Traction aid cable winch
„Highgrade“ Forwarder
Features of the "Highgrade" Traction aid cable winch

"Highgrade" - Hydraulmatic was developed exclusively for integration in JOHN DEERE forestry machinery.

Additional 3rd Hydraulic Pump

The drive mechanism by the additionally installed Hydraulmatic, which consists of large-scale components. Therefore, simultaneous synchronous movement of the forwarder, loading crane operation and movement of the Traction aid cable winch is 100% guaranteed.

This ensures efficient operation with high productivity and long service life on both level 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 optimising the performance of the machinery.

The drive mechanism

The “Highgrade” series Traction Assistance cable winch is equipped with a robust planetary gearbox and 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.
The Winch System “Highgrade” offers you the following advantages:

- steady tractive force regardless of cable capacity
- flexible cable capacities, standard 300m – more on request
- ground clearance is equal to the original Forwarder
- the impressive large-scale drive pulley protecting 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 belts depending on the slopes
- quick rope storage when driving over forest roads to log piles, thanks to -matic.
- soil-friendly manipulation during clearing to - Hydraumatic
- all-weather operation allows increased work efficiency
- no cost to repair forest roads
The traction aid cable winch was revised for extreme applications by increasing the ground clearance at the rear to enable easy navigation of steep inclines from the forest road to the haulage track. As ever there is the option to move all types of cargo and logs. The extremely powerful cable in-feed roller is rigidly mounted and is dimensioned according to the applied forces.

Flexible additional load capacities

Rotating stake (Optional)

-Traction winches impress when used with E-series Forwarders due to their flexible loading combinations. The stake basket is suitable for long logs due to the quick-change, revolving 3rd stake and can be switched with the 4th stake. The loading areas is even more flexible thanks to the adjustable front grate and sections of 2.00m, 2.50m, 3.00m, 4.00m and 5.00m can be loaded. Constructors designed the loads binker improve with large distance between the stations to improve easier stam handling for the operator in steep slopes.
Depending on the type of E-model Forwarder, there is an integrated stake extension for short, narrow rear cars. 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 level terrain.

Stake Extension (Optional)
Crane-tilt devices are produced for all forwarders in the John Deere E-model series.

The auxiliary crane-tilt device on the front or rear carriage makes the forwarders suitable for work on extremely steep slopes.

Epsilon crane with tilt device -3°/+26°
Depending on the forwarder and crane model, a tilt angle of up to -3°/+26° can be achieved.

The benefits to 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°/+20°
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:
matic is totally user-friendly, thus enabling the highest level of productivity in shift operation and when changing drivers.
There is no need to changeover 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.
HAAS 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
Front Guard Rail
(Optional)

- strong ramming frame to protect the engine head on steep terrain
- simple assembly
- can also be used and retrofitted in conjunction with the radiator protection grille, that is available ex-works

Auxiliary cable winch
(Optional)

The auxiliary cable Winch is fitted to the front grate, with integrated storage compartment for convenient uphill traction of the traction 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:

<table>
<thead>
<tr>
<th>Theta Type</th>
<th>JD 810E I JD 1010E</th>
<th>JD 1110E I JD 1210E I JD 1510E</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Traction</strong></td>
<td>0 – 70 kN constantly, 9-stage adjustable, an original JD arm panel, no encompassing</td>
<td>0 – 90 kN constantly, 9-stage adjustable, an original JD arm panel, no encompassing</td>
</tr>
<tr>
<td><strong>Cable</strong></td>
<td>Ø 13 / 300 m (400 m and more on request) Strand special 182 kN minimum breaking force</td>
<td>Ø 14 / 300 m (400 m and more on request) Strand special 211 kN minimum breaking force</td>
</tr>
<tr>
<td><strong>Hydraulic drive mechanism</strong></td>
<td>Hydrostatically driven wedge disc on planetary gear mounted with spring actuator safety brake</td>
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</tr>
<tr>
<td><strong>Hydraulic</strong></td>
<td>Closed hydraulic circuit, controlled electro-hydraulically, with additional axial piston pump</td>
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</tr>
<tr>
<td><strong>Wedge disc</strong></td>
<td>Ø 410 mm, double-grooved, also cable release, no additional cable ejector required</td>
<td>Ø 490 mm, double-grooved, also cable release, no additional cable ejector required</td>
</tr>
<tr>
<td><strong>Cable storage</strong></td>
<td>Hydr. preloaded, grooved drum core, mounted on the side of the rear</td>
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</tr>
<tr>
<td><strong>Cable spooling</strong></td>
<td>Simple, conventional, mech. spooling arm</td>
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</tr>
<tr>
<td><strong>Cable speed</strong></td>
<td>Cable speed equal to driving speed 0 - approx. 5 km/h</td>
<td>Cable speed equal to driving speed 0 - approx. 6 km/h</td>
</tr>
<tr>
<td><strong>matic control</strong></td>
<td>Sync control mode: Winds under tensile or braking load Sync control mode: Cable removal Sync control mode: Radio remote control</td>
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</tr>
<tr>
<td><strong>matic monitoring</strong></td>
<td>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 with digital display and signal</td>
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</tr>
<tr>
<td><strong>Radio remote control for remote operation</strong></td>
<td>Pull in cable, spool out cable, set speed</td>
<td>Pull in cable, spool out cable, set speed</td>
</tr>
<tr>
<td><strong>Ground clearance</strong></td>
<td>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 lane</td>
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</tr>
<tr>
<td><strong>Weight incl. wire cable</strong></td>
<td>approx. 1.650 kg</td>
<td>approx. 1.950 kg</td>
</tr>
<tr>
<td><strong>Dimensions in mm:</strong></td>
<td>Length x width x height and may differ depending on the model.</td>
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</tr>
</tbody>
</table>

We reserve the right to make changes to these specifications at any time without prior notice. The only warranty given by Haas, which will be enclosed with each product sold by HAAS. 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 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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