

KOMATSU®

855

Nimble and versatile

Forestry Quality™

855

FORWARDERS



Optimizes your profitability

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Komatsu 855 is not only a new all-round forwarder. It is also a forwarder in an entirely new and unique class in terms of everything from productivity and low environmental impact to cost efficiency and operator ergonomics. Here are just a few of the most important benefits:

Engine

The powerful SCR engine based on our special E3 power technology that minimizes NOx emissions (nitrogen oxides) and provides unsurpassed fuel economy. Additional benefits include reduced engine noise and a strong torque for hard work to cleaner engine oil. Noise reduction can be explained by variable fan control where the new, larger engine fan can run at exactly the speed required for cooling.

Operator environment

The all-new cab is higher, wider, has more legroom and more storage space. The feeling of more space inside the cab is striking. The large glass surfaces give improved visibility upwards and to the sides and makes crane operation easier and more relaxing. The cab is designed to provide a quiet operator environment. As an option there is a new driver's seat that provides superb comfort and work area and offers a variety of personal adjustments and settings.



Control system

With Komatsu 855, you get the MaxiExplorer control system that combines simplicity, power and functionality that is unparalleled in the market. The system gives you a leading machine control – engine, transmission, crane, lights, wipers, etc. – that can be easily adjusted, fine-tuned and adapted to the operator’s needs and desires. Komatsu 855 has brand new hand controls, ergonomically designed and well equipped.

Transmission

With Komatsu 855, you get powerful traction of 164 kN and unique interaction between the engine, control system and transmission. A design that ensures you get the most out of your machine at all times. Examples are cruise control, several preset and work optimized driving modes, extra traction on steep terrain and over obstacles. The result is maximum productivity and maximum deployment of each horsepower and liter of diesel.



Eco-friendly and fuel efficient

The powerful new SCR engine both minimizes emissions and optimizes fuel economy.

TOMORROW'S PROFIT MACHINE IS HERE



Work optimized transmission

The new HST transmission with traction of 164 kN gives increased performance through the unique interaction with the control system and the engine.



ORFS couplings

All critical hydraulics use ORFS couplings, which reduces the risk of leaks and downtime.

To develop a completely new, ultra modern and productive forwarder is an achievement. But to do it based completely on the end customers' wishes is an even greater achievement. Komatsu 855 is the result of an extensive study into the daily needs of individual machine owners and operators. This has produced an all-round forwarder offering outstanding ergonomics, productivity and cost-effectiveness.

Take for example the 855's new SCR-



The new cab has been designed to be quieter and provide a more high-performance operator environment as well as more storage space.



The full power of MaxiXplorer gives you everything from more accurate and more efficient machine control to market-leading operating and production reports.

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based engine, which both minimizes emissions and maximizes fuel efficiency. To that you can add improvements in terms of both an impressive torque and cleaner engine oil. Service costs are cut further by the addition of tight-seal ORFS couplings and a minimized number of lubrication points.

A groundbreaking feature when it comes to getting the most out of the machine is 855's new transmission and its unique interaction with the engine

and MaxiXplorer control system. In real terms this gives you benefits such as cruise control, multi work-optimized driving modes and the availability of extra traction that minimizes stalling, reversing and regripping on slopes and over difficult obstacles. And speaking of power, thanks to the 855 being equipped with the full functionality of MaxiXplorer, you also get one of the most modern operating and production report systems.

On the Komatsu 855, productivity

is also uniquely synchronized with ergonomics. A prime example is the new, silent and spacious cab, specially designed to make the operator's work with continual crane movements as simple and easy on the body as possible. The result is a forwarder that delivers equal measures of outstanding job satisfaction and profitability. The kind of profitability that modern forestry demands.

