

MechMaxx SM-36MAX

MechMaxx 36" MAX Portable Sawmill

INSTRUCTION MANUAL - MODEL SM-36MAX

Introduction

This manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of your MechMaxx 36" MAX Portable Sawmill. Please read this manual thoroughly before operating the sawmill to ensure proper use and to maximize the lifespan of your equipment.

1. Setup and Assembly

Proper setup is crucial for the stability and performance of your sawmill. Ensure the ground is level and firm before beginning assembly.

1.1 Unpacking and Inspection

Carefully unpack all components and verify against the packing list. Inspect for any shipping damage. Report any discrepancies or damage to MechMaxx customer support immediately.

1.2 Assembling the Track System

Connect the track sections securely. The 20-foot track length provides ample space for logs up to 16 feet 8 inches. Additional extensions are available for longer logs.



Figure 1: The MechMaxx 36" MAX Portable Sawmill with its 20-foot track system.

1.3 Leveling the Sawmill

Use the adjustable leveling feet to ensure the entire track system is perfectly level. This is critical for accurate cuts and smooth operation.



Figure 2: Overall view of the sawmill, showing the track system and leveling feet.

1.4 Engine Preparation

Ensure the Zonsen 750cc 25HP 4-stroke single cylinder air-cooled OHV gasoline engine has adequate fuel (6.3 gal tank capacity) and oil before starting. The engine features an electric start for convenience.



Figure 3: The powerful 750cc 25HP engine with electric start.

2. Operating the Sawmill

Follow these steps for safe and effective operation of your MechMaxx sawmill.

2.1 Loading Logs

The sawmill can handle logs with a maximum diameter of 36 inches. Carefully position the log onto the track system.



Figure 4: The sawmill's capacity for logs up to 36 inches in diameter.

2.2 Securing Logs with Spiral Log Clamps

Utilize the easy-to-use spiral log clamps to firmly hold the log in place during cutting, preventing movement and ensuring safety.

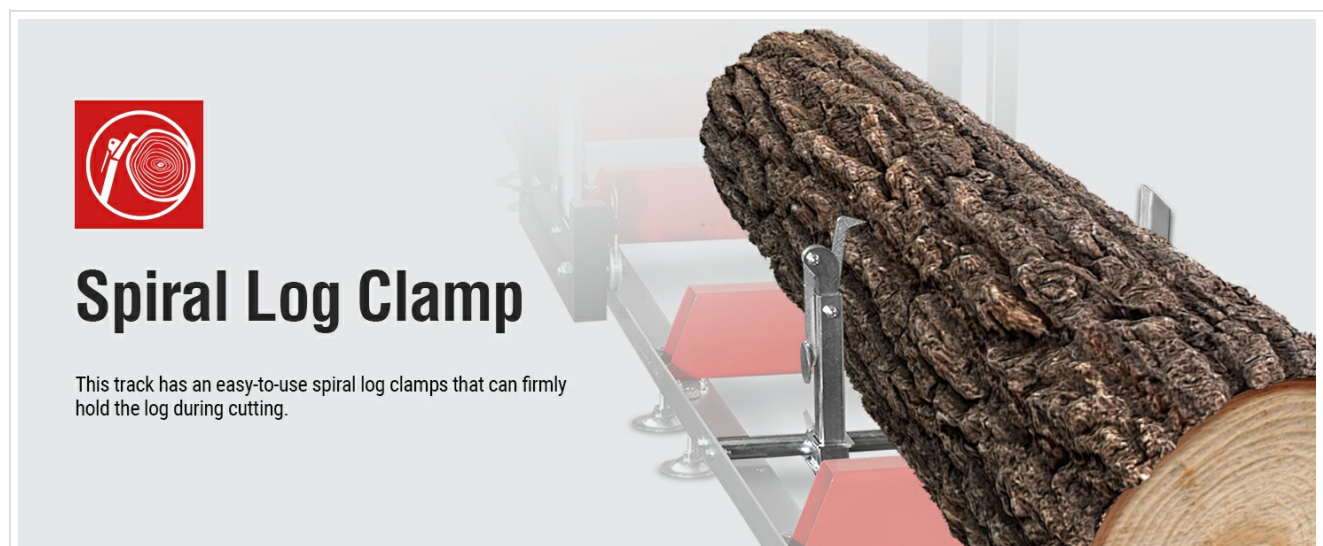


Figure 5: Spiral log clamps ensure the log is stable during cutting.

