



Valmet

911





# 911 – when the stands vary



*We are at the forefront of technical development in the forestry machine sector. That is not so unusual, given our long tradition in the forestry sector. We want to see this development work continue in close association with our customers. Our aim is to create machines to enable you to do the best and the most profitable work possible.*

*This requires machines with high operating reliability, low operating and maintenance costs, high working capacity and an effective working environment.*

*That is why we test all our machines thoroughly under actual service conditions. We know that you need to be able to depend on your machine, hour after hour and day after day.*

*You will find this level of security in the new Valmet 911.*

If someone were to ask us to explain the word "all-round", we would point directly to the new, versatile Valmet 911.1. It can handle everything, from late thinning to demanding final felling.

What makes the Valmet 911 such a highly appreciated all-round machine is the combination of power and well-adapted size. The 911 incorporates a number of smart solutions and characteristics that make it unexpectedly manoeuvrable and flexible for a machine of this size.

## Smart design

The Valmet 911 has a full-circle slewing cab and crane, which give the machine an impressive working area and, at the same time, reduce the need for moving the machine. Automatic leveling and a side-mounted crane give a good working position and a perfect view over the work.

Cab and crane tilt are linked together in a unique and patented solution. This gives the 911 the outstanding stability that it needs to

cope with the challenges that it faces. At the same time, this good stability means that you can utilize the crane's reach to the full.

## Total control

In the new Valmet 911 you will find the user-friendly MaxiHarvester control system, which, with its clear display and easy-to-use operating controls, gives you total control over your machine. MaxiHarvester is fully integrated with the machine and controls all its functions. The same applies to the machine's measurement and cross-cutting system.

Those of you who are already familiar with previous generations of the Valmet 911 will discover a number of innovations in the 911.1 designed to make your work easier. And yet you will still recognize all the good characteristics from before.

The new 911 – quite simply a reassuring development.



11.1





# A machine to depend on



The Valmet 911 has gained a reputation as a dependable machine. Our aim was to build on that reputation with the new Valmet 911. We have incorporated all our experiences gained from earlier models and from its siblings, the 901 and 921.

Many of the changes in the 911.1 have been made in order to increase the already good operating reliability, with the aim of helping you to achieve higher profitability.

## Reinforcements give a more robust machine

The entire machine is now more robust. The frames, articulated joint, swing axle and the journals in the centre pivot are stronger, at the same time as the slew ring and tilting mechanism are reinforced.

The belly plates of the rear frame have been strengthened, and the under side has been made smooth. This, in combination with our in-house developed portal bogie, which provides high ground clearance, gives increased tractability and a reduced risk of damage to the machine by projecting obstacles.

There are other details that cannot be seen from the outside, but still contribute to the improved operating reliability.

Thermostatically controlled hydraulic oil cooling is one such example. The machine rapidly reaches its correct working temperature, and a higher cooling capacity means that it stays there even on really hot days.

The pressure levels have been reduced at the same time, and filtering of the hydraulic oil is now more effective. Obviously, this also means reduced wear.

## Special engine with high operating reliability

The engine, which was developed specially for our forestry machines at Partek's own engine plant, Sisu Diesel, also makes an important contribution to the operating reliability. No other engine can achieve such an optimized power and torque curve. Its high power output at low engine speeds leads to both reduced wear and higher operating reliability.

The new Valmet 911 is supplied with a Cranab crane, which guarantees high capacity and promises the best possible operating reliability.

The new Valmet 911 is not only unusually dependable.

It is dependability itself.



*Your business depends on the machine functioning correctly. Quite simply, there must not be any unnecessary, unplanned stops or costs. That is why we have given maximum priority to operating reliability.*

*The foundations for high operating reliability are already laid in our systematic approach. The basic machine, crane, harvester head, control system and driver together form a complex system and must be designed and adapted for one another.*

*Our holistic approach constantly stimulates new ideas about how we can make our machines better. But we only develop those ideas that work properly under actual operating conditions in the forest.*

