

# SESTO™

Autonomous Material Handling Technology

## SESTO AUTONOMOUS MOBILE ROBOT

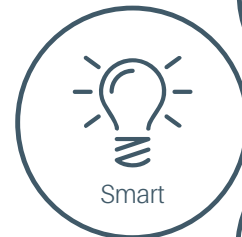
Model: SESTO Magnus Lite ▀



### REDEFINE WORK PROCESSES WITH SESTO Robotics' Autonomous Mobile Robot

**Automated material handling processes - powered by  
SESTO Robotics' intelligent solutions**

SESTO Robotics' Autonomous Mobile Robots (AMRs) are the next generation of autonomous robotics solutions designed to improve productivity and reduce human error. Equipped with cutting edge intelligence and built to comply with safety standards, SESTO AMRs help global companies improve business performance and maximise efficiency.



Smart

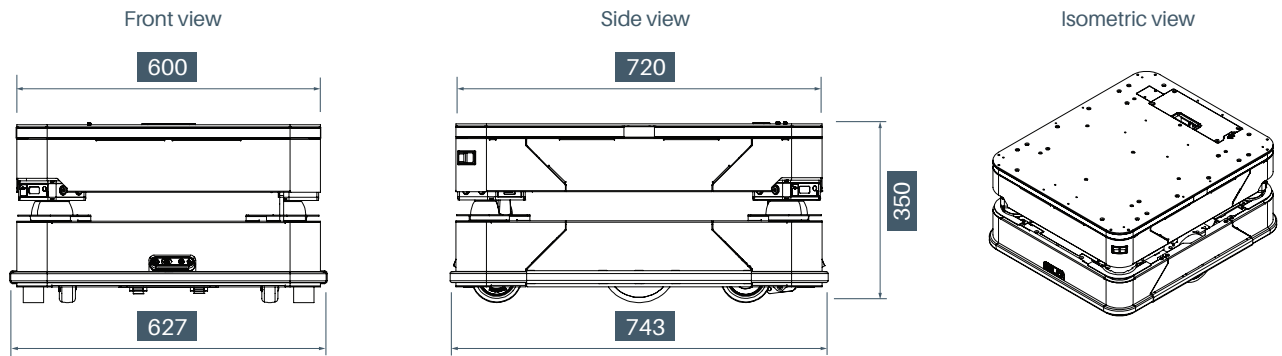


Bi-directional



Efficient

# Model: SESTO Magnus Lite



**MAGNUS Lite - Compact mobile robot with highest payload in its class**

SESTO Magnus Lite is a compact AMR suitable for loads up to 100 kilogrammes. Built for tight navigation in space-scarce facilities, SESTO Magnus Lite is able to autonomously travel through spaces while avoiding obstacles in its path.

## Specifications

Category	Specification	SESTO Magnus Lite
Platform	Platform Setup	Base for shelves, lifting platform or robot arm mounting
	Payload	Up to 100 kg
	Weight	100 kg (with battery)
	Dimensions (L x W x H)	720 x 600 x 350 mm
Safety	Localisation and Navigation	Safety LIDARs on front and rear Range = 40 m per LIDAR Coverage = 360° about AMR
	Safety Bumpers	Front and rear
	Status Lights	LED lights (RGB)
	Warning Audio	Navigating and obstacle detection
	3D camera	2X 3D cameras mounted on front and rear of AMR angled upwards
Performance	Battery Type and Lifespan	LiFePO <sub>4</sub> , 48V, 50Ah, estimated 3 years, 2000 cycles
	Charge Time and Endurance	Charge = 3 hours Continuous movement (without payload) = 8 to 10 hours
	Traverse Sill and Gap	Sill: 8mm, Gap: 35mm
	Charger Type	Auto-docking
	Maximum Speed	1.2m/s
	Direction and Turning Radius	Bi-directional/spot turn
	Slope	< 3°
Intelligence	Reaction to Obstacle	Able to detect and stop, up to 2m away
	Fleet Traffic Management	Basic: up to 5 AMRs Enterprise: up to 30 AMRs
User Integration	Operating System for Server	Ubuntu 16.04 onwards, Redhat 6 and 7 onwards, Centos
	Process Management	Envoy Task Management to configure and control business requirement
	Interface	Web-based UI
Communications	Elevator and Door interface	Available through API
	WLAN	2.4GHz, 5GHz, 802.11 a/b/g/n/ac wireless
Compliance	Software Interface	SESTO REST API
	Clean Room	Class 100
	Ingress Protection (IP) Rating	IP31
	Electrostatic Discharge	Static-dissipative surfaces: <10 <sup>7</sup> Ohms
	International Safety Standards	CE Mark pending Applied Standards: ISO 13482, EN 61000-6-2, EN 61000-6-4 Reference Standards: EN 60204-1, EN/ISO 13849-1, EN 61000-6.7

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