

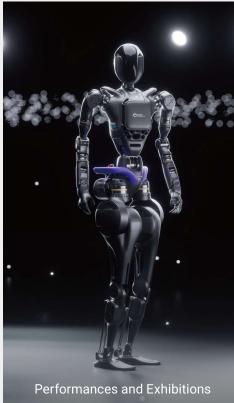
# FOURIER GR-1

The Fourier GR-1 breaks new ground in humanoid robotics for practical applications. With a versatile body structure and advanced motion control, it replicates human-like degrees of freedom. Boasting a peak torque of 230 N.m, GR-1 navigates obstacles and diverse terrains with unmatched agility and precision.

## **Application Scenarios**







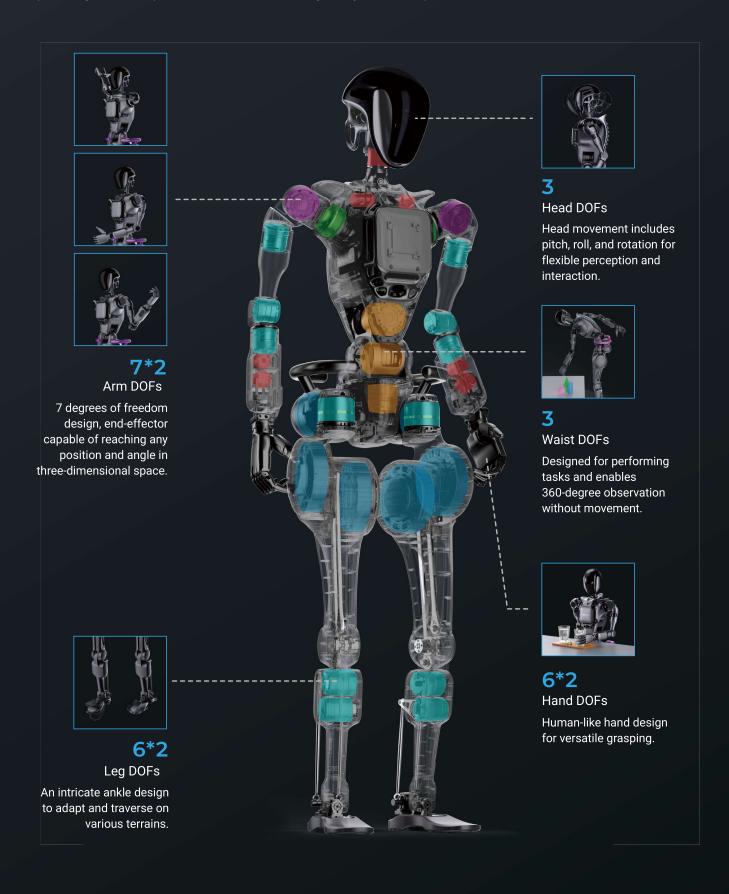






# **Physical Dexterity**

Fourier's Smart Actuator (FSA) integrates the motor, driver, reducer, and encoder into a single module, providing GR-1 with powerful and flexible mobility for dynamic and precise movements.



# **Technical Specifications**

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**Product Model** 

GR\_1I

3R\_1

GR-1L Pro

GR-1 Pro

## **Mechanical Specifications**

Standing Size	1650X515X320mm	1650X515X320mm	1650X515X320mm	1650X515X320mm
Arm Span	1665mm	1680mm	1665mm	1680mm
Weight	≈55kg	≈55kg	≈60kg	≈60kg
Material	Aluminium alloy + Engineering plastic			

### **Electronic Parameters**

Supply Voltage	46.2V	46.2V	46.2V	46.2V
Maximum Power	≈550W	≈550W	≈550W	≈550W

#### **Performance Parameters**

Speed	5km/h	5km/h	5km/h	5km/h
Single-handed Payload	3kg	3kg	3kg	3kg
Processing Power	i7-13700h 6P+8E 20thread 1.6/5.0GHz	i7-13700h 6P+8E 20thread 1.6/5.0GHz	i7-13700h 6P+8E 20thread 1.6/5.0GHz	i7-13700h 6P+8E 20thread 1.6/5.0GHz

#### **Joint Parameters**

Max Torque	230N.m	230N.m	230N.m	230N.m
Total Actuators	34	44	34	44
End-point Execution	Gripper	Dexterous Hand	Gripper	Dexterous Hand
Waist Flexibility	3	3	3	3
Head Flexibility	3	3	3	3
Ankle Flexibility	2	2	2	2

Product Model GR-1L GR-1 GR-1L Pro GR-1 Pro

#### **Sensor Parameters**

Depth Camera	Realsense	Realsense	Realsense	Realsense
IMU	•	•	•	•
Ring Microphone	_	_	•	•

#### **Features**

Motion Mode	Static Standing Gait Motion Stationary Movement End Effector Gripping			
Protective Casing	Skeleton Casing	Skeleton Casing	Enclosed Casing	Enclosed Casing
Waist Safety Handle	_	_	•	•
One-Click Start	_	_	•	•
Control Terminal	Touchscreen Remote Controller	Touchscreen Remote Controller	Touchscreen Remote Controller	Touchscreen Remote Controller
Voice Control	_	_	•	•
Cluster Control	_	_	•	•
Curved Screen	_	_	•	•
WiFi	•	•	•	•
Bluetooth	•	•	•	•
Secondary Development	•	•	•	•

## **Battery Life**

Battery Capacity	460Wh	460Wh	460Wh	460Wh
Charging	46V 2A	46V 2A	46V 2A	46V 2A