

INDUSTRIAL

Wood-Mizer®

from forest to final form

**INDUSTRIAL SAWMILLS AND
WOOD PROCESSING EQUIPMENT**



WM4000

WM4000

The latest in sawmill technology



WM4000 is ideal for:

- Launching a sawmill start-up operation.
- Adding to a circular saw mill operation to get the most profit out of high grade and irregular logs.
- Adding to a thin-kerf operation to boost productivity with a smaller initial investment.
- Replacing a growing mobile sawmill operation to meet increasing production requirements.

Standard equipment:



Touch-screen

Board and cant sizes are displayed along with current head height, feed position, and blade power.



Blade Guide

Integrated blade lubrication ports, flanged, heat-treated rollers with high speed bearings, and double block guides.



Laser Sight

With the built-in laser, the operator always knows exactly where the log will be cut.

Wood-Mizer has announced the release of their new WM4000 thin-kerf industrial sawmill, which they are calling the 'next generation' in sawmills. The WM4000 combines the profitability enhancements of thin-kerf blades with productivity advances in automated sawing technology to create an ideal solution for wood producers in the again growing timber industry.

Similar in overall design to Wood-Mizer's industrial WM3500 sawmill, the WM4000 features are more heavy duty and more productive in many ways.

The WM4000 has taken the flagship position as Wood-Mizer's most productive thin-kerf sawmill on the market, providing new opportunities for the larger profit margins that Wood-Mizer has historically offered the lumber industry.

The WM4000 is designed to work as the principal breakdown saw in Wood-Mizer's line of industrial wood processing equipment and is also able to be integrated into existing operations.

Photo: WM4000 version of the pantograph (mounting electrical wiring).
The actual appearance of the equipment may differ from that shown in the image.



Debarker

Extend blade life with a debarker, which removes bark, dirt, and debris from the path of the blade.



Bed Rails

New stainless steel covers and improved rail shape.



Barstock Back Stands

Provide a surface to dog the log against, allowing the log to be cut perfectly square.



Two Bidirectional Chain Turners

Quickly turn and position the log with this heavy-duty turner.

Headrig Features for the WM4000

A new servo motor controls the vertical head height, and increases the head up/down speed and positioning precision. Larger blade guide rollers provide the blade more support in the cut.

The stability and durability of the mill is increased thanks to the bed rails and frame now featuring 50% more steel. A new built-in powered board conveyor automatically turns itself off after moving a board or cant from the sawmill towards an edger or resaw, reducing daily power consumption.

The hydraulic speed is adjusted proportionally to the operator's pressure applied to the joysticks during use. The standard hydraulics features on the WM4000 are:

- Two redesigned bi-directional chain turners for log positioning
- Three vertical side supports (Up to 6 optional)
- Powered taper rollers



Control Station

Productivity starts with the operator. With this fact in mind, the WM4000 features a new 7.5" (19cm) HMI touch-screen which presents more information to the sawyer. Board and cant sizes are displayed along with current head height, feed position, and blade power. Amongst a host of new productivity-enhancing features, the sawyer's favorite has been the Auto- Cut feature, which remembers the location of the start and end of the log. Instead of the sawyer overshooting either end of the log, the sawhead knows how far to cut, and where to return to, and as a result spends more time sawing.

The new deluxe joysticks provide the operator with precise control of all sawing and log handling functions, and feature proportional hydraulic speed control. They can be configured to save two different sawyers' personal joystick preferences.

Maintenance and Troubleshooting

The HMI touch-screen computer comes with a robust set of diagnostic capabilities, and troubleshooting the system can be accomplished via the onboard Ethernet connection.



Belt Conveyor

Mounted at the end of the sawmill, this conveyor automatically engages when a board is being removed from the sawmill, and then shuts off to save power.



Board Return Arms

The solid-steel board return arms transfer freshly sawn boards from the sawmill to the waiting conveyor.



Taper Rollers

Provide horizontal positioning to adjust for taper in the log, and assist with cant removal.



