

KOMATSU®

835

Lithe and highly productive

Forestry Quality™

835

FORWARDERS



Uncompromising thinning forwarder

835



The Komatsu 835 is the world's absolute best when it comes to environmental benefits, low weight, manoeuvrability and power for thinning forwarders in its class, 11 tons. A true specialist in other words, that provides both contractors as well as machine operators and landowners with unique advantages thanks to these strengths:

Performance and capacity

High torque and considerable traction force in relation to total weight. Also tops the list when it comes to engine displacement and power. Power-optimised transmission, high load capacity, excellent stability as well as superior crane turning torque and reach.

Minimal environmental impact – environmental benefits

New 4-cylinder, Stage 4 engine provides world-leading emission reduction and fuel economy. Low weight, slim exterior dimensions and high ground clearance minimise impact on the forest. New frame system provides superb manoeuvrability and superior tracking properties.



Equipment and options

Very well-equipped even in the standard configuration with everything from a full-featured cab to ProTec, ORFS couplings and FlexGate. Moreover with a multitude of options such as bogie lift, front blade, hood protection, fleet management system MaxiFleet, new FlexBunk load system with vertically adjustable stakes.

Comfort and working environment

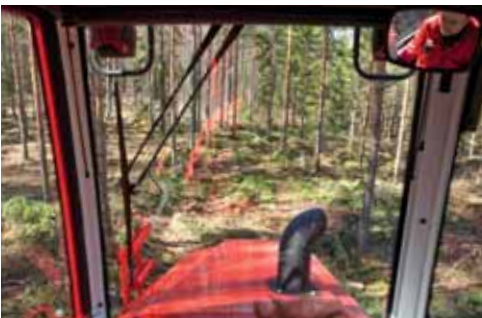
Spacious, high-performance cab with modern hand controls and generously dimensioned air conditioning unit. Short nose and big windows provide excellent lines of sight. The Comfort Ride option, the unique cab suspension that effectively reduces shock, impact and noise.



Environmental and fuel economy benefits

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

THINNING SPECIALIST IN A CLASS OF ITS OWN



Leading cab environment

The new cab and the new Komatsu Comfort Ride cab suspension (optional) provide a spacious, high-performance and ergonomically correct operator environment with low noise levels.



Wide variety of options

The 835 can be ordered with such quality-enhancing equipment as a bogie lift, front blade, FlexBunk vertically adjustable stakes, Comfort Ride, hood protection and many more options.

An 11-tonner that is a leader in performance, comfort and equipment, and that is also one of the most environmentally friendly forwarders we have built to date. And these features enable the new Komatsu 835 to provide maximum productivity with minimal environmental impact even for the toughest thinning jobs where space is limited.

This is a truly high-performance thinning forwarder. The 835 has both the highest torque and traction force in its class in relation to overall weight. Equally impressive are the load capacity, stability and the new crane's turning



Compact, narrow and with an extra short frame as an option, the 835 tracks superbly. Even so, Komatsu's excellent machine stability is also evident on the 835.



With the 835, 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.

835



torque and reach. And thanks to the new weight-optimised frame system, you get especially good obstacle clearance.

At the same time the 835 is also a leader in its class when it comes to environmental friendliness. The new 4-cylinder engine's fuel injection and emission control technology fulfils the requirements of EU Stage 4 and EPA Tier 4 Final, and is the first forwarder in its class to do so. It provides world-leading reduction of emissions with retained high power and good fuel economy. The low weight, high ground clearance and the superior tracking properties combine for

low impact on the forest.

Equally tangible is the 835's high level of equipment. Standard equipment includes the FlexGate patented gate with good lines of sight through the gate, the ProTec rotator link with protected hose routing and ORFS soft-sealing hose couplings. Among the options are a front blade with especially good obstacle clearance, the bogie lift, hood protection, crane tilt, FlexBunk vertically adjustable stakes and the Combi crane with extra long reach and protected hose routing.

