



HAAS

Traction aid cable winch *„Three point winch“*

For mounting on agricultural tractors for use in agriculture, forestry and construction.

INNOVATION



HAAS Traction aid cable winch „Three point winch“

The HAAS Traction aid cable winch „Three point winch“ (TPW) offers you many possible applications:

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 winch „Three point winch“ is a system typically mounted on a agricultural tractor.
- Safe driving due to large tyres to the anchorage, even in the roughest terrain.
- Perfect traction even in winter by mounting chains and belts on the the wheels.
- Maximum ground clearance is equal to the machine to be towed, therefore very good off-road mobility.
- Fast movement from site to site - depending on the type of tractor and its
Depending on the tractor type and approval, a driving speed of up to 60 km/h (37 mph) is possible.
- Cost-intensive low-loader transports can be saved, even compared to crawler tracks.
- Flexible rope lengths due to capstan drive, system mounted on wheeled machines.

Two ways conception:

Attachment of the TPW in rear hydraulics for pulling and braking various agricultural, forestry and construction machines.

Attachment of the TPW in front hydraulics for towing and braking the tractor as a Carrier of the TPW at the front and e.g. a mulcher at the rear.

Flat design for clear forward visibility when driving on the road.

Die HAAS Traction aid cable winch „Three point winch“ can also be fitted to used tractors.



Forwarder



Harvester



Tracked Harvester



Skidder

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

HAAS-Hydraumatic was developed exclusively for installation on HAAS auxiliary traction winches.



HAAS Traction aid cable winch „GEN2“ *„Three point winch“*:

The drive is provided by the additionally mounted Hydraumatic, which consists of large-dimensioned components.

This allows up to 100% simultaneous synchronous driving of the implements to be pulled.

Simultaneous driving and working with the crane of the implements to be pulled is ensured, even with low engine power.

This ensures efficient work with high productivity and a long service life on flat as well as steep terrain.

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

The rope is laid on the storage drum with the lowest pre-tension and simplest rope distribution device.

This gives the rope a long service life.

Robust standard components simplify spare parts procurement, maintenance and increase machine performance.



The drive:

The HAAS Traction aid cable winch *„Three point winch“* series is equipped with 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.

The HAAS Traction aid cable winch „TPW“ offers the following advantages:

- Constant tractive force regardless of rope capacity.
- Flexible rope capacities, standard are 300 m - more on request.
- The impressively large drive sheave for protecting the wire rope also serves to eject the rope. rope ejector, there is no need for an additional rope ejector.
- Working regardless of the weather brings more profitability to your business.
- No costs for forest road repair.



matic- Control system in conjunction with radio-controlled traction aid cable winch: **FTHSW „TPW“**

incl. antenna connection and display for monitoring the „Three point winch“ from the towed 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 applications. The straight alignment of the PTO shaft can be adjusted by means of the support spur.

Another great advantage is the low contact of the rope with the ground due to the high rope pull.

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

The good accessibility of the service points is maintained, and the service technicians can work quickly and comfortably.

The „*Three point winch*“ increases the safety of the hitched machine, which also results from the hydraulic height adjustment of the winch.

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



HAAS matic - Monitoring system

HAAS - matic is a reliable control system that has been further developed and proven for many years and has been extended for the safe use of two connected machines.

Your advantages:

HAAS - matic is absolutely user-friendly and thus enables maximum productivity in shift operation and during and when changing drivers.

There is no need to reach for additional keys during the work process. is no longer necessary. The integration of the winch commands into the radio remote control FTFSW TPW is standard, and work cycles can be saved, which directly improves the operator's performance and makes for a highly comfortable workplace. The double monitoring system ensures maximum safety.



John Deere tractor cabin with FTFSW 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**

