



TETHERED PERFORMANCE

PONSSE Synchronwinch

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PONSSE traction assistance winch helps achieving high productivity in steep ground operations. It allows operating the same machines in flat and steep work sites with no need for additional machinery or methods. PONSSE Synchronwinch preserves soil from rutting and erosion, saves fuel and reduces stress in drive transmission components.



PONSSE SYNCHROWINCH

PONSSE Synchronwinch allows effective logging in areas where previously only expensive and slow special logging methods have been used. The winch speed is automatically synchronized to machine driving speed so that the operator doesn't need to operate or adjust it during working. Cable tension can be set and winch can be operated from a remote control unit, making it easy to hook the cable to e.g. a tree or a stump uphill. Optional tiltable loader makes loader working efficient and easy.

BENEFITS

1. Traction assistance winch helps to main **high productivity** also in steeper terrain because of:
 - Forwarding is possible to both directions (no need for separate detour, full loads).
 - Due to the tiltable seat the driver can keep a relaxed sitting position while working on steep slopes. This makes the work ergonomical and less tiring.
 - In case of machine tipping or rolling over operator is safe (cabins fulfill international standards for safety).
2. Traction assistance winch helps to **widen the area of operation** - same machines can handle also steeper places. No need to employ additional machinery or other harvesting methods (like cable skidders, manual felling) in the same logging site.
3. With traction assistance, winch **energy efficiency** is approx. 80%; because of direct transmission of traction force to movement and no slip. No slipping means mitigated impact to soil and lower erosion risk by reducing track formation. Lower fuel consumption and decreased transmission part wearing are pros of traction assistance compared to operating without winch in slopes.
4. **Investment cost** compared to fully mechanized cable yarding systems is remarkably lower. Traction assistance logging has lower transporting costs (two machines vs. four machines) and system involves only two operators at the same time.

PONSSE Synchronwinch is available for PONSSE Ergo and Bear harvesters and Buffalo, Elephant and ElephantKing forwarders.

HARVESTER

MEASUREMENTS	
Length	810 mm (32 in)
Width	1,600 mm (63 in)
Height	1,450 mm (57 in)
Weight	from 1,950 kg (4,299 lbs)*

* additional weight compared with standard harvester

FORWARDER

MEASUREMENTS	
Length	1,870 mm (74 in)
Width	810 mm (32 in)
Height	640 mm (25.2 in)
Weight	from 1,900 kg (4,189 lbs)*

* additional weight compared with standard forwarder

CABLES

Cable type:	ø14.5 mm, 350 m length, high compacted construction
Min. required tensile strength:	200 kN (20 tons)

TENSILE FORCE

0 up to 100 kN (0 - 10 tons) continuously variable and consequently constant tensile force.

INSTALLATION

Installation in front of the engine of the harvester with.

INSTALLATION

Fix installation on the forwarder's rear frame. The winch has integrated load bunks.