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# Full size Bipedal Humanoid Robot Suitable for Educational use

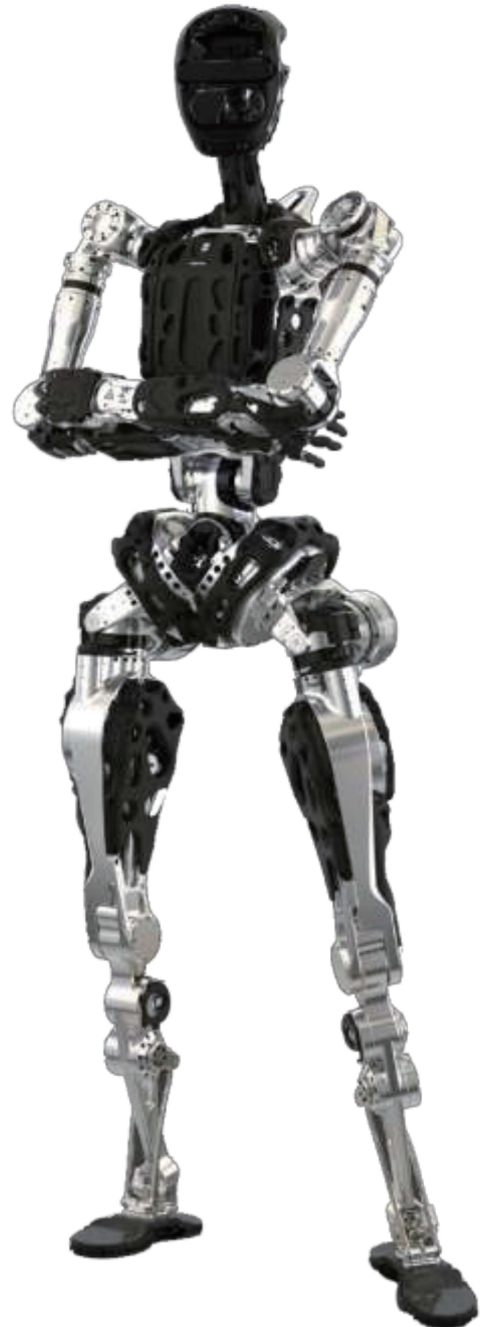
Product Model	FR-01-Edu
Height	1.71 m.
Weight (without dexterous hand)	65 Kg
Total DOF (with dexterous hand)	55
Whole-body DOF (excluding dexterous hands)	31
Knee Joint Peak Torque	400 N.m
Knee Joint Peak Speed	25 rad/s
Running Speed	4 m/s
Battery Capacity	60 V 15 Ah
Compute Performance	80 TOPS(x86)+275 TOPS(Orin)
Binocular Camera	support
3D LIDAR	support
Microphone Array & Speaker	support
Dual-arm Payload(with arms flexed at 90 degrees)	20 Kg
Arm Span	1660 mm
Diameter of Operating Range	2.1 m
Dexterous Hand	XHAND1(Fully Direct-driven, 12 ActiveDOF, Humanoid Five-finger Dexterous Hand)



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# Full size Bipedal Humanoid Robot Professional version. Suitable for Business & OEM

Product Model	FR-01-Pro
Height	1.67 m.
Weight (without dexterous hand)	62 Kg
Total DOF (with dexterous hand)	53
Whole-body DOF (excluding dexterous hands)	29
Knee Joint Peak Torque	340 N.m
Running Speed	1.5 m/s
Battery Capacity	46.2 V 25 Ah
Compute Performance	80 TOPS(x86)+275 TOPS(Orin)
Binocular Camera	support
Microphone Array & Speaker	support
Dual-arm Payload(with arms flexed at 90 degrees)	20 Kg
Arm Span	1900 mm
Diameter of Operating Range	2.1 m
Dexterous Hand	XHAND1(Fully Direct-driven, 12 ActiveDOF, Humanoid Five-finger Dexterous Hand)/Inspire dexterous hands(6Dof HAND)



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# Full size HUMANOID ROBOT Suitable for Business & Tourist Guide use

