

SYNCHROWINCH

PONSSE

# TETHERED PERFORMANCE





# PONSSE SYNCHROWINCH

PONSSE traction assistance winch helps achieve 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 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 the machine driving speed so the operator doesn't need to operate or adjust it during normal work. 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. Tilttable crane base options makes harvesting and forwarding more efficient on slopes.

## BENEFITS

- 1. Traction assistance winch helps to maintain high productivity** also in steeper terrain because of:
  - Forwarding is possible to both directions (no need for separate route with full loads).
  - Due to the tilttable seat the driver can keep a relaxed sitting position while working on steep slopes. This makes the work ergonomical and less tiring.
- 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.
- 5. Automatic Steep Slope Brake (ASSB)** is an operator assistive function, which makes working in demanding conditions more effective. Automatic Steep Slope Brake is designed to help the operator in daily work by helping to keep the machine on place even in steep slopes. It gives the operator more time to focus on efficient harvesting.



PONSSE Synchronwinch is available for PONSSE Cobra, Ergo 8-wheeler and Bear harvesters and Buffalo, Bison, Elephant and Elephant King forwarders.





# PONSSE SYNCHROWINCH

## 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

### INSTALLATION

Installation in front of the engine of the harvester.

Fixed installation inside the forwarder's rear frame.

### CABLES

Cable type:  $\varnothing$ 14.5 mm, 350 m length, high compacted construction

Min. required tensile strength: 200 kN (20 tons)

### TENSILE FORCE

Harvesters 0 up to 70 kN (0-7 tons), forwarders 0 up to 100kN (0-10 tons), continuously variable and consequently constant tensile force.



## A LOGGER'S BEST FRIEND SINCE 1970

**FOREST MACHINE** entrepreneur Einari Vidgrén founded Ponsse in 1970. Today, Ponsse is one of the world's leading forest machine manufacturers, and its customer oriented operations are still guided by the wishes and needs of loggers.

**THE PONSSE PRODUCT RANGE** covers all sustainable harvesting solutions including harvesters, forwarders and harvester heads as well as information systems and training technology. We design and manufacture all PONSSE products and their key components in-house. This guarantees that we remain at the forefront of development and that our products meet the specific requirements of forest professionals. PONSSE forest machines are in use in all key areas of industrial harvesting in the world, more than 40 countries.



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