



# ROBBOX

Another vision of Unmanned Ground Vehicle



# Architecture & Dimensions

ROBBOX architecture is focused on the mission module

# Technical data

Twin engine platform with diesel, electric and hybrid versions.  
Central mission module over or / and under the main frame.



Patented architecture



ROBBOX architecture is simple and reliable :

Main structure and identical F / R units :



Diesel or electric power units :

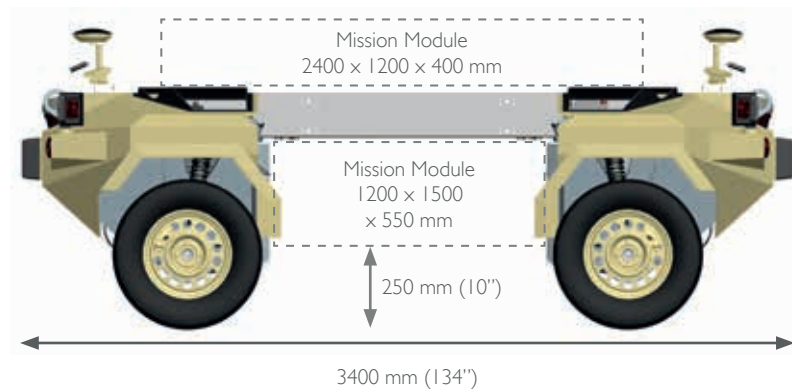
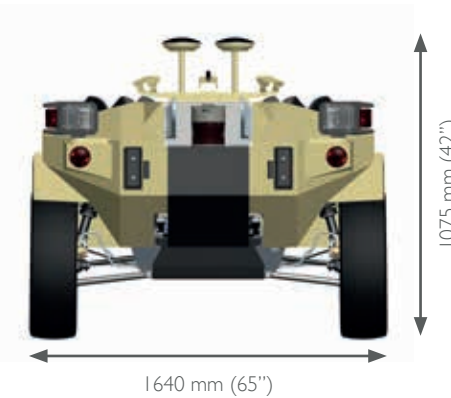


Diesel unit 12,5 kW



Electric unit 15kW  
Li-ion energy pack 6 kWh

## DIMENSIONS



## MASSES, ENERGY & PERFORMANCES

Mass without payload	750 kg
Payload capacity	500 - 750 kg (*)
Energy supply available for payload	2 kW
Autonomy (Diesel mode)	300 km
Autonomy (Electric mode)	80 km
Top speed (remote controlled mode : speed restriction)	40 km/h
Top speed (towed, on road)	90 km/h
Turning radius (4WS)	3.4 m
Turning radius (2WS)	5.4 m
Uphill capability, starting in slope.	< 40 %
Vertical obstacle (step, fully loaded 1200 kg)	200 mm
Vertical obstacle (wall, fully loaded 1200 kg)	200 x 200 mm
APG 6" (trapeze shaped obstacle, fully loaded 1200 kg)	< 10 km/h
Sinus 7 m (fully loaded 1200 kg)	< 30 km/h
Uphill to downhill	30 %

(\*) according to mission

## HUMAN MACHINE INTERFACES (HMI) (Nexter Robotics partnership)

### IN BOARD HMI (Rugged PC)



### LANDED HMI (Tablet PC and Smartphone)



Infrared captors  
(MBDA partnership)



Several armed configurations  
(NEXTER Robotics partnership)



The MULE  
(NEXTER Robotics partnership)



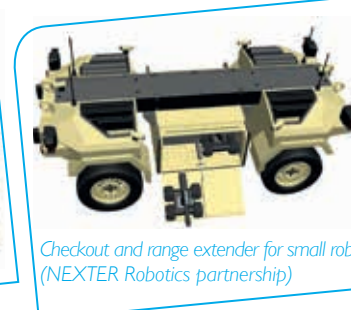
Medical evacuation  
(NEXTER Robotics partnership)



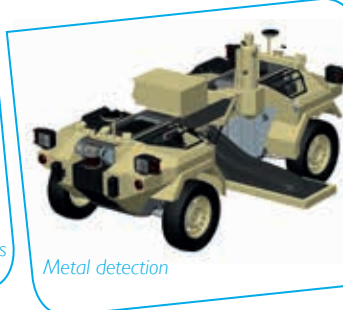
Investigation arm with airspace system



Checkout and range extender for small robots  
(NEXTER Robotics partnership)



Metal detection



Ground analyse with GPR





# Controls

ROBBOX is designed with an open and versatile command and control system :

## CC BASIC PACKAGE

only includes actuators  
(engine, brakes, steering)  
and actuators control box.

## CC MEDIUM PACKAGE

(Nexter Robotics partnership)

adds an in board CC module for data link, a 6 cameras set, and a remote control post with driving HMI (controls, feedbacks).

## SPECIFIC PACKAGE

(Nexter Robotics partnership)

- Retracing its steps  
(lost of data link, return to base, ...).
- Automated way points following.
- Automated lane/road side following.
- Automated person or vehicle following.
- Automated area scanning
- Self learning of missions.

**nexter**  
ROBOTICS



Configurable display with camera views



Autonomous functions

# Services

ROBBOX is designed as a stable and maintainable system :

- Configuration of any dedicated version (diesel, electric or hybrid, 4WS or 2WS) from a selection of proposed modules.
- Easy to replace modules for maintenance of configuration changes.
- All subassembly and components available as spare parts, from catalogue.
- Components and consumables available worldwide.
- User and maintenance documentation.

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