



UFACTORY Cobots Specifications



	UFACTORY 850	UFACTORY xArm 5	UFACTORY xArm 6	UFACTORY xArm 7	UFACTORY Lite 6
SPECIFICATIONS					
Payload	5 kg	3 kg	5 kg	3.5 kg	600 g
Reach	850 mm	700 mm			440 mm
Degrees of freedom	6	5	6	7	6
Repeatability	±0.02 mm	±0.1 mm			±0.5 mm
Maximum TCP speed	1 m/s				0.5 m/s
Robot arm weight	20 kg	11.3 kg	12.5 kg	14.3 kg	8 kg
POWER CONSUMPTION & ENVIRONMENT					
Operating temperature range	0-50 °C / 32-122 °F				
Power consumption	Typical: 240 W; Maximum: 1,000 W	Typical: 200 W; Maximum: 500 W			Typical: 150 W; Maximum: 350 W
Power supply input	48 VDC, 20.8 A	24 VDC, 20.8 A			24 VDC, 14.66 A
MOVEMENT					
Maximum joint speed	180°/s				
Joint 1 range	±360°				
Joint 2 range	-132° to +132°	-117° to +116°			±150°
Joint 3 range	-242° to +3.5°	-219° to +10°		±360°	-3.5° to +300°
Joint 4 range	±360°	-97° to +180°	±360°	-6° to +225°	±360°
Joint 5 range	-124° to +124°	±360°	-97° to +180°	±360°	±124°
Joint 6 range	±360°	-	±360°	-97° to +180°	±360°
Joint 7 range	-	-	-	±360°	-



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FEATURES					
Arm mounting	Any orientation				
I/O PORTS					
Tool flange I/O	TI x 2; TO x 2; T-AI x 2; RS-485 x 1				TI x 2; TO x 2; T-AI x 2 or RS-485 x 1
Communication protocol	Modbus RTU				
SOFTWARE & COMPLIANCE					
Operating system support	Windows 10 or later; macOS 10.10 or later; Ubuntu 20.04 LTS or later				
Development support	ROS and ROS 2 packages; Python and C++ SDKs				
Control software	UFACTORY Studio (web-based control software hosted on the control box)				
Warranty & support	1-year limited warranty; lifetime technical support				
Certifications	CE certified				
PHYSICAL					
Footprint	Ø 190 mm	Ø 126 mm			130 mm x 140 mm
Materials	Aluminum, carbon fiber				
Base mounting pattern	4 x M8	5 x M5			4 x M5

UFACTORY Control Boxes Specifications



Parameter	xArm AC Control Box	850 AC Control Box	xArm DC Control Box	850 DC Control Box	Lite 6 Built-in Control Box
Power input	100-240 VAC, 47-63 Hz		24-72 VDC	48-72 VDC	24 VDC, 350 W
Power output	24 VDC, 20.8 A	48 VDC, 1,000 W max.	24 VDC, 672 W max.	48 VDC, 960 W max.	-
Weight	3.4 kg	3.8 kg	2.5 kg		-
Dimensions (L x W x H)	269 x 178 x 86 mm		209 x 176 x 82 mm		-
Control box I/O	8 × CI, 8 × CO, 8 × DI, 8 × DO, 2 × AI, 2 × AO				8 × CI, 8 × CO, 2 × AI, 2 × AO
Hardware interfaces	Ethernet; RS-485 master x 1; RS-485 slave x 1				Ethernet; RS-485 master x 1
Warranty & support	1-year limited warranty; lifetime technical support				