And then there's the crowning touch – the cab, which gives you the market's

highest performing working environment with everything from the new ergonomic Comfort Controls hand controllers to the superb lines of sight. The latter is not the least due to the 835's short nose section. You can also maximise work performance and comfort with the Comfort Ride option, our unique solution for cab suspension. Choose the new Komatsu 835 if you want the ultimate in thinning properties, both inside and out. Exactly the properties that are required by modern forestry.

Forestry Quality Economy

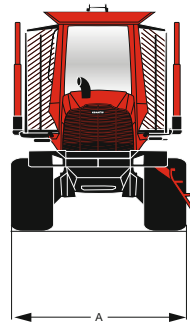
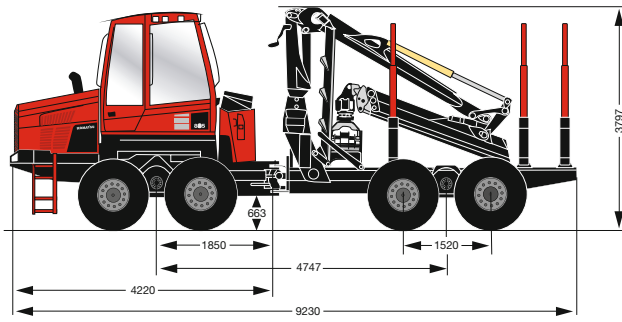


The 835 is built on a unique platform for when the requirements for manoeuvrability and low ground pressure are prioritised.



The 835 has a new weight-optimised frame system that in combination with the option of having extra-wide tracks, produces minimal impact on the forest floor. The smooth, V-shaped frame provides outstanding obstacle clearance and manoeuvrability.

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)	600/55x24.5	2640
	650/45x24.5	2,724
	710/45x24.5	2850

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

WEIGHT

	8 WD
Weight from:	15,850 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.:	127 kW DIN at 1900 RPM.
Torque:	750 Nm at 1200–1500 RPM
Fuel tank:	120 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 keypads on the armrests and foot-operated forward/reverse controls in the working position. Transfer gearbox with 2 positions (high and low). Disengageable drive operation.
Driving speed:	0–7.6/23.2 km/h (terrain/road) (with steering wheel)
Traction force:	156 kN

FRAME/AXLES

	Two rear frame alternatives. Rear frame with smooth V-shaped bottom made of high-strength steel.
Front and rear axles:	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. Comfort bogie.

HYDRAULIC SYSTEM

	Single-circuit load-sensing system with variable piston pump.
Flow:	250 l/min at 2000 RPM
Hydraulic oil tank:	127 l
Miscellaneous:	Dual return oil filters for hydrostat and working hydraulics. Hydraulic oil level warning. Sight glass level control. Contamination indication for return oil filter. Visual alarm in cab.

BRAKE SYSTEM

	Fully hydraulic multi-disc brakes. Hydraulic accumulator charging valve.
Driving brakes/ Working brakes:	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 lines of sight. Thermal and acoustic insulation.
Safety:	Conforms to ISO 8082-1 (ROPS), ISO 8083 (FOPS), ISO 3449 (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 window. 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:	Windscreen 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 extinguishers. Interior ceiling and floor lighting, and reading lamp on flexible arm.

LOAD AREA

8 WD
 Gross load: 11,000 kg
 Load area: 4.1 m²
 Load bunks: Mounted on runners, movable.
 Load gate: Komatsu FlexGate; hydraulic, flexible, full-height gate in fixed or hydraulically manoeuvrable configuration.

Ex. of other equipment: Komatsu FlexBunks; hydraulic vertically adjustable stakes.

CRANE AND GRAPPLE

Crane: Komatsu 105 F
 Range: 7.7/9.5/10 m
 Lifting torque, gross: 103 kNm
 Slewing torque, gross: 28.7 kNm
 Rotator: G121 and slew damper 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.



KOMATSU

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