

# KOMATSU<sup>®</sup>

## 845

Productive and gentle

Forestry Quality<sup>™</sup>

845

FORWARDERS



The profit-driving forwarder  
with low environmental impact

# 845



**The Komatsu 845** is built to provide the highest possible productivity in thinning and lighter clear cutting. At the same time, it's the forwarder that delivers the best conceivable operating economy but without causing undue impact on the environment, thanks to:

### Weight, machine width and wheels

The forwarder's superior manoeuvrability, accessibility and its minimal impact on the environment, as well as its low ground pressure and high clearance, are all due to the machine's low weight, slim exterior dimensions and 26.5-inch wheels.

### Engine and power-train

The new Stage 4 Final engine, which minimises emissions and fuel consumption, and the new power-optimised transmission.



### Load area and crane

Flexible load area and new FlexBunk bunks with mechanical widening and hydraulic stake height adjustment enable a 12-ton load capacity regardless of timber length. New crane with the tailored geometry, new column solution and combination outer boom optimise productivity and simplify service.

### Operator environment

Spacious cab with new hand controllers provides a high performance and ergonomic working environment that optimises productivity.



## Environmental and fuel economy benefits

The new powerful E3 Power engine both minimises emissions and optimises fuel economy.

# SPECIALLY DESIGNED DOWN TO THE SMALLEST DETAIL



## Excellent operator environment

The new cab and the new Komatsu Comfort Ride cab suspension (option) provide a spacious, high-performance, ergonomically correct and quiet operator environment.



## Add extra equipment

Despite its compact format, the 845 can be equipped with many useful options. You can choose to supplement the forwarder with such quality-enhancing equipment as a bogie lift, front blade, Comfort Ride suspension system, front guard and many more options.

Optimised, unique components for achieving the highest possible productivity and manoeuvrability but with minimal environmental impact. It is this exacting and uncompromising basic philosophy that makes the new Komatsu 845 the ultimate specialist for thinning and lighter clear cutting.

Just take how little impact it has on the forest. The 845 is not only extremely small and lithe, the design is also weight-optimised and the ground pressure is impressively low. Something that is complemented with an extremely short turning radius and superior tracking properties.



The 845's 26.5-inch wheels provide both extra traction and higher clearance. There is space for chains on both wheels or for broad tracks.



With the 845, you have the market's most modern control system – MaxiXplorer. MaxiFleet is available as an option, the world's first fleet management system for forestry machines.

# 845



The new four-cylinder E3 engine's properties are pioneering. The view forward with the short front is phenomenal. The engine and exhaust control technology (SCR) provides world-class fuel economy as well as emissions reduction (Stage 4 Final). What's more, with the new transmission you will get all the power you need for maximum production capacity. Mobility is further strengthened by the large 26.5-inch wheels.

Productivity is illustrated by the 845's high load capacity. The new FlexBunk bunks with mechanical widening and hydraulic vertical stake adjustment

enable you to carry loads up to 12 tons regardless of timber length. This means that you can usually make the most of the load capacity. It also means that the lifting height of the crane is much lower, which benefits productivity when thinning in tight spaces. The new visibility-optimised FlexGate gate makes loading easier and minimises the risk of damage to the gate and crane.

The 845's crane is an important productivity factor. The new Komatsu 105F crane model, with geometry custom-made for the 845 model, significantly contributes to productivity.

The new combination outer boom makes service easier and the large hydraulic lines provide high capacity. The spacious and high-performance cab environment also makes the job easier. With the Comfort Ride option – our hydraulic cab suspension solution – shocks, impacts and vibrations are greatly reduced. Choose the new Komatsu 845 for the greatest possible profitability – exactly what you need in today's modern forestry operations!

## Forestry Quality Economy

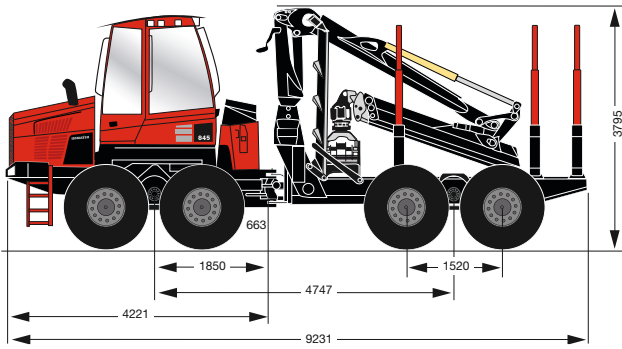


The 845 is built on a unique platform for when the requirements for manoeuvrability and low ground pressure are prioritised.

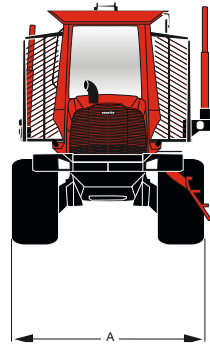


The 845 has a new weight-optimised frame system that produces the best possible obstacle-handling capability, manoeuvrability and operational reliability.

# TECHNICAL SPECIFICATIONS



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



## WHEEL EQUIPMENT ALTERNATIVES, FRONT AND REAR, AND MACHINE WIDTH (A)

	Tyre selection	Width (mm)
8WD (front/rear)	600/55x26.5	2,620
	710/45x26.5	2,940

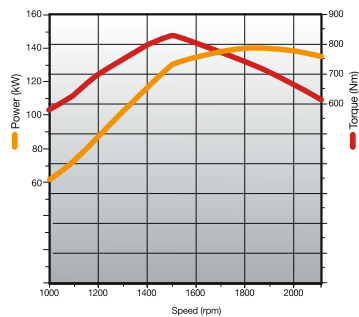
NOTE: Stated dimensions are nominal and may vary slightly depending on production tolerances.

