

# PRODUCT NEWS

2010

# PONSSE FOX



**PONSSE ERGO 8W**



**NEW PONSSE BUFFALO**



**MULTI-STEMMING**





# PONSSE FOX

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## THE NEW PONSSE FOX OVERCOMES DIFFICULT AND SOFT HARVESTING CONDITIONS

The new PONSSE Fox harvester combines the latest technology and reliable basic solutions to produce an efficient entity. Fox is a harvester responding to current harvesting challenges. The completely new and powerful PONSSE C22 crane has an extensive reach and, thanks to its hydraulic parallel function, is easy to use. The eleven-metre reach, easy manoeuvrability and two slewing motors make working with the machine extremely effective. The crane has been placed close to the cabin to improve visibility. Due to its eight-wheel design, PONSSE Fox's stability makes working even in hilly terrain extremely comfortable. As an eight-wheeler, the surface pressure of the new harvester is extremely low, making it particularly suitable also for soft terrains.



# PONSSE ERGO 8W

## OPTIMAL HARVESTING EVEN IN THE MOST DEMANDING TERRAINS

A very effective and ergonomic harvester, PONSSE Ergo has achieved a stable position in the sector. The effective yet economical Mercedes-Benz engine, the dual circuit hydraulic system, the sturdy and service-friendly structure and the best ergonomic features guarantee that the PONSSE Ergo will continue to be the most efficient upper middle class harvester on the market.

As an eight-wheeler, harvesting with the PONSSE Ergo 8w is particularly effective on steep and demanding terrains. The Ergo 8w can be equipped with balanced bogies to improve its hill climbing capacity. The surface pressure generated by the machine is lower than that of a six-wheeler, ensuring better carrying capacity on soft soil.









## PONSSE BEAR WITH THE C6 CRANE

The heavy-duty PONSSE Bear harvester is now available equipped with the new PONSSE C6 crane. C6 is a member of Ponsse's popular sliding boom crane product family and shares its more than 20 years of experience. The benefits of a sliding boom crane are especially evident on steep hills and when working at demanding regeneration felling sites with the H8 harvester head.

PONSSE C6 technical specifications:

Slewing torque (gross)	55 kNm
Tilt angle	+20°
Crane turning angle	250°
Lifting torque (gross)	310 Nm
Reach	10 m
Lifting capacity with full reach	1,500 kp/10 m

## PONSSE BEAVER & C22 CRANE

### PRODUCTIVITY & EFFICIENCY

The efficient and highly productive all-round machine PONSSE Beaver has traditionally been equipped with a PONSSE C2 or C33 crane. Based on the good experiences with PONSSE Fox, PONSSE Beaver harvesters are now available with the C22 crane. The crane's reach with the H53e harvester head is 11 metres and with the H6 harvester head 10.3 metres.

The PONSSE C22 crane has proven easily controllable at thinning sites and during multi-stemming, and the drivers consider the machine easy to operate. The geometry of the parallel movement has proven good with regard to its efficiency while the fuel consumption of the machine has also decreased.

PONSSE C22 technical specifications:

Slewing torque (gross)	35 kNm (in Beaver)
Tilt angle	+/-15°
Crane turning angle	250°
Lifting torque (gross)	190 kNm
Reach	11 m (H53e) and 10.3 m (H6)
Lifting capacity with full reach	1,100 kp/11 m





## NEW BUFFALO

Ponsse introduces a renewed version of its Buffalo forwarder. The new Buffalo forwarder is based on Ponsse's familiar and reliable solutions. A Mercedes-Benz 906LA engine, Sauer's hydrostatic transmission and 44° steering angle guarantee ultimate efficiency. In addition, Buffalo's productivity is guaranteed by a strong and reliable K90+ or K100+ loader, a spacious cabin, a variety of load space alternatives (including variable load area VLA), a two-part rear frame and a handy load area extension.

The new PONSSE Buffalo has new machined front and rear frames which have been designed paying special attention in ease of service. A new cast middle pivot, a reliable and sturdy

cylinder-powered frame lock and new reinforced bogies ensure that the reliable Buffalo will serve you for a long time. Furthermore, the new Buffalo includes a coloured forwarder display (except in machines equipped with Opti), a new cabin air conditioner system and several other new features that make Buffalo easier to service and more comfortable to use.

