



UFACTORY Lite 6

Technical Specification

Compact and flexible, the UFACTORY Lite 6 is designed for desktop automation and robotics research. As the most compact 6-axis cobot in the UFACTORY lineup, it provides an accessible entry point for lightweight automation and educational applications.



SPECIFICATIONS	
Payload	600 g
Reach	440 mm
Degrees of freedom	6
Repeatability	±0.5 mm
Maximum TCP speed	0.5 m/s
Robot arm weight	8 kg

PERFORMANCE	
Operating temperature range	0 to 50 °C / 32-122 °F
Power consumption	Typical: 150 W; Maximum: 350 W
Power supply input	24 VDC, 14.66 A

PHYSICAL	
Footprint	130 x 140 mm
Materials	Aluminum, carbon fiber
Base mounting pattern	4 x M5

FEATURES	
Arm mounting	Any orientation

TOOL FLANGE	
Tool flange I/O	TI x 2; TO x 2; T-AI x 2 or RS-485 x 1
Communication protocol	Modbus RTU

SOFTWARE AND 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

AXIS MOVEMENT	
Maximum joint speed	180°/s
Joint 1 range	±360°
Joint 2 range	±150°
Joint 3 range	-3.5° to +300°
Joint 4 range	±360°
Joint 5 range	±124°
Joint 6 range	±360°

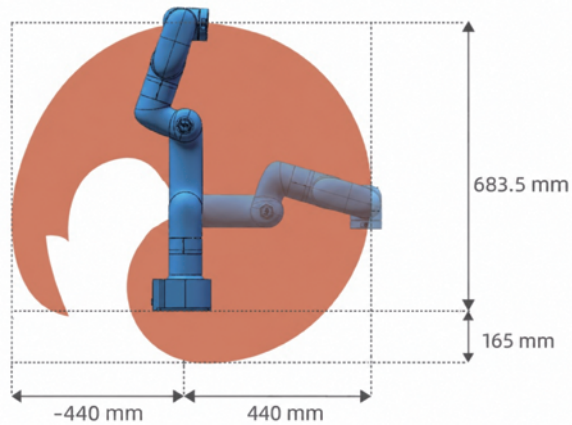
CONTROL BOX SPECIFICATIONS	
Control box type	Built-in control box
Control box I/O	8 × CI, 8 × CO, 2 × AI, 2 × AO
Hardware interfaces	Ethernet; RS-485 master x 1
Power input	24 VDC, 14.66 A



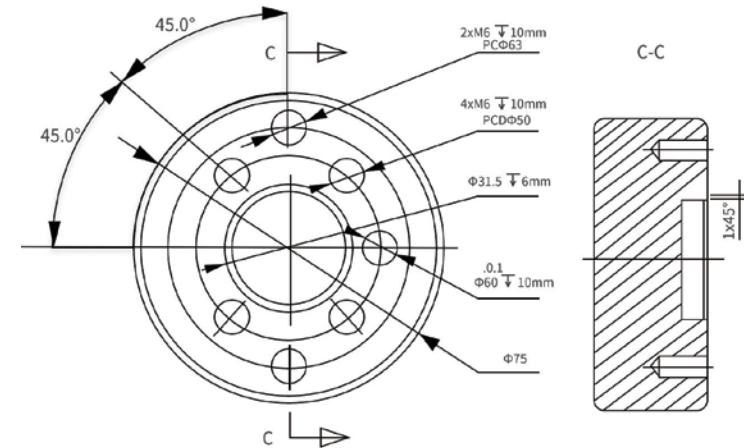
Dimensions, Reach and Interfaces

Dimensions and reach - side view

Working range diagrams are provided for safety assessment purposes only.

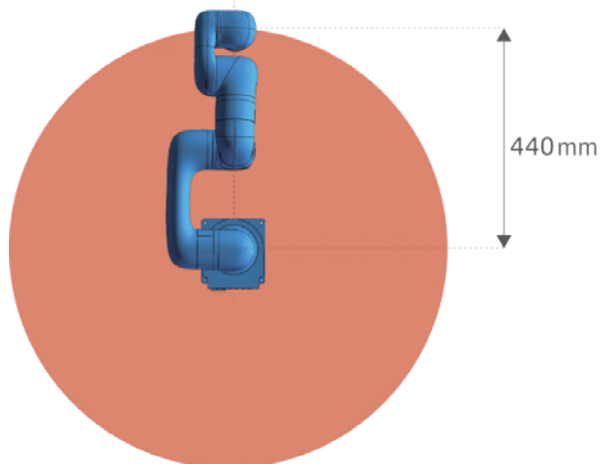


Tool flange



Dimensions and reach - top view

Working range diagrams are provided for safety assessment purposes only.



Base flange

