

# KOMATSU

## Komatsu 845



Agile and versatile forwarder  
for both thinning and lighter final logging



Modern Komatsu forwarders can trace their design origins back to models from the 1990s. The 840, for example, was upgraded with a 6-cylinder engine to become the 860. This period also heralded the birth of Komatsu's successful forwarder concept, which is based on ideas such as a low centre of gravity and an articulated joint facing the same direction as the rear frame. And thanks to this concept, Komatsu still offers the most stable forwarders on the market.



**The Komatsu 845** is a popular mid-class forwarder, a truly versatile machine that performs well in both thinning and lighter final logging. The agile design and 26.5" wheels ensure favourably low ground pressure, and there are two cranes to choose between. Like all Komatsu forwarders, the Komatsu 845 offers a good work environment with its spacious cab, ergonomic design and comfort-enhancing options such as Comfort Ride.

# Designed with your profitability in mind

Komatsu forwarders are designed to be productive and profitable forestry companions. Here we present some of the advantages they offer to boost your business.



## Flexible load area

Would you like a wider load area to carry more timber in a single load? Or hydraulic stakes that are easily lowered so that the crane can be kept lower to improve productivity and save fuel?

Every Komatsu forwarder has a flexible load area with many options to tailor it to your particular needs, enabling you to complete your forwarding work as efficiently and effectively as possible.

## A crane that makes its mark

The crane is of our design and fully optimised for use on a Komatsu forwarder, making it both reliable and productive.

Choose between different crane and grapple sizes for a crane solution tailored to your logging needs. The crane can also be equipped with smart options such as an integrated tilt column and effective lighting.

Together with the powerful base machine, the Komatsu crane plays a key role in helping you to achieve your goals.

## An engine that gets the job done

Every Komatsu machine has a powerful engine that combines raw strength with high torque at low engine speeds, making it ideal for terrain driving and helping to reduce fuel consumption.

Each engine also has a sturdy build, designed to minimise maintenance and repair costs.



### **The Komatsu concept for excellent stability**

Komatsu forwarders get their excellent stability from the Komatsu concept's intelligent design solutions.

A stable machine offers you a work environment in which you feel safer and more relaxed while on the job, enabling you to maintain higher productivity and high energy levels throughout the day.

### **Off-road manoeuvrability**

Manoeuvring in the forest demands a machine with good off-road handling and powerful transmission.

