

# Rethink how your materials move in hospitals

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# MAGNUS PLUS

MP600L

Built to move up to 600 kg, so your staffs don't have to

## MAGNUS PLUS MP600L



### Advanced Navigation

Advanced SLAM navigation through complex hospital environments.



### Multi-Payload Compatibility

Supports linen trolleys, food carriers, and other customized payloads.



### Seamless Elevator Integration

Ability to travel elevators and pass doors autonomously, enabling inter-floor delivery.



### Omni-Directional Movements

Enables the robot to move in tight corners

## SPECIFICATIONS

### 01 Performance

|                |   |
|----------------|---|
| Rated Payload  | 600 kg                                      |
| Turning Radius | 0 mm (spot turn)                            |
| Runtime        | 7-10 hours<br>(70% duty cycle at full load) |
| Noise Level    | 70 dB at 1.6 m/s                            |

### 02 Dimensions

|                                |                     |
|--------------------------------|---------------------|
| Overall Dimensions (L x W x H) | 1650 x 600 x 350 mm |
| Lifting Deck Size              | 1100 x 580 mm       |
| Lifting Stroke                 | 60 mm               |

### 03 Safety

|                 |   |
|-----------------|---|
| Safety Lasers   | OSSD outputs monitored by safety PLC                          |
| Emergency Stops | 2 x E-stop (front & rear)                                     |
| Certification   | EN 3691-4:2020,<br>EN 1175:2010,<br>EN 12895:2015 (CE Marked) |

### 04 Power

|               |                   |
|---------------|-------------------|
| Charging Type | Wireless Charging |
|---------------|-------------------|

# MAGNUS LIFTER

MP300L



## Advanced Navigation

Advanced SLAM navigation through complex hospital environments.



## Multi-Payload Compatibility

Supports linen trolleys, food carriers, and other customized payloads.



## Precise Cart Alignment

The robot can autonomously identify the trolley legs, dock and pick up the trolley.



## 300 kg Load Capacity

Handles heavy hospital carts, linen trolleys, and supply loads with ease.

## SPECIFICATIONS

### 01 Performance

|                                |   |
|--------------------------------|---|
| Safe working load              | 300 kg<br>(inclusive of trolley weight) |
| Maximum load<br>(cart adaptor) | 250 kg                                  |
| Lifting stroke                 | 120 mm                                  |
| Lift time                      | 10 sec                                  |
| Runtime (300 kg load)          | 7-10 hours                              |
| Gradient (full load)           | 3° (CG ≤ 1.15 m<br>at full lift height) |
| Noise level                    | < 70 dB @ 1.5 m height                  |
| Service life                   | 5 years                                 |

### 03 Safety

|                           |  |
|---------------------------|--|
| Emergency stop            | Front & back interlocked<br>E-stop (lifter + drive)                            |
| Trolley alignment sensors | 2 reflector-based<br>proximity sensors<br>(diagonal mount)                     |
| Trolley presence sensors  | 2 limit switches on lifting plate  |
| Auxiliary lifter control  | Auto / Manual selector<br>+ mechanical override                                |
| Brake release             | Latching brake<br>(AMR movable via trolley);<br>external power input available |
| Positional tolerance      | ±20 mm, ±3° (compounded)   |

### 02 Dimensions

|                                   |   |
|-----------------------------------|---|
| Lifter module<br>dimensions       | 720 (L) × 600 (W) × 110 (H) mm          |
| Lifter module weight              | 30 kg                                   |
| Cart adaptor dimensions           | 800 (L) × 860 (W) × 530 (H) mm          |
| Cart adaptor weight               | 35 kg                                   |
| Combined AMR + lifter             | 460mm                                   |
| Total height<br>with cart adaptor | Retracted: 530 mm<br>/ Extended: 580 mm |

### 04 Power

|                       |                |
|-----------------------|----------------|
| Operating temperature | +10°C to +45°C |
| Storage temperature   | 0°C to +50°C   |
| Operating humidity    | 35% - 85%      |



# MAGNUS LIFTER

MP300L

Built to lift the load, So staff can focus on care



# MAGNUS CARE

MP40HT

70L storage for everyday hospital support

## MAGNUS CARE

MP40HT



### Four-fold electric doors

Smooth access for room-to-room ward delivery.



### 14-inch screen

Clear status and routing visibility at a glance.



### Electric keypad lock

Secure tray access for authorised staff.



### 70-liter storage

Built for medicines, documents and supplies.

