

Valmet *Maxi*



Maxi

Valmet

2008 Valmet

# MaxiManager

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Maxi

Valmet Maxi combines everything from machine control and cross-cutting instructions to file management and communication using a clear and user-friendly portal. It is easy to navigate between different functions, and the system is constantly updating you with relevant information, allowing you to concentrate on the job in hand.

## Maximum control and coordinated profitability

**Maxi is the collective name for Valmet's control and information system. It transforms the various elements of forestry into a single interacting production chain, and makes communication between operators, clients and the industry quick, safe and simple.**

**1**

1) Valmet Maxi gives you advanced machine control using modern electronic units and CANbus networks. It combines control and efficiency with liberating user-friendliness.

**2**

2) All important information is collected on the PC and presented clearly and distinctly on the screen. This gives you control and an overview and helps you to make the right decision.

**3**

3) Information on production, operation, downtime, stem profiles, etc. is stored on the hard disk and can then be used for follow-ups, planning and for client reports.

**4**

4) The system helps you to communicate with the surrounding world via the Internet, e-mail and different types of storage media.

**Valmet Maxi** – your shortcut to coordinated profitability.

Valmet Maxi  
– systematized  
productivity



## MaxiHarvester – optimized machine control and cross-cutting

**MaxiHarvester** is a machine control system developed especially for harvesters. This can be used to enter the properties for cranes and heads and other functions easily via the PC in the cab. The system has support for computer calipers, allowing you to perform quick and flexible calibrations. It is available in two versions with different cross-cutting systems – Base or Value.

**MaxiHarvester Base** employs preselection cross-cutting. Enter the desired diameter limits and lengths for each species and assortment. The computer then optimizes the log length with respect to the minimum diameter for the current assortment. This ensures easy handling and quick cross-cutting.

**MaxiHarvester Value** is used for value cross-cutting. Using this, the system optimizes the value of

wood with respect to pricelists provided by the client, for example. Of course, the pricelists can also be generated and/or managed using our pricelist tool - MaxiA. With MaxiHarvester Value you can also control the result of distribution cross-cutting, and the system can store information on stem profiles for subsequent data-processing. The system also has a built-in troubleshooting function and easily accessible help texts. In tests, the MaxiHarvester Value has proven to have one of the market's best cross-cutting rates, which ensures that you get maximum value from the timber. MaxiHarvester also makes it easy to implement operational and production follow-ups, which can make the clearing company's operations even more efficient.

## MaxiForwarder – productivity and availability

**MaxiForwarder** is the machine control system for forwarders. It controls and optimizes the machine's various functions and also facilitates efficient operational and production follow-ups.

By entering the crane's properties and other functions direct from the PC, you can quickly access and easily change settings if necessary. The MaxiFor-

warder provides support for several operators and settings for several areas. A built-in troubleshooting function with monitoring that sounds an alert, for example, when it is time to replace the filter, enables you to concentrate entirely on the job in hand. Productivity and availability in one and the same system.

## MaxiHead – flexible assembly

**MaxiHead** – extra efficiency for older harvesters. MaxiHead is a separate control system for Valmet's harvester head units that can be installed on older harvesters or other base machines, such as excavators with harvester head units. MaxiHead

is installed alongside the machine's own control system and performs cross-cutting and production follow-ups with the same advanced technology and promising results as MaxiHarvester Base or Value.

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## MaxiManager

**MaxiManager is included in the above systems for all machines with a large PC.**

Komatsu Forest has developed MaxiManager to allow you to manage Maxi's subsystems, your own software and all data files easily and in a flexible manner. This is a portal that makes it easy to switch rapidly between different programs. Using a user-friendly interface, you can access machine control, help systems and administrative tools. You can fill in reports, make notes and view, send or print out files.

Using information such as pricelists and digital maps, you can easily draw up a logging operation in accordance with the client's instructions. Logging becomes more methodical and thus more efficient and profitable. Production can be followed up, for example, by showing production by volume or assortment, in both the harvester and forwarder. MaxiManager helps to maximize profits and complies with modern quality and environmental certification requirements. It also means that you can avoid problems with search paths, folders and program files on the PC's hard disk.

## Driving mode, harvester



In harvester driving mode, the clear display shows all relevant information to enable the operator to maneuver the machine quickly and efficiently. The easy-to-read display shows active functions, operator/area, active pricelist, fuel level, temperatures, and much more.

