

# KOMATSU®

## 911.5

Extremely good fuel economy

Forestry Quality™

911

HARVESTERS



The market's cleanest and most  
fuel-efficient profit-making machine



# 911.5



**The Komatsu 911.5 is an entirely new version of our market-leading, all-round harvester.** Refinements to the previous design and important new strengths enable it to deliver even higher profitability in both thinning and final logging.

## Newly developed engine

New powerful engine that minimizes emissions of NOx (nitrogen oxides) and reduces fuel consumption by up to 16%.

## Reliability

New robust rear axle and hose routing with soft-sealed couplings throughout the harvester mean optimal reliability and reduced risk for oil leakage.

## Response

The unique bogie concept, Komatsu Comfort Bogie, provides improved maneuverability, more even ground pressure and unbeatable comfort and response.





## Overview

The unique boom placement at the cab means that you always have a good view of the head directly in front of you and the best possible overview of the work area.

## Traction

Refined transmission that optimizes everything from traction to maneuverability.





## Lower fuel consumption

The 911.5's new motor with e<sup>3</sup> power technology and DEF (Diesel Exhaust Fluid) provides up to 16% lower fuel consumption.

# MAXIMUM PRODUCTIVITY. MINIMAL ENVIRONMENTAL IMPACT AND FUEL CONSUMPTION.



## Information system

Uniquely powerful and user-friendly MaxiXplorer optimizes operational and production follow-ups.

World-leading productivity and reliability are blended with equally leading environmental and energy efficiency. This is how you can best summarize the upgraded features of the Komatsu 911.5. And what makes this superb all-around harvester especially attractive is the entirely new engine that drastically reduces both emissions and fuel consumption.

The environmental and fuel-efficiency optimizations are highly conspicuous. The 911.5's new powerful engine with



## Job satisfaction

Consistently high productivity, reliability and great ergonomics make work a pleasure.



Market-leading cab environment, reflected in everything from the ergonomic use of space to the solutions for an extra seat, storage spaces, the bottle/thermos holder, PC/printer storage and more.



High traction, which together with the unique bogie, provides optimum performance and maneuverability in steep terrain or on soft/wet ground.







# 911.5

SCR technology (Selective Catalytic Reduction) on our e<sup>3</sup>power technology (Efficiency Economy Environment) namely reduces emissions to levels well under the legal requirements and cuts fuel consumption by up to 16%. And we know you'll appreciate the positive operational and environmental effects such as cleaner engine oil and reduced engine noise.

When it comes to reliable operation, a few important components have also been optimized. A new more robust rear

axle and strengthened chassis make the 911.5 extremely reliable and durable, both in thinning and final logging. New as well is that the harvester is equipped with soft-sealed couplings and smarter hose routing in the articulated joint. A new and improved air filter and an openable grill are also features that benefit both your service account and the environment.

With this new, healthy point of departure, the 911.5's ergonomic and productive strengths are naturally even clearer. For example, the spacious and

high-performance operator environment. The considerable traction force, which is especially important in steep and hilly terrain. The unique bogie that provides unbeatable maneuverability and operator comfort. The strong and uniquely placed boom and the excellent stability. Not to mention the MaxiXplorer control system that gives you market-leading benefits when it comes to operational and production follow-up. Choose the new Komatsu 911.5 and you'll get the world's most future-optimized, all-around harvester.



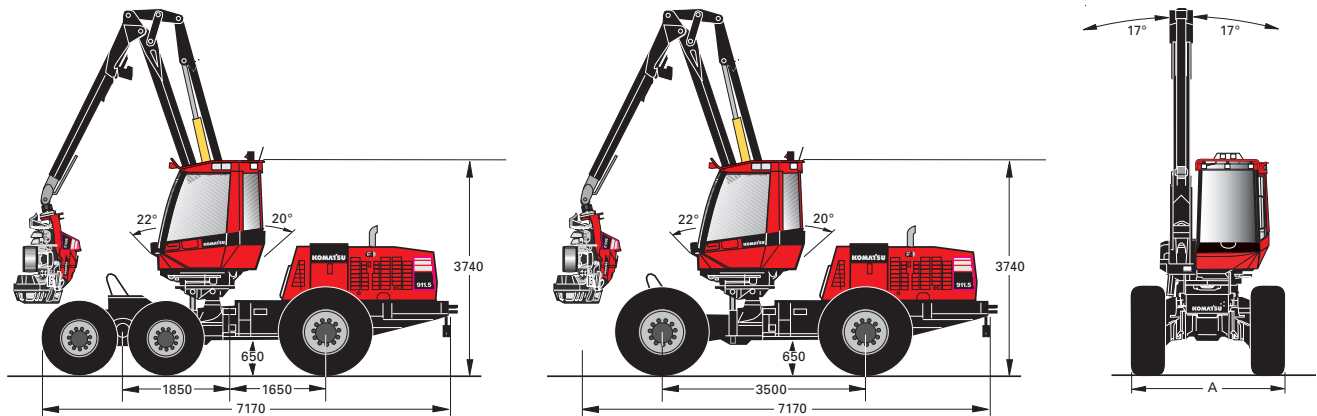
Leveling of both the cab and boom, and linkage with the swing axle for optimum reach and stability.



