

KOMATSU®

931XC

Stability and low ground pressure

Forestry Quality™

931

HARVESTERS



Comfort, stability
and exceptional manoeuvrability

931XC



The Komatsu 931XC is a powerhouse offering considerable stability and low ground pressure. With eight wheels, operator comfort is high, ground damage is reduced and manoeuvrability is excellent in steep terrain:

Engine

The Komatsu 931XC has a powerful engine that conforms to the demands according to Stage 4/Final. This means minimised emissions of environmentally hazardous particles and nitrogen oxides. What's more, the modern engine improves fuel economy and considerably reduces noise thanks to its intelligent variable fan control – without compromising engine power.

Hydraulics

The 931XC comes with Komatsu's unique 3-pump hydraulics. This means that it offers the market's largest total hydraulic capacity of 736 litres. In addition, the unique pressure and flow optimisation enables you to work significantly faster without losing power when using certain functions. On the contrary, you can now perform several crane and head functions simultaneously with maximum hydraulic power, such as slewing the crane, feeding a log and manoeuvring the machine, with optimally low fuel consumption.

Transmission

An impressive 187 kN of underlying tractive force and unique interaction between engine, control system and power transmission. The hydrostatic, power-optimised transmission in the 931XC enables full use of engine power, which is a great advantage when navigating gradients and difficult terrain. There are also several pre-set and task-specific driving modes. The result is maximised productivity and benefit from every ounce of horsepower and litre of diesel.



Operator environment

The high-performance operator environment in the new 931XC is unique in several respects. Some of the many new features and benefits include the larger cab volume, improved visibility, smarter screen placement and remote control/key for controlling the main circuit breaker and the cab heater. There are also improved storage solutions, optimised air conditioning and lighting, as well as three joystick system alternatives, including EME. Optional extras include our unique cab suspension, Autolev Advanced, and a complete media hub (MediaZone) with both USB and AUX inputs.

Stability

The feature that makes the Komatsu 931XC the most stable harvester is a type of double suspension. The tried and tested concept of an articulated joint and a swing axle, which along with the cab's tilt cylinders deliver superior stability, has now been developed with a bogie that is installed on the single axle. This results in a harvester with unique driving properties as the manner in which the machine follows any unevenness in the terrain is unparalleled.



Simple working day

The daily inspection is performed simply and effectively without the need to open the hoods, and the points that need to be checked daily have been gathered in groups.

EIGHT-WHEELER – IN THE RIGHT WAY



Double suspension

Double suspension entails an articulated joint and swing axle in combination with a bogie that is installed on the swing axle. This delivers excellent driving properties as the machine follows the terrain in an unparalleled manner.



Good visibility

The spacious cab offers good visibility all around, and the design of the windscreen provides extremely good visibility both high up and far down.

A unique solution for eight wheels, a powerful engine, an effective hydraulic system and a comfortable cab. This produces a machine with low ground pressure, correct stability and good comfort. Quite simply, the perfect conditions for efficient performance, even in steep terrain and on surfaces with poor bearing capacity.

The Komatsu 931XC has a unique solution compared to other eight-wheel harvesters. The feature that makes the Komatsu 931XC the most stable harvester is a type of double suspension. The basis is our tried and tested concept with an articulated joint and swing axle which, along with the cab's tilt cylinders, provide superior stability. This concept has proven to be the most effective for several decades. On the 931XC, we have



Keyless system that can control both heating and main circuit breaker/lighting remotely. Access coded for the operator so that logging in to MaxiXplorer takes place automatically against the operator profile.



The cab and the crane can be rotated 360°. Large work area increases the timber concentration and productivity for the forwarder.



931XC



combined the suspended rear axle with a bogie mounted on the single axle. This produces unique driving characteristics, and the manner in which the machine follows any unevenness in the terrain is unparalleled. A crane with higher slewing force and the machine's high ground clearance are other properties that are useful in steep, tough terrain.

The Komatsu 931XC has our powerful Stage 4/Final engine that fulfils the most stringent emissions requirements and

reduces fuel consumption. As for the power train, you also get our superb power-optimised transmission.