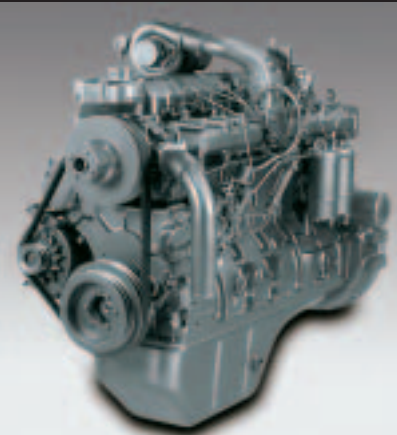
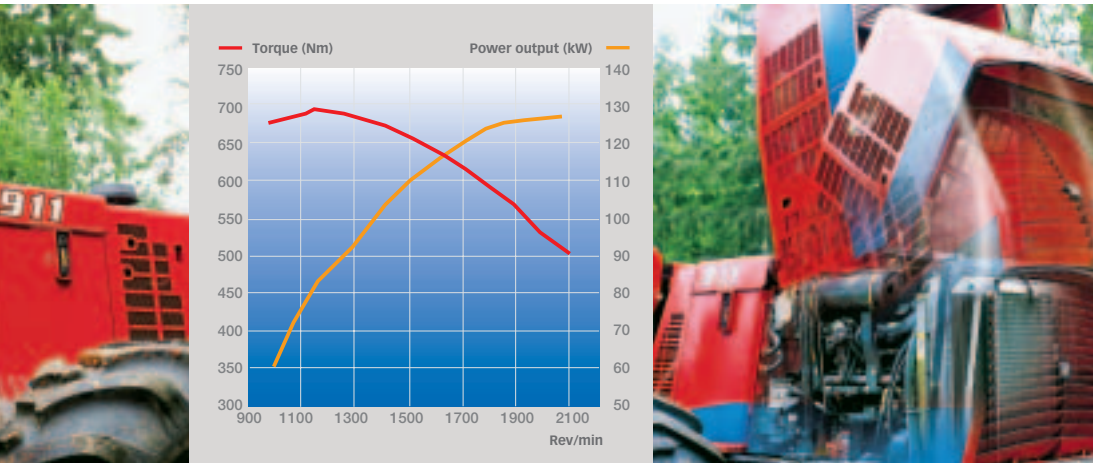
*The new Valmet 911 represents the sum of our previous experience and new, tried and tested ideas.*

*The outcome is what you might expect it to be.*

*The best possible operating economy. And maximum operating reliability.*



# Let your wallet decide



Fuel is without doubt one of the largest single items in the operating costs. The 911's specially developed 6.6-litre engine has an important role to play here. Its very high torque at low engine speeds, in combination with the Maxi system's engine and transmission control function, optimize the power requirement.

This gives low fuel consumption, resulting in lower costs for you as the machine owner.

## Maxi gives optimum performance

In the Valmet 911, the Maxi-Harvester control system regulates the engine and hydraulics, both individually and in relation to one another. This guarantees optimal performance, and you get the most from your machine at any given moment.

Good accessibility for servicing, including an

electrically actuated engine cover and service ladders, make life easier when the time comes for an overhaul. Your own maintenance will be easier, and the service times will be shorter. This reduces your costs and increases your productive time — allowing you to earn more.

## Longer service intervals

The extended service intervals are evidence of the Valmet 911's dependability. Fewer servicing stops give reduced servicing costs and increased production. If you also take out a contract for our preventive servicing package, Valmet ProAct, you can further increase the machine's availability and bring down your servicing and repair costs.

The articulated frame steering now has effective vibration damping. This eliminates mechanical impacts and minimizes hydraulic pressure surges. The stresses imposed on the machine are reduced in this way.

The improved filtering and the lower pressure levels in the hydraulic system, together with the thermostatically controlled oil cooling, also lead to fewer problems and a reduced risk of disruptions.

The new Valmet 911 reduces your costs.

And increases your profitability.

*Margins in the forestry sector have fallen. Hence our determined effort to offer the lowest possible operating and maintenance costs. The largest possible proportion of the machine's total costs during its service life must lie in the basic investment.*

*This imposes high demands on component durability and smart solutions. That is why we are not content with standard solutions, but develop components with the best conceivable characteristics for the challenges to be met.*

*In all our machines you will find the combined result of new technology and all the knowledge that you and your colleagues feed back to us.*

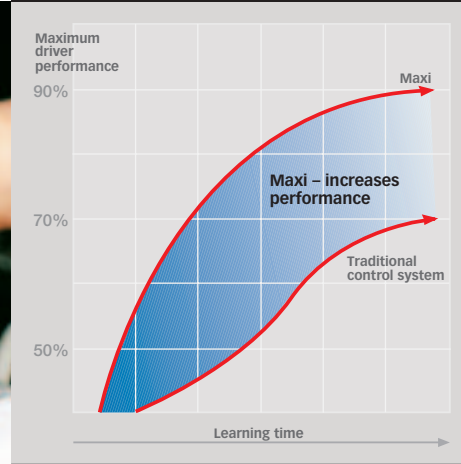
*That makes for an unusually good result.*

*And unusually good total economy.*





# With the power that you need



The new Valmet 911 is a generously dimensioned all-round harvester with a working capacity at the very leading edge. Just like its predecessors with the same name, it has been developed for use in medium to heavy forests. A number of positive characteristics give the 911.1 its high capacity, which increases your opportunities for good productivity.