New additional equipment available for Buffalo include an electronic cabin tilt pump, log gate height adjustment, a bulldozer blade with floating function, a quick-release rear frame extension and a quick-release log gate as an option for tilting cranes. The new Buffalo will be available in serial production starting in February 2011.

## PONSSE BUFFALO ADS

### ACTIVE DAMPING SYSTEM FOR FORWARDERS

Ponsse's unique patented active damping system effectively eliminates vibration caused by uneven terrain and keeps the cabin in a vertical position. The system enables fast manoeuvring of the six-wheel machine and offers the operator excellent working conditions by minimising any swinging move-

ment of the cabin. The system's stabilisation point is as low on the swinging front axle as possible in order to effectively minimise the cabin's sideways movements on uneven terrain. Combined with the correctly placed stabilisation point, the intelligent suspension system increases the ergonomics of the six-wheel PONSSE Buffalo to a level unattainable by regular cabin suspension systems.

## PONSSE FERTILIZER SPREADER

PONSSE Fertilizer Spreader is a unit designed for spreading fertilizer in forest. The Fertilizer Spreader can be installed in a forwarder. It includes a spreader with a 3,000-litre tank and a load space that can carry six 650 kg bags of fertilizer. The spreader is electrically and hydraulically operated, and it is controlled by a control system developed by Ponsse. The amount of fertilizer is automatically adjusted based on driving speed. There is a special lifting hook for handling fertilizer bags, and the tank includes a cutting blade for opening the bags. The compartmental structure of the load space enables working with a load on steep hills as well as on uneven terrain. Even in the forest, a forwarder can be easily converted into a fertilizer machine and back into a forwarder in about 15 minutes.

Forest machines and other working machines equipped with attachments can also be used for other purposes. The attachments enhance the machine's usability and thus improve its utilisation rate. With the attachments, you can make use of your older machine for other operations instead of harvesting, such as tending of young stands or soil cultivation. Attachment solutions also make it possible to use PONSSE

products, such as harvester heads or loaders, with other manufacturers' forest and working machines. For more information, please contact PONSSE sales or our attachment team.







## PONSSE H6 HARVESTER HEAD

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### SUITABLE ALSO FOR SMALL TREE SITES

Similar to the PONSSE H7 and H8 models, the PONSSE H6 harvester head combines excellent geometry, powerful feed and cutting, precise measurement and versatile adjustments. As a result, the harvester head is optimally efficient and economical in every situation.

The PONSSE H6 is highly applicable to versatile use, ranging from thinning sites with small trees to regeneration felling. The harvester head's large opening and precise controls make working easy. Thanks to wide tilt movements, combined with quick and powerful feed and cutting, the PONSSE H6 is a highly reliable harvester head on all types of sites.

The PONSSE H6 can be installed in PONSSE Fox, PONSSE Beaver and PONSSE Ergo harvesters. The H6 can also be equipped with a multi-stemming feature, which clearly speeds up harvesting and improves the result at sites with small trees. The multi-stemming feature can be made more effective by combining it with special feed roller and measuring wheel solutions. It does not deteriorate the harvester's ability to handle single trunks.





Economical harvesting of energy wood requires effective and productive methods. PONSSE Bioenergy products make harvesting of energy and small wood flexible and effective. Energy wood can be harvested simultaneously with industrial wood, felled separately, or the harvesting equipment can be moved to be used solely for industrial wood harvesting.



# MULTI-STEMMING

## EFFICIENT TECHNOLOGY FOR HARVESTING OF SMALL-DIAMETER TREES

The multi-stemming feature of harvester heads is the solution for harvesting partially delimbed wood, undelimbed pulpwood and energy wood: industrial and energy wood can be harvested simultaneously, thus increasing the yield. There are several alternatives available: all standard PONSSE harvester heads of different sizes are suitable for multi-stemming either as such or equipped with minor optional equipment. The size of the harvester head should be selected based on the size of the trees to be handled: a strong harvester head is naturally able to hold larger trunks during multi-stemming. On smaller diameter trees, a smaller and lighter harvester head can be used. The PONSSE EH25 energy wood harvester head is specially designed for sites where feeding and delimiting are not needed. A load scale is recommended for the forwarder for weighing the timber.







