

STAMINA-UGV Aurochs



The robotic platform that boosts terrestrial robotics!

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Objectives / Challenges

- A rugged and powerful versatile tactical robot with a **superior** speed and outstanding all-terrain crossing capabilities
- Exceptional maneuverability and traction (suspensions, electric drive wheels, single or double steering axle)
- Innovative French-German technology in terrestrial robotics based on the common needs of the French Army headquarters (EMAT) and the planning authority of the German Army (PIgABw - Planungsamt der Bundeswehr)

Innovation / Major Assets

- Unmanned Ground Vehicle (UGV) powered by the ISL STAMINA vision-based navigation technology: autonomous guidance on a mission path without GPS, without drift and with an accuracy of a few centimeters
- De facto jamming resistant (works on a GPS-free and a non-remote-operation basis)
- Forward and backward following of a mission path defined by an image sequence, return on the path after obstacle avoidance



Military or civilian applications

- **MULE function (Multifunction Utility/Logistics and Equipment):** carrying capacity of two Euro-pallets
- **Rescue of wounded:** Suspended chassis and specific design for the transport of a stretcher (military operations or on-site disaster operations)
- **Autonomous supply:** Connection between supply points in an unstructured environment without any external supervision
- **Autonomous convoys:** Equipped with the STAMINA system for driving even without inter-vehicle visibility



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