The unique 3-pump hydraulics are another reason for the 931's efficiency. The smart pressure and flow optimisation means that you can perform several tasks simultaneously and maintain a significantly higher work rate.

Good comfort is supplied as a consequence of good stability, yet the cab environment is also important for effective

felling. The cab is spacious in all directions and a high airflow creates the right indoor climate. Visibility is good both upwards and downwards, thanks to the smart design of the windscreen. The operator can choose between several different joystick alternatives and we are offering the industry's first remotely operated keyless system.

The Komatsu 931XC is unique compared to other eight-wheel harvesters. To put it simply – a proper eight-wheeler.

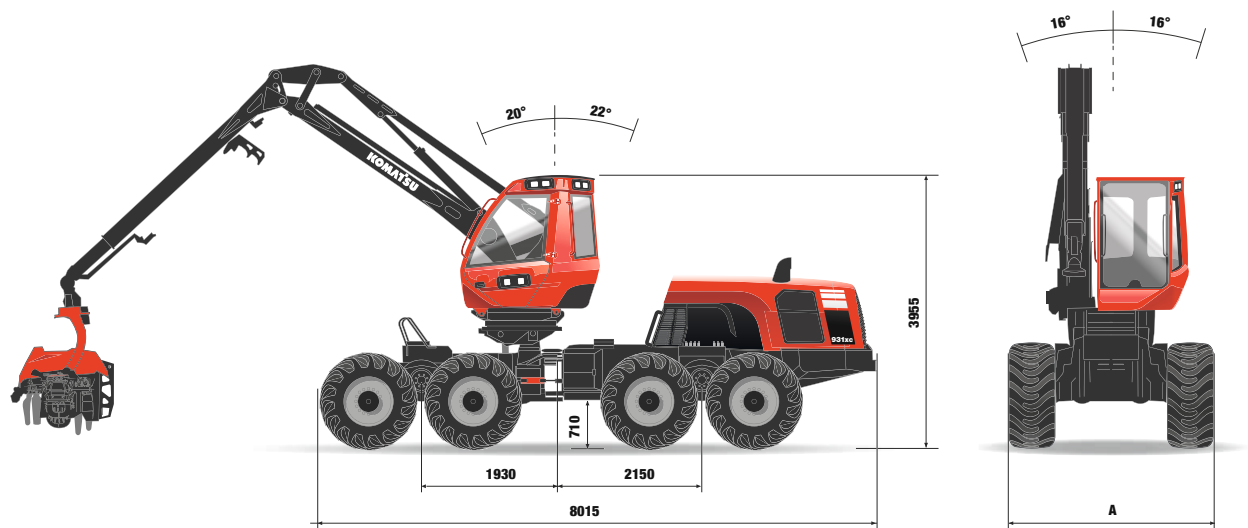


The cab levelling function means that you are always seated horizontally and that don't need to stretch and strain to maintain a good seating and working position.



Powerful Stage 4/Final engine that complies with the most stringent emissions requirements and reduces fuel consumption.

TECHNICAL SPECIFICATIONS



WHEEL OPTIONS AND MACHINE WIDTH (A) WITH DIFFERENT TYRES

	Tyre selection	Width (mm)
8WD	600/55 x 26.5	2,766
	710/45 x 26.5	2,996

Note! Stated dimensions are nominal and may vary slightly depending on production tolerances.

WEIGHT

Kerb weight: from 21,700 kg
¹⁾ With 600 wheels.

ENGINE

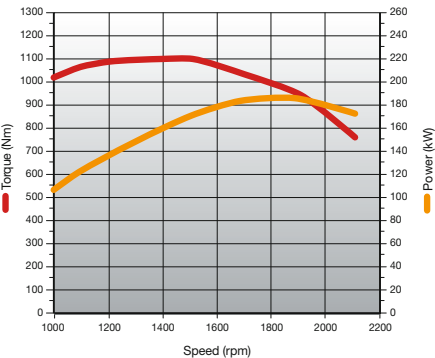
AGCO Power 74 -AWF, 6-cylinder diesel engine with turbo and intercooler. EPA Tier 4 Final and EU Stage 4.

