

PONSSE

BISON

PONSSE BISON ACTIVE FRAME

***FASTER,
STRONGER,
MORE
PRODUCTIVE!***





PONSSE BISON ACTIVE FRAME

NEXT GENERATION PRODUCTIVITY

Unbeatable powerhouse for long transport distances

Speed and efficiency – first-rate productivity! The next generation PONSSE Bison Active Frame forwarder is here. Unprecedented in the field, the CVT power transmission and Active Frame cabin suspension system raise productivity to an entirely new level, especially when transporting long distances.

The modern engine, powerful loader and robust powertrain makes the Bison Active Frame an unbeatable powerhouse for timber transport.



PONSSE BISON ACTIVE FRAME **LONG-DISTANCE SPRINTER**

Experience the higher tractive force and stepless power transmission of the CVT drive.

The new PONSSE Bison Active Frame demonstrates its superiority especially over long transport distances. With the new CVT power transmission matching the driving speed and engine load to the situation, high productivity can be achieved at low fuel consumption.

Experience higher torque and stepless power transmission of the CVT drive – no more stops for switching between high and low gear operation. The new

type of power transmission reduces fuel consumption. A truly unique powerhouse was created by combining these advantages with the modern high-torque Mercedes-Benz/MTU engines.

The load bearing capacity of the Bison Active Frame is 16 tonnes. The large load space combined with the powerful and easy-to-use loader ensure efficient load handling at all work sites.

TORQUE
UP TO **1200**
Nm

LOAD-BEARING CAPACITY
16
TONNES



FEATURES

We manufacture the most productive and economical forest machines on the market. We continue to develop new technology and winning features for our machines.



FRAMES

Simple and robust frame structure. Alongside reliability, the structures account for the functional positioning and serviceability of components.

LOADERS

Options PONSSE K90+ (7.8/10 m) or K100+ (7.8/9.5 m).

POWER TRANSMISSION

Unprecedented in the field, the CVT drive ensures that the Bison Active Frame boasts more practical tractive force than ever before, enabling faster forest haulage. This improves the machine's productivity, especially when driving long distances.

ERGONOMICS

Ergonomics and ease of operation have a massive impact on work productivity. The cabin provides plenty of storage space, the most ergonomic controls on the market and the excellent visibility PONSSE forest machines are known for.

ENGINE

In the European area, the machines come with a next generation Mercedes-Benz/MTU with more power and torque (210 kW / 1,200 Nm). The low-emission Stage V engine reduces the environmental load and provides more performance!

SERVICEABILITY

Effortless serviceability is achieved with better positioning of service points, service lighting and safe service platforms. In addition to this, the high-quality components enable an exceptionally long maintenance interval.

BULLDOZER BLADE

PONSSE Bison frame is designed to withstand high stress in various operating conditions which enables it to be equipped with a front mounted bulldozer blade. The blade is an optional feature.

ACTIVE FRAME

PONSSE Bison Active Frame boasts the PONSSE Active Frame cabin suspension system. Thanks to the dual frame structure, the swinging and swaying motions are eliminated very effectively.

PONSSE SEAT

UNPARALLELED COMFORT

DURABLE AND STABLE BASE.

Thanks to the reinforced base and suspension, the seat is more stable and durable than before. This combined with the increased driver weight capacity (210 kg) ensures that the new seat decreases swinging motions and vibrations more efficiently than previous models.



DURABLE AND EASILY MAINTAINABLE FABRIC.

The new seat fabric is five times more durable than before. In addition to this, the dirt repellent surface makes cleaning more effortless than ever before.

COMFORT ABOVE ALL ELSE.

The breathable fabric and ergonomic seat support guarantees improved work comfort.

EASY ACCESS TO SEAT CONTROLS AND BASE.

All adjustment controls are conveniently located at the front of the seat cushion. The base can also be accessed easily by removing the cushion.

CABIN

THE BEST OFFICE VIEW IN THE BUSINESS

First-rate ergonomics and large windows – just step on the gas and watch the landscapes fly by

The Ponsse Bison Active Frame cabin is your vantage point to the latest in forest machine technology. It is a work environment for professionals who value comfort, safety and ergonomics.

