

KOMATSU®

890.3

Extremely stable and strong

Forestry Quality™

890

FORWARDERS



A giant in demanding final logging

890.3



The Komatsu 890.3 is a forwarder specially developed for the final logging of large diameter trees. It makes light work of broad, heavy trunks, and delivers the same high profitability on every shift. The explanation lies in the parts as well as the whole, and here are a few of the highlights:

Stability

Market-leading stability thanks to a unique articulated design featuring, for example, a hydraulic articulation lock.

Lifting power

The most powerful crane on the market. Quick and easy to maneuver thanks to increased flows and optimized valves.

Crane geometry

Superb crane geometry and hefty slewing torque, providing faster and more powerful crane maneuvering.



Load capacity

High load index thanks to an optimal combination of the lowest machine weight and high load capacity.

Productivity

The unique Komatsu LoadFlex bunk and ProTec hose protection options provide additional production enhancements.



Operator environment

High-performance cab designed with operators in mind in terms of ergonomics, efficiency, and job satisfaction.

A COLOSSUS OFFERING THE BIGGEST ADVANTAGES



LoadFlex

A sturdy design built for heavy tonnage ensures good load capacity. The Komatsu LoadFlex option, now with optional hydraulic height-adjustable supports, ensures greater efficiency and ease of use when loading, unloading, and driving. LoadFlex includes scales and production registration in Maxi.



Information system

MaxiForwarder, the powerful and user-friendly information system, gives you full control of everything from machine operation to status and production reports.

Market-leading strength and stability, yet still amazingly fast and flexible. These are important and noble characteristics of the Komatsu 890.3, the largest and most powerful Komatsu forwarder, specially designed to deliver the greatest profitability in demanding final logging.

Key to its astounding profitability is the crane. No other forwarder offers more lifting power or slewing torque. Equally unique is the Komatsu 890's superb crane geometry and the ingenious



The optional and unique ProTec system offers even more advantages: Reduced hose maintenance, faster loading/unloading, and a full 5% increase in production. When harvesting biomass/forest residues, the advantages are even more apparent.



Superb stability thanks to Komatsu's unique articulated design. A sturdy design ensures good load capacity.

890.3



Komatsu ProTec hose protection system (optional). The result is unbeatably fast, powerful, and reliable crane maneuvering.

The same can be said when guiding this machine through the forest. The environmentally-friendly Tier 3 engine, with an optimized power-to-cylinder size ratio, takes you nimbly and determinedly across even the toughest terrain. Always with the same exceptional stability. The Komatsu 890's unique articulated

design, featuring a hydraulic articulation lock, plays an important role in this.

The Komatsu 890's high-performance cab is also grandiose. Despite the spacious interior, everything is still close to hand. The most commonly used controls are well placed to ensure fast and effective operation. Operator comfort and visibility are optimized for crane operation and driving alike.

The long-term advantages are obvious. Servicing is extremely easy

thanks to centralized lubrication points. A full 18 metric tons of load capacity while the LoadFlex bunk option makes loading, driving, and unloading faster than ever. The MaxiForwarder control system optimizes all functions and provides extensive status and production reports. Choose the Komatsu 890.3 and you'll always have the biggest advantages.

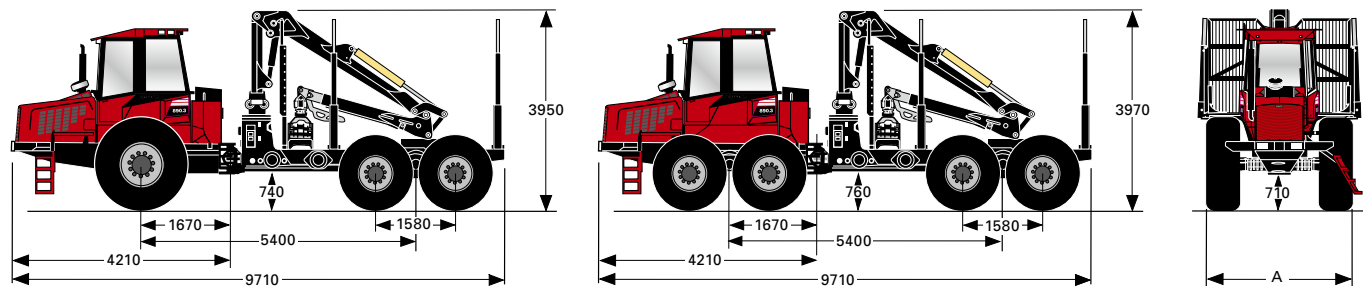


Acknowledged superb ergonomics, high productivity, and reliable operation make any shift easy and enjoyable.



The most powerful crane on the market. Quick and easy operation thanks to increased flows and optimized valves.

