

# Fourier General-Purpose Humanoid Robot GR-1 Technical Specifications



GR-1L



GR-1



GR-1L Pro



GR-1 Pro

Product Model

## Mechanical Specifications

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

<b>Product Model</b>	<b>GR-1L</b>	<b>GR-1</b>	<b>GR-1L Pro</b>	<b>GR-1 Pro</b>
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### Sensor Parameters

Depth Camera	Realsense	Realsense	Realsense	Realsense
IMU	●	●	●	●
Ring Microphone	—	—	●	●

### Features

Motion Mode	Static Standing Gait Motion Stationary Movement End Effector Gripping	Static Standing Gait Motion Stationary Movement End Effector Gripping	Static Standing Gait Motion Stationary Movement End Effector Gripping	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

### Configuration List

Robot	1 Unit	Dock	1 Item
Power Adapter	1 Item	User Manual	1 Unit
Remote Control	1 Unit	Certification	1 Unit
Calibration Tool	1 Set		