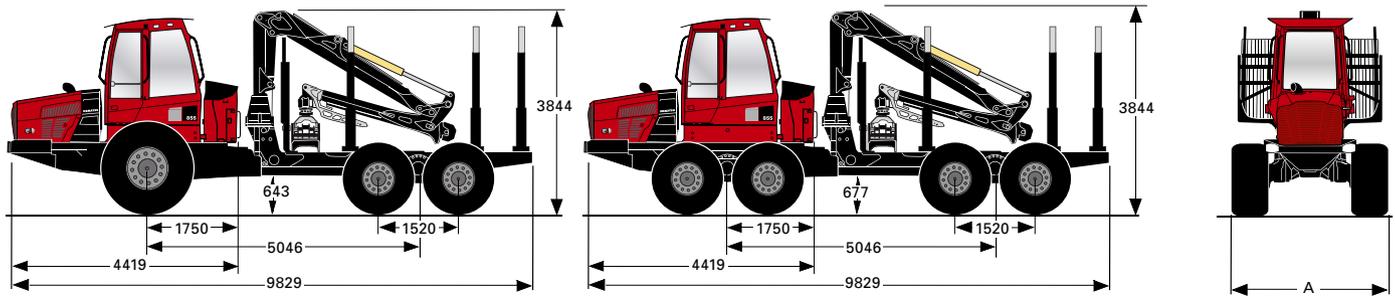
Forestry Quality Economy



Our unique bogie solution, Komatsu Comfort Bogie, gives you superb mobility and stability.



TECHNICAL SPECIFICATIONS



Dimensions of machines with the next shortest of four rear frame options

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

	Tyre selection	Width, (mm)		Tyre	Width, (mm)
6WD (front)	600/65x34	2,690	8WD (front/rear)	600/55x26.5	2,656
	710/55x34	2,894		710/45x26.5	2,886
6WD (rear)	600/55x26.5	2,656			
	710/45x26.5	2,886			

NOTE: Stated dimensions are nominal and may vary slightly.

WEIGHT

	6 WD	8 WD
Weight from:	15,900 kg	17,700 kg

ENGINE

66 AWI. 6-cylinder, turbo with Commonrail. EU Stage IIIB and EPA Tier 4 Interim. DEF/SCR after-treatment (Stage II/EPA Tier 2 for Russia, Australia and South America.)

Stroke volume:	6.6 l
Power, max.:	150 kW DIN (204 hp) at 1,500-1,900 rpm
Torque:	950 Nm at 1,200-1,500 rpm.
Fuel tank:	165 l
DEF tank:	18 litres (for Stage IIIB/EPA Tier 4 engine)
Miscellaneous:	Belt guard (according to EU Directive 2006/42/EC) for all markets.

FRAME/AXLES

Four rear frame option. Smooth frame of high strength steel. Heavy-duty portal bogie. Dampening bogie stops. Towing point forward and rear. Permanently lubricated bearings.

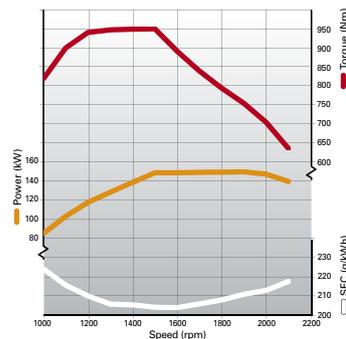
Available options:

Front blade

HYDRAULIC SYSTEM

Single circuit load sensing system with variable piston pump. Wear protection under bogie bearing.

Flow:	290 l/min at 2,000 rpm
Max. working pressure:	23.5 MPa (235 Bar).
Hydraulic oil reservoir:	122 l
Miscellaneous:	Pressure filter for hydrostatic circuit. Double return oil filters for hydrostatic and working hydraulics. Hydraulic oil level alarm.



BRAKE SYSTEM

2-dual circuit, fully hydraulic multi-disc brakes. Hydraulic accumulator charging valve.

Driving brake/ Working brake:	Multi-disc brakes in oil bath. Automatically engaged 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: Roomy, light with excellent vision. Thermal and acoustic insulation.

Safety: Conforms to ISO 8082 (ROPS), ISO 8083 (FOPS) and ISO 8084 (OPS).

Seat: Three alternative seat options. Ergonomically designed with headrest, arm rests, control panels and waist belt. Different opportunities for individual adjustment of the seat cushion, back and lumbar support are provided depending on the seat selection. Seat pillar with 0-180 degree working area.