Engine displacement: 7.4 l

Power, max.: 185 kW DIN (251 hp) at 1,900 rpm

Torque: 1,100 Nm at 1,500 rpm

Fuel tank: approx. 480 l



POWER TRANSMISSION

Hydrostatic-mechanical, controlled via MaxiXplorer. Transfer gearbox with 2 positions. Disengageable front-wheel drive.

Differential locks: Front and rear axle. Mechanical electro-hydraulic control.

Driving speed: 0-7.6/23 km/h (off-road/road)

Tractive force: 187 kN

HYDRAULIC SYSTEM

Flow: 528 l/min. at 1,600 rpm

System pressure: 280 bar

Hydraulic oil tank: approx. 220 l

Other: Pressure filter for hydrostatic circuit. Return oil filter for hydrostatic and working hydraulics. Hydraulic oil level warning.

FRAME/AXLES

Axle, front: Geared bogie "hi clearance" type with portal axles housed in the rims. Differential with mechanical differential lock.

Axle, rear: Suspended geared bogie type "hi clearance" with portal axles housed in the rims. Differential with mechanical differential lock. Hydraulic stabiliser.

BRAKE SYSTEM

Fully-hydraulic multi-disc brakes. Brake pressure accumulators charged via automatic hydraulic accumulator charging valve.

Driving brake: Four multi-disc brakes in oil bath acting on front and rear axles.

Working brake: Same as driving brake. Automatically engaged when working.

Parking brake: Spring-action brake with electro-hydraulic control. Emergency brake.

Braking performance: Conforms to ISO 11169 and VVFS 2003:27.

CRANE

230H

Reach: 8.7/10/11 m

Lifting torque, gross: 229 kNm

Slewing torque, gross: 54 kNm

Head: 8.7 m: S132, 370.2, C144
10 m: S92, C93, 360.2, C123, S132, C144
11 m: S92, C93, 360.2, C123

HEAD

	Komatsu S92	Komatsu C93	Komatsu 360.2	Komatsu C123	Komatsu S132	Komatsu 370.2	Komatsu C144
Weight:	from 951 kg	from 970 kg	from 1,245 kg	from 1,240 kg	from 1,364 kg	from 1,470 kg	from 1,400 kg
Felling/cutting diameter:	630 mm	600 mm	650 mm	650 mm	720 mm	700 mm	710 mm
Feed rate:	0-5 m/s	0-5 m/s	0-5 m/s	0-5 m/s	0-5 m/s	0-5 m/s	0-5 m/s
Feed force, gross:	26.1 kN	20.1/25.3 kN	26.9/29.4 kN	23.7/28.3 kN	28.7/31.1 kN	28.3/30.8 kN	29.6 kN
Opening, front knives, max.:	535 mm	600 mm	640 mm	625 mm	641 mm	640 mm	660 mm
Feed roller opening max.:	519 mm	550 mm	550 mm	650 mm	625 mm	600 mm	750 mm

STEERING

	Hydraulic articulated joint with 2 dual-acting hydraulic cylinders.
Joystick steering:	Load-sensing (LS) proportional steering from crane controls/rocker.
Steering wheel:	Load-sensing (LS) proportional servo (North America and Europe).
Steering angle:	+/- 40°
Available options:	Electrical limit damping.

Available options: Sun shades. Swivel seat. Electrically-controlled platform under cab. Radio with MP3 player and USB port. MediaZone. Air-ventilated BeGe seat with head rest. Environment filter for intake air. Refrigerator. Lunch box heater.

ELECTRICAL SYSTEM

Voltage:	24 V
Battery capacity:	2 x 180 Ah
Alternator:	2 x 100 A

LIGHTING

Driving lights:	Halogen: More than 30 lux in the entire work area and at least 60 lux at the head.
Working lights:	LED: More than 80 lux in the entire work area and at least 120 lux at the head.
Available options:	Twin reversing lights. Roof-mounted work lighting. Service lighting, hoods. Extra work lighting.