The unique boom position at the cab ensures that the head is always directly in front of you. Extremely productive, both in thinning and final logging.



# TECHNICAL SPECIFICATIONS



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

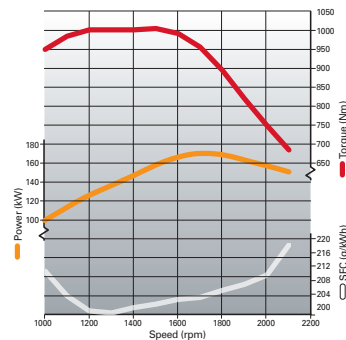
|                  | Tire        | Width mm (feet inches) |             | Tire        | Width mm (feet inches) |
|------------------|-------------|------------------------|-------------|-------------|------------------------|
| 4WD (front/rear) | 600/65 x 34 | 2,730 (8'11")          | 6WD (rear)  | 600/65x34   | 2,730 (8'11")          |
|                  | 700/55 x 34 | 2,900 (9'6")           |             | 700/55x34   | 2,900 (9'6")           |
|                  |             |                        |             | 710/55x34   | 2,900 (9'6")           |
|                  |             |                        | 6WD (front) | 600/55x26.5 | 2,720 (8'11")          |
|                  |             |                        |             | 710/45x26.5 | 2,940 (9'8")           |

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

## WEIGHT

|                 |                               |                               |
|-----------------|-------------------------------|-------------------------------|
| Curb weight 1): | 4W                            | 6W                            |
|                 | from 16,100 kg<br>(35,494 lb) | from 17,300 kg<br>(38,140 lb) |

1) applies to 600 wheels.



## HYDRAULIC SYSTEM

|                         |  |
|-------------------------|--|
| Flow:                   | Load sensing/high-low balanced constant pressure, variable piston pump                           |
| System pressure:        | 310 l/min (82 gal) at 1,720 rpm  |
| Working pressure, boom: | 280 bar (4,060 psi)  |
| Hydraulic oil tank:     | CRH18: 250 bar (3,626 psi)   |
| Miscellaneous           | approx. 200 l (53 gal)   |
|                         | Soft-sealed couplings in the hydraulic system.   |
|                         | Pressure filter for hydrostatic circuit. Return oil filter for hydrostatic drive and hydraulics. |
|                         | Hydraulic oil level warning. Vacuum pump   |

## FRAME/AXLES

|              |   |
|--------------|---|
| Axle, front: | Sturdy geared bogie. Differential with mechanical differential lock. Permanently lubricated bearings.                       |
| Axle, rear:  | Swing axle with hub reduction. Differential with mechanical differential lock. Hydraulic swing axle override with leveling. |

## BRAKE SYSTEM

|                                |  |
|--------------------------------|--|
| Driving brake / Working brake: | Fully hydraulic multi-disc brakes. Hydraulic accumulator charging valve. |
| Parking brake:                 | Multi-disc brakes in oil bath. Automatically engaged when working.       |
| Braking performance:           | Spring-action brake with electro-hydraulic control. Emergency brake      |
|                                | Conforms to ISO 11169 and VVFS 2003:27                                   |

## ENGINE

74-AWI. 6-cylinder, turbo with Commonrail. EU Stage IIIB and EPA Tier 4 Interim. DEF/SCR after-treatment (not applicable for all markets).

|                |                                    |
|----------------|------------------------------------|
| Stroke volume: | 7.4 l (1.95 gal)                   |
| Power, max.:   | 170 kW DIN (228 hp) at 1,700 rpm   |
| Torque         | 1,000 Nm (738 lbf-ft) at 1,500 rpm |
| Fuel tank:     | approx. 370 l (98 gal)             |

## POWER TRANSMISSION/TRANSMISSION

Hydrostatic-mechanical, controlled with MaxiHarvester. 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:     | 162 kN                               |

## BOOM

|                                |                          |                          |
|--------------------------------|--------------------------|--------------------------|
| Model:                         | CRH 18                   | CRH18DRT                 |
| Reach:                         | 10 m (32'10")            | 11 m (36'1")             |
| Lifting torque, gross:         | 186 kNm (137,186 lbf-ft) | 186 kNm (137,186 lbf-ft) |
| Slewing torque, gross:         | 40.8 kNm (30,092 lbf-ft) | 40.8 kNm (30,092 lbf-ft) |
| Traction force telesc., gross: | 40.1 kN (9,015 lbf)      | 40.1 kN (9,015 lbf)      |
| Head:                          | 360.2/365                | 350.1                    |

