

# KOMATSU®

## 875

Strong and productive

Forestry Quality™

875

FORWARDERS



In a class of its own

# 875



**The Komatsu 875 is something of a yardstick when it comes to the demands for a profitable forwarder.** When you look a little more closely, you quickly see that it is in a class of its own regarding everything from productivity and cost efficiency to the operator environment. Here are the most significant benefits:

## Engine

The engine's performance corresponds closely with the stringent demands placed on a large, efficient forwarder, both in terms of high capacity and low environmental impact. Based on well-proven common rail technology with high fuel injection pressure and injection control that is both rapid and more precise, the Stage 4 Final engine 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

With a tractive force of 214 kN, the 875 has all the power required, and the unique interaction between engine, control system and transmission makes it exceptionally manoeuvrable in all situations. The Komatsu 875 provides its highest torque at low engine speeds and automatically adapts to changes in engine load due to terrain, obstacles, inclines and crane loads. The result is maximised productivity and benefit from every ounce of horsepower and every litre of diesel.



## Bunk

The Komatsu 875 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 feeling of volume inside the cab is striking. The large windows offer fantastic visibility upwards, downwards and to the sides, making crane operation easier. The cab has a low noise level and a driver's seat that offers superb comfort and a large working range. Naturally, Comfort Ride is available as an option.

## Servicing

Servicing and maintenance are quickly and easily conducted. All daily servicing can be performed from ground level via easily accessible service hatches and the dipsticks are quickly and easily checked. When the time comes for a service, the hood is electrically powered and the filters are located together for easy access under the hood. The forwarder has many conveniently located service hatches.



## Strong, fast crane

The newly developed 145F crane (optional) offers a high net lifting force, high torque, a reliable pillar and hose routing solution and a Combi outer boom with a long reach and protected hose routing. The simple Tele-outer boom provides a full 8.5-metre reach.

# THE FUTURE FOR YOUR ECONOMY



## Excellent operator environment

The design of the cab delivers low noise levels and a high-performance operator environment with good visibility and plenty of storage compartments.



## Simple maintenance

The hood is electrically powered, and beneath it the engine composition is sleek and well-planned with easily accessible filters.

The Komatsu 875 does not compromise on anything. Many of the very best solutions are combined here to create the optimum forwarder. This makes it strong and robust, with an effective crane and a high load capacity.

In terms of its design and performance, the Komatsu 875 is large enough to give itself a unique position on the market with its 16 tonne load capacity. The chassis, axles and crane are robust and properly dimensioned, and the articulated joint system is now cast. Another important feature is the 7.4-litre engine which, with tried and tested SCR technology, not only minimises emissions and maximises fuel efficiency, but also delivers extremely high performance. The power is supplied by fuel injection and emission control technologies that fulfil the



The ingenious HST transmission, with an underlying tractive force of 214 kN, produces improved performance thanks to a unique interaction with the control system and engine.



MaxiXplorer delivers everything from more precise and efficient machine control to operational and production follow-ups, improving profitability.



latest environmental requirements. 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. The ingenious transmission solution delivers optimum interaction between engine, transmission and control system, making the machine particularly manoeuvrable.

Just as important for effective forwarding is a strong, fast and nimble crane with a long reach. 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. You can also choose to add a dependable crane scale.

The large bunk is characterised by flexibility, with many different options. One is FlexGate, the gate that can flex out of the way if struck by the crane. Another is FlexBunk, with crane-operated bunk widening and hydraulic height-adjustable stakes.

An absence of compromise also

characterises the high-performance operator environment. The comfortable and spacious cab is specially designed to make the operator's working day as easy as possible. Servicing and maintenance can also be conducted extremely quickly and easily. All daily servicing can be performed from ground level via easily accessible service hatches.

