tipard 2500

The Powerhouse. Designed for high-precision work processes with high power requirements.

Summary

The **tipard 2500** is the most powerful multi-carrier platform in the tipard series, designed specifically for applications with high power and energy requirements. Thanks to its robust construction, variable track and frame width, and high ground clearance, it is ideal for demanding field work and large attachments.

Description

The **tipard 2500** is designed for power-intensive applications and, with a gross vehicle weight of 4000 kg, can carry a payload of up to 1500 kg in the field. Depending on the application scenario, a fixed frame width between 3.0 m and 4.0 m can be selected. Telescopic axles enable hydraulic track adjustment from 1.8 m to 3.0 m. This allows the platform to be optimally adapted to changing tramlines and crops, both in longitudinal and lateral travel. A ground clearance of up to 1.5 m allows use even in tall crops, while large-volume 20-inch radial tires with a maximum air pressure of 1 bar reduce soil compaction.

The chassis features actively controlled hydraulics that enable both rolling and pitching of the frame while also allowing variable height adjustment – ideal for precise guidance of implements. The height adjustment also makes it easier to pick up attachments safely. The independent 4-wheel steering makes it extremely maneuverable, shortens turning maneuvers at the headland, and reliably compensates for slopes.

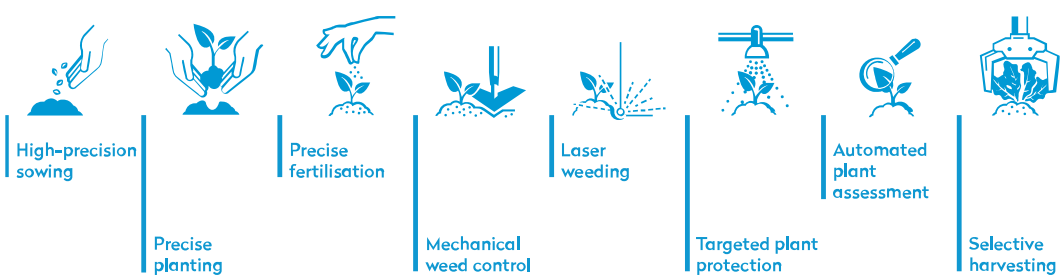
The movable main frame moves like a gantry across the surface and carries the implement centrally in the vehicle's center of gravity. This allows the attachment to follow every steering movement directly and without delay – without the need for complex sliding frames. This enables seed coulters, hoeing tools, or harvesting units to be guided with the highest precision. In addition, mounting points for sensors or computer vision systems are also available.

The diesel-electric engine enables continuous 24/7 operation. Thanks to the possibility of combining it with various attachments, the multi-carrier platform offers a wide seasonal window of use – from cultivation and maintenance to harvesting. Switching between transport and working positions takes just a few moments. Thanks to its compact transport dimensions, the **tipard 2500** can be transported on a standard trailer; loading is carried out via ramps – a special low-loader is not required.

The platform is operated via a web-based user interface directly on the vehicle. Alternatively, access can be gained via a secure connection using a mobile device or remote connection. In addition to autonomous operation, a convenient, wireless industrial remote control is available for manual control. Reliable connectivity is ensured by a 5G-enabled modem as well as optional satellite internet.

Versatile application

The **tipard 2500** is designed for numerous application – wherever precision and efficiency are crucial:



Technical data:

Vehicle dimensions	Width: approx. 2.1 m Length: approx. 4.0 m up to 5.0 m (depending on the main frame length) Height: approx. 2.4 m
Weight	Max. gross weight 4000 kg (machine weight approx. 2500 kg; payload: approx. 1500 kg)
Track width	Longitudinal movement: 1.8 to 3.0 m Lateral movement: 3.0 m up to 4.5 m
Ground clearance	1,5 m +/- 0,1 m
Chassis	Self-leveling hydraulic chassis
Speed	Variable speed from 0.5 km/h up to 6 km/h
Drive type	Permanent 4-wheel drive
Energy supply	Diesel engine (55 kW)
Operating time	24/7
Tyre dimensions (max. tire size)	20"
Steering	4-wheel independent steering
Brake system	Electric brake system, magnetic parking brake
Device attachment	Central equipment mounting frame, flange points on the main frame
Lifting power	Up to 1500 kg
Power take-off auxiliary drive	max. 60 l/minute hydraulic power available 2 hydraulic circuits
Auxiliary drive electrics	96 V / 200 A; 12 V / 50 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	96 V / 12 V
Interfaces for third-party systems	CAN, Ethernet on demand
Safety features	Long-range safety sensor (5 m to 10 m) Safety bumper buttons 4x emergency stop Geofencing
Operation	Wireless remote control 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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