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Sesto Robotics

# MAGNUS CARE

Autonomous Delivery for Healthcare Facilities

Model: [MP40HT](#)





# Moving Industries Forward

We started designing and delivering autonomous mobile robotics applications that solved complex material handling needs in the semicon and healthcare industry in 2017.

The experience gained from small and large fleet deployments in cleanroom and hospital environment led SESTO to sharpen its focus to develop and deliver AMR solutions for applications such as meals delivery in hospitals and nursing homes and material handling robots for manufacturing and warehouse facilities.

Today we are a leader in the AMR solutions for multiple customers who utilise our robots daily to automate their material flows.

## Rethink Hospital Workflows with Magnus Care



01 Collect Lab Samples



02. Medicine Delivery



03. Healthcare Workflow



04. Central Sterile Supply Unit Delivery



05. Theatre sterile Supply Unit Delivery



06. Nursing Station Supply Support

### MAGNUS CARE MP40HT OVERVIEW



Four-fold eagle-wing and electric doors



Immersive 14-inch screen



Electric keypad lock



Spacious 70-liter storage

# WHY CHOOSE MAGNUS CARE?

Model: MP40HT

## Rethink the way your materials flow in healthcare

- 
**Hygienic Autonomous Delivery**  
 Secure and contactless transport of medications, meals, and supplies between rooms, ensuring fast and stable delivery even for liquid items.

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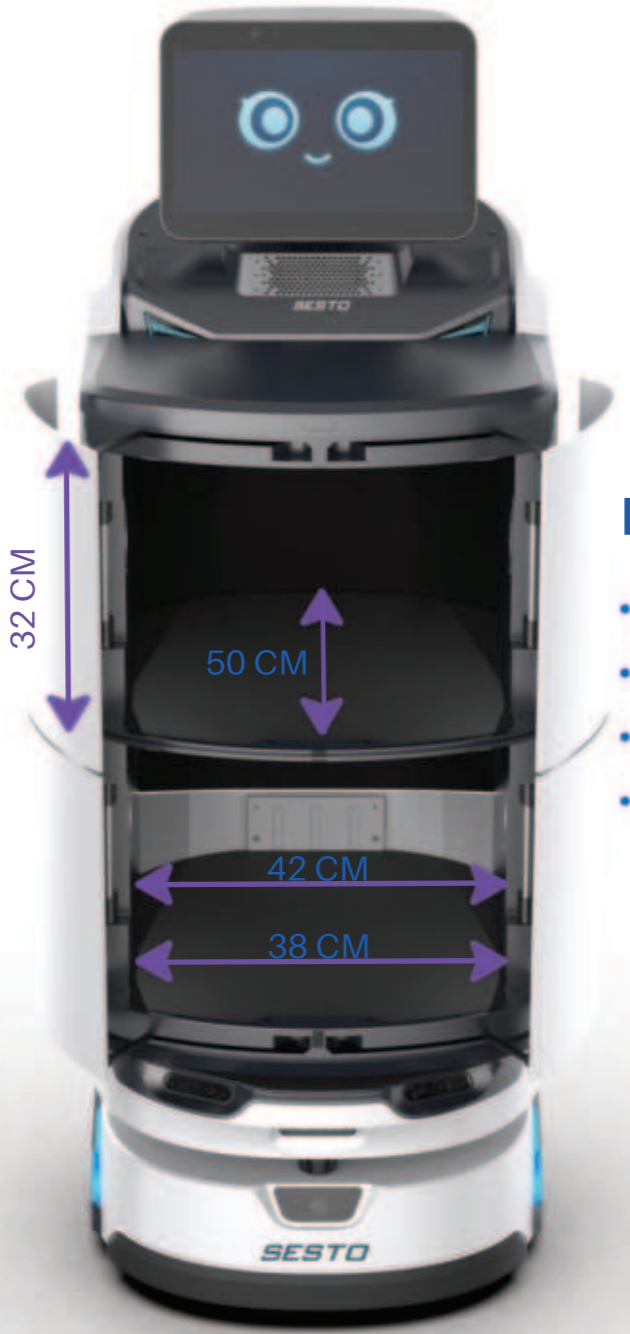
- 
**Seamless Door Integration**  
 Integrated with automatic door systems to ensure smooth, contactless movement across wards and shared clinical areas.

