



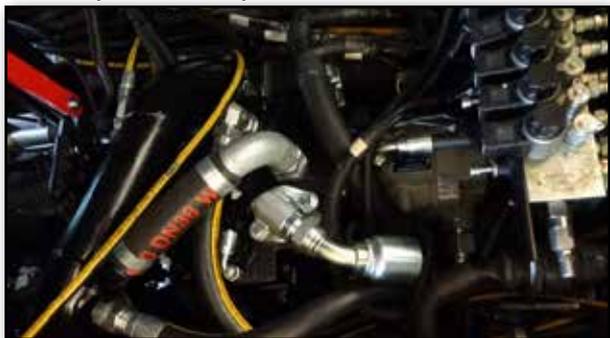
Traction aid cable winch
„Highgrade“
Forwarder

New Generation: GEN 2



Features of the HAAS traction aid cable winch „GEN 2“ „Highgrade“

HAAS - hydraulic was developed exclusively for integration in JOHN DEERE forestry machinery.



Additional 3rd hydraulic pump

HAAS traction aid cable winch „GEN 2“ „Highgrade“: Available from 2016 for all models of the E-series and G-series! The drive mechanism by the additionally installed hydraulic, which consists of large-scale components. Therefore simultaneous, synchronous movement of the forwarder, loading crane operation and movement of the traction aid cable winch „GEN 2“ is 100% guaranteed, all the time. This ensures efficient operation with high productivity and long service life on both moderate and sloping terrain.



Alternatively, this additional hydraulic system can be used as the drive mechanism for optional devices. This also increases the subsequent resale value.

The cable is stored in the storage drum with minimum pre stressing and easy cable distribution device. Therefore the cable has a long service life.

Robust standard components make sourcing spare parts and maintenance easier, thus optimizing the performance of the machinery.



Wedge disk & gearbox

The drive mechanism

The „Highgrade“ series traction aid cable winch is equipped with a robust planetary gearbox and a wedge disk. It always maintains a constant tractive force thanks to the separate drive / cable storage system.

Our cable winches impress with their high level of technical availability across their entire service life.



Cable storage drum

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

- steady tractive force regardless of capacity
- flexible cable capacities, standard 300m – more on request
- ground clearance is equal to the original forwarder
- the impressive large-scale drive pulley protects the cable, also ejects the cable, so there is no need for an additional cable ejector
- it is possible to work without chains and/or tracks depending on the slopes
- quick cable lay down when driving over forest roads to log piles, thanks to **HAAS** - *matic*
- soil friendly manipulation during thinning thanks to HAAS - Hydraulic
- allweather operation allows increased work efficiency
- no cost to repair forest roads



The traction aid cable winch "GEN 2" for extreme applications by increasing the ground clearance at the rear to enable easy navigation of steep inclines from the forest road to the strip road.

So there is still the option to move all types of logs.

The extremely powerful cable infeed roller is rigidly mounted and is dimensioned according to the applied forces.



Flexible additional load capacities

rotating stake
(optional)

The traction aid cable winches „GEN 2“ impresses when used with E-series and G-series forwarders due to their flexible loading combinations. The loading area is suitable for long logs due to the quick change rotating 3rd bunk and can be switched with the last bunk.

The loading areas are even more flexible thanks to the adjustable head board.

So lengths of 2m, 2.5m, 3m, 4m and 5m can be loaded.

In designing the distance between the bunks was made as big as possible so that the log handling in the slopes is easier for the operator.



Load space high extension (optional)

Depending on the type of E-models or G-models forwarder, there is an integrated bunk extension for short and narrow load areas. This increases the flexibility of the loading area when transporting and sorting the different types of timber in general use of the forwarder between steep slopes and moderate terrain.





HAAS Crane tilt device



Optional: crane tilt device
with John Deere crane

Optional: crane tilt device
with Epsilon crane

Epsilon crane with tilt device $-3^{\circ}/+26^{\circ}$



Crane tilt devices are produced for all forwarders in the John Deere E-models and G-models. The optional crane tilt device on the front or rear carriage makes the forwarders suitable for work on extremely steep slopes.

Depending on the forwarder and crane model, a tilt angle of up to $-3^{\circ}/+26^{\circ}$ can be achieved.

The benefits for you:

- maximum tilt angle
- transport height is reduced compared to the original crane
- careful handling of timber in the forest stand
- consistent slewing force



John Deere crane with tilt device $-3^{\circ}/+20^{\circ}$



matic control system

HAAS - *matic* is a reliable control system, that has been developed and tested for many years, and which has already been used in the former TIMBERJACK models.

Your benefits:

HAAS - *matic* is totally user friendly, thus enabling the highest level of productivity in shift operation and when changing drivers.

