

# KOMATSU®

## 855

Powerful yet compact

Forestry Quality™

855

FORWARDERS



Versatile forwarder in all situations



# 855



**The Komatsu 855 makes it easy to deliver.** With its power, nimbleness and smart solutions, the Komatsu 855 is a forwarder that offers you long-term productivity in all situations.

## Engine

The powerful Stage IV Final engine with SCR technology can handle heavy loads and low engine speeds. Based on well-proven common rail technology with high fuel injection pressure and injection control that is both rapid and more precise, it delivers high engine power, high torque, lower emissions and low fuel consumption. Add to this the fact that the engine has optimised combustion chambers and the result is an engine with maximised combustion efficiency when power is most needed.

## Transmission

The stock traction force of 187 kN makes for a strong forwarder and the unique interaction between engine, control system and transmission makes it particularly manoeuvrable in all situations. The Komatsu 855 provides its highest torque at low engine speeds and automatically adapts to changes in engine load due to terrain, obstacles and inclines. The result is maximised productivity and benefit from every ounce of horsepower and every gallon of fuel.





### Bunk

The Komatsu 855 has a large bunk characterised by its flexibility and many options. One is FlexGate, the gate that improves visibility and flexes out of the way if struck by the crane. This simplifies loading and minimises the risk of machine damage. Another is FlexBunk, which with its hydraulic height-adjustable stakes and option to widen the bunk provides a high load capacity.

### Operator environment

The cab is spacious with plenty of legroom and numerous storage solutions. The large windows offer fantastic visibility upwards, downwards and to the sides and make crane operation easier and more relaxed. The cab has a low noise level and a driver's seat that offers superb comfort and a large working range. Naturally, Comfort Ride cab suspension is available as an option.

### Service

Service and maintenance are quickly and easily conducted. All daily service can be performed from ground level via easily accessible service hatches and the dipsticks are quickly and easily checked. The engine hood is electrically powered and the filters are strategically located together for easy access under the hood. The forwarder has many conveniently located service hatches.





## Strong and nimble

Together, the traction and Komatsu Comfort Bogie provide superb manoeuvrability and stability. A smart bogie lift is also available as an option.

# THE FUTURE IS ALREADY HERE



## Leading cab environment

The cab and optional Komatsu Comfort Ride cab suspension provide a highly spacious, high-performance and ergonomically correct operator environment with low noise levels and good visibility.



## Easy service

An electrically powered hood, more service hatches and strategically located dipsticks and filters make service and maintenance easy. Central lubrication of the crane.

A strong powertrain, a productive crane and a large bunk. Combined with ease of use. These are the keys to productivity provided by the Komatsu 855. The extremely striking design is an added bonus.

Its strength comes from the high standard capacity with the engine, control system and transmission interacting in a unique manner. The six-cylinder engine offers high performance and the fuel injection and emission control technologies fulfil the latest environmental requirements regardless of where in the world you operate. The powertrain provides its highest torque at low engine speeds and automatically adapts to changes in engine load due to terrain, obstacles, inclines and crane loads. Large, efficient radiators and effective radiator seals contribute to greater



With the 855, you get the market's most modern control system – MaxiExplorer. MaxiFleet, the world's first fleet management system for forestry machines, is available as an option.



The engine fulfils environmental requirements that minimise emissions and optimise fuel economy.



# 855



cooling capacity.

Just as important for effective forwarding is a strong, fast and nimble crane with a long reach. Such as the one on the Komatsu 855. It offers a high net lifting force, a reliable pillar and hose routing solution and a Combi outer boom with a long reach and protected hose routing. Moreover, you can choose to add a compact, integrated crane scale with ProTec functionality.

The bunk is characterised by its extensive flexibility and many options.

One option is FlexGate, the gate that can flex both up and down if struck by the crane, and another is FlexBunk, with its hydraulic height-adjustable stakes and bunk-widening function.

