



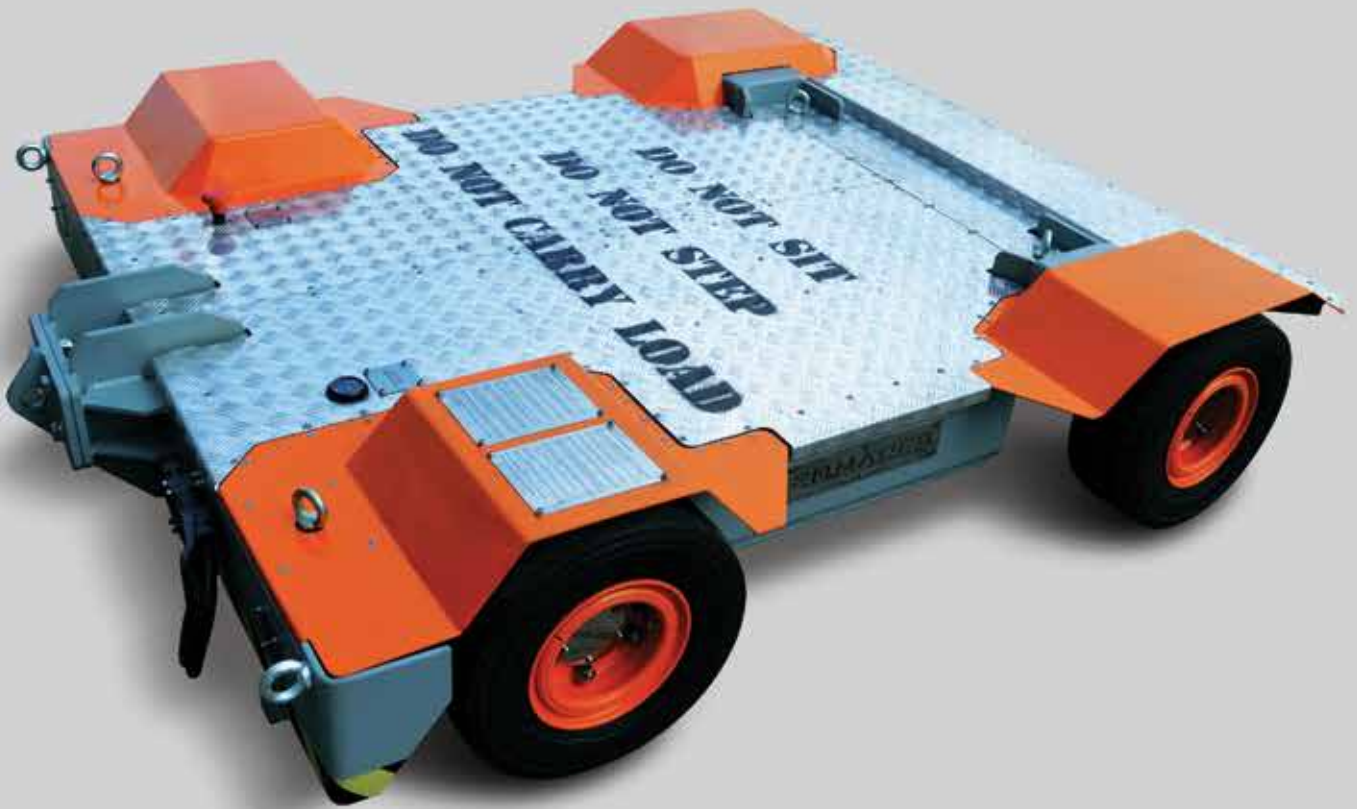
Helicopter and Airplane Towing Vehicle

**ANT**

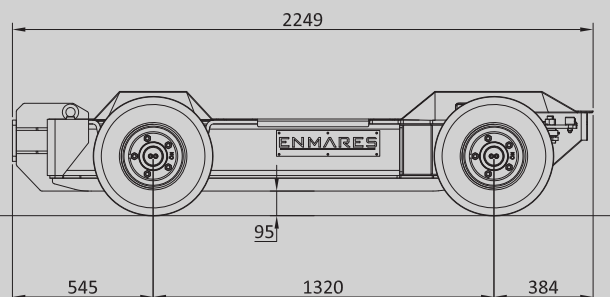
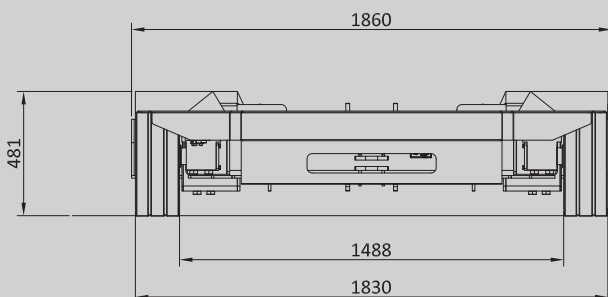
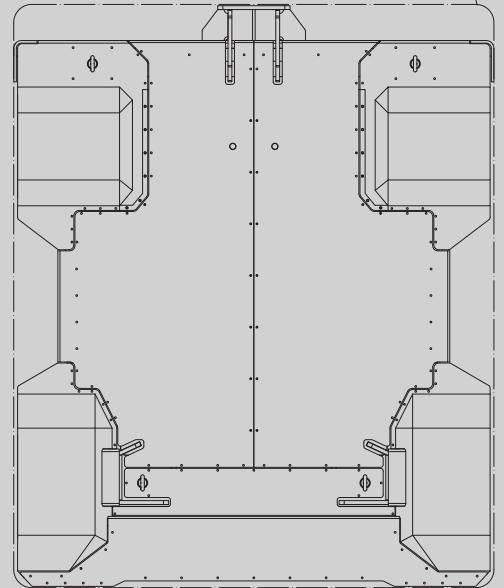
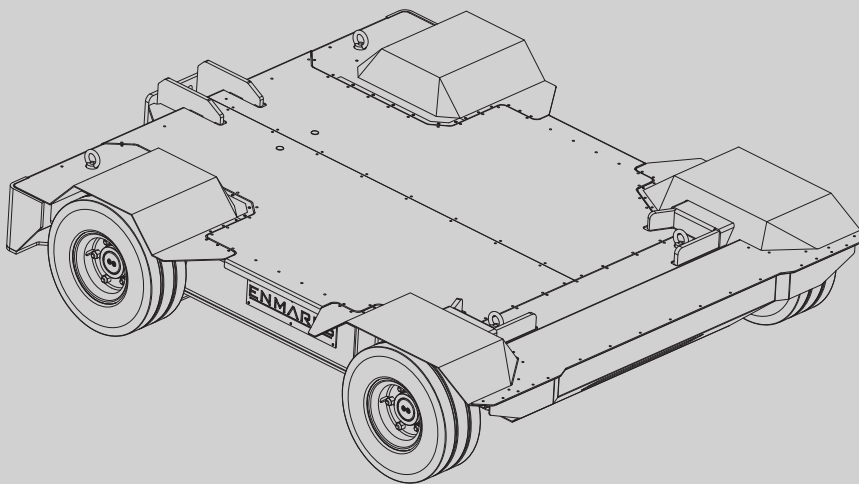


**ENMARES**<sup>®</sup>  
ENGINEERING MAINTENANCE REPAIR SOLUTIONS





# Helicopter and Airplane Towing Vehicle **ANT**



Footprint Area: 4,2 m<sup>2</sup>



## ENMARES Aircraft Towing Vehicle "Ant" Standard Colour Patterns

Component	Colour Name	RAL Code	Visualization
Main Chassis	Silver Grey	RAL 7001	
Fenders	Daffodil Yellow	RAL 1007	
Wheel Rims	Daffodil Yellow	RAL 1007	
Upper Covers	Not Painted	Aluminum Surface	

\* FOC customization included in the product package

### ENMARES "Ant" Drive Group Characteristics

Drive Motor Type	Permanent Magnet / 24 VDC
Drive Motor Power	2 x 2,50 kW @2200 rpm
Drive Motor Current	116 A
Drive Motor Class	S2/IP44
Gearbox Type	Planetary
Drive Class	Independent Traction 2x4 RR Drive
Minimum Torque	2 x 270 N.m @2200 rpm
Wheels	Steel Rim - Radial Air-Inflated Tire
Tire Model	Continental / Heavy Duty RV20 Series
Tire Group	180/70R8 TSR Art. Nr. 0793003
Tire Valve Type	41.5G70 / 60D
Overall Tire Diameter	465 mm
Overall Tire Width	183 mm