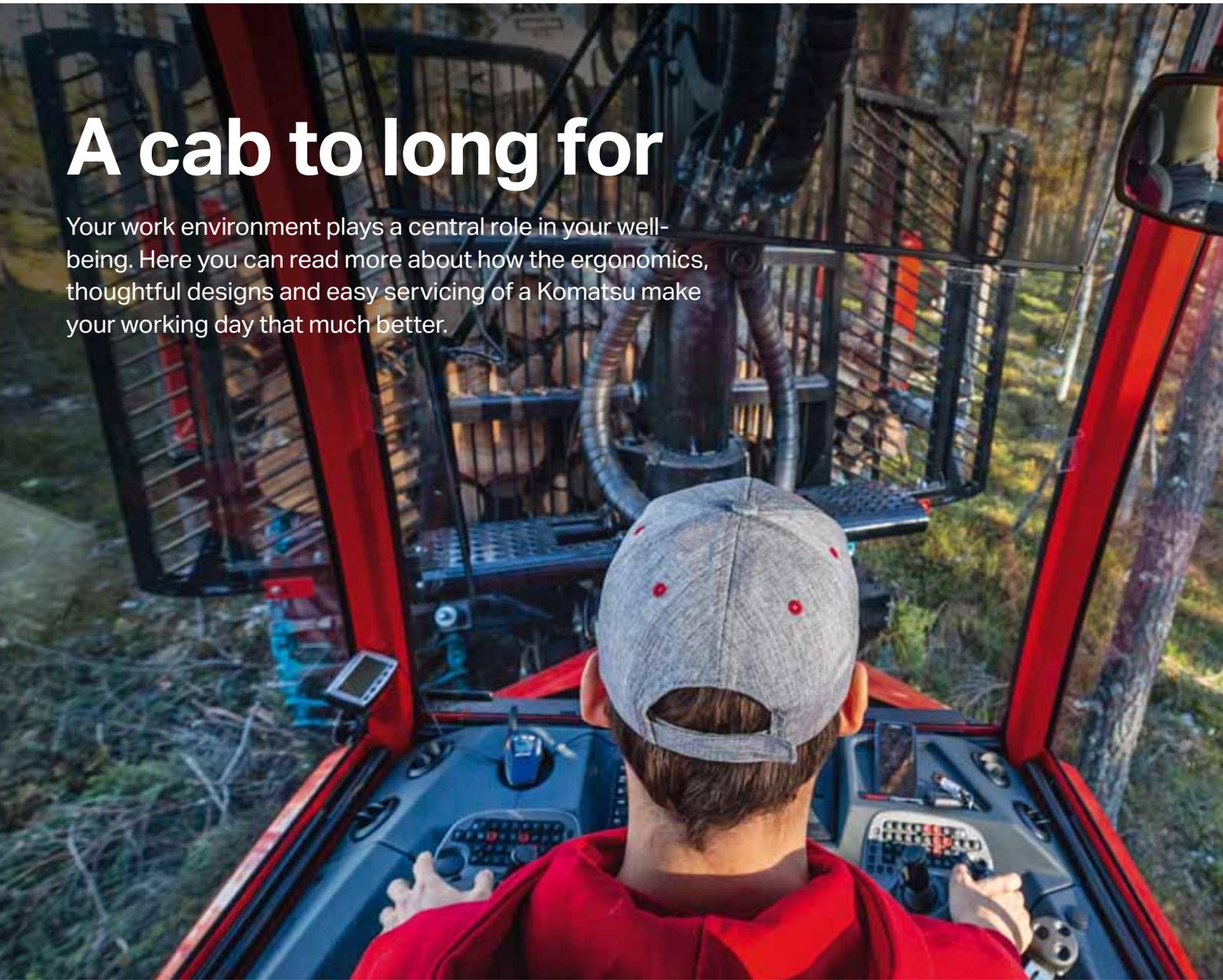
High portal bogies ensure good ground clearance on all Komatsu forwarders while the intelligent transmission optimises its operation according to the machine's load, current ground conditions and the power and torque produced by the diesel engine. The end result is a truly agile forwarder, even in demanding terrain.



You can read more about our stable Komatsu concept at: [www.komatsuforest.com](http://www.komatsuforest.com)

# A cab to long for

Your work environment plays a central role in your well-being. Here you can read more about how the ergonomics, thoughtful designs and easy servicing of a Komatsu make your working day that much better.



## Good visibility in all directions

The cab is your work environment and a place we want you to enjoy. This is why our forwarder cabs are spacious and quiet with good visibility in all directions. The gate has a well-considered design that easily allows you to see through the slats. It also has a matte finish to minimise distracting reflections.

## Interior lighting that does what it should

The cab has practical lighting along with both the ceiling and the floor to quickly find what you are looking for. There is also an optional reading lamp with a flexible arm. Night mode switches all the cab lights to a faint red glow, making things easier on the eyes when it is dark outside.

## A comfortable driving experience

The driver's seat provides good back support, is electrically adjustable and even offers adjustable legroom. It has a built-in heater and can also be equipped with ventilation for a more comfortable work environment. If you would like to take your work environment to the next level, we recommend Comfort Ride, our hydraulic cab suspension, which you can read more about on the options page.



## Ergonomic hand controllers, pedals and buttons

All hand controllers and pedals boast ergonomic designs and are close to hand in the cab. All buttons are illuminated so that you can easily navigate the controls in the dark, and many of their functions can be programmed for a highly personalised keypad set-up. The forwarder is easily manoeuvred using an electric mini steering wheel rather than the Orbital steering wheel found on older models.



## Comforts to see you through the working day

Enjoy a premium-quality interior with plenty of storage spaces in the practically designed panels. The cab also boasts an optional food box heater and cooler, enabling you to easily prepare your meal when it is time for a well-deserved break. The cab climate is kept comfortable by an ACC system that automatically regulates the airflow and temperature to match your preferences. Moreover, the cab can be fitted with an optional microfilter for even cleaner air.



