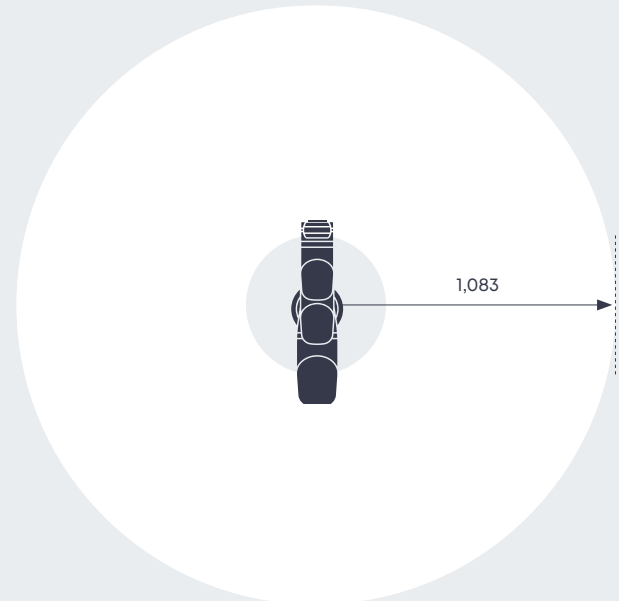
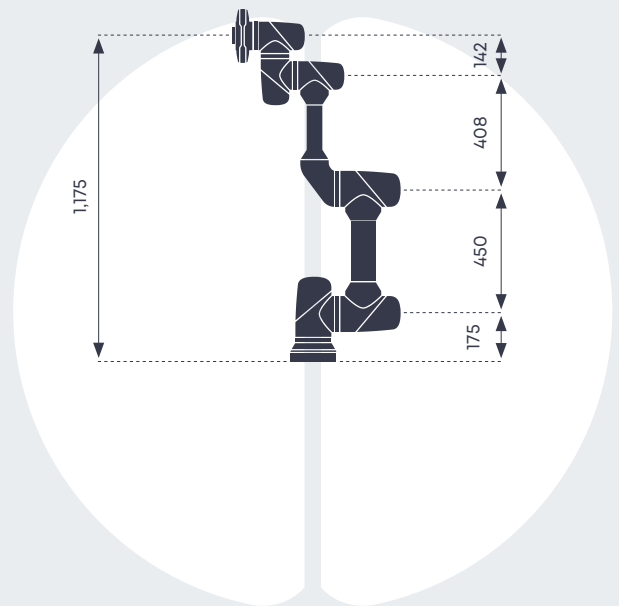
Specifications

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	<p>ES Emergency stop</p> <p>ED Enabling device</p> <p>OM Operating mode</p> <p>SLDS Safely limited drive speed</p> <p>SLDP Safely limited drive position</p> <p>SLDT Safely limited drive torque</p> <p>SLRP Safely limited robot power</p> <p>SLCP Safely limited cartesian position</p> <p>SLCO Safely limited cartesian orientation</p> <p>SLCS Safely limited cartesian speed</p> <p>SLCF Safely limited cartesian force</p> <p>PS Protective stop / Configurable safe I/Os</p>
Communication and protocols (robot control)	16 DI, 16 DO, 4 AI
Communication and protocols (end effector interfaces)	4 safeDI, 4 safeDO, Ethernet
Hand controller	2 A max power consumption (24V)
	M8-interface (8 pin):
	2 DI, 2 DO, 2 AI
	Emergency stop, Enabling device, Operating mode switch, Power button

Robot controller

Cable length (body – box)	2.8 m
Power cable length	3.0 m
Power supply	
Mains voltage	230 VAC (Europe), 220 VAC (China)
Frequency	50–60 Hz
Performance max.	1200 W
Short-circuit current	100 A
Size	473 x 462 x 225 mm (H x W x L)
Weight	17.1 kg
I/O port	16 digital in / 16 digital out, 4 analogue in / 0 analogue out
I/O power supply	24 V / 2A



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Technical data may be subject to change without previous notice.
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