

# KOMATSU®

## 830.3

Strong, fast, and nimble

Forestry Quality™

830

FORWARDERS



King of the Forest Thinners



# 830.3

**No thinning forwarder in the world is as efficient or as gentle on the forest floor than the Komatsu 830.3.** No matter how difficult the terrain is to maneuver, or how site sensitive the forest, your profitability is always optimized. The explanation lies in the parts as well as the whole, and here are a few of the highlights:

### Green engine

Powerful, efficient and environmentally-friendly Tier 3 engine delivers 10% more torque.

### Fuel economy

Electronic engine control ensures low energy loss while enhancing fuel economy.

### Low impact

Low machine weight with even weight distribution minimizes impact to the forest floor.



### Load capacity

Flexible, 9-ton capacity bunk with options to extend the frame and choose between bunk divisions.

### Stability

New articulated joint position and precise front and rear bogie tracking provide a very smooth and stable ride.



## Job satisfaction

High-performance operator environment with a more spacious cab and perfect view whether transporting, loading, or unloading.

# THE WORLD THINNING LEADER – NOW EVEN FASTER, MORE VERSATILE, AND MORE PROFITABLE.



## Information system

MaxiForwader, the powerful and easy-to-use information system, optimizes everything from machine control to machine status info and production reports.



## Ease of service

Quick and easy loader servicing with centralized lubrication points.

As productive and gentle as its world-leading 'dot-2' predecessor, the 830.3 is more versatile, powerful, and faster than ever. These are the distinguishing features of the new Komatsu 830.3, which pushes the limits even further in maximizing thinning forwarder profitability.

Much of the improved performance can be summed up as more brawn. The 830.3's powerful, efficient and environmentally-friendly Tier 3 engine



Fast and nimble thinning loader with an efficient workflow. Specially developed for the 830.3 with very good loader geometry and a lifting torque increased to 74 kNm (54,600 lb-ft).



Extremely fast and nimble even when carrying a full load, much due to the high tractive force and superb tracking capability.

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delivers ten percent more torque providing a full 600 Nm (440 lb-ft). This also applies to the already fast and nimble loader, with the lifting force increased from 67 to 74 kNm (49,400 to 54,600 lb-ft).

The 830.3's high performance cab environment allows plenty of room for the operator to maximize productivity.

The cab has even more room. Larger windows and the low profile panels improves site lines to the work area. The

control system has been optimized with improved panel layouts and easier menu navigation.

What's more, new and refined functions in the MaxiForwarder control and information system provide even better machine control and improved reports. Full control also applies to the exterior. The high tractive force provides superior maneuverability and faster speed even when fully loaded. Komatsu's unique placement of the articulated joint

provides for unsurpassed stability and industry's best tight turning capability.

More world-leading qualities: The superb mobility achieved by teaming high ground clearance with a low center of gravity. The good tracking capability and even weight distribution make this machine incredibly gentle on the ground. Choose the Komatsu 830.3 and you're properly equipped to thin.

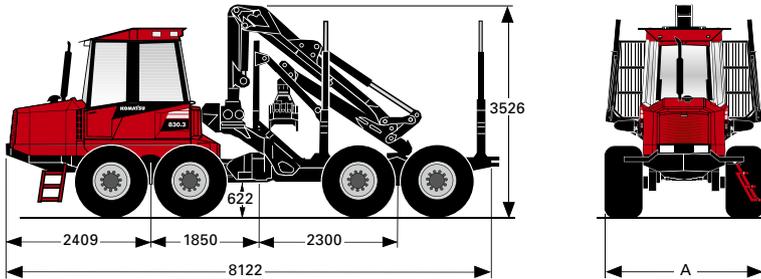


Great comfort and ergonomics that include a well isolated cab with more than sufficient cooling and heating capacity.



Superb mobility thanks to a steep nose angle, high ground clearance, low center of gravity, and low load height.

# TECHNICAL SPECIFICATIONS



## WHEEL OPTIONS, FRONT AND REAR, AND MACHINE WIDTH (A) WITH DIFFERENT TIRES

Tire	Width, mm (in)	Tire	Width, mm (in)
600/50x22.5	2,600 mm (102 in)	700/45x22.5	2,800 mm (110 in)
650/45x22.5	2,650 mm (104 in)	710/40x22.5	2,800 mm (110 in)

NB: Stated dimensions are nominal and may vary slightly.

