



## Traction aid cable winch Harvester / Forwarder *„Highgrade“* easy 09300/09400 OC "GEN 2.1"





# Features of the HAAS Traction aid cable winch „GEN2.1“ „Highgrade“

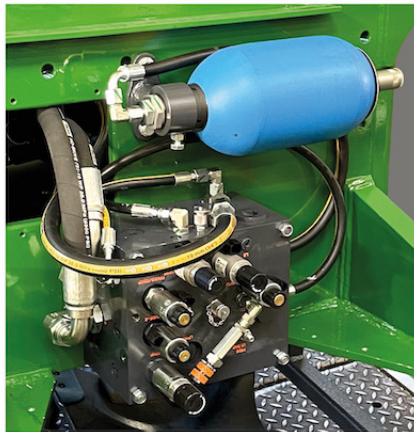
The HAAS - Hydraumatic valve has been developed for installation in harvester and also forwarder hydraulic systems.

## HAAS Traction aid cable winch "GEN 2.1" „Highgrade“:

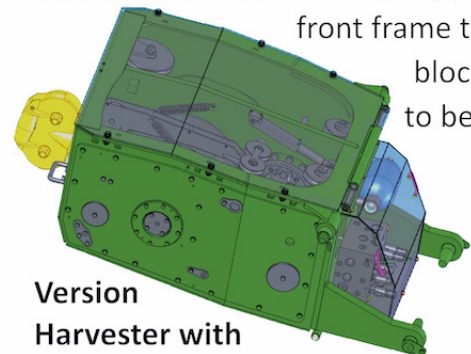
Available from 2022  
for all models.

The drive is via the newly developed Hydraumatic, which consists of large dimensioned components. This ensures up to 100% simultaneous driving of the retraction, working with the crane and driving the auxiliary traction winch.

This ensures efficient work with high productivity and long life span on both level and steep terrain.



Our new GEN 2.1 auxiliary traction winches are already built as a unit pre-assembled with the control block, so that only the hydraulic hoses from the working pump in the front frame to the valve block laid need to be relocated.



Version  
Harvester with  
tilt preparation..

The rope is deposited on the storage drum with minimum pre-tensioning and simplest rope distribution device. This gives the rope a long service life. Robust standard components simplify spare parts procurement and maintenance, and increase machine performance.



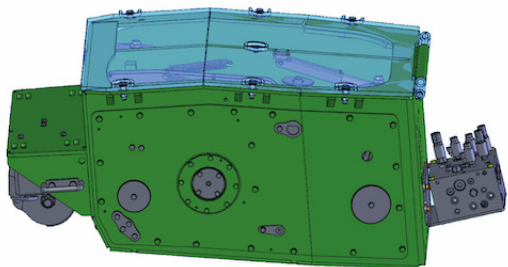
### The drive

The auxiliary traction winch of the „Highgrade“ series is equipped with a robust planetary gear and always has a constant pulling force thanks to the separate drive/rope storage system. Our winches impress with their technically high availability over the entire service life.





In the cabin, all that remains to be done is to install the electronic displays of the developed and proven for many years **HAAS**-*matic* Control system and the **HAAS**-*matic* monitoring system with integrated winch operation can be installed. These systems have already been installed in the models, formerly Timberjack, with highest productivity, which directly improves the performance of the the driver's and create a highly comfortable workplace.



Version  
Forwarder.

Individual positioning of the mounting  
or attachment points is possible on request.







The winch system „*Highgrade*“ offers you the following advantages:

- Constant tractive force regardless of rope capacity
- Flexible rope capacities, standard are 300m - more on request
- The impressively large drive sheave to protect the wire rope, also serves to eject the rope, eliminating the need for an additional rope ejector
- Work possible without chains or belts on appropriate slopes
- Quickly lay down rope while driving on the forest road to the polter, thanks to the **HAAS**-*matic* - Soil-protecting manipulation during thinning through **HAAS**-*Hydraumatic* - Working regardless of the weather brings more profitability to your operation
- No costs for forest road repair
- Spare parts for harvester and forwarder winches identical





Harvester and Forwarder			
	Highgrade Easy	Highgrade Profi	Highgrade Easy
	JD1010G JD1110G JD1210G JD1510G JD1910G 09300/09400	JD1110G JD1210G JD1510G 09300/09400	JD1170G JD1270G JD1470G 09300/09400
Pulling force	0 - ca. 90 kN constant at 250 bar, 9 steps adjustable, on original armpanel, no change of grip		
Steel wire cable	Ø14 / 300m (optional 400m) stranded compaction special wire cable 211 kN minimum breaking force	Ø14 /300m (400m and more on request) stranded compaction. special wire cable 211 kN minimum breaking force	Ø14 /300m (optional 400m) strandet compaction special wire cable 211 kN minimum breaking force
Hydraulic propulsion	Hydrostatically driven capstan disc mounted on planetary gear with spring-loaded safety brake		
 Hydraumatic valve	open hydraulic circuit, electro-hydraulically controlled, with valve block integrated on the winch		
Parabolic disc	Ø 490 mm, double grooved, at the same time also cable ejector, no additional cable ejector necessary		
Cable storage	Hydraulically preloaded, grooved drum core	Hydraulically preloaded, drum core grooved, Split system	Hydraulically preloaded, grooved drum core
Cable spooling	Simple classic mech. spooling arm		
Cable speed	Cable speed equal to travel speed approx. 0-5km/h (depending on model)		
 -matic Control	Synchro control in mode: winch under pull or brake load, Synchro control in the mode: cable lowering, Synchro control in mode: radio remote control		
 -matic Monitoring	Automatic monitoring of cable spooling Monitoring for cable damage with camera Monitoring of cable length, cable start and cable end Monitoring of slope inclination with digital display and signal		
Radio remote control outdoor operation	Cable retraction, cable unwinding, speed adjustment Engine start/stop, harvester winch up/down		
Weight incl. Wire cable	ca. 1.950 kg	ca. 1.970 kg	ca. 2.280 kg
Dimensions in mm: LxWxH may vary depending on model	1590x1117x683 mm	1669x830x630 mm	1730x1117x683 mm Length=incl. tilt steering

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Edition 07/2022