



# Traction aid cable winch

*„Three point winch“*

for mount on a agricultural tractor  
for use in the agriculture, forestry and construction



**INNOVATION**



# HAAS Traction aid cable winch

## „Three point winch“

The HAAS Traction aid cable winch „Three point winch“ (TPW) provide you the following advantages:

The HAAS Traction aid cable winch „Three point winch“ can mount on the most of agricultural tractors for conservation on steep slope.

- It is possible to use the traction aid technology without a natural anchor tree
- The HAAS Traction aid cable winch „Three point winch“ is a system typically mounted on a agricultural tractor
- 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
- max. 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 – according to agricultural tractor type and registration is a driving speed approx. 60 km/h possible
- Save on cost-intensive large truck transports even compared to crawler trucks
- Flexible cable lengths due to capstan drive, system mounted on wheeled machines

Two ways conception:

Attaching of the TPW in the rear hydraulic to pull and brake different agriculture, forestry and construction machines

Attaching of the TPW in front hydraulic to pull and brake the tractor for carrying machinery of the TPW front and e.g. a Mulcher in the rear

Flat design for a clear view of the road ahead

The HAAS Traction aid cable winch „Three point winch“ can be also modified on a used agricultural tractor.



Forwarder



Harvester



Tracked Harvester



Skidder

# Features of the HAAS Traction aid cable winch *„Three point winch“*

HAAS - Hydraumatic, which was exclusively developed for installation in HAAS Traction aid cable winches.



HAAS Traction aid cable winch „GEN2“ *„Three point 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 *“TPW”* 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 *“Three point 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 *„Three point winch“* provide 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
- Weather-independent work brings more economic efficiency to your operations
- No costs for upkeep of logging roads



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

incl. aerial connection and display for the supervision of the „Three point winch“ from the pulled vehicle

HAAS 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:

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:

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 and antenna height adjustment.



# HAAS Traction aid cable winch tilting device with integrated bracing spur and folding, slope adjustment teleskop antenna for transport



## Cable winch tilting device

The Traction aid cable winch „*Three point winch*“ with tilt combination is attractive thanks to excellent maneuverability of the attached machine on steep slopes.

The traction aid cable winch „*TPW*“ 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!

Service points remain easily accessible, ensuring fast and comfortable work for service technicians.

The „*Three point winch*“ increases the security of the attached machine as a result of the hydraulic height adjustment of the cable.

## Bracing spur

Thanks to a bracing spur installed in the rear, the „*TPW*“ system is capable of bracing itself. When clearing entire areas or where there is no anchor tree available, the „*TPW*“ 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 aid cable winch „*Three point 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, trucks, etc. compatible for use with the „TPW“ 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 “TPW” 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 on 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 - Hydraulic



## - Monitoring system

HAAS - *matic* is a reliable control system developed and maintained over many years, which is expanded for the safety application two concatenate machines.

### Your benefits:

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 TPW 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. Due to the twofold monitoring, maximum safety is given.

John Deere tractor cabin with FTSHW radio remote control for operating and monitoring the „TPW“



# HAAS Traction aid cable winch

*„Three point winch“*



**Option: Front ballast  
with integrated tool box**

- in agreement

**Option: hydr. top link rear which is  
radio controlled**



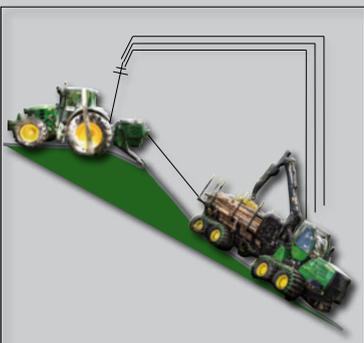
**Option: Front cable winch**

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



**Option: integrated bracing spur which is  
radio controlled**

**Option: hydr. height adjustment  
of the antenna**



**Option: double safety Monitoring**

- see description page 10

**Option: protective grating  
mech. folding**

# HAAS Traction aid cable winch

*„Three point winch“*



## Option: **TACW cable accessory**

(only necessary when using front cable winch, Mulcher etc.)

## Option: **2 hydr. guy winch**

**mounted in the rear of the TPW**

- with cable  $\varnothing 14 \times 50\text{m}$

## Option: **2 mech. guy winch**

**with handle barrier mounted in the rear of the TPW**

- with cable  $\varnothing 14 \times 50\text{m}$



## Option: **Pulley**

- to work in not direct tension of the pulling machine
- to increase the traction to 18to



## Option: **Radio remote control**

### **Radio driving: RD**

The operator lever and the buttons for the radio driving are equipped into the transmitter of the FTHSW  
(Different depending on country, speak with your John Deere dealer)