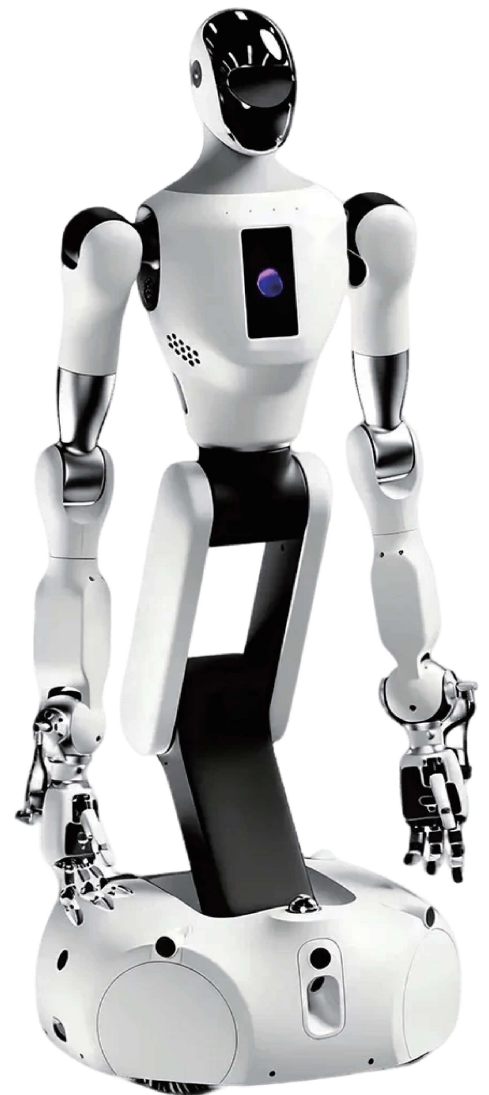
Product Model	FR-02-T1
Height	1.25 m- 1.65 m
Weight (without dexterous hand)	60Kg
Total DOF (with dexterous hand)	46
Whole-body DOF (excluding dexterous hands)	22
Running Speed	1.5 m/s
Battery Capacity	900Wh
Battery Endurance	4h
Binocular Camera	Support
3D LIDAR	Support
Microphone Array & Speaker	Support
Dual-arm Payload(with arms flexed at 90 degrees)	10 Kg
Arm Span	1380 mm
Dexterous Hand	XHAND1(Fully Direct-driven, 12 ActiveDOF, Humanoid Five-finger Dexterous Hand)



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# Full size HUMANOID ROBOT Suitable for Business & Tourist Guide use

Product Model	FR-02-T2
Height	1.08m -1.73m
Weight (without dexterous hands)	92.5kg
Arm Length(From Shoulder Center to Wrist Center)	0.71m
Whole-body DOF (without dexterous hands)	21
Running Speed	1.5 m/s
Battery Capacity	30Ah
Battery Endurance	8h
Binocular Camera	Support
3D LIDAR	Support
Microphone Array & Speaker	Support
Dual-arm Payload(with arms flexed at 90 degrees)	10 Kg
Expansion Interfaces	USB3.0 x2, HDMI
Dexterous Hand	XHAND1(Fully Direct-driven, 12 ActiveDOF, Humanoid Five-finger Dexterous Hand)



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# Full size HUMANOID ROBOT Suitable for Business & Tourist Guide use

Product Model	FR-02-T3
Height	1.46 m- 1.86 m
Single Arm Maximum Reach	96.5cm(including dexterous hand)
Navigation Method	Laser SLAM autonomous navigation
Whole-body DOF (without dexterous hands)	21
Running Speed	0.6 m/s
Battery Capacity	40Ah
Battery Endurance	8h
Fisheye Camera	Support
RGBD camera	Support
Speaker	Support
Dual-arm Payload(with arms flexed at 90 degrees)	10 Kg
operating system	Ubuntu 20.04 ROS2
Dexterous Hand	XHAND1(Fully Direct-driven, 12 ActiveDOF, Humanoid Five-finger Dexterous Hand)



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# Full size HUMANOID ROBOT Suitable for Factory & Shopping malls

Product Model	FR-02-T4
Height	1142mm - 1736mm
Weight (without dexterous hands)	190kg
Arm Length(From Shoulder Center to Wrist Center)	0.65m
Whole-body DOF (excluding dexterous hands)	43
Running Speed	1.5 m/s
Battery Capacity	30Ah
Battery Endurance	6h
Binocular Camera	Support
3D LIDAR	Support
Microphone Array & Speaker	Support
Dual-arm Payload(with arms flexed at 90 degrees)	10 Kg
Communication Interfaces	Ethernet, WIFI
Dexterous Hand	XHAND1(Fully Direct-driven, 12 ActiveDOF, Humanoid Five-finger Dexterous Hand)



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# high performance Dexterous hands Four fingers

Product Model	FR-A
Active Freedom	13
Weight	1.3 Kg
Sizes	236*164*73.5mm
Grasping Load	5kg
Grasping Diameter	30~150mm
Fingertip Force	15N
Video Resolution	3840*2160
Field of View (FOV)	120° horizontal
Video Frame Rate	30FPS
Measurement Output	Three-dimensional array distributed force three-dimensional resultant force
Measurement Range	Normal 0~25N Tangential ±10N
Pressing Lifespan	Not less than 3, million presses
Safety Overload	200%
Pressing Positioning Accuracy	1mm
Interface	EtherCAT/Modbus-RTU USB2.0



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# high performance Dexterous hands Five fingers

Product Model	FR-B
Active Freedom	12
Weight	1.1Kg
Sizes	190.36*94*47mm
Rated Grip Strength	12N (single finger)
Rated load	1.2kg (single finger)
fig. sideways movement of the index finger	-5~17°
Thumb movement angle	<110°
Minimum Grip Diameter	16mm
Repeat Positioning Accuracy	0.5mm
communication interface	EtherCAT
power supply	DC 24~70V



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