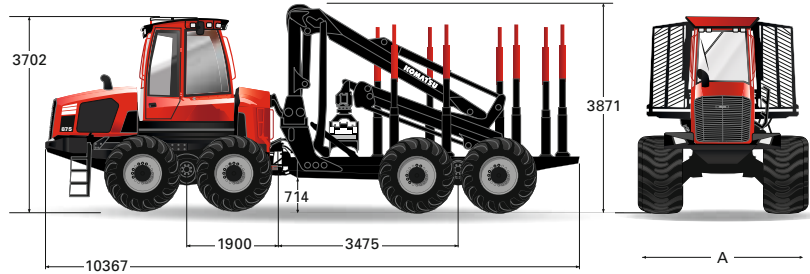
The result is a forwarder that fulfils the needs of modern forestry and generates profitability that is sustainable in the long-term.



Thanks to its optimal balancing, the Komatsu Comfort Bogie – our portal bogie – provides superb ground clearance and off-road driving properties.



# TECHNICAL SPECIFICATIONS



Dimensions shown for Short Rear Frame arrangement (mm/inches)

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

	Tyre selection	Width (mm)
8WD (front/rear)	710/45x26.5	2,980
	800/40x26.5	3,170

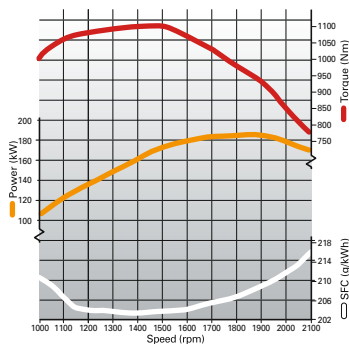
NOTE: Stated dimensions are nominal and may vary slightly depending on production tolerances.

## WEIGHT

	8 WD
Weight from:	19,900 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:	74-AWF
Engine displacement:	7.4 l
Power, max.:	185 kW DIN (251 hp) at 1,900 rpm
Torque:	1,100 Nm at 1,500 rpm
Fuel tank:	210 l
AdBlue® tank:	35 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
Tractive force:	214 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.

## HYDRAULIC SYSTEM

	Single-circuit load-sensing system with variable piston pump.
Flow:	360 l/min at 2,000 rpm
Hydraulic oil tank:	150 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 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 in side windows and rear window. Alternative cab, with Polycarbonate 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 EEA countries in compliance with EU Directive 2006/42/EC)
Available options:	Komatsu Comfort Ride (cab suspension). Blinds on all windows and/or sun blinds, front. Radio with Bluetooth and hands-free support. Air-ventilated seat. Lunch box heater. Cooler box. Side wipers. Allergy filter 3 µ (mu). Extra floor mat for easier cleaning. Seat column that enables 220° working range and freely selectable locking position. Interior ceiling and floor lighting, and reading lamp on flexible arm. MediaZone.

#### BUNK

	8 WD
Gross load:	16,000 kg
Bunk area:	4.7-6.4 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 first load bunk with gate, separating supports, LoadFlex.

#### CRANE AND GRAPPLE

Crane:	130F	145F
Reach:	8.0/10.0 m	8.5/10.0 m
Lifting torque, Gross:	127 kNm	145 kNm
Slewing torque, Gross:	28.7 kNm	38.0 kNm
Rotator:	G121/G141 ProTec and slew dampened link.	
Grapple:	Komatsu G28	Komatsu G36
Crane tip:	ProTec	
Available options:	Alternative grapple models. ProTec Scale, crane scale.	

#### STEERING

	Hydraulic articulated joint with two dual-acting hydraulic cylinders.
Joystick 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
Alternator:	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 head, 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. 9.1 kW with timer. Hydraulic oil heater.
- Environmentally friendly hydraulic oil.
- Extra water separator (diesel).
- Tracks, chains.
- Tool box with tools (heated in engine compartment).
- Central lubrication.
- Reversing camera, rear (standard in EEA 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 EEA countries in compliance with EU Directive 2006/42/EC).
- Front guard.
- Remote control for central locking (Europe only).

#### NOTES

Standard and extra 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.



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