



Wheel Drive System

with B250 Wheel Drive Motor



be professional



The future of WHEEL DRIVE Systems

We are proud to present you at the start of 2024 our pioneering new development: the GRIFA Wheel Drive System. Based on the proven Black Bruin wheel drive motors, it offers reliable performance and quality in the transportation industry. As a well-known company in the forestry industry, GRIFA has already impressed with intelligent overall solutions in forestry technology.

An exciting feature of our Wheel Drive System is the modular principle with 3 possibilities - **Starter**, **Proportional** and **Smart** - which enable customized solutions for different requirements. Manufacturers of machines with integrated wheel drives can therefore choose the version that perfectly fits to their needs.

The premiere of our system will take place at the trade fairs in Gernamy „Forstlive“ in Offenburg and the „KWF Conference“ in Schwarzenborn. There you will have the exclusive opportunity to see our new system live and discover how it redefines standards in this industry.

We look forward to entering into dialog with you, create new partnerships and be successful together. Welcome to the future of wheel drive control - welcome to GRIFA!

With kind regards,

Daniel Griener
Managing Director

Product packages

ARTICLE			WD Starter	WD Proportional	WD Smart
1	Wheel Drive System in control box *	120203001	✓	✓	✓
2	Wheel Drive System in control box with proportional linear lever in a ergonomic housing *	120203005		✓	
3	Wheel Drive System in control box with pressure-related safety shutdown *	120203004			✓
4	Cable set Cabine		✓	✓	✓
5	Cable set Attachment		✓	✓	✓
6	Black Bruin motor B250 with drum brake	140104015			
7	Hydraulic Valve 12VDC, Open-or Closed Center Differetial princip	110102124			

* incl. cable set & RAM mount

The combination of Black Bruin B250 wheel drive motors and GRIFA Wheel Drive System offers a highly developed solution for demanding transportation applications.

Rely on this robust and flexible drive unit, to integrate maximum performance and efficiency into your trailer



Wheel Drive System

The better decision.

The Black Bruin B250 wheel drive motors, in combination with the customized GRIFA Wheel Drive System, offer an outstanding solution for use in forwarding trailers in the forestry industry. The system is especially designed for this market, following the modular principle. This ensures flexible adaptation to individual requirements.

The plug-and-play cabling enables effortless integration, while the structure, which can be expanded at any time, ensures that the right version can always be selected.



Uphill forward



Uphill backwards



Drive through obstacles



On soft or slippery grounds

1 motor, many advantages

Optional pressure-related shutdown

The pressure-related shutdown of the system can be integrated to prevent damage to the motors through anticavitation. Safety mechanism for reliable and long-lasting operation of the motors.



3

Differential lock

In combination with the Black Bruin motor and hydraulic valve, the vehicle drives automatically according to the differential lock principle, ensuring that both wheels are driven in every situation.



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Control Box

Switching between crane and Wheel Drive System. Emergency Stop for fast interruption of operation in emergency situations.



Hill Start Assist

The control system includes a hill start assist function to ensure smooth to ensure a smooth start on inclines. Optional on/off or proportional control of the motors for precise control in different situations.

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Plug & Play cable set

The simple plug-and-play cabling enables the smooth integration of the Black Bruin motors B250 with the GRIFA Wheel Drive System. Quick and safe installation.

Technical data

Motor B250

Rotation	clockwise, counterclockwise
Displacement	1600 ccm/U
Max. capacity	50 kW
Max. pressure	300 bar
Max. flow	200 l/min
Weight	156 kg
Brake	drum brake

Hydraulic valve

Sections	2
Max. inlet flow	120 l/min
Support up to	7 km/h*
Max. pressure	300 bar / adjustable
Voltage	12 V
Pump types	open or closed center
Adjustable flow per section	stroke limiter
Working ports	½"
P and T ports	¾"
Tank connection	free to the tank
Port for leakage	free to the tank

*Example for tire size 600/40

GRIFA

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