

Galbot S1

Heavy-Duty Robot



GALBOT

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Pioneering a New Era of Embodied Intelligence in Industry



0-2.3m Expansive Operating Range

Covers the entire vertical space from the floor to the highest shelf, meeting the material handling needs at varying heights.



Autonomous Path Planning & Dual-Arm Collaboration

Powered by an embodied AI brain and industrial-grade dual arms, combining intelligent decision-making with exceptional endurance.



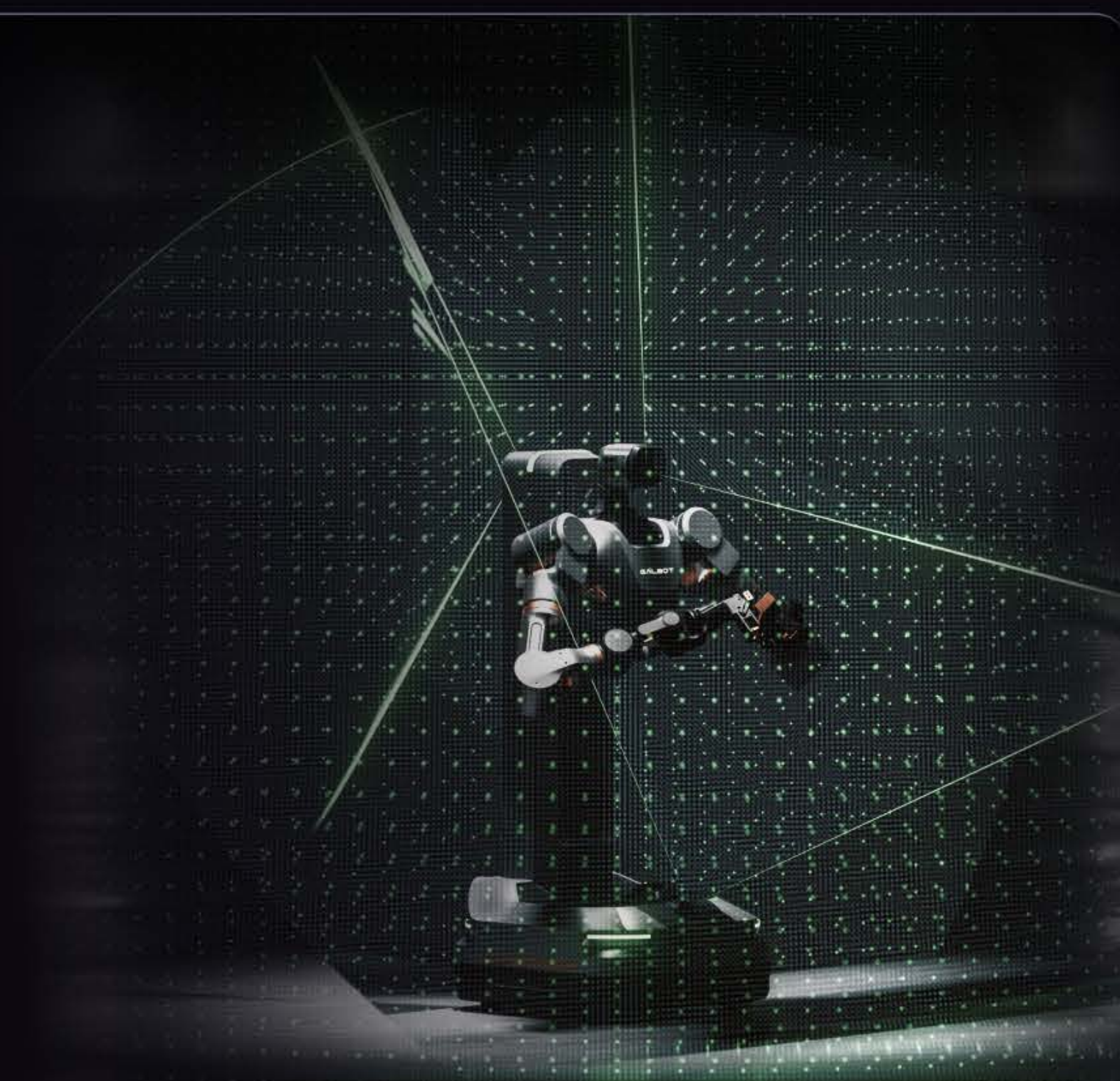
Up to 50KG Payload

Tackles heavy-duty handling in industrial and logistics settings.



Interference Resistance

Driven by an embodied AI model, it handles disturbances effortlessly and sets a new industry benchmark for stable performance.



24/7 Continuous Operation

Operates for 8 hours on a single charge, supports autonomous hot-swap batteries for zero downtime.