## SPECIFICATIONS

### 01 PHYSICAL

|                   |                            |
|-------------------|----------------------------|
| Dimension         | 580 × 525 × 1320 mm        |
| Weight            | 59 kg                      |
| Material          | ABS plastic                |
| Expandable Volume | 160 L                      |
| Loading Space     | 4 trays, 500 × 420 mm each |
| Single Tray Load  | 15 kg                      |
| Total Load        | 60 kg                      |

### 02 PHYSICAL

|                     |   |
|---------------------|---|
| 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<br>RGB-Depth camera<br>ToF sensors<br>Obstacle avoidance<br>Stereo sensing |

### 03 PHYSICAL

|                   |   |
|-------------------|---|
| Platform          | SESTO MagFleet  |
| Operating System  | SESTO Robotics<br>Touch Screen System   |
| Screen            | Adjustable tilt display   |
| Audio Interaction | 1080 FHD<br>Smart AI interaction (Q&A, emotional voice)<br>50+ preset dialogue topics |

### 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                           |
| Charging Time   | Manual plug-and-charge                      |
| Charging Mode   | 4.5 h<br>Automatic charging<br>Dock + cable |

# MEDIBOT

MP60HT



## Up to 15 kg per Compartment

Designed to carry up to 15 kg per slot for secure hospital delivery workflows.



## Two-way workflows

Enables two-way delivery between pharmacy and wards.



## Standardized Tray System

Fixed tray formats ensure reliable transfer between MediBot and POP stations.



## RFID / Barcode User Verification

Ensures only authorised healthcare staff can access medications via RFID or barcode verification.

## SPECIFICATIONS

### 01 Performance

|                              |   |
|------------------------------|---|
| <b>Payload capacity</b>      | 172 litre total load                                  |
| <b>Per compartment load</b>  | 43 litre per slot                                     |
| <b>Multi-stop delivery</b>   | Supports single or multiple ward routing              |
| <b>Autonomous navigation</b> | Moves between pharmacy and wards automatically        |
| <b>Fleet optimisation</b>    | Task allocation and routing optimised by fleet server |

### 02 Capacity

|                       |   |
|-----------------------|---|
| <b>Storage system</b> | Compartment-based (P1-P4 slots)                 |
| <b>Loading system</b> | Tray-based for consistent item sizing           |
| <b>Tray footprint</b> | ~51 x 33 x 26 cm                                |
| <b>Lift mechanism</b> | Vertical lift to align with POP station shelves |

### 03 Safety

|                              |   |
|------------------------------|---|
| <b>Secure compartments</b>   | Items locked during transport                     |
| <b>User authentication</b>   | RFID / barcode for authorised access only         |
| <b>Controlled retrieval</b>  | Items released only when verified via POP station |
| <b>Transfer traceability</b> | Logs between pharmacy and ward                    |

### 04 System

|                                   |   |
|-----------------------------------|---|
| <b>Fleet integration</b>          | Integrated with fleet server (MagFleet logic)           |
| <b>System integration</b>         | Interfaces with hospital systems for authentication     |
| <b>User interface</b>             | Tablet-based control at POP stations                    |
| <b>Infrastructure integration</b> | Automated interaction with lifts, doors, infrastructure |



# MEDIBOT

MP60HT

Secure delivery between pharmacy and POP Stations

From one robot to a full fleet,  
we've done it before.



### 24 X 7 CONNECTED SUPPORT

Real-time support to keep hospital operations running smoothly, day and night.



### PROJECT MANAGEMENT

From facility mapping to workflow design, we adapt to your hospital layout, traffic, and daily operations from day one.



### ELEVATOR INTEGRATION

Integrated with access-controlled doors, lifts, and critical hospital infrastructure for safe, secure movement.



### BUILDING INTEGRATION

SESTO Robotics integrates AMRs with automatic doors, lifts, and other building systems to support seamless movement.



### FACILITY MAPPING

We map your facility and configure the AMR workflow based on your operational needs, environment, and traffic conditions.



### FLEET MANAGEMENT

Our Magfleet software monitor robot activity, manage delivery routes, and optimise workflows across wards and departments.

# Rethink how your materials move in hospitals



Modern hospitals depend on the smooth movement of medications, linen, meals, waste, and supplies across multiple departments. But manual transport is time-consuming and harder to sustain as operational demands grow.

SESTO Robotics helps hospitals automate these internal workflows with Autonomous Mobile Robots designed for reliable material transport.

By supporting smoother deliveries, hospitals can improve efficiency while allowing staff to stay focused on patient care.

**A** SESTO Meal Delivery Robot

**B** SESTO Linen Delivery Robot

**C** Cleaning Robot

**D** SESTO Pharmacy Delivery Robot

**E** SESTO Surgical Tools Delivery Robot

**F** SESTO Lab Delivery Robot