WM1000

WM1000 Complete kit for cutting large diameter logs

The WM1000 has been designed and constructed specifically for cutting large, high density and abrasive logs. The new WM1000 head has the capacity to cut a round, straight log of 1.7m diameter straight through the middle. The WM1000 head is mounted on two robust mast assemblies that disassemble for ease of shipping, and has all the features expected of a headrig of this size and design. The standard head is a mobile head and the features include; crowned steel wheels, a central lubrication system for the wheels and the blade, electric control of the blade guide arms, electric power feed system, setworks to enable precise and repeatable sizing and hydraulic tensioning of the blade. The head moves on twin rails which are anchored to the ground.

Standard options

Electric motor

A choice of 22kW, 30kW or 37kW 400VAC electric motors is available.

Control panel

Efficient control of all of the head functions from one place.

SW Setworks

Increases productivity and accuracy using rugged electronics to quickly position the head for the next cut.

Blade Guide System

The use of robust, independently operated blade guide arms with a double block guide system, ensures accurate cutting of even the most irregular log.

Blade Wheel Lubrication System

It cleans and lubricates the contact surface of the blade wheels.

Blade Lubrication

The two-sided blade lubrication system provides cleaning and lubrication and reduces noise during cutting.

Sawdust scraper

Cleans the wheels from any build up of sap or sawdust, reducing noise and vibration and extending blade life.

Blade tensioner

The hydraulic system used ensures constant tension during the cutting process and features an automatic master cut-off, should the hydraulic pressure fall too low for any reason.

Performance Specifications **WM1000**	
Throat capacity Width (distance between rollers) 1700 mm Height above the blade	 1700 mm 980 mm
Power options	electric 37 kW electric 42 kW electric 30 kW electric 34 kW electric 22 kW electric 25 kW
Power Requirements	3x400V AC, 50 Hz 3x460V AC, 60 Hz
Head Drive Power Feed Head Up/Down Blade Guide motors	 electric 1,1 kW electric 0,75 kW electric 2x0,25 kW
Material Parameters	
Minimum log diameter	300 mm
Maximum log diameter	1700 mm (through and through cutting)
Maximum log diameter	unlimited
Minimum cut width	200 mm
Maximum cut width	1700 mm
Minimum cut height	100 mm
Maximum cut height	1700 mm

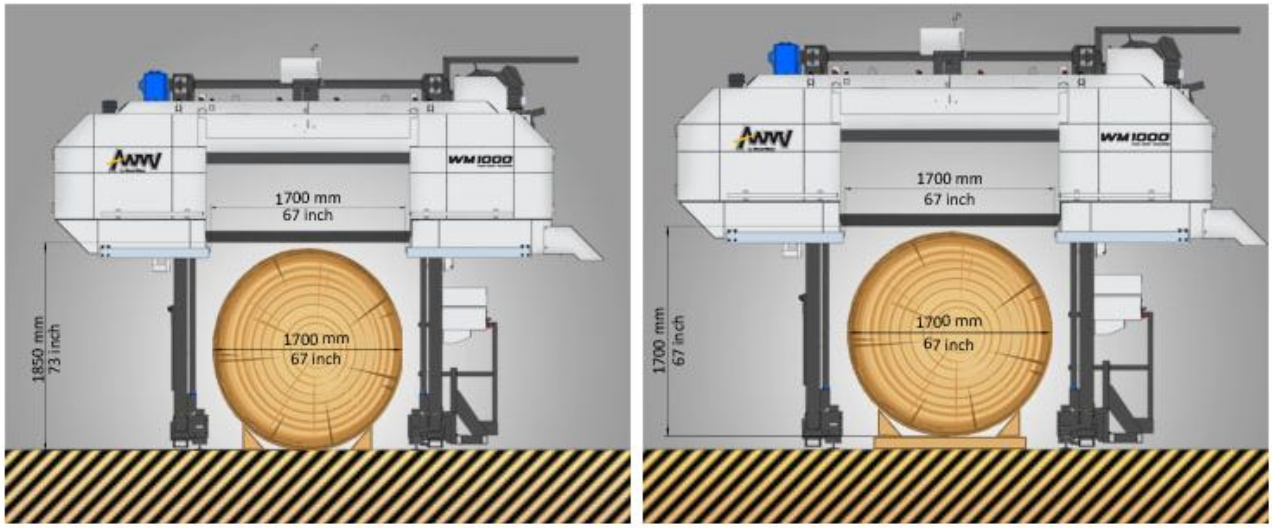
The twin trails which the WM1000 head travels on should be firmly anchored to the ground.
The WM1000 can be used in conjunction with the following bed configurations:

Log on the ground
In its simplest form the log can simply be placed on the ground between the rails and wooden wedges can be used to support the log while cutting. This is ideal for through and through cutting, and is a low cost option.

Manual Bed
The standard manual bed configuration is offered with dual sided adjustable wedge clamps and simple manual jacks for taper setting, which are ideal for initial round log conversion. Once the cant has been produced, the wedges can quickly be replaced by side supports and the one-sided clamp can then be used to hold the cant for further processing.

Hydraulic Log Handling
Wood-Mizer has come up with what we believe to be a first. The hydraulic log handling system comes in two main modules which can be separately ordered, in multiples, to suit the length, straightness, weight and average diameter of the logs to be cut.
- The basic module consists of clamp and side support functions.
- The turning module consists of turner and power roller functions.

WM1000 - maximum cutting sizes



Log on the ground
A 1700mm log can be cut through and through with the log on the ground. The thickness of the last board is limited by the height of rails and is 300 mm. This value can be reduced by laying the log on square cants. The height of the last cut depends in this case on the thickness of the square cants used.

Log on Manual Bed
When the manual bed is mounted at ground level the maximum through and through diameter of a round log is 1300mm. By making a trough in the ground and putting the manual bed below ground level the of the processed log is increased to 1700 mm. In this case, the thickness of the last board is 160 mm. These solutions make it possible to use the full capabilities of the sawmill.

Log on Modular Hydraulic Bed
When the hydraulic bed is mounted at ground level the maximum through and through diameter of a round log is 1150mm. By making a trough in the ground and putting the hydraulic bed below ground level the diameter processed log is increased to 1700 mm. In this case, the thickness of the last board is 160 mm. These solutions make it possible to use the full capabilities of the machine.