The control devices are the best you will find in forest machines in terms of their ergonomics. The large cabin, expansive windows and thin window pillars ensure excellent visibility in all directions.

On request, the cabin can also be equipped with the best forest machine seat in the world, PONSSE Seat. Together with the Active Frame cabin suspension system, it makes the cabin an extremely comfortable working environment.



CVT – CONTINUOUSLY VARIABLE TRANSMISSION

DRIVE AT ANY SPEED WITHOUT STOPPING

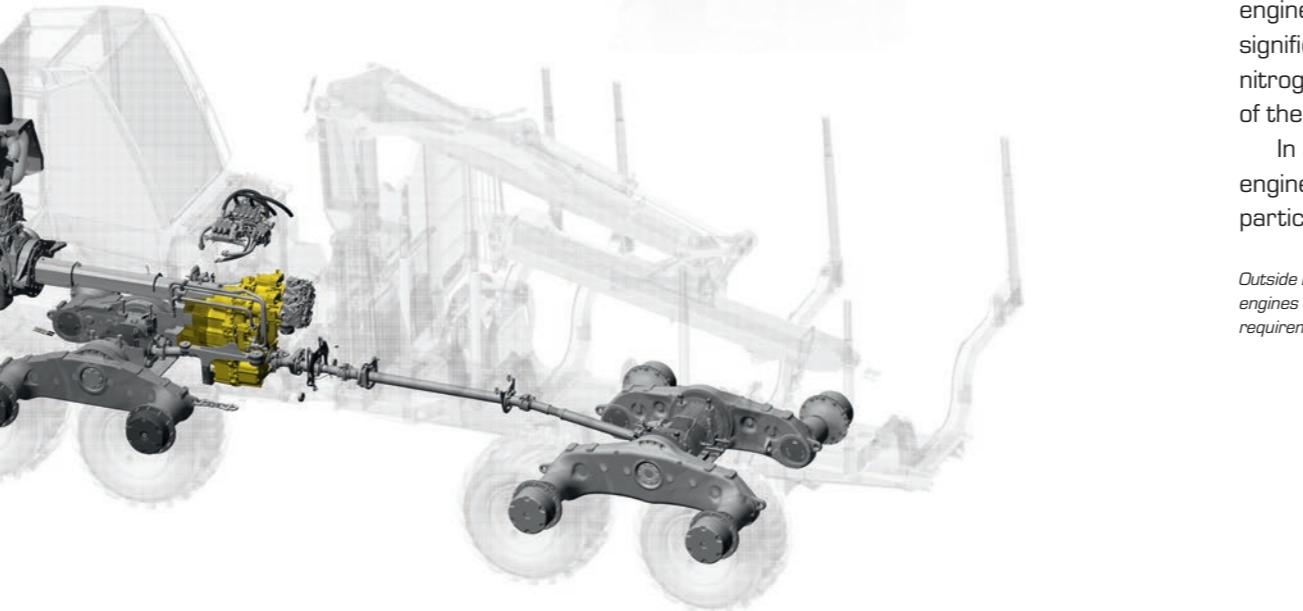
For demanding terrain and challenging conditions – CVT technology provides higher tractive force.

You can now switch to any speed without having to stop – naturally depending on the driving situation.

The new kind of power transmission featured in PONSSE Bison Active Frame is based on CVT technology, which changes gear ratio steplessly. This means that the traditional switching between the slow and fast gear is no longer necessary.

In a machine with CVT transmission, the traditional hydrostatic power transmission can be replaced with a separate CVT gear system. This enables lower fuel consumption and higher torque.

The benefits of high torque are revealed especially when driving up steep hills or in soft terrain or deep snow.