## WEIGHT AND DIMENSIONS

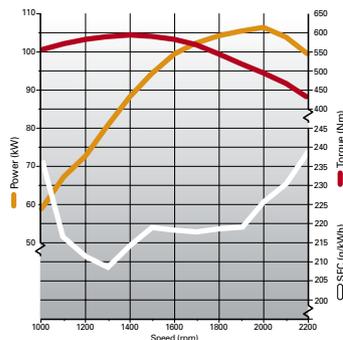
Weight from:	10,500 kg (23,150 lb)
Gross load:	9,000 kg (19,850 lb)
Bunk area:	3.4-4.1 m <sup>2</sup> (36.6-44 sq ft), hydraulically adjustable
Load bunks:	Mounted on lines, movable

## ENGINE

	44 CWA, 4-cylinder turbo with Commonrail. Tier 3.
Stroke volume:	4.4 l (270 cu in)
Power, max.:	107 kW DIN (145 HP) at 2,000 RPM.
Torque:	600 Nm (440 lb-ft) at 1,500 RPM.
Fuel tank:	100 l (26.4 gal)



The Komatsu 830.3's 44 CWA engine is not equipped with the flat belt illustrated above.



## FRAME/AXLES

	Smooth high-tensile steel frame. Sturdy geared bogie. Dampening bogie stops. Forward and rear tow points.
Available options:	Bogie lift. Front blade. Vacuum pump. Extra valve section (possible equipment depending on other selected valve-dependent equipment).

## HYDRAULIC SYSTEM

	Single circuit load sensing with variable piston pump.
Flow:	0-170 l/min (0-45 gal/min) at 2,000 RPM
Working pressure, max.:	235 Bar (3,410 PSI)
Hydraulic oil tank:	80 l (21 gal)
Miscellaneous:	Pressure filter for hydrostatic circuit. Return oil filter for hydrostatic drive and hydraulics. Hydraulic oil level warning.

## BRAKE SYSTEM

	Dual circuit, fully hydraulic multi-disc brakes. Hydraulic accumulator charging valve.
Driving brake/ Working brake:	Multi-disc brakes in an 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 ROPS ISO 3471/1, ROPS ISO 8082, FOPS ISO 8083, and OPS ISO 8084.
Seat:	KAB 569K. Air damping. Electrically heated. Adjustable lumbar support. Safety belt.
Armrest/Controls holder:	Individually adjustable.

## TRANSMISSION

	Hydrostatic transmission controlled by MaxiForwarder. 8-wheel drive. Disengageable carriage drive. Differential locks front and rear.
Driving speed:	0-25 km/h (0-15 mph)
Traction force:	110 kN (24,729 lbf)

Windshields:	15 mm (0.6") safety glass (Polycarbonate) in rear side windows and rear windshield.
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 wiper and washer on front and roof windows.
Available options:	Sun blinds. Radio with MP3 player interface. Air-ventilated BeGe seat with head rest. Lunch-box heater. Cooler box. Side window wipers. Allergen filter 3 micrometer. Marguard roof hatch. Extra floor mats (for easier cleaning).

## LOADER AND GRAPPLE

Loader:	CRF 5
Reach:	6.85 m (22½ ft)
Lifting torque, gross:	74 kNm (54,600 lb-ft)
Slewing torque, gross:	22 kNm (16,224 lb-ft)
Rotator:	G121 and slewing dampened link.
Grapple:	Komatsu G25
Available options:	CRF 5.1 Combi loader, reach 9.3 m (30½ ft) Komatsu ProTec. Komatsu G28 grapple. MPB link.

## STEERING

	Hydraulic articulated joint.
Lever steering:	Load sensing (LS) proportional steering from loader controls/rocker.
Steering wheel:	Load sensing (LS) proportional servo.
Steering angle:	±43°
Turning radius, 600 tires	6,656 mm (21' 10")

## ELECTRICAL SYSTEM

Voltage:	24 V
Battery capacity:	2 x 110 Ah
Generator:	2 x 100 A
Starter motor:	4 kW

## LIGHTING

Work lights:	More than 30 lux in work area. 16 x 70W, Halogen.
Available options:	Xenon lights on cab. Halogen or xenon lights on loader. Rear work lights, halogen or xenon.

