

# MMO-700

Welcome to the Neobotix Documentation for MMO-700



The mobile manipulator MMO-700 combines the omnidirectional [MPO-700](#) with a light-weight robot arm from [Universal Robots](#) or [Schunk](#).

The MMO-700's four [Omni-Drive-Modules](#) create very smooth omnidirectional movements. This is a significant advantage over [vehicles with Mecanum wheels](#) when handling or transporting fragile or expensive parts.

The platform's movement can be controlled by either [PlatformCtrl](#) or the free [Robot Operating System](#). The Universal Robots arms can be controlled with the original control software and the manual control unit from Universal Robots. Control by the on-board computer is also possible. When a Schunk arm is used it can be controlled by [ROS](#).

## Specification

<b>Payload:</b>	<b>300 kg (Platform) up to 10 kg (Arm)</b>
<b>Arm:</b>	Universal Robots, Schunk
<b>Dimensions:</b>	741 x 521 x 767 (LxWxH, in mm)
<b>Speed:</b>	<0.8 m/s
<b>Uptime:</b>	approx. 4h
<b>Sensors:</b>	1-2 x 2D laser scanner

## Range Of Application

The mobile robot may be used in a large variety of applications:

- Autonomous transportation tasks in industrial environments
- Automatic measurement of physical data in large areas (e.g. gas concentrations, temperatures, noise, etc.)
- Autonomous operations within large areas (e.g. surveillance, part handling, etc.)
- Telepresence while controlled via wireless LAN

# Contact information

For more information please visit our website at [www.neobotix-robots.com](http://www.neobotix-robots.com). If you have any questions, just get in touch with us:

- General information: <http://www.neobotix-robots.com/company-contact.html>
- ROS related questions: [ros@neobotix.de](mailto:ros@neobotix.de)