MERCEDES-BENZ/MTU STAGE V

CLEANER AND MORE EFFICIENT

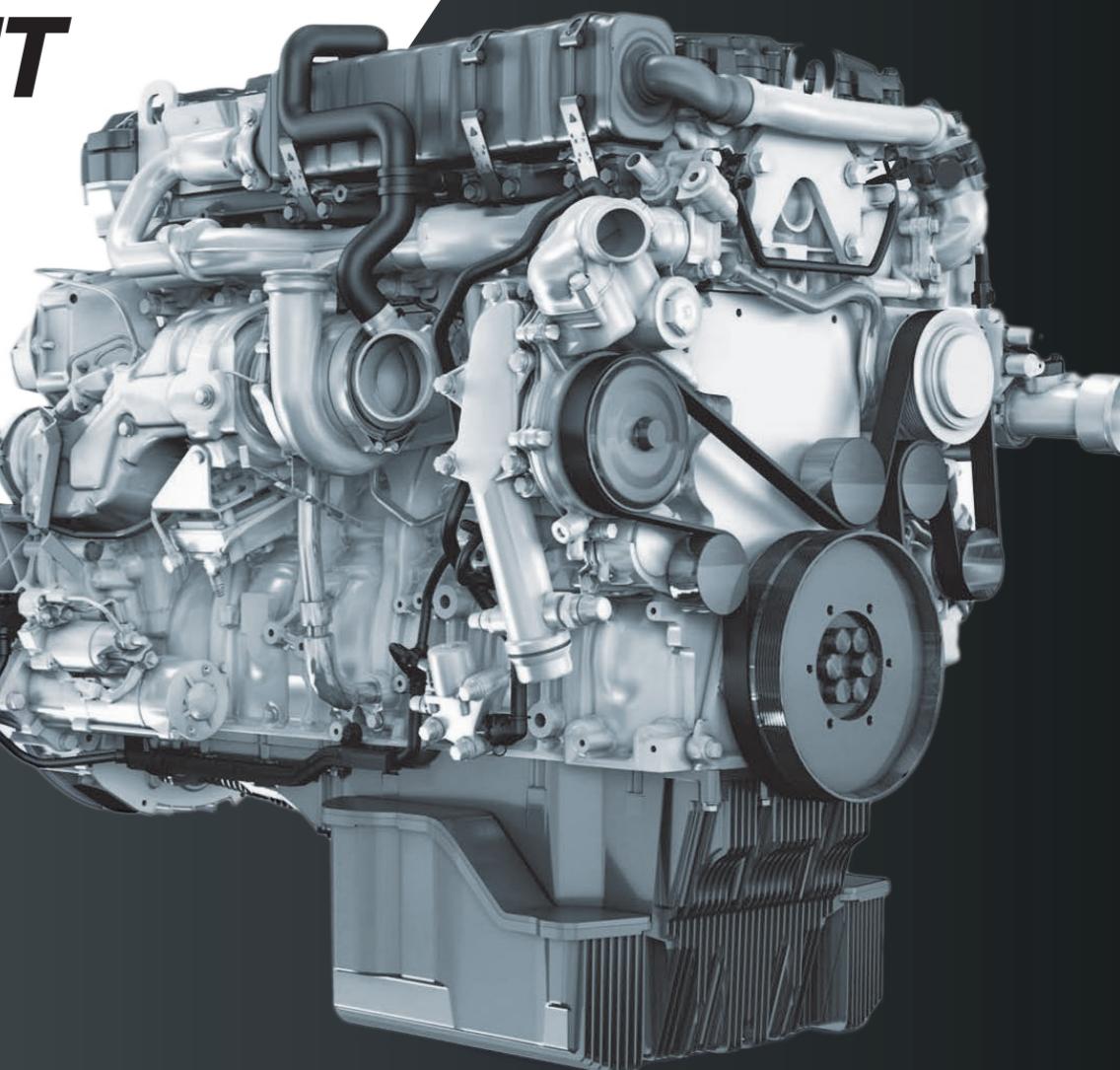
Explosive power and increased torque.
Lower emission level and fuel consumption.

The new Mercedes-Benz/MTU STAGE V emission engines are efficient and economical. The torque has been increased, and maximum torque can be reached at lower engine speeds.

The Mercedes-Benz/MTU STAGE V emission engines are modern, low-emission engines with significantly lower particulate matter (PM) and nitrogen oxide (NOx) emissions compared to engines of the previous emission levels (STAGE III and IV).