## STEERING

|                      |   |
|----------------------|---|
|                      | Hydraulic articulated steering.                                   |
| Lever steering:      | Load-sensing (LS) proportional steering from boom controls/rocker |
| Steering angle:      | +/- 40° Electric end-limit damping.                               |
| Ex. misc. equipment: | Steering wheel  |

## ELECTRICAL SYSTEM

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

## LIGHTING

|                       |   |
|-----------------------|---|
|                       | More than 30 lux in work area. Halogen cab, boom, and reversing lights.   |
| Ex. misc. equipment:: | Xenon lights on cab and boom. Roof-mounted work lights, halogen or xenon. |

## ERGONOMICS

|                       |  |
|-----------------------|--|
|                       | Comfort-enhancing leveling. Cab coupled to swing axle. Boom and cab on horizontal, rotating platform. Autolev – fully automatic cab and boom leveling. Hydraulic stabilization when maneuvering. |
| Horizontal leveling:  | Longitudinal 20°/22° and lateral 17°   |
| Rotation:             | 315°   |
| Ex. misc. equipment:: | Boom damping. Slew-dampening   |

## CAB

|                       |   |
|-----------------------|---|
|                       | Safety tested. Leveling. Thermal and acoustic insulation. Sun blinds.   |
| 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.                 |
| Windows:              | 15-mm safety glass in both windshield and side windows for maximum safety   |
| Heating/ventilation:  | Fully automatic ACC, heating and cooling unit. Filtered air intake with allergen filter and pre-filter.   |
| Noise level:          | As per ISO standard   |
| Vibrations:           | As per ISO standard   |
| Miscellaneous:        | Manual tilt. Multi-position safety lock. Electric kit for communications radio and telephone (12 V). Windshield wiper and washer on front and roof windows. |
| Ex. misc. equipment:: | Swivel seat. Electrically-controlled platform under cab. Radio with MP3 player and USB port. Air ventilated BeGe seat with neck support.                    |

## CONTROL AND INFORMATION SYSTEM

|  |  |
|--|--|
| MaxiXplorer  |  |
| Integrated system for machine and head control. Operator-specific settings for head, boom, and machine functions. Cross-cutting information and machine status display. Production registration. Administrative tools. |  |

## PC

|                          |  |
|--------------------------|--|
| Processor, clock speed:  | 1.4 GHz  |
| Internal memory:         | 1 GB RAM   |
| Hard disk, capacity:     | 40 GB  |
| Color display:           | 12", anti-reflex glass                                   |
| DVD player:              | Option   |
| USB ports:               | 8, with one on the front of the display for easy access. |
| Serial ports:            | 2  |
| Operating system:        | Windows XP Pro   |
| Keyboard with trackball: | Included   |
| Ex. misc. equipment:     | A4 printer. GPS antenna. Production follow-up            |

## HARVESTING HEADS

|                            | Komatsu 350.1                        | Komatsu 360.2               | Komatsu 365                 |
|----------------------------|--------------------------------------|-----------------------------|-----------------------------|
| Weight:                    | from 960 kg<br>(2,116 lb)            | from 1,245 kg<br>(2,745 lb) | from 1,250 kg<br>(2,756 lb) |
| Felling/cutting diameter:  | 600 mm<br>(23.6")                    | 650 mm<br>(25.6")           | 650 mm<br>(25.6")           |
| Feed speed:                | 0-5 m/s<br>(0-16.4 ft/s)             | 5 m/s<br>(16.4 ft/s)        | 0-5 m/s<br>(0-16.4 ft/s)    |
| Feed force, gross:         | 16,5 - 25,3 kN                       | 26-28,4 kN                  | 23.6-28.3 kN                |
| Open., upper knives, max.: | 600 mm<br>(23.6")                    | 640 mm<br>(25.2")           | 700 mm<br>(27.6")           |
| Roller opening, max.:      | 520 mm<br>(20.5")                    | 550 mm<br>(21.7")           | 650 mm<br>(25.6")           |
| Rotator:                   | Roller slewing with hydraulic motor. |                             |                             |
| Control and inf. system:   | MaxiXplorer                          |                             |                             |

## DOCUMENTATION

|  |
|--|
| Printed operating and starting instructions.     |
| Operator's Manual and Spare Parts Catalog on CD. |

## AVAILABLE OPTIONS

|  |
|--|
| Sprinkler system. Semi-automatic, water-based fire extinguishing. Conforms to RUS 127.   |
| Hand-held fire extinguishers. 2 x 6 kg (13 lb) ABE3.   |
| Powder extinguishers.  |
| Printed instruction manual (also electronic in Maxi)   |
| Printed spare parts catalog (also electronic in Maxi)  |
| Diesel heater 9.1 kW incl. 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.