



A REAL BEAST OF A HARVESTER



PONSSE SCORPION

PONSSE SCORPION HARVESTER SUPERIOR POWER AND ERGONOMICS

Incredible visibility and steering, unbeatable stability, power and productivity – bearing the environment in mind and with minimum surface pressure. The PONSSE Scorpion raises productivity and ergonomics in harvesting to a whole new level and sets the future standard for the driver's working environment.

Focus on the driver

In the PONSSE Scorpion, the focus is truly on the driver. The eight-wheeled Scorpion offers the best possible setting for efficient and productive work. The unique crane solution offers excellent visibility in all directions, enabling smooth, flexible working whatever the conditions. Good visibility on both sides of the cabin allows for efficient and unlimited operation – the trees to be felled, felling direction and position of piles can be selected freely, keeping efficiency and eco-friendliness in mind.

As the cabin is located in the middle of the machine, the driver can easily see to the extremes of even dense thinning routes. Moreover, the driver is

positioned in the middle of the cabin's turning circle: when the cabin turns, the driver does not feel like he is on a carousel. This has a significant effect on comfort and well-being at work.

A driver's machine

Cabin levelling keeps the driver stable, even in difficult terrain. The frame of the machine consists of three parts linked by rotating joints. The cabin is located in the middle frame, which is kept hydraulically levelled, while the front and rear frames tilt according to the terrain. As a result, the pivoting point is as low as possible, not only minimising tilting, but also helping to prevent the driver from swaying sideways.

Stable in all conditions

The incredible stability of the PONSSE Scorpion comes from its eight wheels and active stabilisation system. The unique stabilisation system is based on detecting the direction and position of the crane, and then pressing the rear frame in the direction of work. Pressing the rear wheels against the ground and the weight of the rear frame improve the machine's stability significantly when working on one side – including when the machine is moving.

In addition to cabin levelling, stability helps to offer ergonomic working conditions for the driver.



EXCELLENT LEVELLING

PONSSE Scorpion's axis point of lateral levelling is as low as possible so that the cabin and crane not only remain levelled, but also the sideways movement is minimized. At the same time the balance point of the crane remains near the machine's center line, improving stability.

THE RIGHT DESIGN FOR THE JOB



THE PONSSE C50 CRANE

Completely new geometry and a unique two-arm lift boom moving over the cabin: excellent visibility and balance. Unbeatable movement geometry. Reach 10/11 m.



VISIBILITY, COMFORT AND SAFETY

The chassis, which is equipped with two rotating joints, follows the terrain in an unprecedented manner. The most comfortable cabin ever seen in forests guarantees that work is efficient, even during the final hours of long shifts.



EIGHT WHEELS

Excellent movement and balanced weight distribution in all situations guarantee a low surface pressure.



LEVELLING

The triple-frame structure offers a low pivoting point, resulting in the best possible comfort.



ENGINE AND HYDRAULICS

The 210 kW (205 kW) engine and working pumps (210 cm³ in the PONSSE Scorpion and 145 cm³ + 190 cm³ in the PONSSE ScorpionKing) produce economical power.



STABILISATION

The intelligent stabilisation system monitors the position of the crane and continually presses the rear frame in the direction of the weight, offering the best stability on the market.