## CONTROL AND INFORMATION SYSTEM

MaxiForwarder is a CAN-based control system for managing all machine functions via a user-friendly PC interface. The system is used to set and control loader functionality, transmission and diesel engine characteristics, and other machine settings. The system also offers detailed machine information, troubleshooting, and alarm systems.

## PC, standard equipment

	2 alternative computers	
	MaxiPC X20	MaxiPC X
Processor	Intel Atom 1,6 GHz	Intel Pentium 1,4 GHz
RAM	1 GB	1 GB
Hard disk	40 GB	40 GB
Screen	10"	12"
USB ports (incl. display)	7 st	8 st
Serial ports	3 st	2 st
Operating system	Windows XP Pro	Windows XP Pro
Available options for MaxiPC X20	Display 12", slave display 10", DVD, A4 printer, GPS receiver	
Available options for MaxiPC X	DVD, A4 printer, GPS receiver	

## AVAILABLE OPTIONS

Sprinkler unit:	Automatic and manual fire extinguishing. Conforms to RUS 127.
Hand-held extinguishers:	2 x 6 kg ABE-3 powder extinguishers. CE-marked
	Operator's Manual in book form (also electronic in Maxi).
	Parts catalog in book form (also electronic in Maxi).
	Diesel heater Webasto Thermo 90. 9.1 kW incl. timer
	Biodegradable hydraulic oil
	Tracks, chains
	Toolbox with tools
	Centralized lubrication
	Rearview camera as standard (in EES countries in compliance with EU Directive 2006/42/EU).

For forwarders without front blade: Platforms for ladders over left front wheel and hydraulic tank as standard (in EES countries in compliance with EU Directive 2006/42/EU). Belt guard for flat belt as standard (in EES countries in compliance with EU Directive 2006/42/EU).

## NOTES

Standard and extra equipment are market-dependent and vary between countries. The specification describes possible equipment, which is either standard or optional. Weights are based on the standard specification of the featured equipment. Specifications and designs are subject to change without notice.



## WHY A KOMATSU FORWARDER?

High productivity, low operating costs, innovative technology, excellent operator environment – these are just a few examples of the advantages that earn Komatsu forestry machines a place among the best in the world. Behind all this is a highly-focused strategy to continually build upon the advantages of owning a Komatsu forwarder. A strategy based on the following principal ideas.

### Ergonomics

Your forwarder is a mobile work environment where the operator's opportunities to perform optimally without tiring are a decisive factor for success. This is an important reference point that has helped us develop the important ergonomic advantages of Komatsu forwarders. Good examples are the stability and the operator environment with its perfect view whether driving or operating the loader.

### Economy

The ambition to maximize profitability is one of the most important driving forces in the further development of Komatsu's forwarders. Each small improvement that increases productivity and reliability, reduces costs, or saves time is of interest. Tangible and quantifiable examples from today's Komatsu forwarders include energy-efficient engines, high reliability, and unmatched high productivity per unit of time.

### Productivity

More work in less time. This is something we often hear from contractors who switch from competing brands to Komatsu forwarders. And there are many reasons behind this, both large and small. The most important include the high-performance operator environment, superior loader geometry, and great maneuverability and speed.

### Customer Support

Fast and competent service has a direct bearing on the performance and economy of any forestry machine. Our extensive service network provides you as a Komatsu owner with a sense of security. Well-trained technicians – Komatsu experts – provide additional assurance. Another benefit is ProSelect, our special line of accessories and consumables. The range is based on a selection of items that are all of the highest quality and designed for both Komatsu and other brands of professional forestry machinery.

### Environment

Forests are an essential and fragile element of the global ecology. This is why every new Komatsu product, and all its component parts, is examined with an eye to both the short-term and long-term environmental effects. This has resulted in real environmental improvements such as highly-effective exhaust emission control and low, evenly-distributed ground pressure in Komatsu forwarders. Environmental considerations also permeate our broad range of accessories and consumables, such as our special, rapidly biodegradable oils.

### Global Experience

Komatsu forwarders can be found the world over. Consequently, they have been adapted to deliver optimum profitability regardless of working conditions. The same fundamental idea lies behind the global service and dealer network that provides support to thousands of Komatsu owners on a daily basis.