TECHNICAL SPECIFICATIONS



WHEEL OPTIONS, FRONT AND REAR, AND MACHINE WIDTH (A) WITH DIFFERENT TIRES

	Tire	Width (mm/inches)		Tire	Width (mm/inches)
6WD (front)	700/70x34	2,970/9'9"	8WD (front/rear)	650/65x26,5	2 990/9'10"
6 WD (rear)	650/65x26,5	2,990/9'10"		750/55x26,5	3 170/10'5"
	750/55x26,5	3,170/10'5"		750/45x30,5	3 170/10'5"
	750/55x30,5	3,170/10'5"			

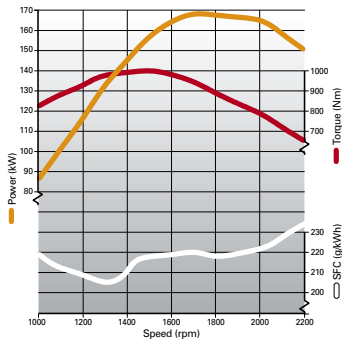
NB: Stated dimensions are nominal and may vary slightly.

WEIGHT

	6 WD	8 WD
Weight from:	16,800 kg (37,038 lb)	19,100 kg (42,108 lb)

ENGINE

	74 CTA, 6-cylinder turbo with Commonrail. Tier 3.
Stroke volume:	7.4 l
Power, max.:	170 kW DIN (231 HP) at 1,700 RPM.
Torque:	1,000 Nm (742 lb-ft) at 1,500 rpm.
Fuel tank:	210 l (42 gal)



TRANSMISSION

	Hydrostatic transmission controlled by MaxiForwarder. 6/8-wheel drive. Disengageable carriage drive. Differential locks front and rear.
Driving speed:	0-25 km/h (0-15.5 mph)
Tractive force:	21,100 kp (207 kN, 46,575 lb. f.)

FRAME/AXLES

	Smooth high-tensile steel frame. Sturdy geared bogie. Dampening bogie stops. Forward and rear tow points. Front axle 6WD: Rigid axle with hub gearing.
Ex. misc. equipment:	Bogie lift. Front blade.

HYDRAULIC SYSTEM

	Single circuit load sensing with variable piston pump.
Flow:	0-340 l/min (0-90 gal) at 2 000 RPM alt. 290 l/min (76.6 gal) at 2 000 RPM
Working pressure, max.:	23.5 MPa (235 Bar, 3,400 PSI)
Hydraulic oil tank:	130 l (34.3 gal)
Miscellaneous:	Pressure filter for hydrostatic circuit. Return oil filter for hydrostatic drive and hydraulics. Hydraulic oil level warning.

BRAKE SYSTEM

	Dual circuit, fully hydraulic multi-disc brakes. Hydraulic accumulator charging valve.
Driving brake / Working brake:	Multi-disc brakes in oil bath. Automatic or manual engagement when working.
Parking brake:	Spring-action brake with electro-hydraulic control. Emergency brake.
Braking performance:	Conforms to ISO 11169 and VVFS 2003:17

CAB. ERGONOMICS

	Safety tested. Spacious and bright with very good visibility. Thermal and acoustic insulation.
Safety:	Conforms to ISO 3471/1 (ROPS), ISO 8082 (ROPS), ISO 8083 (FOPS) and ISO 8084 (OPS)
Seat:	Pneumatic cushioning. Electrically heated. Adjustable lumbar support. Safety belt.
Armrest/Controls holder:	Individually adjustable.

Windshields:	15 mm (0.6") safety glass in rear side windows and rear windshield.
Heating/ventilation:	Fully-automatic heating and cooling unit (AC). Filtered intake air.
Noise level:	As per measurement standard.
Vibrations:	As per measurement standard.
Miscellaneous:	Windshield wiper and washer on front and roof windows.
Ex. misc. equipment:	Sun blinds. Radio with MP3 player interface. Air-ventilated seat. Head rest. Lunchbox heater. Cooler box. ACC. Side window wipers. Allergen filter 3 micrometer (1/10,000th inch). Roof hatch. Extra floor mats for easier cleaning. Fire extinguisher, 2 kg (4.5 lb).

BUNK AREA

	6 WD	8 WD
Gross load:	18,000 kg (39,680 lb)	18,000 kg (39,680 lb)
Bunk area:	5.6 m ² -6.0 m ² (60.3-64.6 sq. ft.), hydraulically adjustable	
Load bunks:	Mounted on lines, movable	
Ex. misc. equipment:	LoadFlex, which increases the bunk area up to 6.59 m ² (71 sq. ft.).	