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- 
**Real - Time Status Monitoring**  
 14 inch touchscreen provides real time operational updates at a glance, ensuring staff always have the information they need

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- 
**3D Obstacle Detection**  
 360° sensor coverage combined with ambient status lighting enhances visibility and supports safe navigation in healthcare environments



### DIMENSION

- Inner Length: 42 cm
- Inner Depth: 50 cm
- Inner Height: 32 cm
- Door Opening Width: 38 cm

# GETTING TO KNOW MAGNUS CARE

Model: MP40HT

### Hi - Def Clinical Camera

- Detects human presence
- Supports identity-based content display
- Designed for safe operation in healthcare environments

### 14-inch Clinical Display

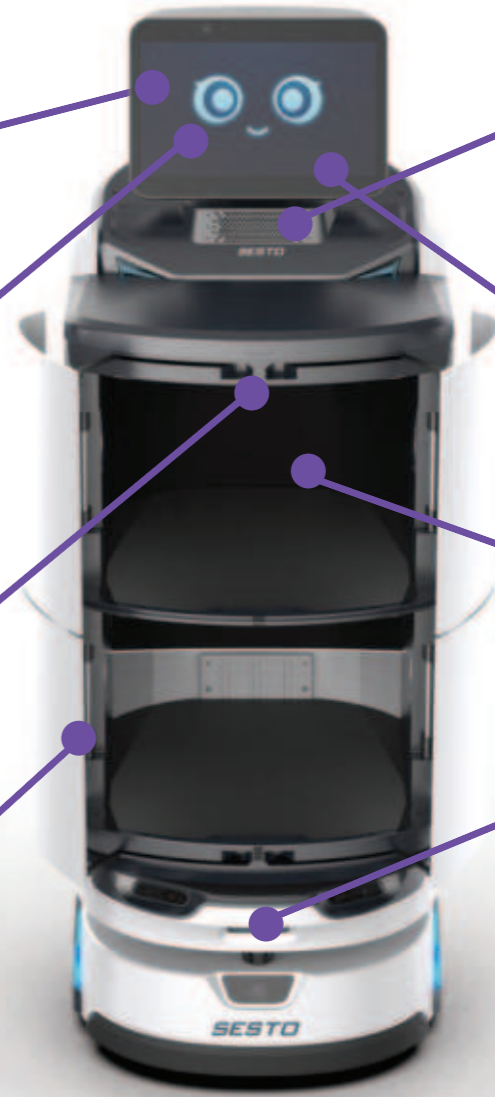
- Clear visibility for nurses and facility staff
- Displays delivery status and ward routing
- Simple, high-contrast UI for clinical environments

### 360° Smart Ambient Light

- Visual delivery status indicator
- Supports quick tray identification
- Non-intrusive ward-friendly lighting

### 4 Fold Eagle Wing AutoDoor

- Smooth automatic opening for contact-minimised access
- Compact turning radius ideal for narrow ward corridors
- Supports seamless room-to-room operation



### Advanced Voice Interaction

- 6-microphone array
- Clear communication in busy ward environments
- Enables hands-free nurse interaction

### Secure Compartment Access

- Password-protected tray access
- Ensures controlled delivery to authorized staff
- Supports medication and meal distribution workflows

### Large-Capacity Clinical Trays

- Up to 40kg total payload.
- Durable metal construction.
- Designed for meal, linen, or supply delivery.

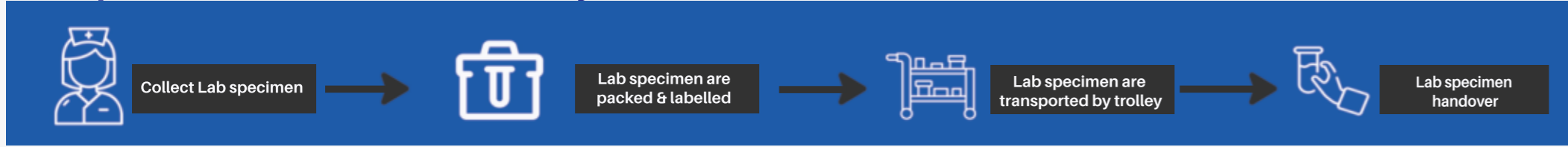
### Stable Autonomous Navigation

- 3 RGBD depth cameras + LiDAR
- Smooth movement for liquid delivery
- Safe navigation in narrow corridors and high-traffic wards