## TIMBER WEIGHING

### PONSSE LOADOPTIMIZER LOAD SCALE

The PONSSE LoadOptimizer load scale is the perfect solution for weighing loads: it weighs, sorts, saves and manages load data automatically while working. The PONSSE LoadOptimizer can also be used as an official timber measuring system. Load data and load logs can be transferred from LoadOptimizer to the OptiForwarder system. The data can also be saved on a USB memory drive or printed directly on paper.

Multi-stemmed timber is measured by PONSSE LoadOptimizer automatically during unloading, and the weighing can be done by batches and timber assortments. Timber assortments are selected with selector switches installed in the control handles.

In addition to PONSSE loaders, the PONSSE LoadOptimizer can be installed in the majority of other loaders.

## VARIABLE LOAD AREAS

### FLEXIBILITY FOR INDUSTRY AND ENERGY WOOD TRANSPORTATION

Ponsse's mechanically or hydraulically variable load areas bring a new type of flexibility and efficiency to harvesting of different sites. The variable load area makes industrial wood harvesting easier and increases the load volume in energy wood harvesting by bringing harvesting productivity to a new level, as the machine capacity is better utilised. The PONSSE LoadOptimizer load scale guarantees properly-sized loads and provides accurate reports on the transported volumes.

The hydraulically variable load area can be controlled by operating switches directly from the cabin while working. When lighter energy products are transported, bigger loads can be loaded into the extended space, making better use of the machine capacity. During transportation of timber, the load's centre of gravity can be lowered by expanding the load space. The hydraulically variable load areas are available for PONSSE Elephant, Buffalo and Elk forwarders. Variable load areas are always delivered with PONSSE Load Optimizer load scale.







## **PONSSE SIMULATOR**

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The PONSSE Simulator represents state-of-the-art forest machine technology. Designed for forest machine training, the simulator is available with both harvester and forwarder functions, and, in addition to forest machine work, training can also be provided for PONSSE's Opti and OptiControl measuring and control systems. A light desktop version of the forwarder simulator is also available for driver training without the machine control system. Forest machine simulators are ideal for use by companies and educational institutions engaged in the forest sector. The simulators have been programmed with several ready-made exercises. The students can increase the difficulty of the training as they learn. It is also possible to proceed straight from harvesting to forwarding the logs at any time.

## **VERSATILE OPTI – VERSION 4.710**

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The Opti information system is the core of PONSSE forest machines. It ensures efficient and precise harvesting. A new version of the Opti software, 4.710, will soon be available. It covers harvesters and forwarder solutions.



## MULTI-STEMMING AND REPORTING

Developed by Ponsse, the multi-stemming method is a method where bundles of timber are harvested using automatic opening and closing motions of feed rollers and blades. It has been a standard feature of Opti4G since the version 4.705. The new version 4.710 includes several features that make handling bundles easier. The more versatile OptiReport provides clear reports in compliance with StanForD for timber volume as single trunks and as multi-stemming.

## FRONT KNIFE MEASUREMENT

In addition to diameter measuring using the feed rollers, the new software version 4.710 also enables diameter measuring at the front knives. If you like, you can change between methods on the fly based on the conditions and your preferences. The clear user interface shows calibration curves and reports for both methods.

## TRANSMISSION

Version 4.710 also includes new transmission control features.

The so-called HST drive transmission provides several benefits:

- operator-specific adjustments to adjust the transmission feature based on your preferences and the conditions
- drive mode feature enables switching between three preset adjustment sets with a switch while driving
- automatic constant rpm feature
- improved drive control.



## VERSATILE OPTIREPORT

### PRODUCTIVITY MONITORING ALSO AT THE OFFICE

The OptiReport provides entrepreneurs with tools for monitoring the working hours and production of all machines and drivers. The OptiReport can be used to read working hours and efficiency reports in DRF format, in addition to standardised output reports in PRD and PRL format. OptiReport includes a comprehensive selection of key indicators for monitoring and developing the productivity and functionality of the company, its operators and machines, such as machine utilisation degree, distribution of working hours, and different kinds of accurate machine- and driver-specific consumption data.



