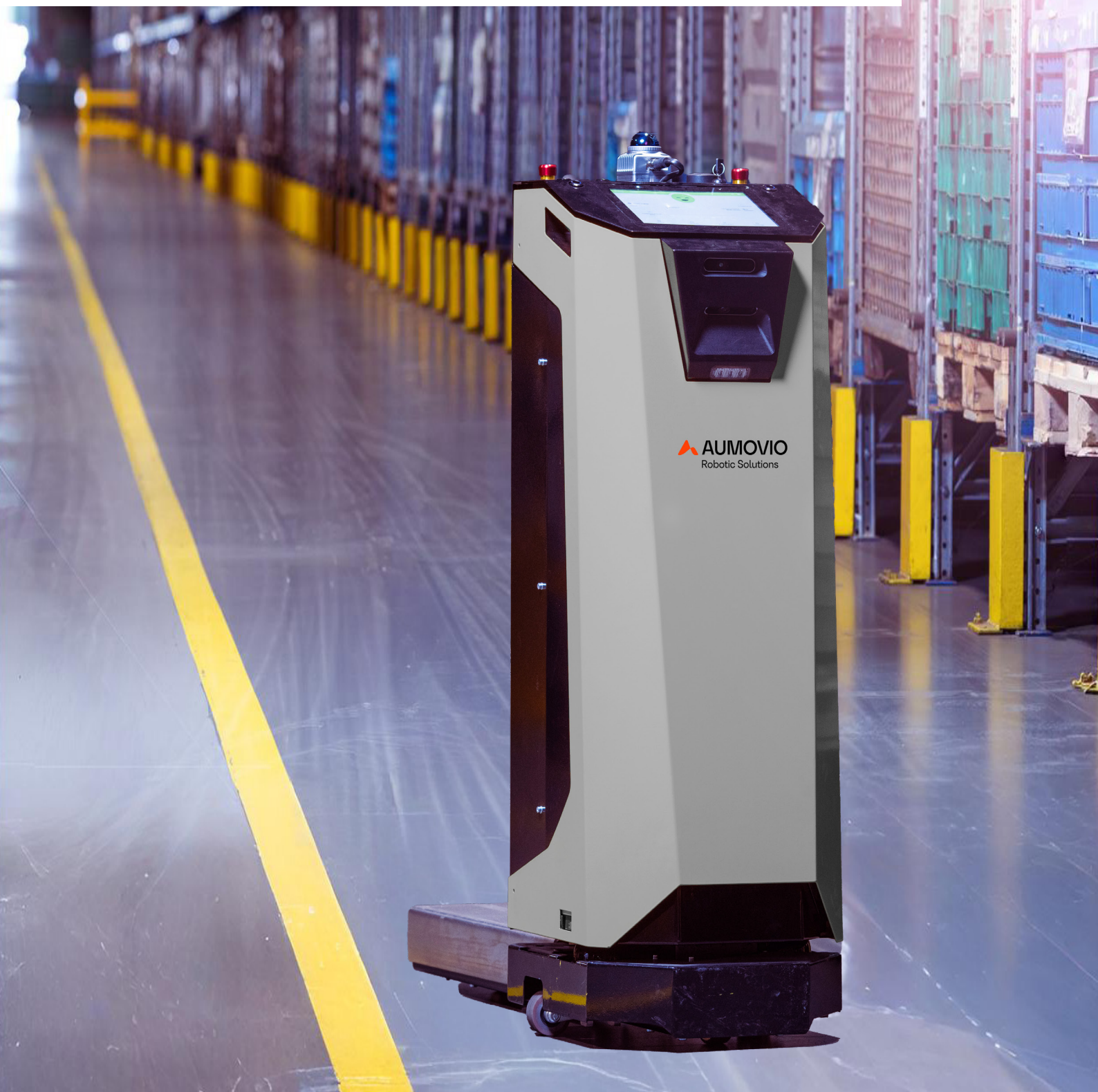
AUMOVIO
Robotic Solutions

NXS 300

Autonomous Mobile Robot



Compact by design.
Strong in performance.

Autonomous Mobile Robot, NXS 300
Technical Data

Dimensions	
Length	Base Version: 1057 mm | Extended Version: 1257 mm
Width	417 mm
Height	1220 mm
Weight	165 kg
Ground Clearance	26 mm

Performance Characteristics	
Maximum Payload	300 kg
Maximum Lifting Height	200 mm
Top Speed	Up to 2.0 m/s
Rotation Diameter (incl. min. safety fields)	Base Version: 1650 mm | Extended Version: 1850 mm
Drive System	2× omnidirectional drives
Navigation	SLAM (optional: QR code, line navigation)
Positioning Accuracy	Fine positioning: ± 20 mm

Power Supply	
Battery	Li-Ion / 48 V / 2.5 kWh
Charge Current	30 A
Charging Strategy	Opportunity Charging
Charging Time	1:20 h

Environment	
Ambient Temperature	5°C – 40°C
Humidity	10% to 90% @ 39°C, non condensing

Safety	
Sensors	2× Laser Scanner, 3× 3D Camera, 1× 3D Laser Scanner
Safety Functions	Laser Scanner, 3D Cameras, Emergency stop button, Light spot
Detection Range	360°
Safety Standards	ISO 3691-4:2023, UL 3100:2021, Machine Regulation (EU) 2023/1230, Radio Equipment Directive 2014/53/EU, ISO 13849-1:2023, EN ISO 13849-2:2012, EN 1175:2020, EN 12895:2015+A1:2019, CE, UL 3100:2021, ANSI/RIA R15.08-1-2020, ANSI/ITSDF B56.5-2019
IP Code	IP20

Connections	
Wi-Fi Connection	2.4 GHz and 5 GHz
Integration	VDA 5050 compatible
Manual Control	USB Controller, control via laptop / mobile phone

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Contact:

Important Notice!
The product is currently still in the pilot phase.
The specifications provided are preliminary and are yet to be finally validated. (Status: August 2025)

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Technical Data

Dimensions	
Length	BBase Version: 41.6 in | Extended Version: 49.5 in
Width	16.4 in
Height	48.0 in
Weight	363.8 lbs
Ground Clearance	1.0 in

Performance Characteristics	
Maximum Payload	661.4 lbs
Maximum Lifting Height	7.9 in
Top Speed	Up to 6.6 ft/s
Rotation Diameter (incl. min. safety fields)	Base Version: 65.0 in | Extended Version: 72.8 in
Drive System	2× omnidirectional drives
Navigation	SLAM (optional: QR code, line navigation)
Positioning Accuracy	Fine positioning: ± 0.8 in

Power Supply	
Battery	Li-Ion / 48 V / 2.5 kWh
Charge Current	30 A
Charging Strategy	Opportunity Charging
Charging Time	1:20 h

Environment	
Ambient Temperature	41°F – 104°F
Humidity	10% to 90% @ 102.2°F, non condensing

Safety	
Sensors	2× Laser Scanners, 3× 3D Cameras, 1× 3D Laser Scanner
Safety Functions	Laser Scanner, 3D Cameras, Emergency stop button, Light spot
Detection Range	360°
Safety Standards	Machine Regulation (EU) 2023/1230, Radio Equipment Directive 2014/53/EU, ISO 13849-1:2023, EN ISO 13849-2:2012, EN 1175:2020, EN 12895:2015+A1:2019, CE, UL 3100:2021, AN-SI/RIA R15.08-1-2020, ANSI/ITSDF B56.5-2019
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