LOADER AND GRAPPLE

Loader:	CRF 14
Reach:	7,500 mm (24'7")
Lifting torque, gross:	155 kNm (114,300 lb-ft)
Slewing torque, gross:	41.3 kNm (30,460 lb-ft)
Rotator:	G121 and slewing dampened link MPB.
Grapple:	Komatsu G36
Ex. misc. equipment:	Komatsu ProTec. Komatsu G36HD grapple, Komatsu G40 or G40HD grapple.

STEERING

	Hydraulic articulated joint.
Lever steering:	Load sensing (LS) proportional steering from loader controls/rocker.
Steering wheel:	Load sensing (LS) proportional servo.
Steering angle:	+/- 40°
Turning radius, 650 tires:	9,147 mm 6WD (30') 9,295 mm 8WD (30'6")

ELECTRICAL SYSTEM

Voltage:	24 V
Battery capacity:	2 x 140 Ah
Generator:	2 x 100 A
Starter motor:	4 kW

LIGHTING

Work lights:	As per measurement standard SS 1784. 16 x 70W, Halogen.
Ex. misc. equipment:	Xenon bulbs in cab and on loader. Loader lighting. Rear work lights. Halogen or Xenon.

CONTROL AND INFORMATION SYSTEM

MaxiForwarder is a CAN-based control system for managing all machine functions via a user-friendly PC interface. The system is used to set and control loader functionality, transmission and diesel engine characteristics, and other machine settings. The system also offers detailed machine information, troubleshooting, and alarm systems.

PC, standard equipment

	2 alternative computers	
	MaxiPC X20	MaxiPC X
Processor	Intel Atom 1,6 GHz	Intel Pentium 1,4 GHz
RAM	1 GB	1 GB
Hard disk	40 GB	40 GB
Screen	10"	12"
USB ports (incl. display)	7 st	8 st
Serial ports	3 st	2 st
Operating system	Windows XP Pro	Windows XP Pro
Available options for MaxiPC X20:	Display 12", slave display 10", DVD, A4 printer, GPS receiver	
Available options for MaxiPC X:	DVD, A4 printer, GPS receiver	

EXAMPLE MISCELLANEOUS EQUIPMENT

Sprinkler system. Semi-automatic water-based fire extinguishing. Conforms to RUS 127. ABE-3 powder extinguishers, 2 x 6 kg (13 lb).

Operator's Manual in paper format (electronic manual is included in Maxi).

Spare Part Catalog in paper format (electronic manual is included in Maxi).

Diesel heater. 9.1 kW incl. timer.

Biodegradable hydraulic oil.

Tracks, chains.

Toolbox with tools.

Centralized lubrication.

Rearview camera as standard (in EES countries in compliance with EU Directive 2006/42/EU).

Water filter, diesel.

For forwarders without front blade: Platforms for ladders over left front wheel and hydraulic tank 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).

NOTES

Standard and extra equipment are market-dependent and vary between countries. The specification describes possible equipment, which is either standard or optional. Stated weights are based on standard equipment. Specifications and designs are subject to change without notice.



WHY A KOMATSU FORWARDER?

High productivity, low operating costs, innovative technology, excellent operator environment – these are just a few examples of the advantages that earn Komatsu forestry machines a place among the best in the world. Behind all this is a highly-focused strategy to continually build upon the advantages of owning a Komatsu forwarder. A strategy based on the following principal ideas.

Ergonomics

Your forwarder is a mobile work environment where the operator's opportunities to perform optimally without tiring are a decisive factor for success. This is an important reference point that has helped us develop the important ergonomic advantages of Komatsu forwarders. Good examples are the stability and the operator environment with its perfect view whether driving or operating the loader.

Economy

The ambition to maximize profitability is one of the most important driving forces in the further development of Komatsu's forwarders. Each small improvement that increases productivity and reliability, reduces costs, or saves time is of interest. Tangible and quantifiable examples from today's Komatsu forwarders include energy-efficient engines, high reliability, and unmatched high productivity per unit of time.

Productivity

More work in less time. This is something we often hear from contractors who switch from competing brands to Komatsu forwarders. And there are many reasons behind this, both large and small. The most important include the high-performance operator environment, superior loader geometry, and great maneuverability and speed.

Customer Support

Fast and competent service has a direct bearing on the performance and economy of any forestry machine. Our extensive service network provides you as a Komatsu owner with a sense of security. Well-trained technicians – Komatsu experts – provide additional assurance. Another benefit is ProSelect, our special line of accessories and consumables. The range is based on a selection of items that are all of the highest quality and designed for both Komatsu and other brands of professional forestry machinery.

Environment

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

Global Experience

Komatsu forwarders can be found the world over. Consequently, they have been adapted to deliver optimum profitability regardless of working 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.

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