

# KOMATSU®

## 941.1

### Extremely powerful

Forestry Quality™

# 941

# HARVESTER



Brawn meets brains  
for demanding final logging

# 941.1



**The Komatsu 941.1 is the new version of the largest Komatsu harvester.** This is a giant specially adapted to handle demanding logging in really thick forests, and the advantages are apparent in both the whole and the parts. Here are a few of the highlights:

## Engine control

Optimum engine control and minimal energy losses for low fuel consumption.

## Reliability

Sturdy chassis, hydraulics, and mechanical components and systems provide high reliability and long service life.

## Raw power

The heavy-duty boom and harvesting head are proportioned to take on large diameter stems in difficult and demanding conditions.



### Work environment

Extremely high-performance work environment with the roomiest cab on the market offering excellent visibility at all times.

### Control and information system

Brand new MaxiXplorer control and information system, infinitely more powerful, faster, and easier to use than its predecessor.



Easily-accessible inspection points concentrated in strategic locations to facilitate maintenance and servicing.

# BIG, STRONG, AND NOW EVEN EXCEPTIONALLY BRIGHT.



## Information system

Brand new MaxiXplorer control and information system, infinitely more powerful, faster, and easier to use than its predecessor.

Incredibly large, incredibly powerful – and now even incredibly bright – for even greater profits from heavy final logging. That's the impressive résumé of the new Komatsu 941.1, the latest version of the biggest rubber-tired harvester in the Komatsu lineup.

And the biggest news is MaxiXplorer – a brand new Windows-based computer system with many times more powerful and more intuitive than its predecessor. You'll notice the improvements in everything from faster and more exact length measurement and crosscutting to easier pricelist editing. And, naturally,



## Ergonomics

Superb ergonomics, high productivity, and reliable operation make any shift easy and enjoyable.



An optimized combination of strength and flexibility for high productivity and profitability.



The unique boom position beside the cab optimizes visibility and minimizes neck and back discomfort.

# 941.1



increased computing power ultimately means optimized productivity and timber value.

MaxiXplorer is part of the 941.1's extremely high-performance work environment. The cab includes, full-circle slewing with standing room that is the most spacious on the market. And it goes without saying that comfort and visibility are on a par, enabling you to maintain maximum productivity even when working long days and shifts.

Much of the 941's muscle comes from its powerful turbo-diesel engine. Maximum torque is reached at a low engine speed, guaranteeing high-level performance from start to finish. The effective fuel injection system ensures immediate engine response when you increase the workload. All this engine power is combined with remarkably low fuel consumption.

Strength and flexibility also characterize the 941.1's boom, which, despite its huge size, is surprisingly quick and easy

to maneuver. The same is true of the harvesting head, which is extremely powerful yet surprisingly quick and easy to maneuver. The overall sturdy design makes the Komatsu 941 impressively reliable and easy to service. The end result is a superbly hardened, productive, and smart profit-making machine. Whether you're an operator, or an owner, choosing the Komatsu 941.1 will help you harvest more profitability from thick forests.

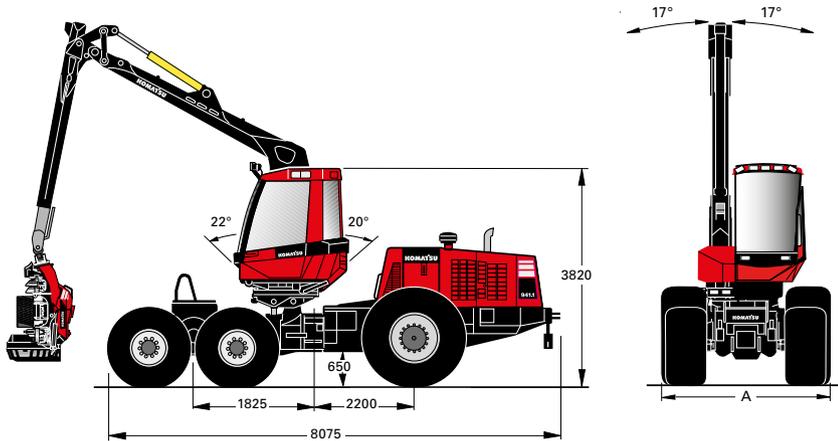


Cab and boom leveling and stabilizer coupling for superior stability and ground contact.



The largest cab on the market, providing optimum visibility, comfort, and ergonomics.

