

FOURIER N1



Technical Specifications

Mechanical Spec.	Dimensions	1245 mm × 441 mm × 202 mm	Arm Span	1240 mm
	Net Weight	≈39 kg	Material	Aluminium Alloy + Engineering Plastic
Electronic Spec.	Rated Voltage	39.6 V	Rated Power	≈ 460 W
Performance	Walking Speed	2.7 km/h	Running Speed	10.8 km/h
	Computational Power	8-core high-performance CPU		
Joint Spec.	Total Number of Actuators	23	Maximum Peak Joint Torque	144 N·m
	Peak Current	70 A	Operating Voltage	24–60 V
	Rated Voltage	46 V	Backlash	≤10 arcmin
	Dual Encoders	16 bit / 14 bit	Communication Protocol	Ethernet
Battery and Adapter Spec.	Battery Capacity	475 Wh	Battery Type	Lithium-Ion Battery
	Total Weight	≤ 3.2 kg	Nominal Battery Voltage	39.6 V
	Charging Cut-off Voltage	46.2 V	Cycle Life	>800 cycles at 25°C, 10 A discharge, SOH 80%
	Battery Life	≈ 2 h	Charging Time	≈3.5 h
	Adapter Input Parameters	100–240 V, 50/60 Hz	Adapter Output Parameters	46 V, 4 A
Central Processing Unit	Operating System	Ubuntu 20.04	Processor	Intel® Core™ i7-13700H
	GPU	Intel® Iris® Xe Graphics	Memory	16 GB
	Storage	512 GB NVMe	LAN	100M / 1000M / 2500M
	I/O	HDMI / USB Type-C / USB Type-A		
Interaction Capabilities	Teleoperation	Supports remote control via Bluetooth gamepad		
	Communication	MT7921K module supporting Wi-Fi 6		
Sensor Spec.	Camera	Optional binocular depth camera		
	IMU	6-axis IMU supporting acceleration and angular velocity measurement		