

KOMATSU®

931

Strong and smart

Forestry Quality™

931

HARVESTERS



Maximum reliability and productivity

931



The new Komatsu 931 is built for truly demanding logging. In several decisive areas it provides the benchmark for future needs of maximum production capacity, eco-friendliness and operator comfort – the most important of which are presented here.

Engine

The Komatsu 931 is the first harvester in its class with a Stage 4/Final engine. It fulfils the most stringent requirements on minimised emissions of environmentally hazardous particles and nitrogen oxides. What's more, the hypermodern engine technology improves fuel economy and considerably reduces noise thanks to its intelligent variable fan control – without compromising engine power.

Operator environment

The new 931 has an extremely high-performance operator environment. Some of the many examples include the larger cab volume, improved visibility, smarter screen placement and remote control/key for the remote control of locks, hatches, the main circuit breaker and the cab heater. Then we have improved storage solutions, optimised air conditioning, lighting and floor heating (optional), as well as three alternative joystick systems, including EME. Optional extras include our unique Autolev Advanced cab suspension and a complete media hub (MediaZone) with both USB and AUX inputs.

Hydraulics

One explanation behind the 931's extreme work capacity is the new 3-pump hydraulics, split into dual circuits with separate pressure levels. The system is power-regulated against the diesel engine and offers a class-leading hydraulic capacity of 736 l/min. Unique pressure and flow optimisation enables you to work considerably faster without losing hydraulic power. You can operate 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 168 kN of traction force and unique interaction between engine, control system and transmission. This is what the 931's new hydrostatic power-optimised transmission gives you. It 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 every gallon of fuel.

Crane placement and work area

The crane's placement together with the large work area provide the Komatsu 931 with unique conditions for high production capacity. The concept is proven and has a simple design, providing market-leading visibility and performance. The coupling between the cab's tilt cylinders and the stabiliser cylinders mounted on the rear axle provides world-class stability. To this we can add the cab's 360-degree rotational ability, which provides a larger work area and enables higher timber concentration and more effective forwarding.



Unique eco-friendly engine

The new Stage 4/Tier 4 Final engine fulfils the market's most stringent emission requirements for NOx and particles.

A POWERHOUSE WITH CUTTING-EDGE HARVESTER TECHNOLOGY



Super stable

The unique solution with the crane placed in the middle of the machine and the coupling between the tilt cylinders and the swing axle provide superior stability.



Service advantages squared

Everything from improved access to filters and separate hatches for refilling diesel and hydraulic oil to a holder for service protocols on the mid-frame.

A powerhouse that's as nimble as it is robust with future technology benefiting everything from work capacity and operator environment to operating economy and eco-friendliness. All the new technology is centred on Komatsu's unique visibility-optimised and stabilised crane placement. This is what makes the new Komatsu 931 such an exceptional profit-maker in truly demanding logging.

One of the biggest new features of the 931 is the unique and revolutionary 3-pump hydraulics. This new technology gives you all



The cab levelling function means that you are always seated levelly and don't need to stretch and strain to maintain good posture.



New large and noise-reducing cab with larger windows that provide superior visibility upwards, downwards and to the rear.



931



the lifting power you need. What's more, the smart pressure and flow optimisation means that you can do several things at once, such as slew and feed, with full hydraulic power and maintain a considerably higher work rate. To this we can add a full 360 degrees of cab rotation that enables you to process more from the same spot, which optimises forwarding.

Another overarching new feature is the 931's new cab. The advantages include everything from improved visibility, air conditioning, lighting and floor heating to the industry's first remote control keyless

system, which can control the heating and the main circuit-breaker/lighting from a distance. Keyless system access is coded by operator, so the operator is automatically logged in to MaxiXplorer when activating the main circuit breaker.

Naturally, you have the option of adding our superb Autolev Advanced cab suspension and a complete audio/media hub (MediaZone). Moreover, you can enjoy incredibly low noise levels thanks to the interaction between the new intelligent engine cooling, the new slewing transmission and

noise-reducing internal and external designs.

The 931 also has a unique new feature under its hood. The new and powerful Stage 4/Final engine that fulfils the industry's most stringent emission requirements and reduces fuel consumption. As for the power train, you also get our superb power-optimised transmission. Two real energy savers on the 931 are service and maintenance, thanks to a host of smart solutions. The result, of course, is a simpler, more convenient and more profitable working day – just as modern forestry demands.

