

## Efficient harvesting of energy wood!

The economical harvesting of energy wood calls for effective, productive methods. PONSSE Bioenergy products make the harvesting of energy and small wood flexible and efficient. Energy wood can be harvested simultaneously with industrial wood, cut separately, or the harvesting equipment can be harnessed solely for the harvesting of industrial wood, where necessary.

Ponsse Plc  
Ponssentie 22  
FI-74200, Finland  
Tel. +358 20 768 800  
www.ponsse.com

Ponsse UK Ltd.  
Unit 3, Broomhouses 1 Industrial Estate  
Lockerbie, Dumfriesshire DG11 2RZ  
UNITED KINGDOM  
Tel. +44 1576 203 000

Ponsse North America, Inc.  
4400 International Lane  
Rhineland, WI 54501  
USA  
Tel. +1 715 369 4833

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**PONSSE BIOENERGY PRODUCTS**

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## MULTI-STEMMING

### EFFICIENT TECHNOLOGY FOR THE HARVESTING OF SMALL-DIAMETER TREES

The multi-stemming function of harvester heads is a solution for the productive harvesting of partially-delimbed or undelimbed pulpwood and energy wood. We have a broad selection of alternatives: all modern PONSSE harvester heads in the various size categories are suitable for multi-stemming either as such or equipped with minor accessories. The PONSSE EH25 energy wood harvester head is suitable for sites where no feeding or delimiting is required.

#### MULTI-STEMMING FEATURE

With multi-stemming feature you can harvest both industrial and energy wood simultaneously, which increases the yield. All modern PONSSE harvester heads can be used for multi-stemming even without mechanical changes. When the aim is to harvest delimbed wood from the stand with multi-stemming, the handling and feeding of bundles can be improved with new feed roller solutions. The solution also works well in regular industrial wood felling.

With PONSSE harvester heads, multi-stemming is performed with the control function of delimiting knives and feed rollers: the rollers hold the previous trunk in place while the knives grab a new one. After this the rollers open and close grabbing the new tree, and the new tree is cut. The operator can control all collecting features by the push of a button. Finally, the bundle is assembled as whole trees or it is delimbed by feeding the bundle through the harvester head, where necessary.

The size of the harvester head is chosen according to the size of the trees to be handled. A strong harvester head, equipped with a large opening, is naturally able to hold larger trunks better. When the diameter of the trunk is small, a smaller and lighter harvester head can be used. The forwarder should preferably be equipped with a load scale for production data recording.

#### PONSSE EH25

PONSSE EH25 energy wood harvester head is a simple, powerful tool especially for harvesting raw energy material during timber stand improvement felling. Thanks to its multi-stemming feature, guillotine cutting method and easy user controls, PONSSE EH25 is a profitable solution when no feeding and delimiting are necessary.

It is easy to manage the harvester head even in confined harvesting sites, because its centre of gravity is sufficiently far away from the boom tip. Thanks to the grapple's powerful tilt feature, harvested bundles can be held in the vertical position, which facilitates work under difficult conditions, and prevents harvest damage to the residual tree stand. The tilt position can be controlled to any angle. PONSSE EH25 can be installed to different base machines. EH25 has excellent geometry so loading can also be performed easily and efficiently.

## LOAD SCALE

### TIMBER WEIGHT SCALING: PONSSE LOADOPTIMIZER

The PONSSE LoadOptimizer load scale is a solution for weighing loads. It weighs, sorts, saves and manages load data automatically during the work.

PONSSE LoadOptimizer load scale can be used as an official timber measuring method, and load data can be printed or transferred to customer information systems using a USB memory stick. The load scale's display unit is fully dustproof and waterproof. The weight sensor is designed to endure extreme conditions and heavy use. In addition to PONSSE loaders, the PONSSE LoadOptimizer can be installed in the majority of other loaders.

PONSSE LoadOptimizer load scale automatically measures trees harvested with the multi-stemming method when unloading, and weighing can be done by batches and timber grades. Timber grade selector switches to be installed in the control handles are available as optional equipment.

## VARIABLE LOAD AREAS

### FLEXIBILITY IN THE TRANSPORTATION OF INDUSTRIAL AND ENERGY WOOD

The mechanically or hydraulically variable load areas (VLA) designed by Ponsse enable the best possible utilisation of the load area. The solution increases flexibility in harvesting different sites: the variable load area facilitates in harvesting of industrial wood and increases load volume in energy wood harvesting, thus improving the productivity of harvesting substantially when machine capacity can be utilised better. PONSSE LoadOptimizer load scale guarantees properly-sized loads and provides accurate reports on transported volumes.

The hydraulically variable load area can be controlled by means of operating switches directly from the cabin. When transporting lighter energy material, the expandable load area takes more volume so the machine's carrying capacity can be utilised better. For transporting normal timber, the load's centre of the gravity can be lowered by expanding the load area. Hydraulically variable load areas are available in PONSSE Elephant, Buffalo and Elk forwarders, including PONSSE LoadOptimizer load scale.