## WEIGHT

	8WD
Weight from:	16,600 kg

## ENGINE

	AGCO POWER 49 AWF-4V, 4-cylinder diesel engine with turbo and intercooler. EPA Tier 4 Final and EU stage 4.
Stroke volume:	4.9 l
Power, max.:	140 kW DIN at 1,900 RPM.
Torque:	830 Nm at 1,500 RPM
Fuel tank:	124 l
AdBlue/DEF tank:	15.5 litres
Ex. of other equipment:	Water separator. Fuel filter. Throttle, electrical via CAN. Thermostat-controlled fan (electric). Electrical refuelling.



## TRANSMISSION

	Computer-controlled, hydrostatic mechanical transmission. Direction of travel and driving speed controlled via keypad on the armrest and foot-operated forward/reverse controls in the working position. Transfer gearbox with 2 positions (high and low). Disengageable drive operation.
Driving speed:	0–24.5 km/h (24.5 with steering wheel)
Traction force:	166 kN

## FRAME/AXLES

Front and rear axles:	Two rear frame alternatives. Frame with smooth V-shaped bottom made of high-strength steel. Geared bogie type “hi clearance” with portal axles housed in the rims. Differential with mechanical differential lock. Internal multi-disc wet brakes. Dampening bogie stops.
Ex. of other equipment:	Front blade. Stabiliser. Towing point, front and rear. Bogie lift.

## HYDRAULIC SYSTEM

	Single-circuit load-sensing system with variable piston pump.
Flow:	280 l/min at 2000 RPM
Hydraulic oil tank:	127 l
Working pressure, max.:	24.5 MPa (245 bar)
Miscellaneous:	Dual return oil filters for hydrostat and working hydraulics. Hydraulic oil level warning. Sight glass level check. Clogging indication for return oil filter. Visual alarm in cab.

## 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

	Safety tested. Spacious and bright with very good visibility. Thermal and acoustic insulation.
Safety:	Conforms to ISO 8082-1 (ROPS), ISO 8083 (FOPS) and ISO 8084 (OPS). Alternative cab that also conforms to WCB OPS G603.
Seat:	Three alternative seat selections. Ergonomically designed with headrest, armrests, joystick panels and waist safety belt. Depending on seat selection, different capabilities are available for individual adjustment of the seat cushion, backrest and lumbar support. Seat column with 0–180-degree working range.
Windshields:	Safety glass in side windows and rear wind-screen. Alternative cab, compliant with WCB OPS G603, with safety glass in all windows.
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. Driving/acceleration pedal, electric via CAN, in transport position and crane position. Inside rear-view mirror.
Ex. of other equipment:	Komatsu Comfort Ride (cab suspension). Blinds on all windows and/or sun-shield raster, front. Radio with Bluetooth and hands-free support. Air-ventilated seat. Lunch box heater. Refrigerator. Side wipers. Allergy filter 3 µ (my). Extra floor mat for easier cleaning. Seat column that enables 220-degree working range and freely selected locking position. Hand-held fire extinguishers. Interior ceiling and floor lighting, and reading lamp on flexible arm.

### LOAD AREA

Gross load:	8 WD 12,000 kg
Load area:	4.13–4.72 m <sup>2</sup>
Load bunks:	Mounted on runners, movable. FlexBunk, ready for installation of widening kit (option).
Load gate:	Komatsu FlexGate; hydraulic, flexible, full-height gate in fixed or hydraulically manoeuvrable configuration.
Ex. of other equipment:	Bunk-widening kit. Hydraulic vertical stake adjustment.

### CRANE AND GRAPPLE

Crane:	Komatsu 105 F
Reach:	7.8/9.5/10 m
Lifting torque, gross:	103 kNm
Slewing torque, gross:	28.7 kNm
Rotator:	G121 and slew dampened link MPB
Grapple:	Komatsu G28
Crane tip:	ProTec (standard)
Ex. of other equipment:	Alternative models of grapples and rotators. Crane tilt.

### STEERING

	Hydraulic articulated steering with two dual-acting hydraulic cylinders.
Lever steering:	Load-sensing (LS) proportional steering with steering rocker.
Steering angle:	+/- 43°
Ex. of other equipment:	Wheel steering, load-sensing (LS) proportional servo.

### ELECTRICAL SYSTEM

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

### WORK LIGHTING

	Over 30 lux in work area. Halogen.
Ex. of other equipment:	Work lighting, cab/crane (LED). Articulation lighting (LED/halogen). Extra work lighting, back, mounted on cab (LED). Extra work lighting, back, mounted on bunk (LED/halogen). Road lighting.

### 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.
- Handheld fire extinguisher (powder). 2 x 6 kg ABE-3. Cab fire extinguisher (powder), 2 kg (CE).
- Machine-specific, printed instruction manual (also electronic in Maxi).
- Printed spare parts catalogue (also electronic in Maxi).
- Diesel heater. 9.1 kW incl. timer (engine, cab, hydraulic oil).
- Environmentally-friendly hydraulic oil.
- Extra storage boxes for hydraulic hose on sides of rear frame.
- Tool box with tools (heated in engine compartment).
- Central lubrication.
- Backing camera, rear (standard in EES countries in compliance with EU Directive 2006/42/EU).
- Backing camera, front.
- Vacuum pump.
- Wear protection and chain guard for bogie casings.
- Service ladder at hydraulic reservoir (standard in EES countries in compliance with EU Directive 2006/42/EU).

### 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.



## 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.