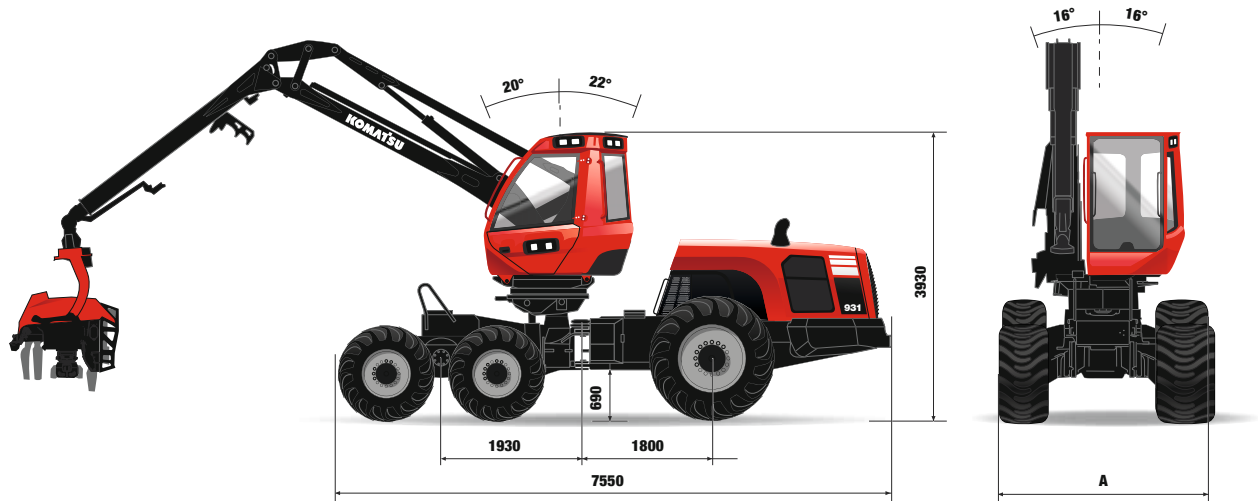


The unique 3-pump hydraulic system means that you can operate several functions simultaneously, such as slewing the crane and feeding a log while manoeuvring the machine, without losing hydraulic power.



New! EME joysticks with sequence control. Ergonomic and adjustable hand controls that allow the operator to customise most button functions.

TECHNICAL SPECIFICATIONS



WHEEL EQUIPMENT ALTERNATIVES (FRONT AND REAR) AND MACHINE WIDTH (A)

	Tyre selection	Width (mm)
6WD (front)	600/55 x 26.5	2,720
	710/45 x 26.5	2,940

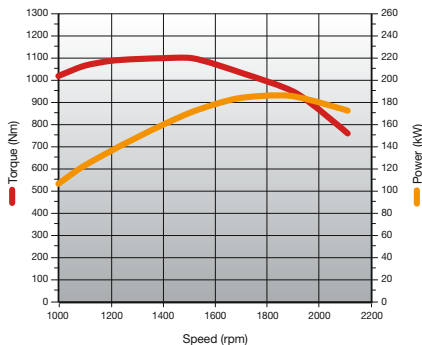
	Tyre selection	Width (mm)
6WD (rear)	600/65 x 34	2,730
	710/55 x 34	2,940

NB: Stated dimensions are nominal and may vary slightly depending on production tolerances.

WEIGHT

Curb weight: from 19,610 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.

Stroke volume:	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. 405 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:	0-8/25 km/h (off-road/road)
Traction force:	168 kN

HYDRAULIC SYSTEM

Dual-circuit load-sensing system with variable piston pumps.

Flow:	528 l/min at 1,600 rpm
System pressure:	280 bar
Hydraulic oil tank:	approx. 220 l
Miscellaneous:	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:	Swing axle with hub reduction. 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:	47.5 kNm
Head:	8.7 m: S132, 370.2, C144 10 m: S92, C93, 360.2, 365.1, S132, C144 11 m: S92, C93, 360.2, 365.1

HARVESTER HEAD

	Komatsu S92	Komatsu C93	Komatsu 360.2	Komatsu 365.1	Komatsu S132	Komatsu 370.2	Komatsu C144
Weight:	from 951 kg	from 970 kg	from 1,245 kg	from 1,235 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
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.
Lever steering:	Load-sensing (LS) proportional steering from crane controls/rocker.
Steering angle:	+/- 40°
Ex. of other equipment:	Electrical limit damping.

ELECTRICAL SYSTEM

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

LIGHTING

	Halogen: More than 30 lux in the entire work area and at least 60 lux at the head. LED: More than 80 lux in the entire work area and at least 120 lux at the head.
Ex. of other equipment:	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:	360°
Ex. of other equipment:	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.
Seat:	Choice of ergonomically designed seat for individual adjustment of the seat cushion, back and lumbar support, arm rests and joystick panels. The seats have a suspension and damping system. Alternative seat that also conforms to WCB G603.
Windshields:	Windscreen and side windows of 15-mm safety glass for maximum safety.
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.
Miscellaneous:	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.
Ex. of other equipment:	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.

MAXIEXPLORER CONTROL AND INFORMATION SYSTEM

- Fully integrated machine control system, CAN-based, with intelligence in the head, crane, engine and transmission, 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 CD.

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 9.1 kW incl. timer and hydraulic oil heater.
- Stump treatment equipment.
- Biodegradable hydraulic oil.
- Service ladders.
- Toolbox with tools.
- Reversing camera as standard (in EES countries in compliance with EU Directive 2006/42/EU).
- Platform at side of cab and ladder on left side of rear frame as standard (in EES countries in compliance with EU Directive 2006/42/EU).
- Belt guard for flat belt as standard (in EES countries in compliance with EU Directive 2006/42/EU).
- 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.



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
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