# TECHNICAL SPECIFICATIONS



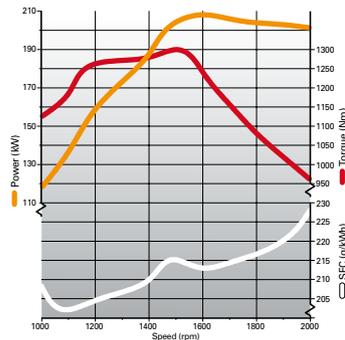
## WHEEL OPTIONS AND MACHINE WIDTH (A) WITH DIFFERENT TIRES

	Tire	Width (mm/inches)		Tire	Width (mm/inches)
6WD (front)	650/65 x 26.5	2,980/9'9"	6WD (rear)	700/70 x 34	2,990/9'10"
	750/55 x 26.5	3,180/ 10'5"			

NB: Stated dimensions are nominal and may vary due to manufacturing tolerances.

## WEIGHT

Curb weight: from 23,500 kg (25.9 tons)



## ENGINE

84 CTA. 6-cylinder, turbo with Commonrail. Tier 3.  
 Stroke volume: 8.4 l (2.2 gal)  
 Power, max.: 210 kW DIN (285 hp) at 1,600 rpm  
 Torque: 1,300 Nm (959 lbf-ft) at 1,500 rpm  
 Fuel tank: approx. 550 l (145.3 gal)

## POWER TRANSMISSION

Hydrostatic-mechanical, controlled by MaxiXplorer. Transfer gearbox with 2 positions. Disengageable front-wheel drive.  
 Differential locks: Mechanical electro-hydraulic control.  
 Driving speed: 0-25 km/h (0-15.5 mph)  
 Traction force: 190 kN (42,700 lbf)

## HYDRAULIC SYSTEM

Single-circuit load-sensing/high-low balanced constant pressure, variable piston pump  
 Flow: 346 l/min at 1,650 rpm (0-91 gal)

System pressure: 280 bar (4,060 PSI)  
 Working pressure, boom: CRH24: 260 bar (3,770 PSI)  
 Hydraulic oil tank: approx. 235 l (62 gal)  
 Miscellaneous: Pressure filter for hydrost. circuit. Return oil filters for hydrost. drive and hydraulics. Hydraulic oil level warning. Hydraulic booster to comp. pump regulation.

## FRAME/AXLES

Axle, front: Bogie. Differential with mechanical differential lock.  
 Axle, rear: Swing axle with hub reduction. Diff. with mechanical differential lock. Hydraulic stabilizer override with leveling.

## BRAKE SYSTEM

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 11169:1993 and VVFS 2003:27.

## BOOM

Model:	CRH 24	CRH 24
Reach:	10 m (32'10")	8,3 m (27'3")
Lifting torque, gross:	273 kNm (201,300 lbf-ft)	
Slewing torque, gross:	51 kNm (37,600 lbf-ft)	
Rated power, telesc., gross:	41 kN (30,240 lbf-ft)	
Head:	370.2/S132/C144	370E

## STEERING

Hydraulic articulated joint.  
 Lever steering: Load-sensing (LS) proportional steering from boom controls/rocker  
 Steering angle: +/- 40° Electrical end limit damping.  
 Available options: Load-sensing proportional power-assisted steering.

## HARVESTING HEAD

	Komatsu S132	Komatsu 370.2	Komatsu C144	Komatsu 370E
Weight, from:	1,345 kg (2,965 lb)	1,470 kg (3,240 lb)	1,400 kg (3,086 lb)	1,600 kg (3,530 lb)
Felling/cutting diameter:	720 mm (28.3")	700 mm (27.6")	710 mm (28")	700 mm (27.6")
Feed speed:	0-4,2 m/s (0-13.8 ft/s)	0-5 m/s (0-16.4 ft/s)	0-5 m/s (0-16.4 ft/s)	0-5 m/s (0-16.4 ft/s)
Feed force, gross:	26.6-29.0 kN (5,980-6,520 lbf)	28.2-30.7 kN (6,340-6,902 lbf)	29.6 kN (6,654 lbf)	21.0-30.8 kN (4,721-6,924 lbf)
Opening, upper knives, max.:	641 mm (25.2")	640 mm (25.2")	660 mm (26")	640 mm (25.2")
Roller opening, max.:	625 mm (24.6")	600 mm (23.6")	750 mm (29.5")	600 mm (23.6")
Rotator:	Roller slewing with hydraulic motor			
Control and info system:	MaxiXplorer/MaxiXplorer Head			

## ELECTRICAL SYSTEM

Voltage:	24 V
Battery capacity:	2 x 170 Ah
Generator:	2 x 100 A

## LIGHTS

More than 30 lux in work area. Halogen cab, boom, and reversing lights.

Available options:	Remote lighting, roof lighting, side lighting. As an alternative to halogen, lighting with LED technology is also available.
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## ERGONOMICS

Autolev – fully-automatic cab and boom leveling. Comfort-enhancing leveling. Cab coupled to stabilizer. Boom and cab on horizontal, rotating platform. Hydraulic stabilization when maneuvering.