## Working mode, harvester



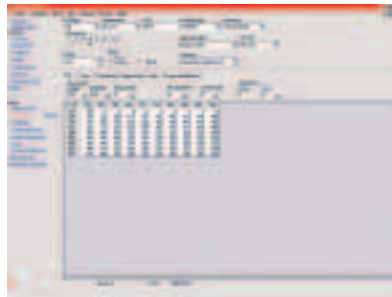
When the operator selects a species or gets up to working speed, the screen automatically switches to displaying cross-cutting information. As the operator often has very little time to study the screen, it is designed to show information in the clearest possible manner. Species, assortment and quality are displayed, along with current diameter and selected and fed length. Clear icons are also activated for certain functions, such as extra clamping pressure, color marking, rough limb cross-cutting, crane lowering, anti-slip and over-drive feed.

## Driving mode, forwarder



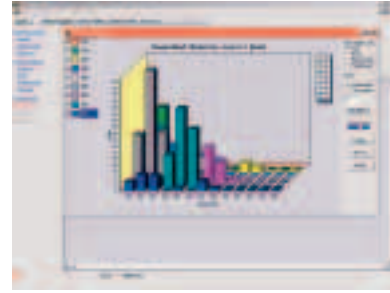
Driving mode is the most common user interface for the forwarder operator. That is why MaxiForwarder has been made as user-friendly as possible. Tachometer, odometer, fuel level, temperatures, activated functions, etc. are shown graphically to give as clear and distinct a picture as possible. Production input also appears on the same screen, which makes the system extremely easy to use. The screen can be adjusted for ambient lighting conditions.

## Cross-cutting



**MaxiA** – the tool for generating, editing and viewing pricelists and cross-cutting instructions ('apt files') – is now a fully integrated part of the Maxi system. The operator simply clicks on the menu to edit a pricelist. Following changes, the file is saved and the cross-cutting computer is automatically updated with the new file. The program has templates that make it simple to create new files. The 'apt files' can be saved on the PC and reused for suitable objects. MaxiA is designed to ensure that the tool functions just as well in the machine as in the office.

## Production follow-up



**MaxiP** is used to review production files ('prd files'). The files can be sorted selectively to show relevant production data for a specific client.

**MaxiScale** controls weighing of timber loaded on the forwarder scales. It is available as an option, together with the scales. MaxiScale ensures that production follow-up is highly accurate and automated. The operator only need register the species and assortment – the system takes care of everything else.

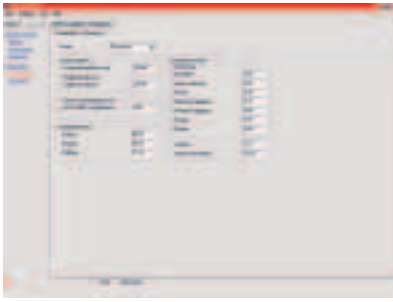
The operator can report data such as the net timber volume and the composition, together with the coordinates or map material from MaxiGIS.

## GPS/GIS



**MaxiGIS** is Komatsu Forest's geographic information system. Combined with a GPS antenna on the machine, the system provides the operator with information on where he is, where he's been and where he's heading. The system plots the machine's position on screen. The operator can import map files from the client by e-mail or from CD-ROM, for example. Such maps may include boundaries for objects or stock, contour lines or nature conservation areas to be protected. As the operator proceeds, the machine's route is plotted, along with cleared areas. This means that during thinning the operator can see whether or not the strip roads are correct or when the entire object has been thinned. The system also emits an alarm if the machine encroaches on a boundary. You can measure areas and distances and input your own information points, such as depository points or hazards.

## Operational follow-up



**MaxiD** is the tool used to review operation files ('drf files'). It includes information on engine run time, basic time, technical availability and downtime divided into different causes of downtime. Where downtime is a result of machine breakdown, it also records the causal group by function, such as engine, crane/loader, transmission, etc.

## Time and Wages



**MaxiTime** is a program that provides complete time reporting for wage management for time worked, overtime and absences. It creates a basis for recording wage information for all employees, which can be printed out and used by the company's payroll department to create payslips. MaxiTime is a tool for compiling statistics on repairs and maintenance, breakdown and manual work. There is also room for consumption statistics on fuel, oils, bars and chains. On the income side, it is possible to carry out a production follow-up for each machine in terms of volume, timber, working hours and revenue.



**MaxiTime** is also the optimum system for documenting all logging objects as well as breakdowns, repairs and manual work.  
Note: MaxiTime is currently only available on the Swedish market.

## File management



File manager is a convenient way to open computer files, send them by e-mail or download them to a disk, USB storage device or other storage media.

