

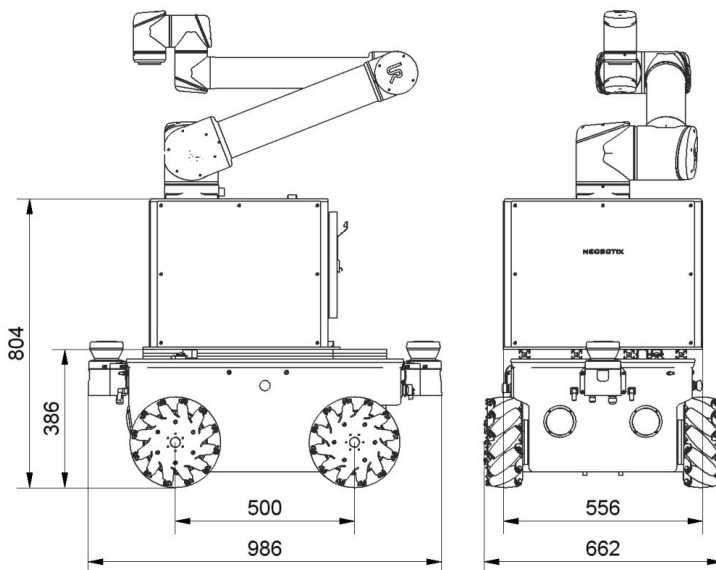
## MMO-500

**THE MOBILE MANIPULATOR MMO-500** combines the omni-directional MPO-500 with a light-weight robot arm from Universal Robots or Schunk.

**ITS MECANUM WHEELS** allow the MMO-500 to move freely into any direction which significantly enlarges the workspace of the integrated arm.

**THE MMO-500 CAN INTEGRATE** most of the available light-weight robot arms and is especially suited for the arms LWA4P or LWA4D from Schunk or the arms UR5 and UR10 from Universal Robots.

**THE PLATFORM CAN BE CONTROLLED BY** the free Robot Operating System (ROS) or Neobotix PlatformCtrl. The Universal Robots arms can be controlled with their original control software. The Schunk light weight arms can be controlled by the free Robot Operating System (ROS).



### INCLUDED IN DELIVERY

- Mobile platform
- Battery pack
- 1 x Sick S300 safety laser scanner
- Wireless joystick
- Manual charger
- On-board computer
- Software package PlatformCtrl / ROS
- Documentation

### OPTIONS

- Integration of a robot arm
- 2<sup>nd</sup> laser scanner Sick S300
- Battery quick change system
- Automatic charging station
- High payload of 150 kg
- NAV350 localisation system
- IOBoard
- Audio system

## PLATFORM'S TECHNICAL DATA

<b>Payload</b>	50 kg (optional: high payload of 150 kg)
<b>Weight</b>	approx. 150 kg
<b>Ground clearance</b>	45 mm (with charging contacts: 35 mm)
<b>Speed</b>	< 0.8 m/s
<b>Battery pack</b>	AGM sealed lead acid 24 V / 50 Ah
<b>Uptime / charge time</b>	approx. 5 h / 6 h
<b>Sensors</b>	Laser scanner Sick S300 (optional: 2 <sup>nd</sup> laser scanner Sick S300)
<b>Computer</b>	Intel Atom, 2 GB RAM, > 100 GB HDD, WLAN