Galbot S1 Heavy-Duty Robot Application Scenario



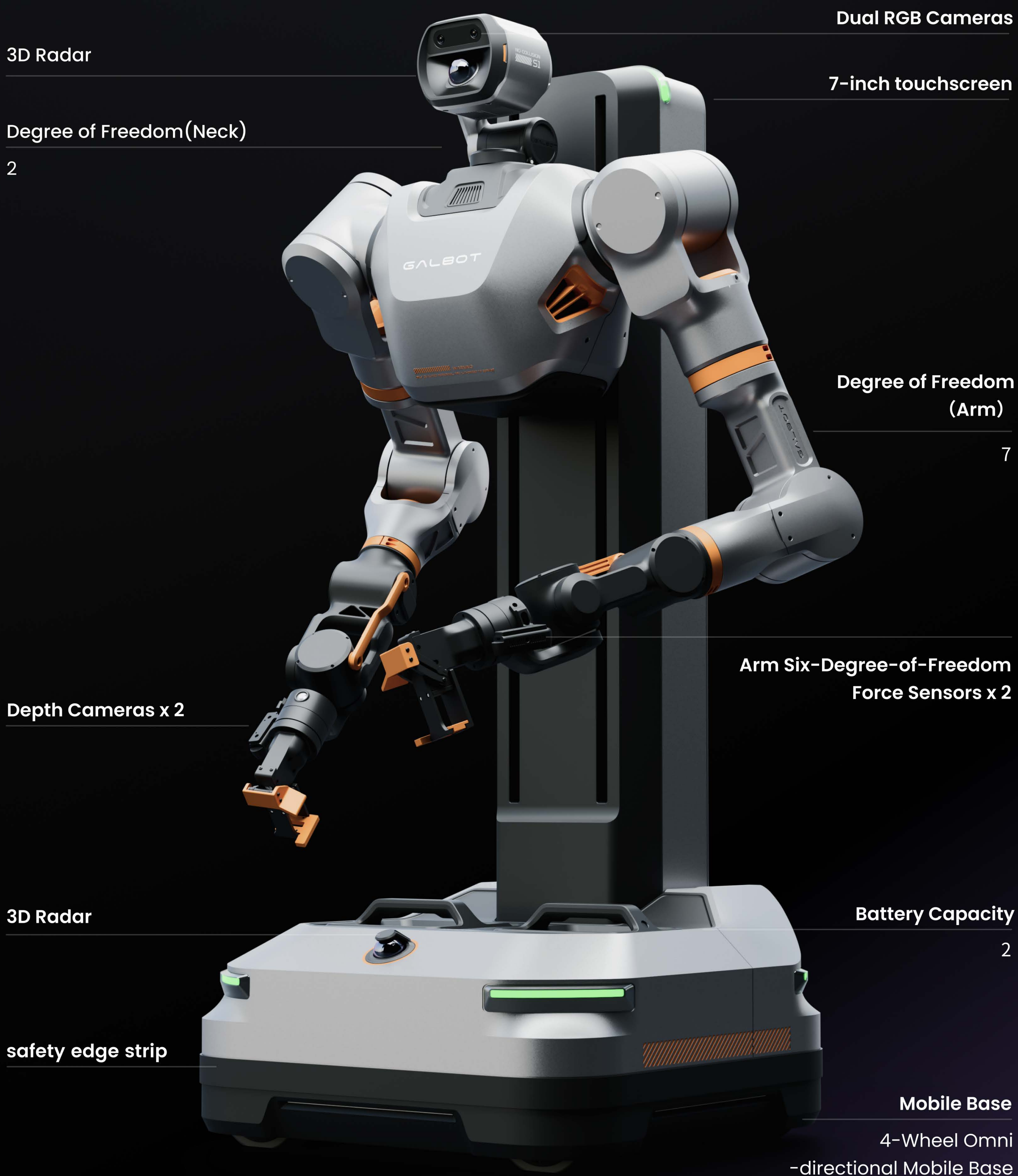
Industrial Bin Handling Scenario



Sorting Scenario

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Product Specifications



3D Radar

Dual RGB Cameras

Degree of Freedom (Neck)

7-inch touchscreen

2

Degree of Freedom (Arm)

7

Depth Cameras x 2

Arm Six-Degree-of-Freedom
Force Sensors x 2

3D Radar

Battery Capacity

2

safety edge strip

Mobile Base

4-Wheel Omni-directional Mobile Base

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Overall Parameters	Overall Height (Max)	1793mm
	Arm Length (from shoulder center to wrist)	920mm
	Lift Travel	750mm
	Working Space (Arm Center to Wrist)	0-2400 mm, Weight: 2390 mm
	Payload	Single Arm: 15 kg / Total: 30 kg
	Total Weight	320kg
	Operating Environment:	0-40°C, 0%-90% RH (no condensation)
System	Platform	NVIDIA AGX Orin 64GB 275TOPS
	Screen	7-inch touchscreen
	Speakers	5W x 2
	Network	Wi-Fi 2.4/5GHz, Bluetooth 5.2
Sensors	Head	Dual RGB Cameras x 1, 3D Radar x 2
	Chest (Left and Right)	Depth Cameras x 2, Arm Six-Degree-of-Freedom Force Sensors x 2
	Mobile Base	3D Radar x 2
Degree of Freedom <small>without base/end effector</small>	Neck	2
	Arms	7*2
	Lift	1
Mobile Base	Base Type	4-Wheel Omni-directional Mobile Base
	Base Dimensions (Length/Width)	730mm/730mm
	Maximum Speed	1.5m/s
Endurance and Charging	Work Duration	8h
	Charging Time	2 hours (with compatible charger)
	Battery Capacity	48V 30Ah x2
	Hot-Swappable Battery	Supported
Accessories	Wireless Controller	Standard
	Wired Charger	Standard
	Wireless Emergency Stop	Standard
Buttons	Power Button 、 Emergency Stop Button	
Expansion Ports	USB 3.0 x 2	
	Network Port	

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