The Komatsu 855 is a forwarder you can rely on. With sturdy and robust frames and components, unplanned downtime is minimised while necessary service and maintenance are easily conducted from ground level. The service hatches are generously sized and strategically located, and all filters and

dipsticks are easily accessed. Moreover, with the Komatsu 855 productivity is uniquely interwoven with ergonomics. The comfortable and spacious cab is specially designed to make the operator's working day as easy as possible. And because the operator sits so high up, visibility is not only good to the sides, but also extremely good upwards.

Would you like a forwarder that delivers profitability on a daily basis and makes life easier for operators? Choose the Komatsu 855.

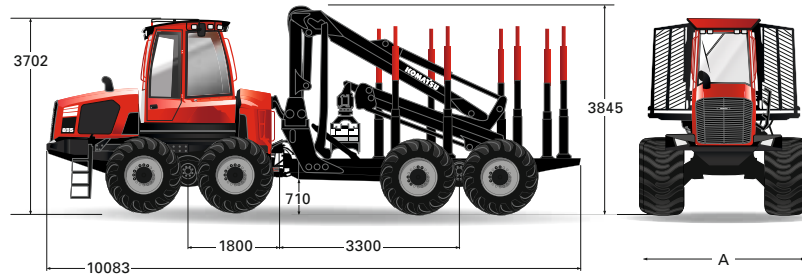


The crane has a long reach and a high net lifting force, a reliable pillar and hose routing solution and a Combi outer boom. Tilttable crane pillar (option) for efficient loading in steep terrain.





# TECHNICAL SPECIFICATIONS



Machine dimensions with the shortest of the three rear frame alternatives.

## WHEEL EQUIPMENT ALTERNATIVES, FRONT AND REAR, AND MACHINE WIDTH (A) WITH DIFFERENT TYRE SELECTIONS

	Tyre selection	Width (mm)
8WD (front/rear)	600/55x26.5	2,726
	710/45x26.5	2,956
	800/40x26.5	3,134

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

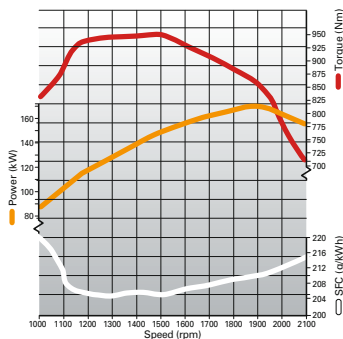
## WEIGHT

8 WD  
Weight from: 18,000 kg

## ENGINE

AGCO Power, 6-cylinder diesel engine with turbo and intercooler. Fulfils the requirements of EU Stage IV and EPA Tier 4 Final.

Engine type: 66-AWF  
 Engine displacement: 6.6 l  
 Power, max.: 170 kW DIN (231 hp) at 1,900 rpm  
 Torque: 950 Nm at 1,500 rpm  
 Fuel tank: 160 l  
 AdBlue® tank: 23 l  
 Other: Belt guard (in compliance with EU Directive 2006/42/EC)



## TRANSMISSION

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

Driving speed: 0–20 km/h  
 Traction force: 187 kN

## FRAME/AXLES

Three rear frame alternatives. Frame with smooth V-shaped bottom made of high-strength steel. Sturdy balanced portal bogie. Dampening bogie stops. Towing points front and rear. Permanently lubricated bearings.

Available options: Front blade and bogie lift.

## HYDRAULIC SYSTEM

Single-circuit load-sensing system with variable piston pump.

Flow: 280 l/min at 2,000 rpm  
 Hydraulic oil tank: 120 l  
 Other: Pressure filter for hydrostatic circuit. Dual return oil filters for hydrostatic and working hydraulics. Hydraulic oil level warning.

## BRAKE SYSTEM

Fully hydraulic multi-disc brakes. Hydraulic accumulator charging valve.

Driving brakes/  
 Working brake: Multi-disc brakes in oil bath. Automatically/manually 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

Spacious and bright with very good visibility. Thermal and acoustic insulation.

