



**AGILE ROBOTS**



**Yu 5**  
**Industrial**  
technical  
data sheet

# Specifications

## Yu 5 Industrial

<b>Max payload and workspace radius</b>	5 kg payload: 1,000 mm 7 kg payload: 850 mm	
<b>Protection rating (robot and controller)</b>	IP54	
<b>Degrees of freedom</b>	6	
<b>Repeatability</b>	±0.05 mm	
<b>Robot weight</b>	31.5 kg	
<b>Max linear speed (TCP)</b>	2.0 m/s (with 5 kg payload)	
<b>Operating temperature</b>	5 to 40 °C	
<b>Joints</b>	<b>Max Speed</b>	<b>Range</b>
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°
<b>Vision</b>	Integrated 2d camera with two high-power LEDs	
<b>Sensitivity</b>	Torque sensors in each axis	
<b>Machine learning and AI</b>	Integrated neural processing unit (NPU)	
<b>Power supply</b>	220 – 230 VAC, 50/60 Hz	
<b>Average power consumption</b>	250 W	
<b>Full load current</b>	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)

2A max power consumption (24V)

#### M8-interface (8 pin):

2 DI, 1 DO, 2 AI, 1 DI/O

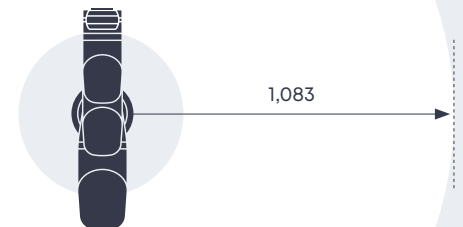
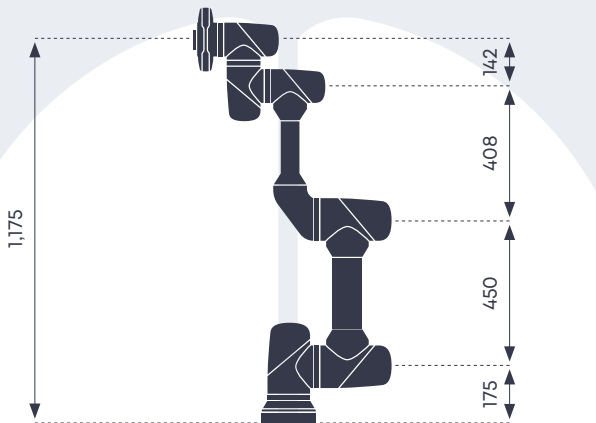
#### Springprobe interface

#### (wireless connection):

2 DI, 3 DO, 2 AI, 1 DI/O

Emergency stop, Enabling device, Operating mode switch, Power button

### Hand controller



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Technical data may be subject to change without previous notice.

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