# SERVICE AGREEMENTS

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With a PONSSE Service Agreement, a forest machine entrepreneur can outsource the equipment maintenance they wish to Ponsse, to ensure high productivity of the machines. Any hidden defects observed in connection with periodic servicing will be repaired, minimising sudden breakdowns while working. There will be no waiting for spare parts or unnecessary stand-stills.

The amount of Service Agreements volumes are continuously increasing. More and more of Ponsse customers wish to set their own production goals, anticipate their service intervals and ensure the long-term profitability of their machines. Regular preventive care will make harvesting more systematic. With Ponsse, you can customise a Service Agreement to suit your specific needs. The agreements have fixed prices, and they enable improved management of machine operating expenses: you will know in advance exactly how much servicing your machine will cost during the entire agreement period.

The objective with the PONSSE Service Agreements is to maximise machine availability, productivity and efficiency. Regular servicing ensures that machines can be used free of malfunctions. When pressure levels and settings are systematically checked, the machine will always provide maximal output. Furthermore, correct adjustments and settings will reduce the amount of fuel consumed. The maintenance history of machines with a Service Agreement will assist you in planning further service, which improves the machine's trade-in value.

Furthermore, the authorised and properly trained PONSSE service network always has the latest information on how to use machines and on their technical features. You can focus on your key business – profitable harvesting.

## **SERVICE AGREEMENT**

The Service Agreement covers periodic servicing either every 600 or every 1,200 hours. The basic Service Agreement covers periodic servicing work, spare parts and oils. Checking machine adjustments is part of the periodic servicing.

## **SERVICE AGREEMENT WITH ADDITIONAL SECURITY**

You can include Additional Security in your Service Agreement. In this case, the main components of the machine will be provided with warranty exceeding the normal factory warranty. Additional Security provides you financial security and better anticipated operating expenses.

Additional Security is a service product that extends the warranty period of the main components of the machine beyond the normal factory warranty. Additional Security includes the opportunity to better anticipate operating costs. When you are able to anticipate your expenses, you can better plan your business and reduce the risk of sudden machine servicing costs.

## **OPERATIONAL ASSURANCE**

Ensure your machine's efficiency with Operational Assurance, an additional service available for the Service Agreement. Operational Assurance means going through the forest machine's operational efficiency and ensuring that the machine is used with the optimal adjustments for the conditions. At the same time, further training can be offered to the machine operators if necessary. Operational Assurance will allow the machine to produce the best possible quality year in and year out.

# PONSSE PERFORMANCE PACKAGES

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Ponsse Performance Packages are designed for more extensive basic servicing of or updates for forest machines. The Performance Packages can be used to modify larger entities on the forest machines, such as the harvester head, crane or base machine, so that the machine entities will be as good as new. This makes it possible to maintain the machine's capacity throughout the years.

The Performance Packages include all the parts needed for basic servicing of a specific part of the machine. The packages are meticulously designed entities, which makes it possible to update a machine effortlessly and in a small amount of time. With Performance Packages, you will also prevent unnecessary downtime by anticipating the servicing of your machine. Modifications are carried out in connection with more extensive basic service as planned, which makes it possible for you to maximise the profitability of your machine.





## PONSSE SPARE PARTS

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### REMAN PARTS

REMAN (Remanufactured) parts is a service developed by Ponsse. It is based on recycling and reconditioning used service parts, and you can use it to ensure uninterrupted use of your forest machines, flexibly and affordably. You can return a damaged part to Ponsse and replace it by buying a REMAN part which Ponsse has carefully reconditioned. We will compensate you for the returned part when you purchase a REMAN part. You will quickly obtain a new part, and will also save money and the environment.

### BUDGET PARTS

Ponsse offers an extensive selection of used parts, an affordable alternative for forest machine spare parts. Budget Parts are an alternative worth considering if you do not need a new part. Budget Parts are excellent for servicing an older machine or a backup machine, for example. Our Budget Parts selection includes used but still usable bonnets for exterior repairs, for example.