Safety: Conforms to ISO 8082 (ROPS), ISO 8083 (FOPS) and ISO 8084 (OPS). Alternative cab that also conforms to WCB OPS G603.

Seat: Two alternative seat options. Ergonomically designed with headrest, armrests, hand controllers and waist safety belt. Depending on seat selection, different options are available for individual adjustment of the seat cushion, backrest and lumbar support. Seat column with 0–180-degree working range.

Windows:	Polycarbonate glass in side windows and rear window. Alternative cab, with polycarbonate glass in all windows.
Heating/ventilation:	Fully automatic heating and cooling unit, ACC. Filtered intake air.
Noise level:	In compliance with ISO standard
Vibrations:	In compliance with ISO standard
Other:	Windscreen wipers and washers on front and rear windows. Fire extinguisher, 2 kg (standard in EES countries in compliance with EU Directive 2006/42/EC)
Available options:	Komatsu Comfort Ride (cab suspension). Blinds on all windows and/or sun shades front and/or rear. Radio with Bluetooth and hands-free support. Air-ventilated seat. Lunch box heater. Cooler box. Side wipers. Allergy filter 3 µ (my). Extra floor mat for easier cleaning. Seat column that enables 220-degree working range and freely selectable locking position. Interior ceiling and floor lighting, and reading lamp on flexible arm. MediaZone

## BUNK

	8 WD
Gross load:	14,000 kg
Bunk area:	4.4-5.9 m <sup>2</sup> depending on options and market.
Load bunks:	Mounted on runners, movable.
Load gate:	Komatsu FlexGate; hydraulic, flexible, full-height gate in fixed or hydraulically manoeuvrable version.
Available options:	Bunk widening, hydraulic height-adjustable stakes coupled to first load bunk with gate and separating supports.

## CRANE AND GRAPPLE

Crane:	130F
Reach:	8.0 / 10.0 m
Lifting torque, gross:	127 kNm
Slewing torque, gross:	28.7 kNm
Rotator:	G121/G141 PROTEC and slew dampened link.
Grapple:	Komatsu G28
Crane tip:	ProTec
Available options:	Alternative grapple models. Crane tilt. ProTec Scale, crane scale.

## STEERING

	Hydraulic articulated joint with two dual-acting hydraulic cylinders.
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 180 Ah
Generator:	2 x 100 A

## LIGHTING

	Numerous working lights on cab/crane (LED/halogen). Articulated joint lighting (LED). Road lighting forward and rearward (halogen).
Available options:	Extra lighting forward, mounted on cab (LED). Extra lighting rearward, mounted on cab (LED). Extra lighting rearward, mounted on load bunk (LED/halogen).

## MAXIPLORER CONTROL AND INFORMATION SYSTEM

- Fully integrated machine control system, CAN-based, with intelligence in the crane, engine and transmission, for optimum performance and fuel consumption
- Production follow-up system for forwarders. Registers timber deliveries (assortments) and roadside wood pile locations. Delivery selection using hand controller buttons.
- Optional ProTec Scale crane scale system. Automatic and highly accurate weighing. Compact scale link with hose routing through the link.
- 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.

## EXAMPLES OF OTHER EQUIPMENT

- Sprinkler system. Semi-automatic water-based fire extinguishing. Conforms to SBF 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 with timer. Hydraulic oil heater.
- Biodegradable hydraulic oil.
- Extra water separator (diesel).
- Tracks, chains.
- Tool box with tools (heated in engine compartment).
- Central lubrication.
- Reversing camera, rear (standard in EES countries in compliance with EU Directive 2006/42/EC).
- Reversing camera, front.
- Vacuum pump.
- Wear guard and chain guard for bogie casings.
- Service ladder at hydraulic reservoir (standard in EES countries in compliance with EU Directive 2006/42/EC).
- Front guard.
- Remote control for central locking (Europe only).

## NOTES

Standard and optional equipment are market-dependent and vary between countries. The specifications describe possible equipment, not which equipment is standard or optional. 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.