In addition to particulate matter, the STAGE V engines also now control particulate volume with a particulate filter (DPF).

Outside Europe a Tier 4F or Stage III level Mercedes-Benz engines are used depending on market specific emission requirements.



EXTREME COMFORT AT HIGH SPEEDS

TOP PRODUCTIVITY HOUR AFTER HOUR

Unparalleled comfort and first-rate control.

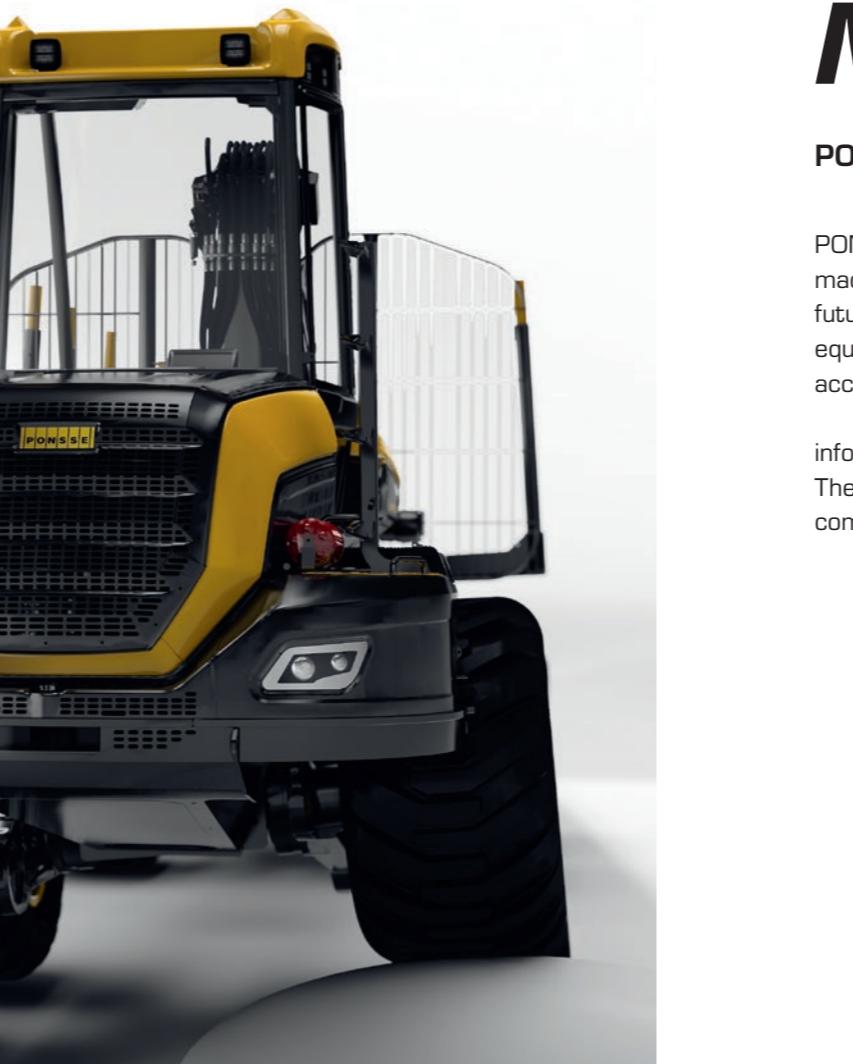
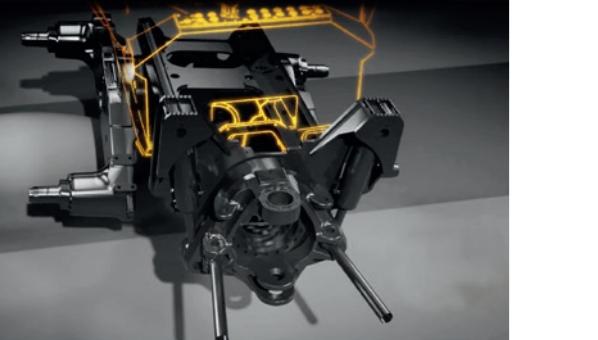
Active Frame helps the driver keep alert and productive.

