

tipard 500



The Compact One. Optimized for fully automated plant assessment.

Summary

With the tipard multi-carrier platform, digitization and automation in agriculture are reaching the next level.

The **tipard 500** is the smallest multi-carrier platform in the tipard series and has been specially developed for tasks in dense plant stands and trial fields.

Its low weight, compact design and fully autonomous control make it an ideal solution for precise data collection, scientific applications and light-duty field work. Whether plant breeding, agronomic experimentation or autonomous monitoring - the **tipard 500** offers maximum flexibility with minimal space requirements.

Description

With the machine's weight of only about 500 kg and a payload of up to 125 kg, the **tipard 500** is perfectly suited for use with sensors, measuring systems or lightweight application equipment.

Its track width can be manually adjusted between 1.0 m and 1.75 m, allowing it to adapt to different row spacings or plot widths.

A clearance height of up to 2.2 m allows it to be used even in tall crops or in late stages of development.

Variable track widths and independent 4-wheel steering allow precise adaptation to any application scenario.

The system is powered by a 4.8 kWh battery storage unit – quiet, emission-free and low-maintenance.

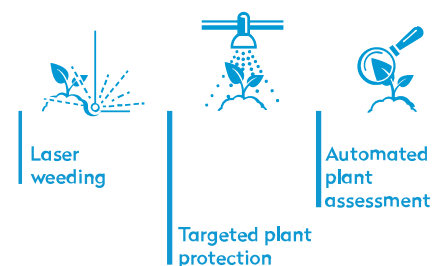
In addition to autonomous operation, the **tipard 500** offers the option of manual control, where the operator guides the vehicle comfortably and safely via a wireless remote control.

The integrated locat precision satellite receiver of the latest generation, ensures accurate and fast position and direction determination – even under difficult conditions.

Thanks to its compact packing dimensions of 2.2 m × 1.25 m × 1.25 m, the **tipard 500** can be easily transported in a minibus, which greatly simplifies logistics and deployment planning.

Versatile application

The **tipard 500** is designed for numerous application – wherever precision and efficiency are crucial:



Technical data:

Vehicle dimensions	Width: approx. 1.25 m Length: approx. 2.2 m Height: approx. 1.25 m
Weight	Max. gross weight 625 kg (machine weight approx. 500 kg; payload: approx. 125 kg)
Track width	1.0 m to 1.75 m
Ground clearance	Up to 2.2 metres
Chassis	Passive self-levelling hydraulic chassis
Speed	Variable speed from 0.5 km/h up to 6 km/h
Drive type	Permanent 4-wheel drive
Power supply	Battery system (approx. 4.8 kWh)
Operating time	Approx. 4 – 6 hours, depending on the equipment and speed.
Tyre dimensions (max. tyre size)	16"
Steering	4-wheel independent steering
Brake system	Electric brake system
Device attachment	Flange points on the main frame
Auxiliary drive electrics	48 V / 50 A ; 12 V / 40 A
Self-localization	Dual-RTK GNSS receiver with heading Integrated IMU
Internet	4G/5G (optional via satellite)
Operating temperature	-10 °C bis +50 °C
System voltage	48 V / 12 V
Interfaces for third-party systems	Ethernet / CAN
Safety features	Long-range safety sensor (5 m to 10 m) Safety bumper 4x emergency stop buttons Geofencing
Operation	Wireless remote control for manual driving Graphical web interface via touch display or remote access
Software	Online portal for machine management, including mission planning software
Supplies	Remote control, user manual and technical documentation
Service	The annual service fee includes support, software updates, maintenance (max. 500 operating hours) and machine breakdown insurance.

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