Horizontal leveling:	Longitudinal 20°/22° and lateral 17°
Rotation:	315°
Available options:	Slew damping. Boom damping.

## CAB

Safety-tested. Leveling. Thermal and acoustic insulation.

Safety:	Conforms to ROPS ISO 8082, FOPS ISO 8083, and OPS ISO 8084.
Seat:	Choice of ergonomically designed seat for individual adjustment of the seat cushion, back and lumbar support, arm rests, and control panels.
Windshields:	Forward side windows of 15 mm (0.6") safety glass.
Heating/ventilation:	Heating and cooling unit ACC. Filtered intake air with allergen filter.
Noise level:	As per ISO standard.
Vibrations:	As per ISO standard.
Miscellaneous:	Manual tilt. Multi-position safety lock. Electrical kit for com-radio and telephone (12 V). Windshield wiper and washer on front and roof windows.
Available options:	Sun blinds. Swivel seat. Electrically-controlled platform under the cab. Radio with MP3 player and USB-port. Air-ventilated KAB seat or air-ventilated BeGe seat with head rest. Microfilter.

## CONTROL AND INFORMATION SYSTEM

MaxiXplorer is a CAN-based control system that you use to control all of the machine's functions with the support of ergonomic hand controls and a user-friendly PC. The system has functions for setting crane functions, control of the transmission and diesel engine, and other machine settings. The system also features object management, integrated production and operational follow-up, troubleshooting and alarms.

## PC

	2 computer alternatives	
	MaxiPC X20	MaxiPC X30
Processor	Intel Atom 1.6 GHz	Intel Core 2.4 GHz
RAM	2 GB	4 GB
Hard disk	100 GB HDD	100 GB HDD
Screen	12"	12"
USB ports (incl. screen)	10	10
Serial ports	3	2
Operating system	Windows XP Pro	Windows XP Pro
Ex. of other equipment.	A4 printer, GPS receiver. MaxiFleet-ready.	

## DOCUMENTATION

Operating and starting instructions in paper format.  
Instruction manual and spare parts catalogue on CD.

## AVAILABLE OPTIONS

Sprinkler system. Semi-automatic, Water-based fire extinguishing. Conforms to RUS 127.

Hand-held extinguishers. 2 x 6 kg (13 lb) ABE-3 powder extinguishers

Instruction manual in paper format (also electronic in Maxi)  
Spare parts catalogue in paper format (also electronic in Maxi)

Diesel heater 9.1 kW including timer and hydraulic oil heater.

Stump treatment equipment

Biodegradable hydraulic oil

Service ladders

Toolbox with tools

Rearview camera as standard (in EES countries in compliance with EU Directive 2006/42/EU).

Platform at side of cab and ladder on left side of rear frame 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

The specification describes possible equipment, which can be standard or optional. Weights are based on the standard specification of the featured equipment. Specifications and designs are subject to change without notice.



## WHY CHOOSE A KOMATSU HARVESTER?

High productivity, low operating costs, innovative technology, superb operator environment – these are just some of the features that make Komatsu forestry machines some of the best in the world. Behind all this is a highly-focused strategy to continually build upon the advantages of owning a Komatsu harvester. A strategy based on the following principal ideas.

### Ergonomics

Your forestry equipment and its mobile work environment is critical to an operator's ability to maximize production without fatigue and is a key factor for success. This is an important reference point used in developing the unique ergonomic designs of Komatsu harvesters. Automatic leveling cabs, side mounted booms and large operator compartments work together to keep the harvesting head centered in the operator's field of vision.

### Economy

The ambition to maximize profitability is one of the most important forces driving the development of Komatsu harvesters. Each small improvement that increases productivity and reliability, reduces costs, or saves time is of interest. Tangible and quantifiable examples from today's Komatsu harvesters include energy-efficient engines, highly efficient hydraulics, fast heads, and unsurpassed productivity.

### Productivity

More work in less time – a comment we often hear from contractors who switch from competing brands to Komatsu. There are many reasons, large and small. The most important include extremely high-performance operator environments, great maneuverability, effective heads, powerful control and information systems, and large work areas from stationary positions.

### Customer Support

Fast and competent service bears directly on forestry machine performance and economy. An extensive service network provides the Komatsu owner with a sense of security. Well-trained technicians provide additional assurance, as they are Komatsu experts. 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 forest machinery.

### Environment

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

### Global Experience

Komatsu harvesters are found the world over. Consequently, they are designed to deliver optimum profitability regardless of conditions. The same fundamental concept is applied to our global service and dealer network that provides support to thousands of Komatsu owners on a daily basis.

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