# TML200

## Lifter Solution for OMRON LD-250



The ROEQ Top Module Lifter TML200 for the OMRON LD-250 is a flexible top module that can function as a lifter for pallets, crates and racks, as well as for carts. As a lifter, crates or pallets can be picked up, transported and dropped off. In addition, the TML200 can pick up carts in free space, with no need for a docking station, allowing an operator to roll the cart away after drop-off. When the TML200 lifts the Cart500, robot traction is increased, enabling the robot to operate more effectively in conditions of reduced friction, such as polished or dusty floors. This is a truly versatile solution to enable your LD-250 to transport different types of loads.

All ROEQ top modules come with the ROEQ Assist software tool which is fully compatible with the AMR software. It reduces the integration time needed, assisting the setup of the system, and setting the right footprints for the robot to facilitate safe navigation. The tool builds standard macros to get you up and running faster.

## Features

- Cargo sensor for detecting load on module – to avoid errors at pick up/drop off

- Mounting holes for attaching equipment e.g. TML200 Forks for lifting pallets, or for building extensions on top

- Can lift Cart500 e.g. for transporting on floors with reduced friction

- I/O kit can be purchased to add e.g. tower lights, extra emergency stop etc.

- ROEQ Assist software tool - integrates with AMR software for easier start up, set up and multiple tasks






## Specifications

**Robot compatibility:**
LD-250

**Payload:**
205kg / 450lbs

**Size (l x w):**
1087 x 691 x 66.5-106.5 mm / 42.8 x 27.2 x 2.6-4.2 "

**Lifter height from floor:**
446 - 486 mm / 17.6 - 19.2"

**Lifting surface:**
655 mm x 495 mm / 25.8" x 19.5"

**Weight:**
45 kg / 100 lbs

**ROEQ product compatibility:**
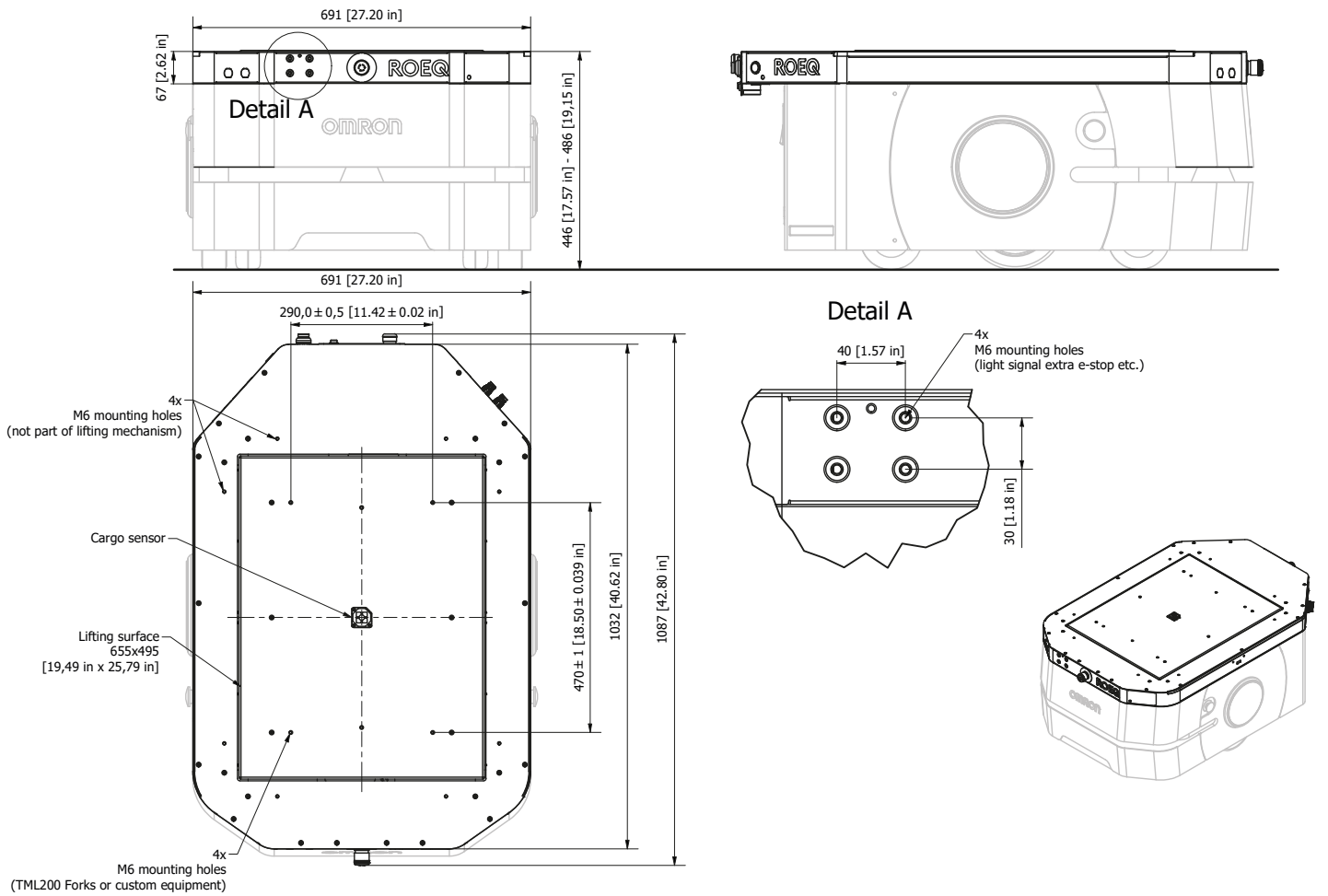TML Forks, Cart500

**Stroke:**
40mm / 1.6"

**Lifting time:**
Full Load / No Load: 5/8 sec

**Sensors:**
Cargo sensor range up to 20mm

Centering Cones for lifting the Cart500 are provided with the TML200



**ROEQ** ROBOTIC EQUIPMENT

Detail A

| Product no. | Product name | Description | |
|---|---|---|---|
| 405s1000 | TML200 | Top module lifter for OMRON LD-250 | |
| 400s9000 | Cart500 | Designed to be lifted and transported by the TML200. Payload up to 163 kg / 359 lbs | |
| 277m7050 | TML200 Forks | For TML200, when handling e.g. half euro pallets | |
| 400s8000 | I/O Kit LD-Series | Input/output to the OMRON LD-250 for equipment e.g. light tower or extra emergency stop. | |
| 400s8200 | Side Laser Kit LD-250 | For mounting side laser scanners on the LD-250 robot. Consists of 2 scanners and brackets for mounting. Works with Cart500. | |
| 400s8250 | Side Laser Kit Compact LD-250 | As above. Works with TML200 top module when goods are within robot outline. | |

Visit roeq.dk for more information or to see films of products in action.

# Contact your local ROEQ Partner for more guidance

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ROBOTIC EQUIPMENT