



<b>Performance</b>	<b>Power consumption</b>	Depends on program and payload; range from 25W to 1500W
	<b>Collaboration operation</b>	Speed & force limiting per ISO/TS 15066, collision detection, and other safety functions
	<b>Ambient temperature range</b>	0-55°C
	<b>Humidity</b>	90%RH (non-condensing)
	<b>Operation</b>	Collaborative or high-speed non-collaborative

<b>Specification</b>	<b>Payload capacity</b>	18kg (39 lbs)
	<b>Reach</b>	1.3m (51.2 in)
	<b>Max joint speed</b>	435° /s
	<b>Degrees of freedom</b>	6

<b>Physical</b>	<b>Footprint</b>	Ø 200 mm
	<b>Materials</b>	Aluminum, steel, plastic
	<b>Cable length, robot arm</b>	2m (79 in)
	<b>Weight, including cable</b>	32.5 kg (71.6 lbs)
	<b>IP classification</b>	IP54
	<b>Noise</b>	Depends on program; typically less than 58dB
	<b>Robot mounting</b>	Floor mount <sup>1</sup>

<b>Tooltip connector</b>	<b>Tool connector type</b>	M8 8-pin & M8 4-pin
	<b>Compatibility</b>	Electrical and mechanical compatibility with largest gripper ecosystems
	<b>Native gripper support</b>	Two-finger, three-finger, and suction grippers
	<b>Tool I/O ports<sup>2</sup></b>	Digital In: 2
		Digital Out: 2 (Open-drain or push-pull, 1A)
		Analog In: 2 (24V tolerant) Analog Out: 0
<b>Tool power supply<sup>2</sup></b>	RS-485 / UART max data rate: 10mbps 12V/24V, 3A continuous max	

<b>Control box</b>	<b>IP classification</b>	IP54
	<b>IP class cleanroom</b>	N/A
	<b>Ambient temperature range</b>	0-55° C
	<b>I/O ports</b>	Digital In: 16 (24V Tolerant)
		Digital Out: 16 (24V 0.7A Out continuous)
		24V 0.7A (3A combined if using internal power)
		24V 0.7A (12A combined with external power supply)
	<b>Communication<sup>3</sup></b>	Analog In: 4 (24V Tolerant)
		24V I/O TCP/IP Modbus TCP
		Coming later this year via software update RS-485 (UART / Modbus), USB 2.0, USB 3.0, CAN-FD
<b>Power source</b>	90 ~ 264VAC, 47-63Hz	
<b>Humidity</b>	90%RH (non-condensing)	
<b>Control box size (WxHxD)</b>	460 mm x 430 mm x 315 mm (18.1 in x 16.9 in x 12.4 in)	
<b>Weight</b>	14.4kg (31.7 lbs)	
<b>Materials</b>	Powder coated steel	

<b>Movement</b>	<b>Repeatability</b>	+/- 0.025 mm
	<b>Shoulder 1 &amp; 2</b>	Working range: ±360°
		Maximum speed: ±287°/sec
	<b>Elbow</b>	Working range: ±360°
Maximum speed: ±335°/sec		
<b>Wrist 1, 2 &amp; 3</b>	Working range: ±360° Maximum speed: ±435°/sec	

1. Ceiling/wall mount enabled in software update.

2. Hardware supported. Software support coming later this year via software update.

3. More industrial protocols to be enabled via software update.