

KOMATSU®

901

Strong and nimble

Forestry Quality™

901

HARVESTERS



Highly eco- and operator-friendly

901



The Komatsu 901 is part of our latest harvester generation featuring technological advances that uniquely benefit the environment, the working environment and production. As such, the 901 fulfils future requirements on thinning like no other as a leader in efficiency and low environmental impact:

Engine

The Komatsu 901 is the first thinning harvester on the market 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. All without compromising engine power.

Operator environment

The 901 boasts a brand new, larger cab with many improvements in comfort and the working environment. Such as the superb visibility, clever 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 cab suspension Autolev Advanced and a complete media hub (MediaZone) with both USB and AUX inputs.

Hydraulics

The 901's immense work capacity is much due to the brand 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 584 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

The 901's new hydrostatic, power-optimised transmission provides 156 kN of traction force and unique interaction between engine, control system and transmission. This 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 901 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.

HERE YOU GO – THE NEXT GENERATION OF THINNING BENEFITS TODAY



Always full pressure

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.



Almost unstoppable

Komatsu Comfort Bogie – our unique portal bogie – provides superb stability, ground clearance and manoeuvrability.

A brand new and wonderfully nimble thinning specialist with several technical and design innovations and a clear focus on the environment, productivity and the operator. This is the sum of the advantages that the new Komatsu 901 delivers.

The operator environment in particular is in the spotlight, with the brand new larger cab. It offers 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



Always perfect visibility. Thanks to the crane's placement to the side of the cab, you always have optimal visibility of the head whether it's close to or far from the cab.



New large and noise-reducing cab with more storage spaces and an optional complete media hub (Media-Zone) with USB and AUX inputs.

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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. What's more, you can add our optional and also industry-unique Autolev Advanced cab suspension and complete audio/media hub (MediaZone).

Noise is avoided thanks to a combination of new and intelligent cooling, a new slewing transmission and noise-reducing interior and exterior designs.

The 901's unique central crane placement beside the cab plays a major role. The coupling between the tilt cylinders and the swing axle ensures superior stability – and even productivity – as you can take full advantage of the crane's high performance. A full 360 degrees of cab rotation also means that you can process more trees without the need to move the machine, which optimises forwarding.

And the new 3-pump hydraulics make an even greater contribution to improved

productivity. This smart system means that optimal hydraulic capacity is always on hand, allowing you to work faster without the need for additional diesel-guzzling engine power. The new Stage 4 engine even fulfils the most stringent emission requirements and features a number of smart solutions that greatly simplify service and maintenance. Add to this the new power-optimised transmission and the result is the most profitable thinning harvester you can imagine – just as modern forestry demands.

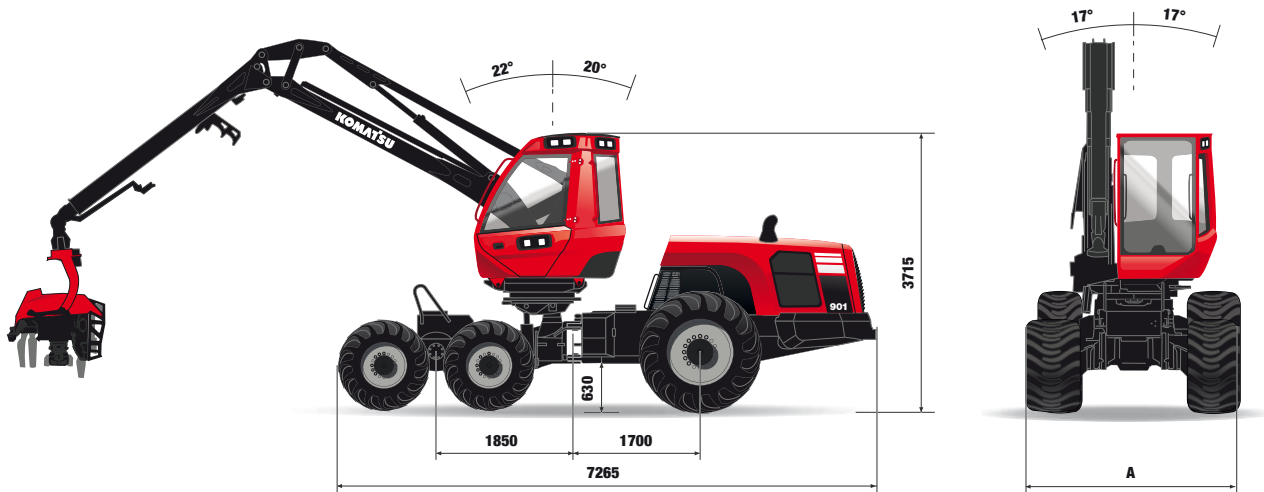


Less repositioning, larger wood piles. A full 360-degree work area means that you can process more timber from the same position, which also optimises forwarding.



