

AGIBOT G2

Industrial-grade wheeled humanoid robot

Mobile dual-arm platform for manipulation, logistics, inspection and human-robot interaction

122.5-179.5 cm

185 kg

26 active DoF



Product overview

The AGIBOT G2 is an industrial-grade wheeled humanoid robot designed for precise manipulation and mobile automation. Two force-controlled 7-DoF arms, a multi-sensor perception system and onboard AI computing enable handling, assembly, inspection and transport tasks. Its omnidirectional chassis moves between workstations, while hot-swappable batteries support flexible operating concepts.

Performance data

Payload per arm	5 kg
Dual-arm payload	10 kg
Chassis speed	1.5 m/s
Arm joint sensing	torque sensors
Protection rating	IP42

Energy & operation

Total battery capacity	1,652 Wh
Battery system	2 batteries, hot-swap
Operating time	approx. 4 hours
Charging time	up to 2 hours
Charging methods	direct, swap, autonomous

Typical applications

MANIPULATION

Assembly, machine tending, pick-and-place and packaging

INTRALOGISTICS

Mobile material handling, sorting and workstation supply

INSPECTION

Visual checks, autonomous patrols and quality-control support

DEVELOPMENT

Secondary development, data acquisition and teleoperation

Technical data & system

Core configuration

MOBILE HUMANOID PLATFORM

Wheeled dual-arm robot with 26 active degrees of freedom and adjustable body height. Ackermann steering, lateral motion and in-place rotation

AI & SECONDARY DEVELOPMENT

High-compute configuration with NVIDIA Jetson T5000 and support for customer-specific development. Smart OTA upgrades and remote wake-up supported

Mechanics, perception and communication

Dimensions (H x W x L)	122.5-179.5 x 64 x 76 cm
Weight	185 kg
Active degrees of freedom	26
Neck / arms	3 / 2 x 7 DoF
Waist & legs / chassis	5 / 4 DoF
Head movement	yaw +/-90 degrees
Single-arm payload	5 kg

3D LiDAR	2
Cameras	stereo, 3 fisheye
RGB-D cameras	head 1, wrist 2
Audio	microphone array, speaker
Facial interaction	display + light indicator
Wireless	WiFi, Bluetooth, 4G/5G, NFC
Remote operation	handheld terminal available

Computing, mobility and operation

- COMPUTING PLATFORM

NVIDIA Jetson T5000, up to 2070 TFLOPS (FP4).
- PERCEPTION

LiDAR and camera fusion for environmental awareness and task execution.
- MOBILE BASE

Ackermann steering, lateral movement and in-place rotation at up to 1.5 m/s.
- POWER SYSTEM

Direct charging, battery swapping and autonomous recharging are supported.
- SYSTEM MAINTENANCE

Intelligent OTA upgrades, remote wake-up and secondary development support.

Interaction and deployment

The facial interaction screen, microphone array, speaker and multi-color status indicator support multimodal interaction. The adjustable body height and wheeled chassis allow the G2 to address work at different levels and move between task locations. With IP42 protection, the platform is intended for controlled indoor environments. Actual runtime depends on workload, motion profile and operating conditions.

Note

Technical data according to manufacturer and supplied product information. Subject to change.