- 1.500mm



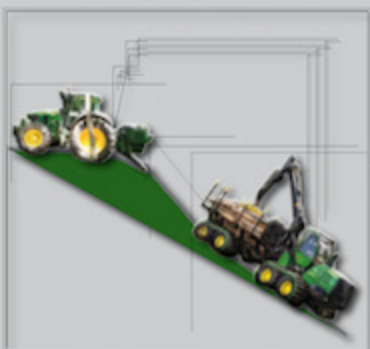
Option: Front cable winch

- 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 Ø14 x 50m

Option: 2 mech. guy winch with handle barrier mounted in the rear of the TPW

- with cable Ø14 x 50m



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

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

HAAS Traction aid cable winch „Three point winch“ double safety Monitoring

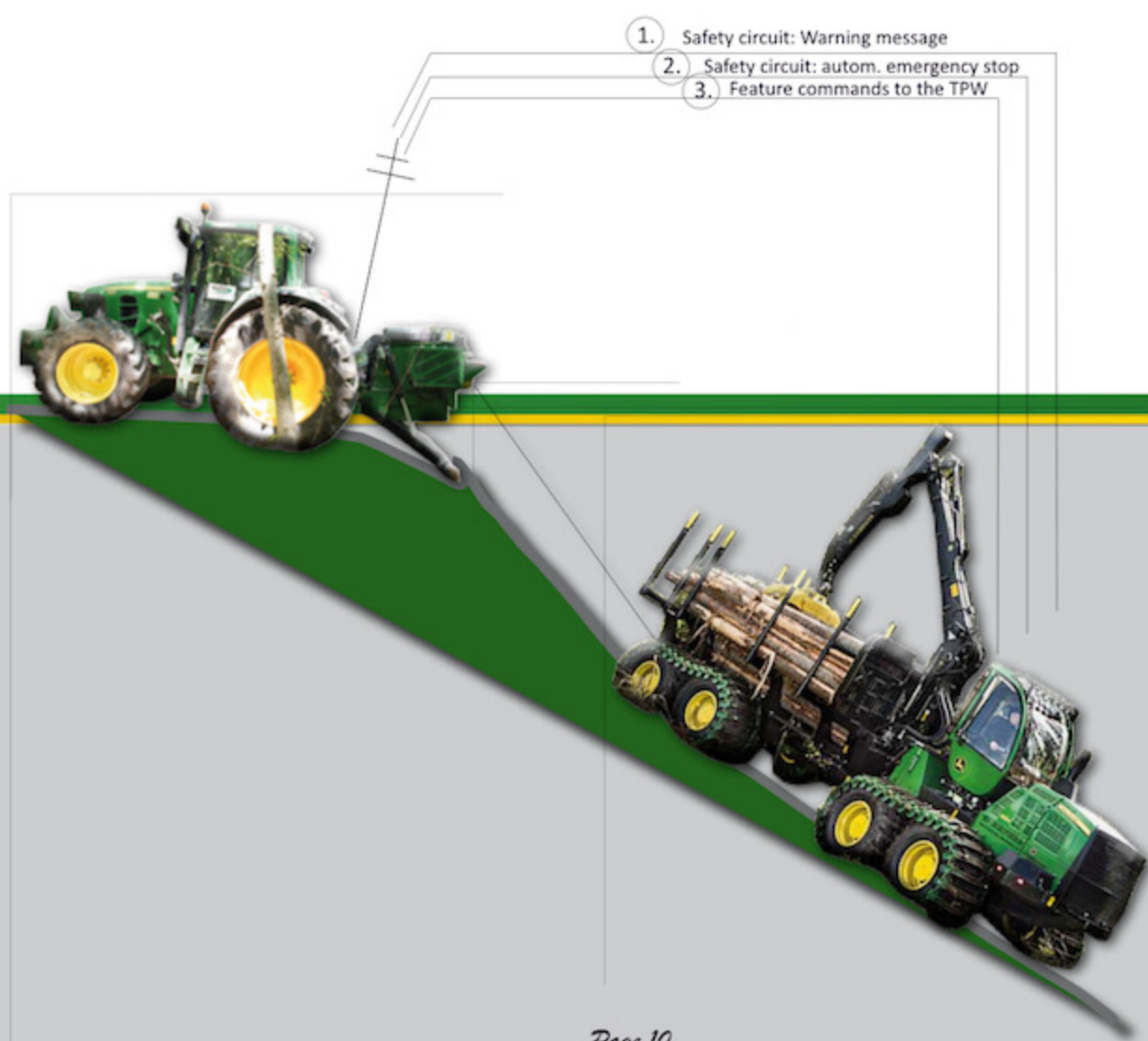
1. Safety circuit: Warning message

Acoustic and visible warnings on the transmitter for the driver

2. Safety circuit: Autom. emergency stop

3. Feature commands to the TPW

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



"Three point winch"	Technical Data	 Traction aid cable winch <i>"Three point Winch"</i>
	Carrier type 150 -220 PS TACW Type	e.g. John Deere 7430 incl. front elevator (or other) 09300 / 09400
 JOHN DEERE	Pulling force	0-90 kN constant, 9 levels of settings, via radio: FTSHW <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
	 <i>matic</i> Control	Control mode: HAAS <i>matic</i> via radio Control mode: only cable via radio
	 <i>matic</i> Control	Monitoring the slope with Digital display and signal mounted in the pulled machine Double monitoring between the winch carrier device and the machine to be pulled with stop function Monitoring of cable damage with Sensor 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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