



JOHN DEERE



Traction aid cable Winch

„Uni Winch“

for better soil protection during hillside



HAAS - Traction Aid Cable Winch

„Uni Winch“

The  HAAS traction aid cable winch *„Uni Winch“* offers you many possibilities for use:

With the help of the  HAAS traction aid cable winch *„Uni Winch“*, most hydrostatic / continuously driven John Deere forestry machines and vehicles can be implemented for soil-conserving treatment of slopes.

- It is possible to use the traction aid technology without a natural anchor tree.
- The  HAAS *„Uni Winch“* is a system typically mounted on wheeled machines.
- Large tires ensure safe driving to the anchor point, even on the most impassable terrain
- Perfect traction even in winter thanks to chains and belts mounted on the wheels
- Ground clearance is the same as the machine to be pulled, which means very good off-road capacity
- Quick transport from operation site to operation site – thanks to approx. 20 km/h driving speed
- Save on cost-intensive large truck transports even compared to crawler trucks
- Flexible cable lengths due to capstan drive, system mounted on wheeled machines
- Perfect traction with chains and belts even in winter

The  HAAS *„Uni Winch“* traction aid cable winch can be modified with other new and used John Deere carrying machinery such as skidders or harvesters.



Forwarder



Harvester



Tracked Harvester



Skidder

Features of the **HAAS** -Traction Aid Cable Winch *„Uni Winch“*

HAAS Hydraumatic, which was exclusively developed for installation in JOHN DEERE's previous TIMBERJACK forestry machines.



Additional Hydraulic pump



Rope storage drum



The drive mechanism

HAAS Traction Aid Cable Winch: *„Uni Winch“*:

Propulsion occurs through the mounted Hydraumatic, which consists of large-scale components. This enables an up to 100% synchronized driving of the devices to be hauled. Simultaneous driving and crane operation on hauled machines is ensured with **HAAS** *„Uni Winch“* traction cable winch, even in the case of weak motor capacity. This guarantees efficient work with high productivity and a long life span whether on flat or steep terrain.

The parabolic disc is propelled by the separately installed hydraulic pump.

The cable is placed on the storage drum with the least possible pretension and the simplest cable distribution orientation. This ensures a long life span for the cable.

Durable standard components simplify procurement of replacement parts as well as maintenance, and increase machine performance.



Propulsion

The HAAS traction aid cable winch from the *„Uni Winch“* series is outfitted with robust planetary gears and exerts a constant pulling force thanks to separated propulsion and cable storage systems.

Our cable winches are sure to impress with their technically high availability throughout their lifespan.

The **HAAS** Traction Aid Cable Winch *„Uni Winch“* offers you the following advantages:

- Constant pulling force independent of cable capacity
- Flexible cable capacities, standard cables are 300 m – more on request
- The impressively large propulsion disk for protecting the wire cable also serves to eject the cable, an additional cable ejector is not needed
- Rapid cable storage for cable protection while driving on logging roads thanks to **HAAS** matic
- Weather-independent work brings more economic efficiency to your operations
- No costs for upkeep of logging roads



matic control system in conjunction radio-controlled traction aid cable winch: **FTHSW „Uni“**

incl. aerial connection and display for the supervision of the „Uni Winch“ from the pulled vehicle

 is the exclusive manufacturer of an integrated monitoring system with performance and condition monitoring which sends data via radio.

It shows fundamental machine settings on the display:

Structural stability, engine oil pressure, engine temperature, Haas *matic* operation mode via radio or just cable via radio, selected pulling force, cable spooling, cable breakage, cable length, reception strength of radio unit

Functions of radio remote control:

Engine start / stop, eject cable for fastening to the vehicle to be hauled, pull in cable for preloading, 9-level pulling power settings for cable winch operation, hydraulic tilt motion of the winch and bracing spur





Cable winch tilting device

The **HAAS** traction aid cable winch „*Uni Winch*“ with tilt combination is attractive thanks to excellent maneuverability of the attached machine on steep slopes.

Depending on the carrying machine, the height of the cable winch can be adjusted from approx. 400 mm to approx. 1.800 mm.