LEVELLING

1

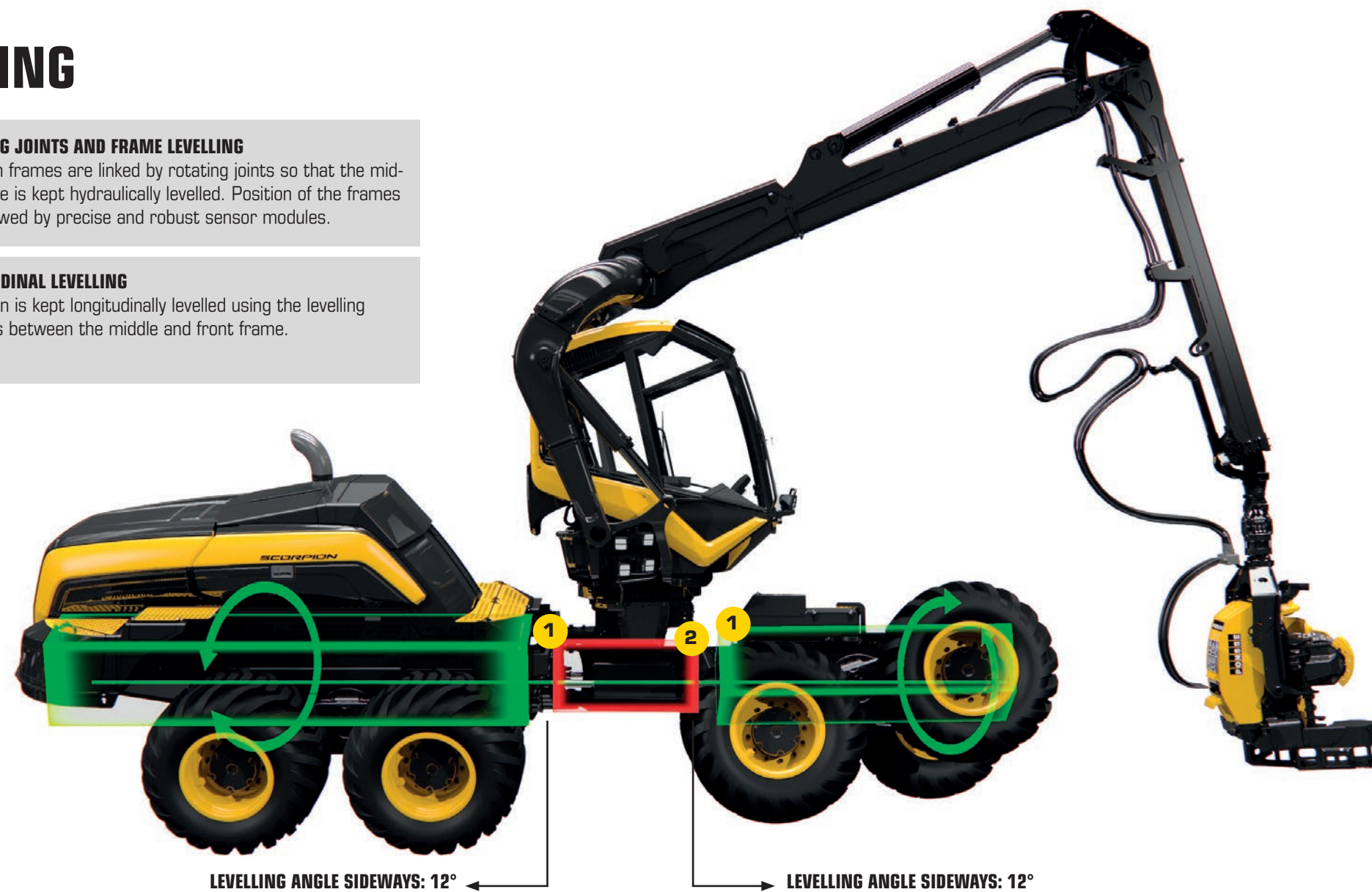
ROTATING JOINTS AND FRAME LEVELLING

Scorpion frames are linked by rotating joints so that the middle frame is kept hydraulically levelled. Position of the frames are followed by precise and robust sensor modules.

2

LONGITUDINAL LEVELLING

The cabin is kept longitudinally levelled using the levelling cylinders between the middle and front frame.



IMPRESSIVE STABILISATION SYSTEM

The sensors between the cabin and crane slewing keep the system notified of the slewing direction of the crane, whereas the sensors in the crane's lower joint monitor the position of the crane. Hydraulic pressure sensors detect the pressure in the lifting cylinder, which allows the control system to feed the required amount of pressure to the stabilisation cylinder on the side of the crane. The pressure is actively adjusted as necessary.

The stabilisation system is also active during driving, offering stable working conditions even when the machine is moving. The advanced system stops the machine if there is not enough stabilisation force to keep the machine upright.



NOW YOU CAN REALLY ENJOY YOUR WORK!

In designing the PONSSE Scorpion, we abandoned old ideas and created a forest machine for a new era, taking efficiency, accuracy, visibility and comfort to the extreme, with the aim of building the world's best working environment.

The rotating, levelled cabin makes sure the driver's eyes are always on the crane and offers stable working conditions – even while driving. The PONSSE Scorpion offers the best possible visibility.

The clear PONSSE Opti4G system quickly provides the driver with all the necessary information about harvesting and machine operations. Optimally positioned handles, armrests with switches, and control panels make working smooth and ergonomic – you can easily work for longer. You can choose between PONSSE Comfort ball handles or mini handles.



PONSSE SCORPION

DIMENSIONS

Length:	8 020 mm (316 in)
Width:	Scorpion 2 630–3 085 mm (103,5–121,4 in) ScorpionKing 2 690–3 085 mm (106–121,4 in)
Transportation height:	3 720 mm (147 in)
Minimum weight:	
Scorpion	21 200 kg (46,738 lbs)
ScorpionKing	21 300 kg (46,958 lbs)
Typical weight:	
Scorpion	21 900 kg (48,281 lbs)
ScorpionKing	22 500 kg (49,604 lbs)
Ground clearance:	655 mm (25.8 in)

ENGINE

Model:	Mercedes-Benz OM936 EU Stage V/Tier 4 Final or Mercedes-Benz OM906 LA EU Stage IIIA (according to legal requirements)
Power:	Stage V and Tier 4F: 210 kW (286 hp) Stage IIIA: 205 kW (275 hp)
Torque:	1 200–1 600 rpm (Stage V: 1 200 Nm, Tier 4F: 1 150 Nm, Stage IIIA: 1 100 Nm)
Tractive force:	Scorpion 170 kN (38,217 lbf) ScorpionKing 180 kN (40,466 lbf)
Fuel tank volume:	410 l (108 gal US) / 320 l (84.5 gal US)*

* with stump treatment option

TIRES

Front and rear:	26,5"
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HYDRAULIC SYSTEM

Control system:	PONSSE OptiControl
Scorpion:	Working pump – 210 cm ³ (12.8 cu in)
ScorpionKing:	Crane pump – 145 cm ³ (8.9 cu in) Harvester head pump – 190 cm ³ (11.6 cu in)
Hydraulic oil tank volume:	280 l (74 gal US)

CRANE

Model:	PONSSE C50
Reach:	10/11 m (33/36 ft)
Lifting moment:	252 kNm
Slewing torque:	57 kNm
Turning angle:	280°
Crane tilt angle:	front/rear ±15°, sideways ±12°

HARVESTER HEAD

Model:	PONSSE H5 PONSSE H6 PONSSE H7 (ScorpionKing) PONSSE H7Euca (ScorpionKing) PONSSE H77Euca (ScorpionKing)
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Plenty of optional equipment is available in addition to the comprehensive PONSSE Scorpion standard equipment. Consult your nearest Ponsse Service Center or dealer for more information on the standard and optional equipment.



Ponsse Plc is committed to continuous product development and innovation. Ponsse has filed several priority patent applications related to the technologies and technical solutions used in the PONSSE Scorpion harvester.

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



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