Power Roller

Easily enables you to position the log on the bedrails, and can also assist in removing sawn cants.



Heavy-Duty Log Clamp

The versatile log clamp can be used as a log/cant clamp as well as a quick way to flip cants into position.



Hold Down Clamp

Invaluable when cutting logs which have compression or tension wood.

Headrig Options

Log Deck

The Log Deck can be integrated with the WM4000/WM3500/WM3000 and is controlled from the operator's stand with a touch of a button. The Log Deck can be used to feed the WM4000/WM3500/WM3000 headrig or any other application requiring logs to be staged and loaded.

Available in 3.6m (12ft) and 6m (20ft) standard lengths. Heavy-duty chains are hydraulically driven, and the unit is equipped with a stop and loader to ensure that a single log at a time is loaded onto the mill. The angle of the Log Deck easily loads low-grade, knotty logs.

Increase productivity for your operation by adding this heavy-duty Log Deck.



Incline Conveyor

The Incline Conveyor is designed to work in combination with the board removal system on the WM4000/WM3500/WM3000 headrigs, but can be adapted to any application needing a flat belt conveyor. The conveyor is designed to mate with Wood-Mizer headrigs in dimension and the belt speed matches the return speed of the WM4000/WM3500/WM3000.

The cut piece is pulled off the mill and onto the conveyor, which transfers it away at a slight incline. Because the cut piece is elevated, it can then move onto a Transfer Deck.



Transfer Table

This is a simple and effective solution for transferring material quickly and efficiently. After the material moves onto the rollers from the Incline Conveyor, a sensor activates an air bag which is connected to a set of inclined cross transfer rollers. The cut piece then rolls down the incline to a stop location, or onto another conveyor. Alternatively, the sawyer or other operator can activate pneumatic kickers to push the piece off the opposite side. There are no chains, gears, or motors, which makes operation simple with little maintenance. The Transfer Table can be set up for either right- or left-hand operation.



Standard Pantograph System

Keeps all cables that run from the sawmill to the operator's station away from sawdust and debris, resulting in trouble-free operation.



WM4000 SPECIFICATIONS

Power

22kW Electric

Power Supply: 400V/50Hz, 3Ph

Blade

Length	4.98m
Width	38mm

Blade Wheel

Diameter	635mm
Type	Belted Cast Steel

Cutting Capacity

Length	6.50m
Length (with Board Removal)	6.30m
Diameter	910mm
Max. Clamp Width (from stop block)	660mm
Min. Clamp Width (from stop block)	50mm
Max. Throat Width (guide to guide)	830mm
Max. Cant Width (outer guide to stop block)	740mm
Max. Cutting Depth 61cm wide	130mm
Max. Cutting Depth 56cm wide	330mm

Dimensions & Requirements

Length (bed only)	8.80m
Length (with cab)	10.50m
Width (machine only)	3m
Width (with cable boom)	4.87m - 6.10m
Height (head only)	2.90m - 3.10m
Height (with cable boom)	3.40m
Bed Height	790mm
Weight	3800kg - 4250kg
Shop Air Supply	110psi
Dust Collection Port	150mm

Hydraulic System

Hydraulic Output	23 - 34 LPM
Motor	5.5kW - 7.5kW



"Before I purchased my Wood-Mizer sawmill, I had already heard many positive comments about their products. Owners of other mills confirmed that Wood-Mizer produced the highest quality machines. So I relied on the experts at Wood-Mizer and after we carefully looked at our needs, we decided to buy a WM3500 sawmill, which turned out to be an excellent decision and it suited our needs ideally. "

– Tomasz Waleński,
Mat-Tar Koźminiec, Poland



"We use both the Wood-Mizer LT15 and LT40 sawmills. These sawmills have proved to be the highest quality. However, in order to meet the growing demands of our production, we advanced to the far more efficient WM3000 sawmill. The WM3000 sawmill is operated by a single operator from a special cabin, which gives him an excellent view of the cutting process. "

– Zsolt Bagin,
Zemlianska Olca, Slovakia

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