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# PONSSE 10w

**A CUSTOMISED SOLUTION FOR  
TIMBER HARVESTING ON SOFT TERRAIN**



# PONSSE 10w – RESULT MAKER FOR SOFT TERRAIN

PONSSE 10w is an efficient and reliable solution that enables productive harvesting on soil with poor load-bearing capacity using conventional machines –saving soil and the environment around the year.



With the emergence of international climate programmes, the rising cost of fuel, and the lack of wood, energy and pulp producers are becoming increasingly interested in using local wood. Plenty of wood is available on peat land and other terrain with weak load-bearing capacity; however, climate change has made their effective utilisation very challenging.

The wood processing chain has desperately needed a solution enabling comprehensive and environmentally friendly exploitation of wood growing on soft terrain.

**Ponsse's solution enables the utilisation of wood that grows on soil with poor carrying capacity.**

Ponsse instructed its product development department to explore the mechanical solutions. As a result of the work, PONSSE 10w, the missing link in productive timber harvesting chain, was born. Using conventional machinery

and 10w, large-scale timber harvesting is cost-efficient and environmentally friendly.

The PONSSE 10w solution is based on two simple and reliable ideas: a third pair of wheels and specially designed tracks are mounted behind the rear bogie. Together, these transform the forwarder into a ten-wheel forwarder with a very wide ground contact area that easily moves loads, even in boggy stands.

### **PONSSE 10w increases the utilisation rate of current machinery**

With the efficient and reliable operation model developed by Ponsse, ordinary machines can be used for harvesting trees growing on peat land and other soft terrain. PONSSE 10w enables productive harvesting on soft terrain – with full loads. It is a customised solution with environmentally friendly features that represent the cutting-edge of transportation solutions.

### **The ten-wheel special-track**

10w solution is complete once an extra pair of wheels is attached behind the rear bogie and the rear bogie entity comprised of three pairs of wheels is equipped with 10w tracks.

A standard machine quickly transforms into an agile 10-wheeler, ready to carry heavy loads!

- The forwarder's carrying capacity is in 100% use: the forwarder can be fully loaded, and that means fewer trips.
- Minimised surface pressure, thanks to a widened area for tracks and wheels touching the ground.
- Good turning radius also on soft terrain.
- Tracks that are appropriate for the purpose and increased area touching the ground also improve mobility.
- Crossing the ditches easily without breaching them.

### **Optimal weight distribution**

PONSSE 10w has been measured to distribute weight evenly between the machine's front and rear frame.

- The machine remains stable during loading and unloading.
- Increased operator comfort during working and driving.
- Minimal sideward swinging.

### **More surface area**

Special tracks provide the forwarder with increased area touching the ground.

- Loads are stable.
- Reduced rolling resistance and sinking because the track is always at an optimal angle to the ground.
- Better grip improves mobility on various terrain and increases speed.

### **Solution that respects the environment**

Full loads transport neatly; fewer trips than before.

- Lower fuel consumption.
- Lower emissions.
- Significantly less damages to the trees and ground.

### **Improved efficiency in the wood procurement chain**

PONSSE 10w is a tonic to the entire forest industry.

- Pulp and energy production will get enough wood.
- Improved operational preconditions for the wood procurement chain.
- Higher incomes for forest owners.
- Forest machine entrepreneurs can use their machinery all year round.



**The ten-wheeler can be used on**

- Peat land, soil with poor load-bearing capacity, and soft terrain
- When pressure on soil should be minimised

### Ten points!

PONSSE 10w is a remarkable development in wood harvesting on soil with poor load-bearing capacity. The solution is simple, but it offers a number of new earning possibilities in the forest industry for forest owners, forest machine and transportation entrepreneurs, operators, and the wood processing and energy industry.

### An easy investment

PONSSE 10w, based on a simple and reliable technique, is easy to put into use.

- Cost-efficient and ready-to-use solution enabling the harvesting on soil with poor load-bearing capacity without separate forest machine investments.
- Expands the use of present machinery and enables additional income for forest owners and machine entrepreneurs.
- Gives work to the entire wood procurement chain: prolonged harvesting season enables efficient full-year exploitation of capacity.
- Lowers fuel costs and minimised emissions.
- Contact our sales department and find out how the solution suits new and used PONSSE machines!

### No damage to the ground

The extra pair of wheels and specially designed tracks essentially minimise the surface pressure on the ground caused by the load.

- Improved carrying capacity minimises slumps and soil compaction – and not only on peat land.
- Fewer trips, reducing erosion to the soil as the size of loads can be kept at the normal level.

### Handy to use

It is easy for the operator to use the PONSSE 10w.

- After the first installation, PONSSE 10w is easy to install and change, also in field circumstances.
- The extra pair of wheels and special tracks stabilise the functioning of the machine.
- Handling is easy – the forwarder will not get stuck.
- Improves the forwarder's ergonomics on soft terrain: the broad tracks and auxiliary pair of wheels reduce the movement of the load.
- Thanks to the good grip and low rolling resistance, loads are easily moved on challenging terrain.
- Turns and moves as flexibly as the base machine.



**PONSSE 10w is an environmentally friendly solution expanding the use of wood harvesting machinery and its annual service time.**

### PONSSE 10w developed with machine entrepreneurs in mind

The starting point for product development was to enable wood harvesting on soil with poor load-bearing capacity, and to operatively link it with other harvesting operations. Instead of developing a new forest machine model or a separate solution, Ponsse wanted a practical solution that forestry professionals could use to expand the use and annual service time of their existing wood harvesting equipment.

Product development has focused on the improvement of the features of existing machinery so as to keep the step to expanding harvesting as short as possible and to avoid machine investments becoming a bottleneck for harvesting.

The goal was to improve the economic possibilities of harvesting companies and to facilitate working with machines on challenging terrain. The guiding principle was to find a simple and cost-efficient operating model.

While developing the solution, Ponsse cooperated with its customers, the forest industry and leading experts in research institutions.

The PONSSE 10w's soil-saving features have been verified in several impartial field tests.