## Easily serviced

Machine maintenance should be easy, especially the measures that need to be conducted regularly. This is why Komatsu forwarders have many smart solutions to make life easier for operators. The electrically operated hood can be opened 90 degrees for easy access, and the entire cab can be tilted electrically. Moreover, the optional filling pumps make light work of topping up with hydraulic oil and diesel.

Our forwarders can be equipped with practical service lighting in advantageous places for easy servicing even in the dark. These are just a few of the solutions designed to make your working day that much easier.



# For forestry today as well as tomorrow

As a machine manufacturer, we consider it important to strive to reduce our environmental impact, whether within production or in terms of machines with minimal forest impact. There are many challenges, but we are working hard to develop the solutions of the future while continually identifying opportunities for improvement, right down to the smallest details.

## Production with the environment in mind

Autumn 2021 saw the start of production at our new factory. Since we have spent many years making our production more environmentally friendly, it was a given to keep climate impact in mind when building our new factory. Atop its roof is a solar farm comprised of 7,000 solar panels, covering an area of almost 19,000 m<sup>2</sup> or 3½ football pitches. The factory has been built using modern techniques to reduce energy consumption while geothermal energy provides most of the heating. We are proud of our new factory and the environmental progress it represents, and efforts to further reduce our environmental footprint will continue.

## Low emissions and low fuel consumption

When operating a Komatsu forwarder, you can rest assured that it complies with strict NO<sub>x</sub> and particulate emissions legislation. Moreover, we have worked hard to make our machines as fuel efficient as possible while still being able to offer exceptional performance. Every litre of diesel saved counts! To further reduce emissions, you can choose to use HVO, a greener fuel compatible with all our engines.

## Options with the climate in mind

We have several options that help reduce a machine's carbon emissions by various means. Our smart SpeedShift gearbox automatically shifts up as your speed increases, ensuring optimal working revs at all times and thereby reducing emissions and lowering fuel consumption. Our Smart Crane and SmartFlow crane options both help optimise crane operation and thereby reduce emissions, with tests showing that both functions help reduce the machine's fuel consumption.



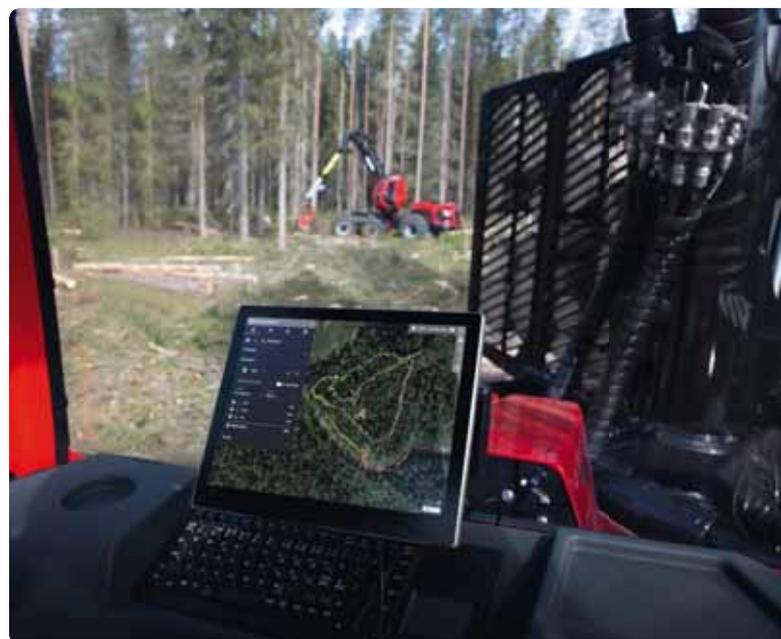


## Smarter ways of getting timber to the roadside

As an operator, you too have ample opportunity to make a difference with smart decisions. Our MaxiFleet technology can offer knowledge and insights to help you along the way, with smart map layers providing valuable information about ground and weather conditions as well as the location of the timber. All this makes it easier for you to plan your driving and choose the best route to reduce both distances and ground damage.



