

M200 CONSTRUCTION MULE

An autonomous material-transport robot for construction sites: ~200 kg payload, all-weather duty, and a safety system designed for working near people. The M200 hauls, so skilled people can build.

#Material-transport

#Fleet-coordination

#Safety-first

#Plain-language-tasking

#Offline-capable

CAPABILITIES

- › ~200 kg payload, all-weather, all-terrain wheeled platform.
- › Waypoint navigation between site zones; obstacle avoidance; keep-out zones always respected.
- › Plain-language tasking – available today in multiple languages, 50+ planned; every task is checked against site safety rules before a robot moves.
- › Fleet coordination – tasks split into trips and assigned across robots automatically; every assignment visible to the owner.
- › Offline-capable – robots continue queued work through connectivity gaps; the field app works offline and syncs later.
- › Daily reports – trips, material moved, and safety events, delivered to the site owner every evening in their language.
- › Modular platform – standard module interface for future tools: dumper bed, tool carrier, inspection payloads.

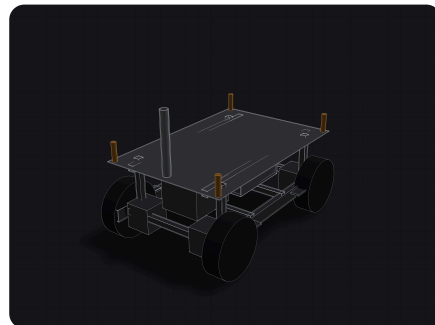
SAFETY-FIRST DESIGN

- › Multi-layer safety system with an **independent, hardware-level emergency stop** – separate from the navigation computer.
- › No AI in the stop decision. People always have right of way; a person in the path stops the robot instantly.
- › Semi-autonomous by design in v1: people keep authority at load and unload points.
- › Designed against the applicable European machinery-safety standards from day one; CE path with an external safety consultancy planned.

Honesty rule: all performance figures to date come from simulation and are labeled as such. Simulation validates logic; physical testing validates performance – we never substitute one for the other.



PRODUCT CONCEPT RENDERING



CURRENT ENGINEERING STATE – CAD

AUTONOMY LADDER

REMOTE

OPERATOR DRIVES

FOLLOW-ME

NEXT PHASE

SEMI-AUTONOMOUS

V1 · WAYPOINTS +
HUMAN GATES

AUTONOMOUS

LATER PHASE

FLEET

MULTI-ROBOT
MISSIONS