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

TECHNICAL SPECIFICATIONS



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

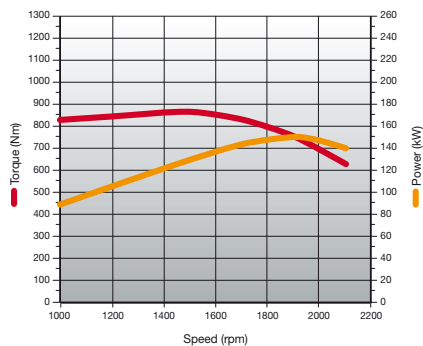
	Tyre selection	Width (mm)		Tyre selection	Width (mm)
6WD (front)	650/45 x 24.5	2,760	6WD (rear)	600/65 x 34	2,730
	710/40 x 24.5	2,890		710/55 x 34	2,990

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

WEIGHT

Curb weight¹⁾: from 17,390 kg

¹⁾ With 600/650 tires.



ENGINE

AGCO POWER 66 -AWF, 6-cylinder diesel engine with turbo and intercooler. EPA Tier 4 Final and EU Stage 4.

Stroke volume:	6.6 l
Power, max.:	150 kW DIN (204 hp) at 1,900 rpm
Torque:	850 Nm at 1,500 rpm
Fuel tank:	approx. 385 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:	0-8/24 km/h (off-road/road)
Traction force:	156 kN

HYDRAULIC SYSTEM

Flow:	400 l/min at 1,600 rpm
System pressure:	255-280 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

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

	200H	200H
Reach:	10 m	11 m
Lifting torque, gross:	198 kNm	198 kNm
Slewing torque, gross:	43 kNm	43 kNm
Head:	S92/C93	340/S92/C93

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 17°
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. Electrical kit for two-way radio and telephone (12 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.

CONTROL AND INFORMATION SYSTEM

MaxiXplorer is a CAN-based control system that you use to control all of the machine's functions with the aid of ergonomic hand controls and a user-friendly PC. The system enables you to set crane functions and control the transmission, diesel engine and other machine functions. The system also features object management, integrated production and operational follow-up, troubleshooting and alarms.

PC

	2 computer alternatives	
	MaxiPC X20	MaxiPC X30
Processor	Intel Atom 1.6 GHz	Intel Core 2.4 GHz
RAM	2 GB	4 GB
Hard disk	100 GB HDD	100 GB HDD
Screen	12"	12"
USB ports (incl. screen)	10	10
Serial ports	3	2
Operating system	Windows XP Pro	Windows XP Pro
Ex. of other equipment.	A4 printer, GPS receiver. MaxiFleet-ready.	

HARVESTER HEAD

	Komatsu 340	Komatsu S92	Komatsu C93
Weight:	from 760 kg	from 951 kg	from 970 kg
Felling/cutting diameter:	530 mm	630 mm	600 mm
Feed rate:	0-5 m/s	0-5 m/s	0-5 m/s
Feed force, gross:	18 kN	26.1 kN	20.1/25.3 kN
Opening, front knives, max.:	450 mm	535 mm	600 mm
Roller opening, max.:	420 mm	519 mm	550 mm

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 dry powder fire extinguishers 2 x 6 kg (ABE-3), fitted externally.
Hand-held dry powder fire extinguisher 2 kg (F2GM), fitted in cab.
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.
Extra water separator, diesel.
Stump treatment equipment.
Biodegradable hydraulic oil.
Mini joysticks with sequence control.
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 and oil 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.



WHY A KOMATSU HARVESTER?

High productivity, low operating costs, innovative technology, superb operator environment, proactive service and customer care – this broad range of advantages is what makes Komatsu machines some of the very best forestry machines in the world. Behind all this is a highly-focused strategy to continually build upon the advantages of owning a Komatsu harvester. This strategy is based on the following main areas.

Ergonomics

Your forestry machine is a mobile working environment in which success requires that the operator can perform at their best without tiring. This is an important point of departure that has helped us develop the unique ergonomic advantages of Komatsu harvesters. Good examples are cab levelling and crane placement to the side of the cab so that the head is always well in sight of the operator.

Economy

Striving for optimal profitability is an important driving force in the development of Komatsu's harvesters. Every improvement that increases productivity or reliability, reduces costs or saves time is of interest. Concrete examples from today's Komatsu harvesters include energy-efficient engines, highly-effective hydraulic systems, fast harvesting heads and unmatched high productivity per unit of time.

Productivity

More work in less time. This is something we often hear from those who have switched from competing brands to Komatsu harvesters. The reasons are many and are found on all levels. The most important include the extremely high-performance operator environment, the manoeuvrability, the effective harvesting heads, the powerful control and information system and the large work area.

Proactivity

Fast and competent service is decisive to the performance and economy of any forestry machine. One important cornerstone is our unique proactive concept comprising preventative and planned measures that include remote support via MaxiFleet and tailored training courses to make your forestry machine ownership simpler, safer and more profitable. Other key factors are our highly-trained and competent technicians and our high-quality range of accessories and consumables designed for both Komatsu and other professional forestry machines.

Environment

Forests are a fragile element of the global ecology. This is why every new Komatsu product and its component parts are examined with an eye to both the short-term and long-term environmental effects. This has resulted in concrete environmental improvements to Komatsu harvesters such as highly-effective exhaust emission control and low, evenly-distributed ground pressure. Environmental considerations also permeate our broad range of accessories and consumables, such as our special, rapidly biodegradable environmental oils.

Global Experience

Komatsu's harvesters can be found the world over. Consequently, they have been adapted to deliver optimum profitability regardless of operating conditions. The same fundamental idea lies behind the global service and dealer network that provides support to thousands of Komatsu owners on a daily basis.