The **HAAS** traction aid cable winch „*Uni Winch*“ has been further improved for extreme uses, with a large tilt angle in the rear enabling improvement of ground pressure or traction in the hauled machine.

Another huge advantage is minimal contact between the cable and ground due to high cable intake.

The extremely strong cable intake roller is rigidly mounted and dimensioned according to occurring forces!

During tilt construction, maintenance and service-friendliness for the John Deere model was taken into consideration. Service points remain easily accessible, ensuring fast and comfortable work for service technicians.

The tilt winch increases the security of the attached machine as a result of the hydraulic height adjustment of the cable.

Construction enables the least ground pressure while maintaining equal traction.

Bracing spur

Thanks to a bracing spur installed in the rear, the „*Uni Winch*“ system is capable of bracing itself.

When clearing entire areas or where there is no anchor tree available, the „*Uni Winch*“ can be positioned almost without restrictions. For machines without a blade, the resilient bracing spur can also be partially used for road construction.

Thanks to the user-friendly and flexible construction of the **HAAS** traction cable winch „*Uni Winch*“, it can be used to implement various machines on slopes.

The result is high machine productivity.

Example: Machines to be hauled



In order to make harvesters, forwarders, skidders, bunchers, dozers, etc. compatible for use with the „Uni Winch“ a one-time, slight modification of the machine to be hauled is all that is required.



In no time at all, it is possible to substitute „Uni Winch“ between various machines across an entire fleet. This increases performance in all forestry operations as well as for driving.

- For example, it is now possible to move lighter-weight machines with less engine power on slopes with greater speed
- For use in difficult terrain, productivity is increased and first-class weight distribution results
- Working the hauled machine on corresponding slope gradients is possible without chains or belts
- Soil-protecting manipulation of the hauled machine is made possible during thinning as well as clear-cutting with **HAAS** Hydraulmatic



HAAS *matic* - Monitoring system

HAAS - *matic* is a reliable control system developed and maintained over many years which was already implemented in the old Timberjack models.

Its advantages:

HAAS - *matic* is absolutely operator-friendly, enabling the highest productivity during shift operations and change of drivers. Reaching around for additional buttons is not required during the work process. Integration of winch commands into FTSHW Uni radio remote control is part of the standard setting, while it is possible to save work cycles, leading to a direct performance increase for the driver and a highly comfortable workplace.



John Deere E-model cabin for forwarders or harvesters with FTSHW radio remote control for operating and monitoring the „Uni Winch“

HAAS - Traction Aid Cable Winch „Uni Winch“ on carrier type Skidder 4WD



Option: Frontblade

- Front blade for road construction

Option: Tool box

for example, mounted on the side of the front blade

Option: Front cable winch

- Front cable winch for hauling logs (only in Germany)
- Front cable winch to wind down the „Uni Winch“ for 90° implementation
(Different depending on country, speak with your John Deere dealer)

Option: THSW cable accessory

(only necessary when using front cable winch)



Option: Radio remote control Radio driving: RD

(Different depending on country, speak with your John Deere dealer)

Transmitter, receiver, charger and carrying harness, front carrying style with following functions:

- | | |
|----------------------------|---------------------------|
| Vehicle: | Cable winch: |
| - Steer left/right | - Pull |
| - Forwards/backwards | - Release |
| - Raise/lower bracing spur | - Raise/lower front blade |
| - Start/stop engine | - Gas +/- |



