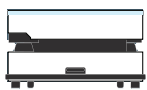


SESTO™

Autonomous Material Handling Technology

SESTO AUTONOMOUS MOBILE ROBOT

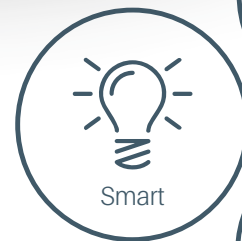
Model: SESTO Magnus Lifter



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. SESTO Magnus Lifter is an application designed to automate the pick-up, transfer and drop-off of trolley and carts without the need for docking stations. Magnus Lifter will fit right in your current workflow in manufacturing plants and healthcare facilities and enable smart and reliable deliveries.



Smart



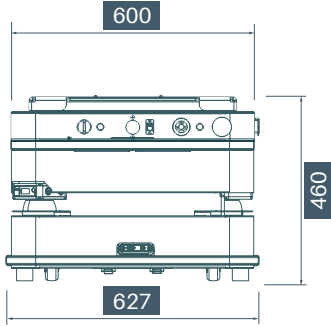
Bi-directional



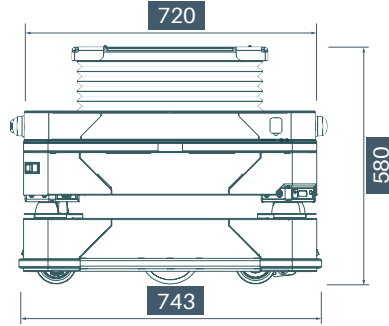
Efficient

Model: SESTO Magnus Lifter

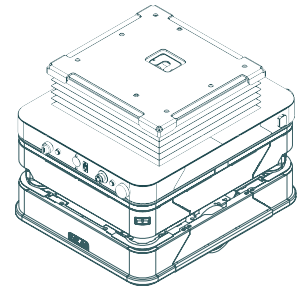
Front view (Lifter retracted)



Side view (Lifter extended)



Isometric view (Lifter extended)



MAGNUS - Compact mobile robot with highest payload in its class

SESTO Magnus is a compact AMR suitable for loads up to 300 kilogrammes. Built for tight navigation in space-scarce facilities, SESTO Magnus is able to autonomously travel through spaces while avoiding obstacles in its path.

Specifications

| Category | Specification | SESTO Magnus |
|-------------------------------|---|--|
| Lifter Module Specifications | Lifter module dimensions | 720mm (L) x 600mm (W) x 110mm (H) |
| | Lifter module weight | 30kg |
| | Safe working load | 300kg (inclusive of trolley weight) |
| | Lifting stroke | 120mm |
| | Lift time | 10 sec |
| | Lifting mechanism | Dual scissor arm lifting mechanism |
| | Noise Level | <70dB @ 1.5m height |
| | Service life | 5 years |
| | Operating temperature | +10 °C to +45 °C |
| | Storage and transport temperature | 0 °C to +50 °C |
| | Operating humidity | 35% to 85% |
| | Cart Adaptor | Cart adaptor dimensions |
| Cart adaptor weight | | 35kg |
| Maximum load | | 250kg |
| Alignment features | | Undermounted tapered guides for lifting platform alignment |
| Casters | | Front fixed casters, Rear swivel casters with brake and swivel lock |
| Mounting fixtures | | Provision of M8 mounting holes on top plate for user payload configuration |
| Docking | Docking method | Laser guidance via cart adaptor legs |
| | Positional tolerance | +/-20mm, +/-3 degrees compounded |
| Safety | Trolley alignment sensors | Two reflector based proximity sensors mounted diagonally on lifter module |
| | Trolley presence sensors | Two limit switches mounted diagonally on lifting plate |
| | Emergency stop | Lifter and drive interlocked emergency stop button on front and back |
| | Auxillary lifter control | Auto / Manual selector for lifter control Mechanical override |
| | Brake release | Latching brake release for drive motors. AMR moveable via attached trolley. External power input for brake release |
| Lifter and AMR specifications | Combined AMR and lifter dimensions, extended | 820mm (L) x 860mm (W) x 580mm (H) |
| | Total height of AMR with cart adaptor | Retracted: 530mm, Extended: 580mm |
| | Runtime with 300kg load | 7-10 hours |
| | Gradient with full load | 3deg at Full Load of 300kg, with CG of the load not exceeding 1.15m from ground level at fully lifted height |
| Compliance | Please refer to Magnus for further specifications and safety data | |

Global Headquarters

SESTO Robotics Pte Ltd
 6 Penjuru Close Singapore 608614
 T (65) 6266 1522 | F (65) 6877 0693
 E sales@sestorobotics.com
 www.sestorobotics.com

SESTO™

© 2020, SESTO Robotics Pte Ltd, All rights reserved.

No part of this brochure may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission from SESTO Robotics. Whilst every reasonable effort has been made to ensure that the content of this brochure is correct at the time of printing, SESTO Robotics does not warrant that the information is free from errors or omission. SESTO Robotics reserves the right to make any adjustments to the information contained herein at any time without notice.