There is no need to change over to additional buttons during work processes.

The integration of the winch commands in the original JD arm panel comes as standard, so work cycles can be stored, thus increasing the performance of drivers and creating an extremely comfortable working environment.





matic monitoring system

HAAS exclusively manufactures the integrated monitoring system with performance and status monitoring. It manages basic machinery settings.

Cable damage monitoring by using an additional camera.

Electronic display of the available rope capacity, beginning of the rope and end of the rope.

Monitors the slope with digital display and optical signal
>50% slope.





Dozer blade (optional)

The original John Deere blade can be modified to a larger slope angle.

Its' ground clearance is then approx. 170mm higher than originally.

Auxiliary cable winch (optional)



The auxiliary cable winch is fitted to the head board, with integrated storage compartment.

This enables convenient uphill pulling of the heavy winch cable to the anchor tree.

It is driven hydraulically and controlled via the radio remote control of the traction aid cable winch.

Forwarder	Technical data:	 Traction aid cable winch "GEN 2" <i>"Highgrade"</i>	
		JD 810 JD 1010	JD 1110 JD 1210 JD 1510 JD 1910
	Type	07300 / 07400	09300 / 09400
	Traction	0 – 70 kN constantly, 7-stage adjustable, force prop. to speed	0 – 90 kN constantly, 9-stage adjustable, force prop. to speed
	Cable	Ø 13 / 300 m (400 m and more on request) 182 kN minimum breaking force	Ø 14 / 300 m (400 m and more on request) 211 kN minimum breaking force
	Hydraulic drive mechanism	Hydrostatically driven wedge disc on planetary gear mounted with spring actuator safety brake	Hydrostatically driven wedge disc on planetary gear mounted with spring actuator safety brake
	 Hydraumatic	Closed hydraulic circuit, controlled electro-hydraulically, with additional axial piston pump	Closed hydraulic circuit, controlled electro-hydraulically, with additional axial piston pump
	Wedge disc	Ø 410 mm, double-grooved, also cable release, no additional cable ejector required	Ø 490 mm, double-grooved, also cable release, no additional cable ejector required
	Cable storage	Hydr. preloaded, grooved drum core mounted beside the head board	Hydr. preloaded, grooved drum core mounted beside the head board (except 1910)
	Cable spooling	Simple, conventional, mech. spooling arm	Simple, conventional, mech. spooling arm
	Cable speed	Cable speed equal to driving speed 0 - approx. 5 km/h	Cable speed equal to driving speed 0 - approx. 5 km/h
		Sync control mode: Winds under tensile or braking load Sync control mode: Cable removal Sync control mode: Radio remote control	Sync control mode: Winds under tensile or braking load Sync control mode: Cable removal Sync control mode: Radio remote control
		Automatic monitoring of the cable spooling Monitoring of cable damage with camera Monitoring of the cable length, start of rope and end of cable Monitoring of the slope inclination with digital display and signal	Automatic monitoring of the cable spooling Monitoring of cable damage with camera Monitoring of the cable length, start of rope and end of cable Monitoring of the slope inclination with digital display and signal
	Radio remote control for remote operation	Pull in cable, spool out cable, set speed	Pull in cable, spool out cable, set speed
	Ground clearance	Due to the shared wind system (spill drive in the rear, cable storage mounted on the side), the important original ground clearance is maintained for entering the strip road	Due to the shared wind system (spill drive in the rear, cable storage mounted on the side), the important original ground clearance is maintained for entering the strip road
	Weight incl. wire cable	approx. 1.650 kg	approx. 1.950 kg
	Dimensions in mm: Length x width x height, may differ depending on the model		

We reserve the right to make changes to these specifications at any time without prior notice. The only warranty given by Haas is the written limited warranty that is included with each product sold by Haas. Haas accepts no responsibility or liability for financial loss or personal injury caused by changes to a Haas product which were not expressly approved by Haas or by installing accessories in Haas products if the accessories were not developed or manufactured by Haas. Not all products are available in all countries. The manufacturer reserves the right to make changes or improvements at any time without being obliged to make these changes to previously manufactured machines.



Innovation, quality, service and spare parts supply

Innovation is our strength:

HAAS - MASCHINENBAU represents decades of experience in forestry technology:
We strive for innovation, quality, service and spare parts supply for forestry management!

We provide tailor-made solutions to make your company more efficient and to make your manual operations more productive. Every year we invest large sums in developing our products.

Our goal is always to help you carry out your operations faster, more safer and easier.

HAAS - MASCHINENBAU develops modifications exclusively for John Deere forestry machines (formerly TIMBERJACK) for all applications in short and long timber forestry.

Made in Germany

Your success is our demand!



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