## Notes



This function is used to write notes, for example, during telephone conversations, or to pass on information to colleagues on the next shift. The fact that all messages are gathered in one place improves communication and minimizes the risk of losing important information. The PC also indicates when a new message is available.

## Manuals



With ESS, the digital spare parts catalogue, it is easy to find the replacement part you need. It is also simple to generate an order for parts that can then be sent directly to the dealer via e-mail. Replacement parts are displayed with exploded diagrams

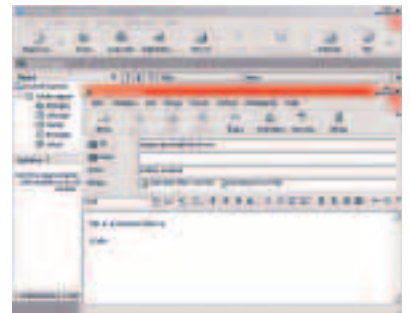
for easy assembly. ESS also contains instruction manuals for the machine, and it is easy to find the information you need. It is also possible to save particularly useful sections as 'favorites' so you can access them quickly at a later date.

## Internet



The web browser makes it possible, for example, to log into the client's website to get logging information. Internet access allows the operator to communicate with the surrounding world without having to leave his cab and to receive updates on industry news and other important information. You only need a normal Internet subscription.

## E-mail



The e-mail program Outlook Express allows the operator to manage sent and received e-mails easily from the cab.

## Own programs

This function enables easy installation and access to custom software used by the individual contractor or specific programs provided for certain clients. All in one place.

# More reliable measuring

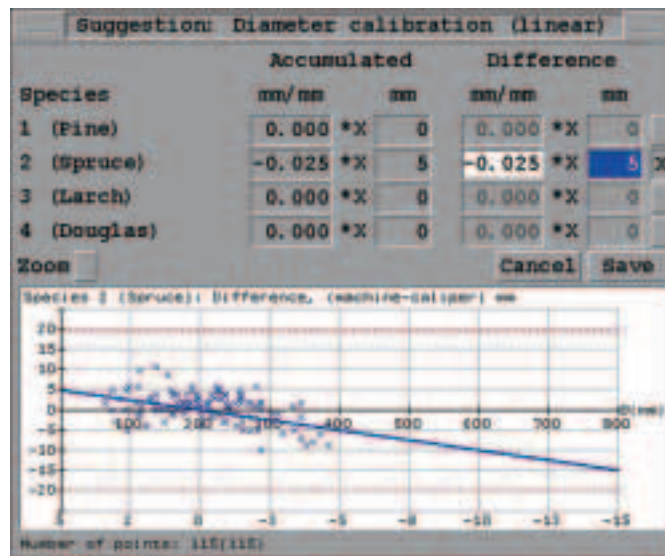
**Reliable harvester** measurements are important for the entire forestry production chain. MaxiHarvester provides quality-assured harvester measurements that increase both the accuracy and reliability of the harvester head's measurement data.

**The harvester's measurement data** is generated by both the operator and the machine. Quick and simple control measurements with great accuracy in the measurement data are an absolute necessity in modern forestry. MaxiHarvester can cope with all the demanding requirements for harvester measurements.

**The Maxi system's** well-tested control measurement procedures with autocalibration and the ability to perform basic calibrations at several points still form the basis of MaxiHarvester. However, in order to further increase measurement accuracy, the MaxiHarvester can also choose at random selected sample trees that must be control-measured. The operator is alerted via the screen if the tree being delimited is a sample tree once part of the trunk has been processed. At this point, the values measured by the machine are not visible to the operator. The operator then measures the trunk with the calipers as before. It has also become much easier and quicker to manage stm files for control measurements, regardless of whether trees are sample ones chosen at random or those selected manually. Computer calipers can be in server mode and continuously connected to the cross-cutting computer. Once the operator has processed a tree that is suitable for using for control measurement, two taps on a button is all that is required to send the stm file to the calipers.

**MaxiHarvester** has also been equipped with regression calibration, which produces a much more exact

calibration of the entire diameter range. At the same time, calibration is much quicker and requires relatively few measurement values. If the operator thinks that the computer's calibration suggestion is correct, he can push a button to approve it.



**MaxiHarvester** can also generate individual production files ('pri files') that store production data, for example, the length, diameter, species and quality for each individual log. This provides information on each individual log, not just the average for the assortment; it also makes it possible to extract more information about the timber that has been felled and compile production data from several different harvesters using different pricelists.



**Komatsu Forest**  
www.komatsuforest.com