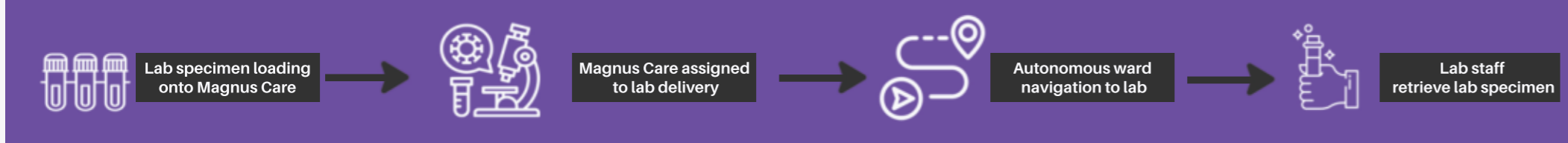
# HOSPITAL WORKFLOW WITH MAGNUS CARE

Model: MP40HT

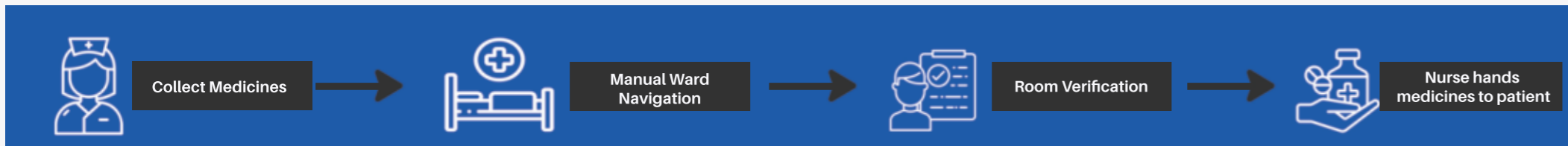
## Lab Specimen (Traditional Delivery)



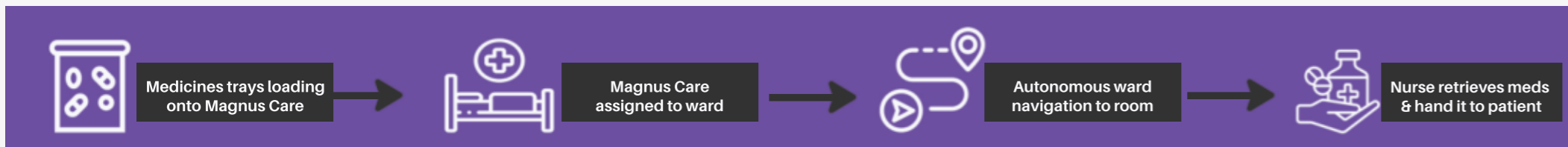
## Lab Specimen (MAGNUS Care Delivery)



## Medicine Delivery (Traditional Delivery)



## Medicine Delivery (MAGNUS CARE Delivery)



# MAGNUS CARE SPECIFICATION

Model: MP40HT

## 01 PHYSICAL

### Dimension

580 × 525 × 1320 mm

### Weight

59 Kg

### Material

ABS Plastic

### Expandable Volume

160 L

### Loading Space

4 Trays

500 mm × 420 mm / each

### Single Tray Load

15 kg

### Total Load

60 Kg

## 03 SYSTEM

### Platform

SESTO Robotics Platform

### Operating System

SESTO Robotics

Touch Screen System

### Screen

Adjustable tilt display

1080 FHD

### Audio Interaction

Smart AI interaction

(Q&A, emotional voice)

50+ preset dialogue topics

## 02 NAVIGATION

### Positioning

LIDAR SLAM

+ Visual SLAM

### Navigation Accuracy

±2.5° (3D depth camera

+ navigation algorithm)

### Operating Speed

0.50 ~ 1.20 m/s (adjustable)

### Operating Time

12 H

### Perception System

High-performance LIDAR

RGB-Depth camera

ToF sensors

Obstacle avoidance

Stereo sensing

## 04 POWER

### Battery

22.2 V / 58 Ah LiFePO<sub>4</sub>

### Operating Time

Up to 13.8 hours

(mixed usage)

### Charging Method

Automatic docking

Manual plug-and-charge

### Charging Time

4.5 H

### Charging Mode

Automatic Charging

Dock + Cable