The full-circle slewing crane gives the Valmet 911 a working area to which you have access through a full 315 degrees. It also remains stable regardless of the direction in which you are working, even if you make use of the crane's full reach. This is thanks to a patented design in which the tilt cylinders are linked to the deflection of the rear axle. These characteristics enable you to work effectively and minimize the number of movements.

## Utilizes the full reach of the crane

The new 911 is a little larger than its predecessor and carries a larger crane, although a narrower model can also be supplied.

A light harvester head is an important condition if you are to be able to take maximum advantage of the crane's reach and manoeuvrability. Regardless of which model of our harvester heads you specify, it will be powerful and productive in relation to its weight. The harvester head that best suits your needs will be determined by your style of driving, and not by any limitations in the machine.

## Effective for all

Your personal effectiveness is facilitated by the fact that the MaxiHarvester control system permits individual settings of the machine's important functions for up to five drivers.

The specially developed engine gives you the power that you need, and the hydraulic output of the new Valmet 911 has also been increased at the same time as fine control characteristics of the hydraulic system have been improved. This makes your job easier and increases your capacity.

The machine also has a new and larger fuel tank. You save time by filling the tank less often.

There is one really good expression with which to describe the new 911.

The capacity increaser.

*A good machine must be able to do everything expected of it and a little more besides. There is no room for compromises. Every Valmet machine is tailor-made for a particular type of task and has sufficient capacity to achieve that with a good margin in hand.*

*Capacity is not only about the machine, however, but has just as much to do with you, the driver. That is why every aspect of a good machine must also be designed to enable your capacity to achieve its full potential in every working situation.*

*The result is quite simply more work done at the end of the shift.*



# Machine and driver – a single system



*A working day in the forest is often both long and demanding. It is not unusual, therefore, to find that the last few hours of the shift are less effective than the first.*

*Here at Valmet, we have devoted a lot of effort to evening out this particular variation. We concentrate a lot on developing a working environment to help you to remain effective – all day long. That is why you will find the best levels of comfort and ergonomics imaginable in our machines.*

*You should regard the fact that you will also feel better in both the short and long term as a pure bonus.*

You will appreciate immediately that the new Valmet 911 is not just any machine. The MaxiHarvester control system is as powerful as before, but it is now even simpler to operate. The reason is the new symbol-based screens.

Maxi gives you full control over your entire machine, from steering the machine to marking for cross-cutting. You have access to the most important functions directly via buttons on the control lever. You can rapidly change your personal settings, select a different price list, control the choice of menu and access the detailed and user-friendly help function.

## **Achieve maximum effectiveness**

Not only is Maxi quicker to learn, but you also achieve greater utilization of the machine's full capacity sooner. The new hydraulic system, which gives maximum sensitivity in felling and processing, contributes to this.

Precisely as you would expect, the 911 has a full-circle slewing cab with a side-mounted crane, which gives you a good view over your working area without the need for unnecessary head movements. The new, spacious cab also has larger areas of glass and a curved front screen

for improved vision. The cab also has automatic levelling for the best possible working position.

## **Feel better – work more effectively**

The power of the engine at low revolutions and a hydraulic system with low pressure levels together generate low noise and vibration levels. The cab also has effective noise suppression and rests on vibration-damping, fluid-filled cushions.

In the Valmet 911 you will not be exhausted by noise and jolts. However, the cab still admits sufficient noise and movement to enable you to feel in close contact with your work.

It goes without saying that the spacious cab has air conditioning. Separate fans for the floor and ceiling help you to find an environment that suits you. A particle filter is standard.

The new 911 included a number of functions to make you feel better. The whole machine was actually designed from the ground up to ensure that you function effectively in it. Now and for many years to come. There is an important reason for that.

If you are unable to work at maximum effectiveness, neither can your machine.

It is as simple as that.