TRANSMISSION

Computer-controlled hydrostatic-mechanical transmission. 6/8 wheel drive. Disengageable rear wheel drive operation. Differential locks front and rear

Driving speed:	0-20/23 km/h (without/with steering wheel)
Pulling force:	16,273 kp (164 kN)

Windshields:	Protective glass in rear side windows and rear window.
Heating/ventilation:	Fully automatic heating and cooling unit ACC. Filtered intake air.
Noise level:	As per ISO standard.
Vibrations:	As per ISO standard.
Miscellaneous:	Windshield wipers and washer on front and rear windows. Fire extinguisher, 2kg (in EES countries in compliance with EU Directive 2006/42/EU).
Available options:	Sun-blinds around and/or sun raster front. Radio with Bluetooth and Hands-free support. Air-ventilated seat. Food box heater. Refrigerator box. Side wiper. Allergy filter 3 µ (mu). Extra floor mats for easier cleaning. Seat pillar that enables 220-degree working area and freely chosen locked position. Interior light on roof and floor and reading lamp on flexible arm.

LOAD AREA

	6 WD	8 WD
Gross load:	13,000 kg	13,000 kg
Load area:	3.2–4.1 m ² , hydraulic shifting.	
Load bunks:	Mounted on runners, movable.	
Available options:	Movable gate. Komatsu LoadFlex, mechanical or hydraulic height-adjustable supports.	

CRANE AND GRAPPLE

Crane:	CRF 8.1
Reach:	7.8 m
Lifting torque, gross:	106.1 kNm
Slewing torque, gross:	28.7 kNm
Rotator:	G121 and slew damper link
Grapple:	Komatsu G28
Available options:	CRF 8.1 C (Combi crane with a reach of 9.6/10 metres). Komatsu ProTec, Komatsu G36, G36HD, E28 or E36 grapple. Multiplate link.

STEERING

	Hydraulic articulated joint.
Lever steering:	Load-sensing (LS) proportional steering with steering rocker
Steering wheel:	Load sensing (LS) proportional servo.
Steering angle:	+/- 42°

ELECTRICAL SYSTEM

Voltage:	24 V
Battery capacity:	2 x 140 Ah
Generator:	2 x 100 A

LIGHTING

	More than 30 lux in working area.
Available options:	Xenon lighting. Working lights rear (Halogen or Xenon). Articulated lighting (Xenon).

CONTROL AND INFORMATION SYSTEM

MaxiXplorer is a CAN-based control system where you control all machine functions with the support of ergonomic hand controls and a user-friendly PC. The system includes functions for setting of crane functions, transmission control, diesel engine and other machine functions. The system also offers area management, integrated production and operation follow-up, troubleshooting, and alarms.

PC, basic equipment

	2 alternative computers	
	MaxiPC X20	MaxiPC X30
Processor	Intel Atom 1.6 GHz	Intel Core 2.4 GHz
RAM	1 GB	4 GB
Hard drive	40 GB	60 GB
Screen	12"	12"
USB ports (incl. screen)	7	7
Serial ports	3	2
Operative system	Windows XP Pro	Windows XP Pro
Available options:	Slave screen 12", A4 printer, GPS receiver	

EXAMPLES OF OTHER EQUIPMENT

Sprinkler system. Semi-automatic, water-based fire extinguishing. Conforms to SBF 127.

Hand-held extinguisher. 2 x 6 kg ABE-3 Powder extinguisher.

Operator's manual in paper format (even electronic in Maxi).

Spare part manual in paper format (even electronic in Maxi).

Diesel heater. 9.1 kW incl. timer. Hydraulic oil heater.

Environmentally-friendly hydraulic oil

Water separator ventilation filter

Extra water separator (diesel).

Tracks, chains.

Toolbox with tools (heated in the engine compartment).

Central lubrication.

Reversing camera rear (standard in EES countries in compliance with EU Directive 2006/42/EU).

Reversing camera front.

Vacuum pump

Wear protection and chain guard for bogie casings.

Service ladder by hydraulic tank (standard in EES countries in compliance with EU Directive 2006/42/EU).

Front protection.

NOTES

Standard and extra equipment are market specific and vary from country to country. The specification describes possible equipment; not what is standard or optional. Weights are based on the equipment stated in the basic specification. Specifications and designs are subject to alteration without prior 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.