[Read more about MaxiFleet > Forestry Solutions brochure](#)



# The choice is yours

To ensure that you have the best possible workplace, we have developed options that help you to maintain not only high productivity, but also an ergonomic and comfortable work environment. Everything for your wellbeing – both now and after many years on the job.

## SpeedShift

With SpeedShift, your forwarder automatically shifts up as you increase speed. In addition to giving operators one less thing to think about, SpeedShift has the advantage of maintaining optimal engine speed, which saves fuel and can even increase productivity. SpeedShift is most advantageous during transport driving.



## Tailor your workplace

The cab of a Komatsu forwarder has an ergonomic design with many added conveniences. We even have a wide range of extra equipment that enables you to tailor your workplace to suit your personal preferences.

Optional extras include:

- **KCC advanced hand controllers with five extra programmable buttons**
- **Sunshades**
- **Radio with Bluetooth and hands-free support**
- **Ventilated seat**
- **Food box heater**
- **Cooler**
- **Side wipers**
- **Allergy filter 3 µ**
- **An additional floor mat that is easily removed for cleaning**
- **Seat column with 220° working range that can be locked in any position**
- **Interior ceiling and floor lighting, reading lamp on a flexible arm**
- **Remote control key**
- **MediaZone**
- **Modem**
- **Extra display, front**
- **Touchscreen**





## An illuminating option

Good visibility is a prerequisite for doing a good job and working long hours without tiring. Our machines are equipped with effective lighting as standard, but we even offer several optional lamps for additional illumination.



## Crane tilt

The crane tilt option enables you to work as though on the flat ground even when on a slope by compensating for the incline. This allows the machine to offer flat-ground performance on up to 22 degrees inclines.



## Bogie Lift/ Bogie Lift Advanced

Bogie Lift enables you to raise the front bogie when necessary, such as crossing a ditch on the way to the landing or avoiding chains before transport driving.

Bogie Lift Advanced enables you to control the left and right sides individually, which makes it easier, for instance, to pass obstacles in uneven terrain.



# Options

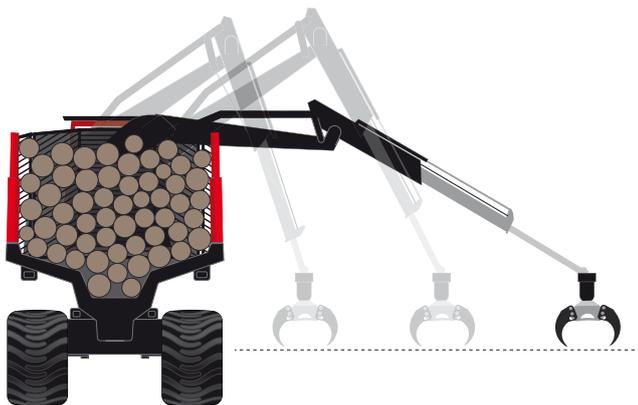


## Comfort Ride

Comfort Ride is our hydraulic cab suspension with a 4-point design that effectively damps jolts and vibrations caused by the terrain, tracks and crane. With the latest generation of Comfort Ride, you can also adjust the lateral rigidity, enabling you to find your sweet spot. Another advantage is the automatic levelling, which keeps the cab upright on inclines of up to 6 degrees while stationary or at low speed,

simplifying loading and unloading.

There is already a function to raise the cab to its topmost position for the best possible view when unloading. However, with Komatsu's latest Comfort Ride, this function works even when moving slowly so that you can work as efficiently and ergonomically as possible.



## Smart Crane/SmartFlow

Smart Crane is a crane tip control solution for operation smooth and exact. With just three joystick movements, the operator can quickly get the grapple exactly where they want it. The telescopic boom extension is controlled automatically, meaning one less thing for the operator to think about. Smart Crane offers advantages such as less fatigued operators, greater productivity and a flatter learning curve for new operators.

The technology found in Smart Crane builds on SmartFlow, our intelligent crane control. With its active crane damping, it ensures impressive responsiveness – SmartFlow has been described as making the crane an extension of your arm. Smart Crane includes the SmartFlow option, although it is also available separately.



# Creating value together

The forestry industry supplies valuable materials that benefit us all. From construction materials for homes and fences through packaging for groceries and parcels to the pages of our kids' bedtime storybooks and energy to heat our homes.