Transmitter, receiver, charger and carrying harness, front carrying style

# HAAS Traction aid cable winch

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double safety Monitoring

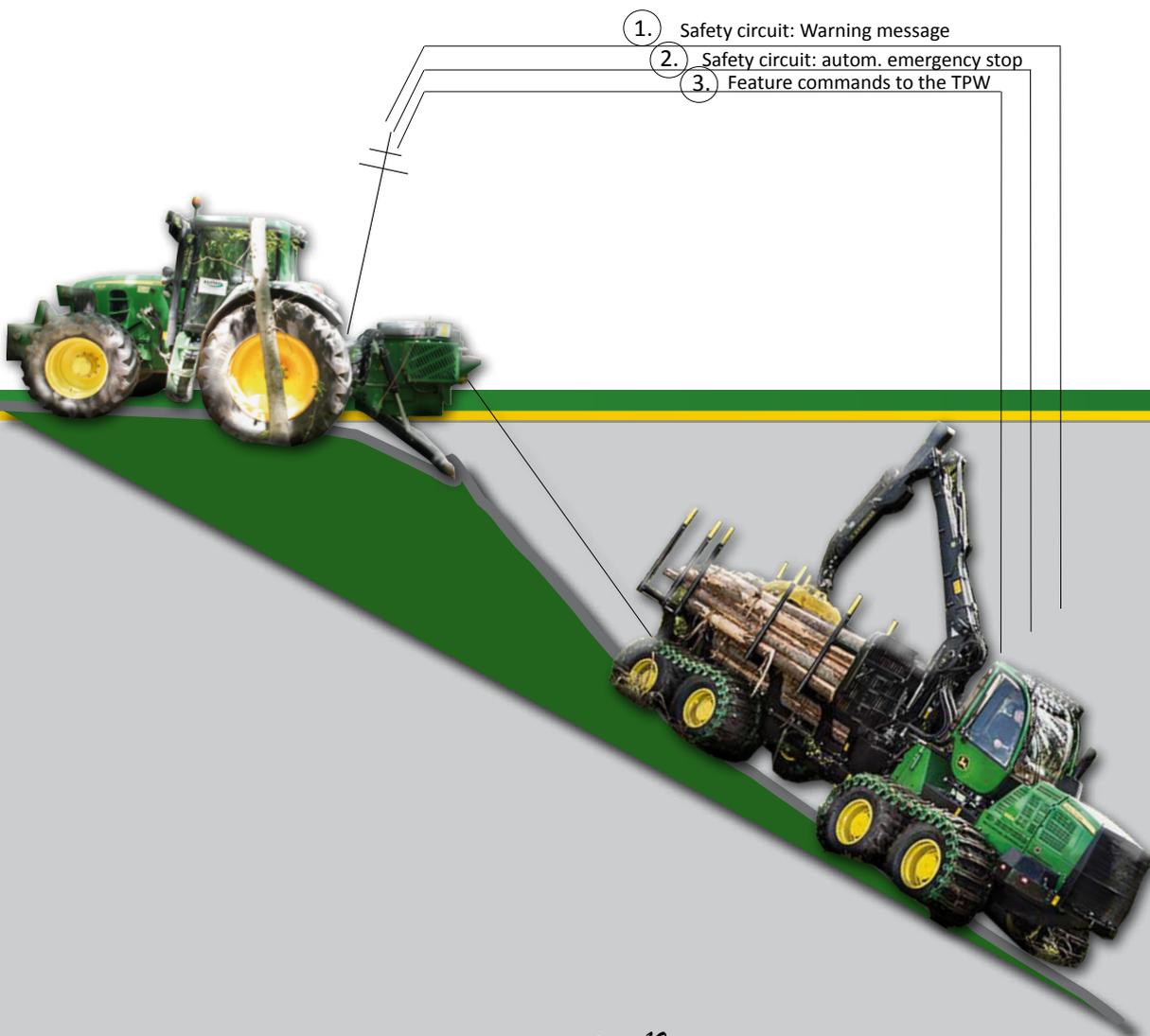
## 1. Safety circuit: Warning message

Acoustic and visible warnings on the transmitter for the driver

## 2. Safety circuit: Autom. emergency stop

## 3. Feature commands to the TPW

1. Winch funktion
2. Haas *matic*
3. bracing spur
4. Hydr. top link
5. telescopic Antenna



"Three point winch"	Technical Data	 <b>Traction aid cable winch</b> <i>"Three point winch"</i>
	Carrier type 150 - 220 PS	e.g. John Deere 7430 incl. front elevator (or other)
	TACW Type	09300 / 09400
 <b>JOHN DEERE</b>	Pulling force	0-90 kN constant, 9 levels of settings, via radio: FTHSW <i>TPW</i>
	Steel wire cable	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
	Hydraumatic	Closed hydraulic circuit, controlled electro-hydraulically, with additional axial piston pump
	Parabolic disc	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
	Cable spooling	Simple, classic mech. spooling arm
	Cable speed	Cable speed equal to driving speed 0 - ca. 5km/h
	Control	Control mode: HAAS <i>matic</i> via radio
	Control	Control mode: only cable via radio
	Monitoring	Monitoring the slope with Digital display and signal mounted in the pulled machine
	Monitoring	Double monitoring between the winch carrier device and the machine to be pulled with stop function
	Monitoring	Monitoring of cable demange with Sensor
	Monitoring	Automatic monitoring of cable spooling
	Cable intake height depending on carrying vehicle	ca. 500mm - 1.100mm
	Weight of winch	ca. 2.800kg - 3.300kg
	Weight of carrying vehicle	On request
	Dimensions in mm: length x width x height Can vary from model to model	1.770 x 1.757 x 1.334 mm Nur TPW 1.770 x 2.320 x 1.334 mm Mit Abstützsporn

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.



*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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