# PONSSE 40 YEARS: STRONG ROOTS IN LOGGING

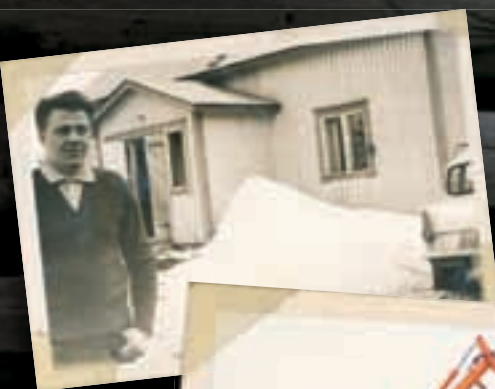
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*Ponsse Plc is one of the world's largest manufacturers of rubber wheel cut-to-length forest machines. Ponsse has grown from a machine entrepreneur's dream to become an international export company with operations in nearly 40 countries. The ownership of this Finnish family company is still in the same hands, and its operations are guided by the same values as when it was founded. The company's production, R&D and administration are located in Vieremä, Finland – in the same place as 40 years earlier.*

## **History at the heart of the cut-to-length method**

Einari Vidgrén, the founder of Ponsse and the chairman of the Ponsse Plc Board of Directors, was born into the family of a small-scale farmer in the Finnish province of North Savonia. He started working at logging sites in 1957, when he was just 14. At the age of 27, Vidgrén – who had started harvesting with a hand-held saw – already employed 25 loggers, which made him one of Finland's major machine entrepreneurs. However, the machines used suffered from durability problems, and in 1969 Vidgrén developed a load-carrying forest tractor for his own use in a local village workshop. He named the forwarder Ponsse, after a crossbreed courser dog which roamed the village. Ponsse was first used at the logging site of Tehdaspuu, and after a year of use Tehdaspuu asked for more of the same kind of forwarders. This feedback encouraged Vidgrén to establish a forest machine plant in Vieremä. With a one-vote majority, the municipal council decided to build an industrial plant to be leased to the machine entrepreneur Einari Vidgrén. The plant was completed at the end of 1970 and Ponsse Oy was established. The first forest machine intended for serial production was a PAZ forwarder. Difficulties and setbacks characterised the early years of the plant: money was not easy to come by.

A breakthrough in the evolution of forest machines took place in the 1980s. Ponsse became renowned to competitors and customers alike in a single dramatic step in 1983 when it introduced the legendary Ponsse S15 forwarder. Built





partly from aluminium, the machine's chassis made it significantly lighter than its competitors' chassis, putting it in a class of its own for cross-terrain performance. Another significant milestone in Ponsse's history was reached in 1986 when the first harvester head H520 was introduced. It marked an important step in the expansion of the product family from forwarders to harvesting machines as well.

The Finnish quality was rewarded when in 1994 Ponsse became the first ISO 9001-certified forest machine manufacturer in the world. This led to intensified machine development work and an expansion of the plant. In the 1990s the product range expanded and Ponsse Opti, an advanced measurement and information system for forest machines, was launched on the market. Ponsse was listed on the Helsinki Stock Exchange, and established subsidiaries in Sweden, the United States, France and the United Kingdom.

### **Fully committed to its customers and the forest – since 1970**

Ponsse has continued its journey successfully from decade to decade and continent to continent, thanks to hard work and its experienced staff. By 2010, Ponsse has manufactured 7,000 environmentally friendly cut-to-length forest machines and is one of the developers and manufacturers of the most advanced forest machine technology solutions in the world.

Its three hectares of modern production facilities house an efficient production process. The Ponsse Group includes the parent company Ponsse Oyj and eleven subsidiaries in Sweden, Norway, France, the United Kingdom, the United States, Brazil, Russia, Hong Kong, China and Uruguay, plus Epec Oy in Seinäjoki, Finland, which manufactures embedded machine control systems. Ponsse has a retailer network of twenty-six retailers. All of the forest machines and harvester heads are manufactured and designed in Vieremä. The control systems are manufactured by Ponsse's subsidiary Epec Oy.

The company's values and operating methods are based on the original principles of Einari Vidgrén. The customer has always been the starting point for Ponsse's operations: all innovations are associated with how customers value them and how they can benefit from them in their own business. Ponsse offers its customers comprehensive harvesting solutions so that the harvesting entrepreneur's operations are productive.





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