As a raw material, wood also plays an essential role in transitioning from fossil-based materials to more renewable alternatives. And it is your hard work that makes all this possible, so thank you!

We want to be a partner you can trust when creating these values. Komatsu has stood by your side for an entire century, offering unique quality, peace of mind, knowledge and support. From innovation to manufacturing, our way of working is distinguished by our partnership with you, our customers. Together, we create the solutions required to achieve a sustainable future for people, businesses and our planet.



# A load area tailored to your needs

Every Komatsu forwarder has a load area characterised by flexibility and multiple options. By combining various options, you can create the perfect load area for your type of work and one that helps to increase your productivity.



## FlexBunk – a world of flexibility

FlexBunk is the name of our flexible bunks that can be tailored to your needs. Fixed stakes and standard-width bunks are included as standard, but you can combine several options to create a more customised load area.

### Hydraulic height-adjustable stakes

Lower stakes enable you to keep the crane lower, which means faster crane operation and improved fuel economy.

### A wider load area

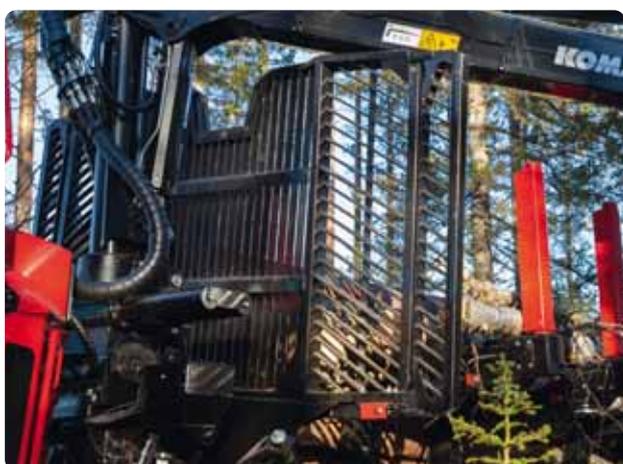
You can also widen the load area with the optional widening kit, which includes widening sleeves attached to the bunks. The crane can then extend and retract these sleeves as necessary, and we even have an option to widen the load area manually.



Hydraulically operated gate (option)



Group assortments with separating supports (option)



## FlexGate

FlexGate is our ingenious standard gate that improves visibility and flexes out of the way if struck by the crane, thereby simplifying loading and minimising the risk of damage to the machine. We also offer a range of widening wings for FlexGate.

## Technical specifications



### Dimensions

#### eight-wheeler with shortest rear frame option and 600 mm tyres

	105F crane	130F crane
<b>A</b> Width	2,620 mm	2,620 mm
<b>B</b> Length, total	9,380 mm	9,380 mm
<b>C</b> Length, front axle to articulated joint	1,900 mm	1,900 mm
<b>D</b> Length, articulated joint to rear axle	2,900 mm	2,900 mm
<b>E</b> Transport height, with hoses and tyre compression	105F with crane tilt: 3,840 mm	130F: 3,880 mm
<b>F</b> Ground clearance, at steering coupling	660 mm	660 mm

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

### Weight

Weight from	16,950 kg
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### Engine

	4-cylinder diesel engine with turbo and intercooler. EU Stage V (Europe) and EPA Tier 4F (North America).
Engine displacement	4.9 l
Power, max.	140 kW DIN at 1,900 rpm
Torque	800 Nm at 1,500 rpm
Fuel tank	142 l
AdBlue® tank	13.5 l (filled volume)
Examples of other equipment	Water separator. Fuel filter. Throttle, electric via CAN. Thermostat-controlled fan (electric). Electric refuelling.

### Transmission

	Computer-controlled hydrostatic mechanical transmission. Direction of travel and driving speed controlled via a keypad on the armrest as well as foot-operated forward/reverse controls when in working mode. Transfer gearbox with 2 positions (high and low). Disengageable rear drive.
Driving speed	0–approx. 25 km/h
Tractive force	170 kN
Examples of other equipment	SpeedShift

### Frame/Axles

	Several rear frame options. Frame with smooth V-shaped bottom made of high-strength steel.
Front and rear axles	Geared bogie of "hi clearance" type with portal gears housed in the rims. Differential with mechanical differential lock. Internal multi-disc wet brakes. Damping bogie stops.
Examples of other equipment	Front blade. Stabiliser. Towing points front and rear. Bogie lift.