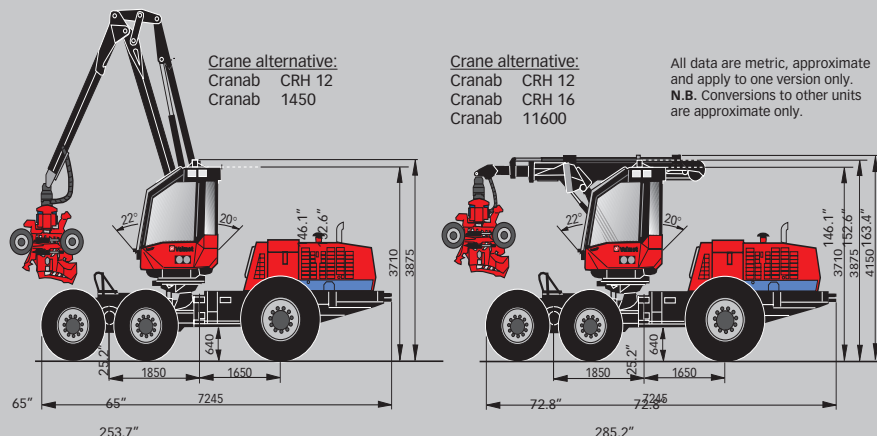
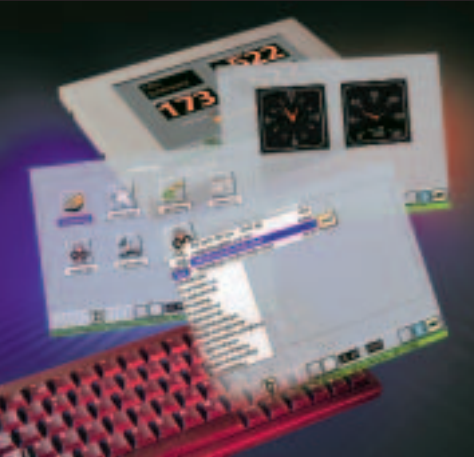






# Valmet 911.1

## Technical data



### Weights and dimensions

Approx. weight, 4-/6-wheel ..... 15 200/16 900 kg  
(33,510/37,260 lbs)  
Minimum width 2 750–2 900 mm (108–114 in)  
Optimal transport height ..... 3 950 mm (156 in)

### Engine

Valmet 620 DWRE, 6-cylinder turbo-diesel engine with intercooler. 129 kW DIN (175 hp) at 2 200 r/min. 700 Nm at 1 400 r/min (517 lb ft at 1400 rpm).

### Transmission

Hydrostatic transmission controlled by Maxi-Harvester.  
Pulling power 132 kN (13 500 kp) (29,762 lbs)

### Wheels and axles

Pivoting rear axle  $\pm 17^\circ$  with hub reduction gear.  
4WD: Rigid front axle with hub reduction gear.  
6WD: Rigid front axle with geared bogie.

#### Wheel

equipment	4WD	front/rear: .....	600/65x34
	4WD	front/rear: .....	700/55x34
	6WD	front: .....	600/55-26.5
		rear: .....	600/65-34
	6WD	front: .....	700/50x26,5
		rear: .....	700/55x34

### Braking system

Dual-circuit with fully hydraulic brakes of the multi-disk type, acting on all wheels.

### Hydraulic system

Load-sensing system with variable piston pump.  
Flow 0–255 l/min (67.4 gpm)  
at 1650 rpm  
Working pressure .. 250 Bar (25 MPa) (3,625 psi)

### Cab

Cab and crane mounted on a slew ring which is tiltable in all directions. The cab is safety-approved. AC, combined heating and cooling system. Filtered intake air via an allergy filter.

### Crane

Parallel-guided knuckle boom crane with telescope: Cranab CRH 12 or CRH 16 (6WD only). Or telescopic crane: Cranab 1450 or 1600 (6WD only). Reach (depending on crane and harvester head)  
Cranab CRH 16/CRH 12 (knuckle boom) ..... 8.7 – 10 m (28.5–32.8 ft)  
Cranab 1600/1450 (telescope) ..... 8.7 – 9.5 m (28.5–31.2 ft)

### Harvester head

Valmet's alternative harvester heads can be specified, see separate brochure.

### Measurement, control and information system

MaxiHarvester is a computerized control system in which all the functions of the machine are controlled with the help of a user-friendly computer. The system includes high-quality marking for cross-cutting with functions for the simple handling of input and output data, follow-up and print-outs and is prepared for external communication.

### Extra equipment

Standard and extra equipment is adapted to the market and varies from country to country. Your dealer has an up-to-date list of what is included.

### Note

Technical data/dimensions may vary depending on the equipment alternatives. We reserve the right to alter specifications or designs without prior notice. Photographs, diagrams and drawings do not show a standard version of the machine in every case.

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