### ENMARES "Ant" Steering Characteristics

Steering System	DC Motor-Driven Hydraulic Steering
Drive Motor Power	1,1 kW @2200 rpm
Steering Wheels Rotation Angles	43° / 40° (Inner / Outer)
Turning Radius	1,99 mt
Steering Command Means	Double Joy-Stick Controlled
Command Connection Type	Cabled / Wireless Remote Control

### Performance Features of Battery Units

NATO Stock Number (NSN)	6140-27-063-3729
PHCA	2.250A at 27°C (80°F); for 5 seconds
PCCA	1.420A at -18°C (0°F); for 5 seconds
CCA	1.225A at -18°C (0°F)
CA/MCA	1.550A at 0°C (32°F)
HCA	1.730A at 27°C (80°F)
Reserve capacity	240 minutes
Short circuit current	5.000A
Deep cycling capability	400 at 80% DOD
Design life	12 years (Float)
Typical service life	6 to 8 years
Operation temperature range	-30°C (-22°F) to 40°C (104°F)
Nominal Capacity (10 Hr Rate)	114Ah
Nominal Capacity (20 Hr Rate)	126Ah

### ENMARES "Ant" Vehicle Capability Facts

Nominal Weight	1.250 kg / 2.760 lbs
Drive System	2x4 (Rear Wheels)
Operational Loading Capacity*	30.000 kg / 65.000 lbs
Endurance**	6 hours
Maximum Speed	10 kmh / 6.5 mph

\* Maximum aircraft weight that can be pulled

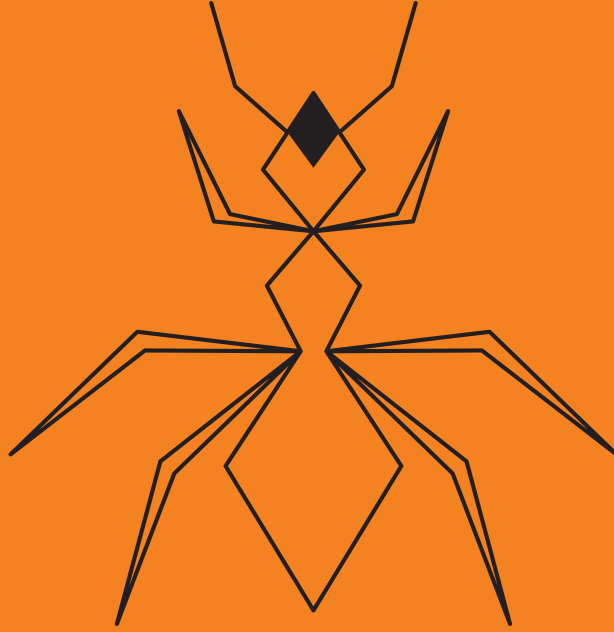
\*\* Continuous operable duration between two successive full battery charge



### Specifications:

- Universal design for towing a wide range of rotary and fixed wing aircraft
- 2 x 4 independent drive with high torque and powerful traction
- Towing capacity up to 30.000 kg / 65.000 lbs
- Remote and cabled command and control options
- High maneuverability with hydraulic steering
- Special military-purpose 24 VDC non-spillable deep cycle batteries
- High efficiency with 23x towing capacity per unit vehicle weight
- Special 115/230/370 VAC recharging inverter providing a full-recharge in 8 hours
- Fast installation and uninstallation for easy maintenance
- 2 years of warranty





“As a NATO supplier engineering company, we design and manufacture a wide variety of aircraft maintenance, painting and assembly lines, special ground support equipment and mechanical systems for both civil and defense industries. Our complete scope of project implementation covers design, analysis, manufacturing, testing, documentation, shipment, commissioning and aftersales support. This becomes ENMARES’ distinguishing power in many prestigious aviation and defense projects for years.”

Rotary and Fixed Wing Aircraft Towing Vehicles  
Helicopter Operation Equipment  
Aircraft Assembly Line Solutions  
Special Aircraft Docking Systems  
Aircraft Painting Docking Systems  
Aircraft Tire Inflation Cages  
Aircraft Engine Components Clean Lines  
On-the-vessel Helicopter Platforms  
Special Electromechanic Weapon Systems  
Composite Ballistic Armouring  
Mobile Diesel Fire Extinguishing Pumps

**ENMARES Aviation and Defense Company**  
NATO CAGE: TA642

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**Manufacturing Facility**

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