<i>"Uni Winch"</i>	Technical Data	 Traction Aid Cable Winch <i>"Uni Winch"</i>	
	Carrier type	Skidder JD640 / JD648 4WD	Skidder JD640 / JD648 4WD
	THSW type	07300 / 07400	09300 / 09400
   	Pulling force	0-70 kN constant, 9 levels of settings, via radio: FT ^{HSW} <i>Uni</i>	0-90 kN constant, 9 levels of settings, via radio: FT ^{HSW} <i>Uni</i>
	Steel wire cable	Ø 13 / 300 m (400 m and more on request) stranded special wire cable, 182 kN minimum breaking force	Ø 14 / 300 m (400 m and more on request) stranded special wire cable, 211 kN minimum breaking force
	Hydraulic propulsion	Hydrostatically propelled capstan disc mounted on planetary gears, with spring mechanism safety brake	Hydrostatically propelled capstan disc mounted on planetary gears, with spring mechanism safety brake
	Hydraumatic	Closed hydraulic circuit, controlled electrohydraulically, with additional axial piston pump	Closed hydraulic circuit, controlled electrohydraulically, with additional axial piston pump
	Parabolic disc	Ø 410 mm, double-grooved, also acts as cable release, no additional cable ejector needed	Ø 490 mm, double-grooved, also acts as cable release, no additional cable ejector needed
	Cable storage	Hydraulically preloaded, center of cable drum is grooved	Hydraulically preloaded, center of cable drum is grooved
	Cable spooling	Simple, classic mech. spooling arm	Simple, classic mech. spooling arm
 	Cable speed	Cable speed equal to driving speed 0 - ca. 5km/h	Cable speed equal to driving speed 0 - ca. 5km/h
	Control	Control mode: HAAS <i>matic</i> via radio Control mode: only cable via radio	Control mode: HAAS <i>matic</i> via radio Control mode: only cable via radio
	Monitoring	 Automatic monitoring of cable spooling Monitoring for cable damage with sensor Monitoring of cable length, cable beginning and cable end Monitoring of slope gradient with digital display and signal mounted in hauled machine	Automatic monitoring of cable spooling Monitoring for cable damage with sensor Monitoring of cable length, cable beginning and cable end Monitoring of slope gradient with digital display and signal mounted in hauled machine
	Cable intake height depending on carrying vehicle	ca. 400 mm - 1,800 mm	ca. 400 mm - 1,800 mm
	Weight of winch	ca. 1,400 kg including cable	ca. 1,700 kg including cable
	Weight of carrying vehicle	On request	On request
	Dimensions in mm: length x width x height Can vary from model to model	On request	On request

We reserve the right to change these specifications at any point in time without prior notification. The only guarantee issued by Haas is the written limited warranty which accompanies every product sold by Haas. Haas does not accept responsibility or liability for financial loss or physical injuries which are caused by alterations to a Haas product or installation of accessories in Haas products which are not expressly approved by Haas, if the accessories were not developed or manufactured by Haas. Not all products are available in EU countries. The manufacturer reserves the right to make alterations or measurements without any obligation to undertake these alterations to previously manufactured machines.

HAAS - Traction Aid Cable Winch



„Uni Winch“

on carrier type Harvester 6WD



Option: Front blade

- Front blade for road construction
- with integrated bracing spur

Option: Rear cable winch

- Rear cable winch for hauling logs (only in Germany)
- Rear cable winch to wind down the „Uni Winch“ for 90° implementation
(Different depending on country, speak with your John Deere dealer)

Option: Radio remote control

Radio driving: RD

(Different depending on country, speak with your John Deere dealer)

Transmitter, receiver, charger and carrying harness, front carrying style with following functions:

Vehicle:

- Steer left/right
- Forwards/backwards
- Raise/lower bracing spur
- Start/stop engine

Cable winch:

- Pull
- Release
- Gas +/-



<i>"Uni Winch"</i>	Technical Data	 Traction Aid Cable Winch <i>"Uni Winch"</i>	
	Carrier type	Harvester TJ1270 6WD alternatively Harvester JD1270 6WD	Harvester TJ1270 6WD alternatively Harvester JD1270 6WD
	THSW type	07300 / 07400	09300 / 09400
 JOHN DEERE	Pulling force	0-70 kN constant, 9 levels of settings, via radio: FTSHW <i>Uni</i>	0-90 kN constant, 9 levels of settings, via radio: FTSHW <i>Uni</i>
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	Cable intake height depending on carrying vehicle	ca. 600 mm - 2,400 mm	ca. 600 mm - 2,400 mm
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	Weight of carrying vehicle	On request	On request
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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 daily 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, 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 ambition!



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