### Hydraulic system

	Single-circuit load-sensing with variable piston pump.	
Flow	280 l/min at 2,000 rpm	
Hydraulic oil tank	128 l	
Working pressure, max.	105F: 24.5 MPa	130F: 26 MPa
Other	Dual return oil filters for hydrostat and working hydraulics. Hydraulic oil level alarm. Sight glass level check. Clogging indicator for return oil filter. Visual alarm in cab.	

### Brake system

	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

	Tested in accordance with applicable ISO standard. Spacious and bright with very good visibility. Thermal and acoustic insulation.
Seat	Several alternative seat options. Ergonomic design with headrest, armrests, joystick keypads and lap 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° working range.
Windows	Polycarbonate windows throughout
Heating/ventilation	Fully automatic heating and cooling unit, ACC. Filtered intake air.
Noise level	As per ISO standard
Vibrations	As per ISO standard
Other	Windscreen wipers and washers on windscreen and rear window. Fire extinguisher, 2 kg (standard in EEA countries in compliance with applicable EU Directive).
Examples of other equipment	Komatsu Comfort Ride (cab suspension). Radio with Bluetooth and hands-free support. Seat column with 220° working range. MediaZone.





### Load area

Gross load	12,000 kg
Load area	3.5–4.8 m <sup>2</sup>
Load bunks	Mounted on runners, movable. FlexBunk, compatible with widening kit (option).
Load gate	Komatsu FlexGate, hydraulically flexible full-height gate, fixed or hydraulically adjustable model.
Examples of other equipment	Bunk widening kit. Hydraulically adjustable stakes.

### Crane and grapple

Crane	105F	130F
Reach	7.7/9.5/10 m	8/10 m
Lifting torque, gross	103 kNm	127 kNm
Slewing torque, gross	28.7 kNm	28.7 kNm
Rotator	G121/GT151	
Grapple	Komatsu G28	
Crane tip	ProTec	
Examples of other equipment	Alternative grapple and rotator models. Crane tilt.	

### Steering

	Hydraulic articulated steering with dual double-acting hydraulic cylinders.
Joystick steering	Load-sensing (LS) proportional steering with steering rocker switch.
Steering angle	±43°
Electric steering	Finger-controlled mini steering wheel on right armrest.

### Electrical system

Voltage	24 V
Battery capacity	2 x 140 Ah
Alternator	2 x 100 A

### Lighting

Working lights	10 lights on cab and 2 lights on crane (halogen)
Driving lights	2 front lamps (halogen)
Service lighting	LED lights in service compartments
Examples of other equipment	Working lights (LED), variations of extra working lights (LED), driving lights on rear bunk and separate mount by tow bar (LED). Driving lights, front (LED).



### Examples of other equipment

- Sprinkler system. Semi-automatic water-based fire extinguishing. Conforms to SBF 127.
- Hand-held fire extinguishers (powder). 2 x 6 kg ABE-3.  
Cab fire extinguisher (powder), 2 kg (CE).
- Diesel heater. 9.1 kW incl. timer (engine, cab, hydraulic oil).
- Biodegradable hydraulic oil.
- Tracks, chains.
- Extra storage boxes for hydraulic hoses on sides of rear frame.
- Toolbox with tools (heated in engine compartment).
- Central lubrication.
- Reversing camera, rear (standard in EEA countries in compliance with applicable EU Directive).
- Reversing camera, front.
- Vacuum pump.
- Wear guard and chain guard for bogie casings.
- Service ladder at hydraulic tank (standard in EEA countries in compliance with applicable EU Directive).
- Front guard.
- Remote control for central locking (Europe only).

### Notes

Standard and extra equipment are market-dependent and vary between countries. This product brochure describes functions that are in some cases optional. Check with your dealer as to what 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.



### MaxiXT control and information system

- Fully integrated machine control system, CAN-based with crane, engine and transmission intelligence 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.



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