ERGONOMICS

	Levelling for good posture. Cab coupled to swing axle. Crane and cab on horizontal, rotating platform. Hydraulic stabilisation when manoeuvring.
Horizontal levelling:	Longitudinal 20°/22° and lateral 16°
Rotation:	+/-180°
Available options:	Autolev – fully-automatic cab and crane levelling. Crane damping. Cab suspension. Slewing damper.

CAB

	Safety tested. Levelling. Thermal and acoustic insulation.
Safety:	Conforms to ROPS ISO 8082, FOPS ISO 8083, ISO 3449 and OPS ISO 8084. Alternative cab that also conforms to WCB G603.
Seat:	Choice of ergonomically designed seat for individual adjustment of the seat cushion, back and lumbar support, armrests and joystick panels. The seats have a suspension and damping system.
Windows:	15 mm polycarbonate safety glass in the front windscreen and side windows.
Heating/ventilation:	Combined heating and cooling unit or climate control. Filtered intake air via allergy filter.
Noise level:	As per ISO standard.
Vibrations:	As per ISO standard.
Other:	Manual tilt. Multi-position safety lock. Connections for two-way radio and telephone (12-24 V). Windscreen wiper and washer on front and roof windows.

MAXIEXPLORER CONTROL AND INFORMATION SYSTEM

- Fully integrated machine control system, CAN-based with head, crane, engine and transmission intelligence for optimum performance and fuel consumption Eco-driving function.
- Effective head control system. Features include multi-tree handling, sequence control, anti-slip function, bar rescue, automatic tilt at tree end, diameter-dependent clamping pressure and more.
- Value-optimised or length-optimised bucking with high timber value optimisation.
- Easy-to-use operator interface. High-performance PC with Windows operating system, SSD hard drive, touchscreen selection and data backup function. Antivirus software.
- Comfort Controls. Ergonomic joysticks of various types with extensive functionality.

DOCUMENTATION

Printed operating and starting instructions.
Instruction manual and spare parts catalogue on a USB memory stick.

EXAMPLES OF OTHER EQUIPMENT

- Sprinkler system. Semi-automatic water-based fire extinguishing. Conforms to RUS 127.
- Hand-held fire extinguishers. 2 x 6 kg ABE-3. Dry powder fire extinguishers.
- Printed instruction manual (also electronic in Maxi). Printed spare parts catalogue (also electronic in Maxi).
- Diesel heater 9 kW incl. timer and hydraulic oil heater.
- Stump treatment equipment.
- Environmentally friendly hydraulic oil.
- Service ladders.
- Toolbox with tools.
- Reversing camera as standard (in EEA countries in compliance with EU Directive 2006/42/EC).
- Platform at side of cab and ladder on left side of rear frame as standard (in EEA countries in compliance with EU Directive 2006/42/EC).
- Belt guard for flat belt as standard (in EEA countries in compliance with EU Directive 2006/42/EC).
- Central lubrication.
- Electric diesel filling.

NOTES

The specifications describe possible equipment, not which equipment is standard or optional. Standard and optional equipment varies between countries. Your sales representative has an up-to-date list of what is included. Weights are based on the equipment specified in the basic specification. Specifications and designs are subject to alteration without prior notice.

931XC



FORESTRY QUALITY

Modern forestry demands a holistic approach. With high productivity, low operating costs and innovative technology. With good ergonomics and a long-term approach to ecology. And with a responsive combination of service and customer care.

We summarise all of this as Forestry Quality – the quality required in the forest. This holistic approach permeates everything we do, and we have but a single focus: your working day. We strive to ensure that machine owners and operators always feel that their relationship with Komatsu Forest is characterised by closeness, knowledge and peace of mind. That we understand your situation and use all of our experience, expertise and capacity to fulfil your needs.

And yes, it is true that Komatsu Forest's technologically advanced harvesters, forwarders and heads continually push the envelope for what can be achieved with a modern forest machine. Equally true is that our integrated information systems and proactive service and support create new opportunities for long-term profitability.

However, at its core, Komatsu Forest's promise concerns the whole. And the combined advantages offered throughout the entire production chain and the machine's entire service life. Today and tomorrow.

That is Forestry Quality.

KOMATSU

Komatsu Forest AB
www.komatsuforest.com

