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PONSSE

A logger's best friend

PONSSE Elephant 1 / 2007 1. ENG

ELEPHANT
FORWARDER

Extreme LOAD CARRYING CAPACITY and superior TRACTIVE FORCE

Heavyweight PRODUCTIVITY

The new PONSSE Elephant 18 ton forwarder offers unforeseen size, speed and transport efficiency. The tractive force and torque of this powerhouse has been designed for extreme demands and conditions. Its superior performance can be seen best on steep slopes, deep snow, and soft terrain.

Its moveable 6.25 m² (67.3 sq ft) bunk, efficient drive transmission and powerful crane ensures

loads will be transported to roadside quickly and safely – regardless of the site conditions.

The efficient hydraulic system operates the PONSSE Elephant's fast and flexible crane. The large hydraulic tank guarantees sufficient oil flow with minimal heat loss, which results in reduced fuel consumption.

ULTIMATE ENGINE POWER REDUCES OPERATING COSTS

One of the superior features of the PONSSE Elephant forwarder is its unique engine efficiency. It operates up to 200-250 rpm's lower than most competitive forwarders in the same size category – and it still achieves needed engine power

and greater hydraulic power. This means, among other things, cost savings through reduced fuel consumption, less noise and more comfortable operating conditions. The reliable and very durable built-

in injection pump allows precisely timed injection at pressures up to 1,800 bar (26,105 PSI). The clean and complete combustion ensures excellent fuel economy and long intervals between oil changes.



STURDY, DURABLE STRUCTURE – FEWER MAINTENANCE NEEDS



1. A large, 6,25 m² (67.3 sq ft) expandable load space and a hydraulic log gate that moves in two directions if necessary.

2. A powerful, fast, easy-to-use and reliable crane.

3. The new hydraulic frame lock is even stronger than previous models, thus guarantees a 100% grip, and a maintenance-free, long-life frame structure solution.

4. The durable, cast frame joint and the large – stronger than ever – main bearing ensure a durable structure without play.

5. The machine has several well positioned steps and handles, ensuring easy and safe maintenance.

6. Safe, hydraulic steps.

7. The high ground clearance guarantees superior movement in tough conditions.

8. A powerful diesel engine, with minimal fuel consumption and long oil change intervals.

9. A large optional front grill also protects the engine in demanding conditions.

STABLE, GREAT BALANCE

The PONSSE Elephant is available in either 8 or 6 wheel models, depending on its targeted use: The 8-wheel version is suitable for hard or medium-hard terrain and deep snow, and the 6-wheel version is at its best on hard and flat terrain.

DURABLE AND LONG-LASTING STRUCTURE

The durable and long-lasting structure of the PONSSE Elephant forwarder is designed with state of the art materials, such as stronger steel structures and larger diameter

pins used, for example, in the crane and slewing cylinder. The new frame oscillation lock ensures 100% grip, and makes installing and removing phaseless and smooth. The cast frame joint equipped with a large

and sturdy bearing, and the well protected slewing cylinders, ensure a wide steering angle, superb power in turns, and a durable structure. The PONSSE Elephant has been designed to last.





Pioneering ERGONOMICS



TECHNICAL SPECIFICATIONS

DIMENSIONS

Length:	10,130 - 11,225 mm (400 - 442 in)
Width:	3,000-3,130 mm (118 - 123 in)
Transport height (max):	3,900 mm (153 in)
Ground clearance:	750 mm (29.53 in) (6-wheel version) 800 mm (31.50 in) (8-wheel version) (720 mm (28.35 in) at the bogie centre)
Net weight:	21,000 kg (46,300 lb)

LOADING CAPACITY

Load carrying capacity:	18,000 kg (39,683 lb)
Load space cross-section:	5.2 - 6,25 m ² (56 - 67.3 sq ft)
Load space length:	5,400 - 6,400 mm (212.6 - 252 in)

CRANE

Model:	PONSSE K100
Lifting moment:	145 kNm (106,946 lb-ft)
Reach:	S-model: 7.6 m (24.9 ft), M-model: 9.5 m (31.2 ft)

ENGINE

Model:	Mercedes-Benz OM906LA
Power:	205 kW (275 hp)
Torque:	1100 Nm (1200 - 1500 rpm)
Tractive force:	220 kN (49,459 lbf)
Fuel tank:	250 l (66 gal)

TIRES

6-wheel version:	front 700/70 - 34" rear 750/55 - 26,5"
8-wheel version:	front and rear 750/55 - 26,5"

HYDRAULIC SYSTEM

Load-sensing system controlled by the PONSSE OptiControl system. Separate filtering and cooling circuit.

Working pump:	190 bar/235 bar (11.6 cu in/3408 PSI)
Hydraulic oil tank:	200 l (52.8 gal)

CABIN

Tiltable and air-conditioned cabin that complies with all the required safety standards. Gauge-free technology standard seat: Bege 9000 SE seat with headrest.

EQUIPMENT

Plenty of optional equipment is available in addition to the comprehensive PONSSE Elephant standard equipment. Please consult your closest retailer for more information.

The manufacturer reserves the right to make technical changes and improvements.

OPTICONTROL – the operator's intelligent companion

At the heart of every PONSSE forest machine lies the OptiControl system. This system is based on Ponsse's own reliable and user-friendly technology. The system integrates the crane, the drive transmission, and the motor's control functions into one easily manageable entity. All measurements, controls and monitoring features for various functions can be seen on one display, which makes the operator's work easier and more efficient.

The OptiControl system controls modern diesel technology that combines economy, reliability and environmentally friendly operation. It monitors the machine's functions at all times, and adjusts the engine power precisely for the current load. By doing so, the system provides enough power and performance for the current task and lowers the operating costs significantly.

Ponsse leads the way in forest machines' user comfort as well. The cabin of the PONSSE Elephant forwarder provides its operator with unique space and numerous features promoting operating comfort, safety, and productivity.

The state-of-the-art ergonomics include, for example, adjustable and easy-to-use controls where all key switches have been located near the control handles. The design of the impact-proof polycarbonate windows and the narrow pillars ensures unrestricted vision in all directions. The efficient noise suppression and the air-conditioning / heating system designed for extreme conditions increase the operator's comfort level.