PONSSE Bison Active Frame features robust frame structures. Easy maintenance has been taken into account in the positioning of the components and maintenance targets. In addition to this, the machine's extremely long maintenance intervals increase effective operating hours and reduce maintenance costs.

Even at increased speeds, excellent driver comfort and machine handling are maintained. Ponsse's proprietary Active

Frame cabin suspension system ensures that lateral swings affecting the driver are eliminated in an efficient and unnoticeable manner.

The structurally simple yet effective system ensures an exceptionally comfortable ride. The driver's body is subjected to significantly less stress than ever before. The Active Frame system helps the driver keep alert and productive for hours on end, even at high speeds.



PONSSE MANAGER

REAL-TIME MANAGEMENT

PONSSE Manager connects forest machines to an information network.

PONSSE Manager, the modern digitalisation platform for forest machines, enables comprehensive services now and in the future. The easy-to-use tool offers assistance in harvesting equipment maintenance and work planning, along with providing access to extensive reporting functions.

PONSSE Manager provides comprehensive real-time information on equipment performance and work site status. The solution can be easily used via a smartphone, tablet or computer.



PONSSE BOOST/SAVE

INCREASED EFFICIENCY AND ECONOMY

Our aim is to manufacture the most productive and economical forest machines on the market. We call this the PONSSE Boost/Save operating model.

Maximum productivity, lower fuel consumption and lower environmental load – we ensure these benefits through our products, information systems, training and correct maintenance.

PONSSE is committed to long-term development and strives to continuously improve the efficiency of all products and services.

PONSSE has incorporated a great deal of new technology in its new forest equipment from base machines to control systems. A tool for the real-time management of forest machine companies' operations, PONSSE Manager is an example of a new product in the control systems segment. In base machines, updates have been made to hydraulic systems, for example, by reducing the flow of hydraulic oil and system losses by technical means.

The working environment of forest machine drivers has been improved by launching PONSSE Seat, which is manufactured exclusively for PONSSE forest machines. These new products have further improved the productivity and economy of PONSSE forest machines.



PONSSE BISON ACTIVE FRAME

DIMENSIONS

Length:	10 130 – 10 390 mm (399-409 in) + glide bunk 700 mm (27.5 in)
Width:	2 950 – 3 090 mm (116–122 in)
Transport height (max):	3 900 mm (153.5 in)
Unladen weight:	22 000 kg (48,500 lbs)
Typical weight:	22 600 kg (49,824 lbs)
Ground clearance:	680 mm (27 in)

TYRES

Front and back:	26,5"
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HYDRAULIC SYSTEM

Steering system:	PONSSE OptiControl
Working pumps:	2 x 80 cm ³
Oil tank volume:	115 l (30 gal US)
Ground clearance:	680 mm (27 in)

ENGINE

Model:	Mercedes-Benz OM936 LA (EU and NA) or Mercedes-Benz OM906 LA (other countries)
Power:	EU and NA: 210 kW (286 hp) Other countries: 205 kW (275 hp)
Torque:	1 200–1 600 rpm (EU and NA: 1 200 Nm, other countries: 1 100 Nm)
Tractive force:	200 kN (44,962 lbf)
Fuel tank volume:	215 l (56.8 gal US)

GRAPPLE

Model:	Several different grapple alternatives
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LOADER

Model:	PONSSE K90+ / K100+
Lifting moment:	K90+: 140 kNm (103.259 lb-ft) K100+: 160 kNm (118.009 lb-ft)
Reach:	K90+ S / M: 7.8/10 m (26/33 ft) K100+ S / M: 7.8/9.5 m (26/31 ft)



10 130 – 10 390 mm (399-409 in) + glide bunk 700 mm (27.5 in)

LOAD SPACE

Capacity:	16 000 kg (35,274 lbs)
Load space	
cross-sectional area:	4,5 - 5,5 m ² (48–59 sq ft)
VLA:	4,5 - 6,0 m ² (48–65 sq ft)

Load space length: 4 540 - 5 450 mm (179-214 in)
+ glide bunk 700 mm (27.5 in)

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

**Ponsse Plc.**

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