2.3 Adjusting Cutting Parameters

The sawmill allows for a maximum board width of 36 inches and a maximum thickness of 7 inches. Use the precision ruler for accurate measurements and adjust the cutting thickness by rotating the handle.



36" Max Cutting Width

The cutting width of the boards can be adjusted by adjusting the length of the saw blade. The maximum cutting width is 36 inch.



Figure 6: Adjusting the cutting width for optimal board size.



7" Max Cutting Thickness

Precision ruler provided different measurement units provide precise cutting, reducing waste of raw materials. Rotating the handle can adjust the cutting thickness, and the maximum thickness of the board can be cut to 7 inches.

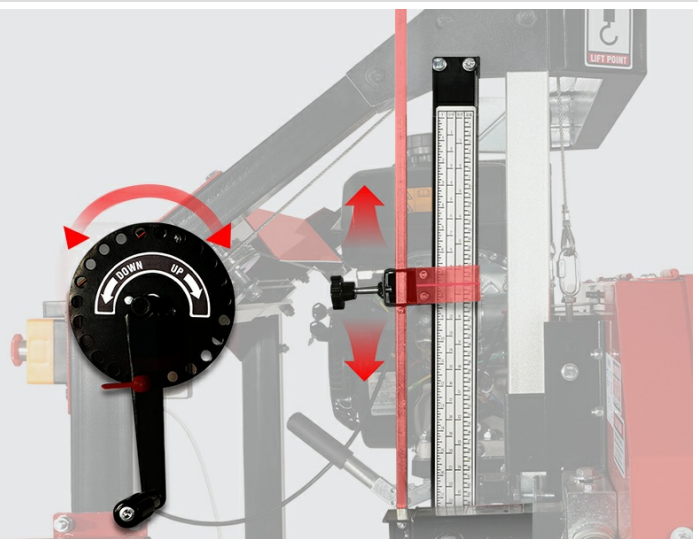


Figure 7: Precision ruler and handle for adjusting cutting thickness up to 7 inches.

2.4 Sawing Operation

Control the cutting speed using the throttle handle. The carbonized steel saw blade (1.58"x1.3"x0.04") is designed for smooth and stable cutting, reducing wood chips. Its rotation speed can reach 787 feet per second.



Throttle Control Handle

You can control the cutting speed by pushing this handle, and you can speed up or slow down at any time, making the wood cutting process fast and efficient. Compared to traditional chain saw machine, the time is cut in half.



Figure 8: The throttle control handle allows for variable cutting speed.



Carbonized Steel Sawblade

The saw blade(158*1.3*0.04 in) made of carbonized steel is very strong and durable. The rotation speed can be as high as 787" per second, which can ensure smooth and stable cutting while reducing wood chips and increasing the amount of wood.

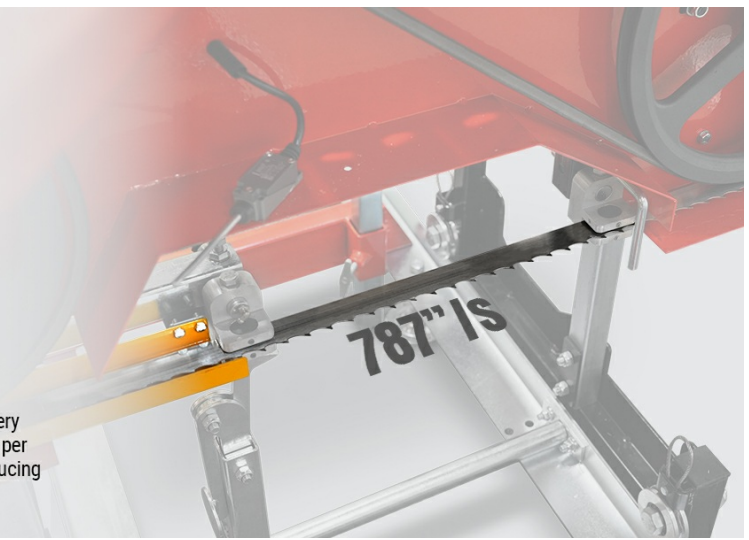


Figure 9: The durable carbonized steel sawblade.

2.5 Emergency Stop

An emergency stop button is conveniently located near the operator. In case of any emergency or malfunction, press this button to quickly stop the machine, ensuring safety for both the equipment and the operator.



Emergency Stop Button

The emergency stop button is located next to the throttle handle, very close to the operator. In case of emergency or machine malfunction, the machine can be stopped faster to ensure the safety of the operator.

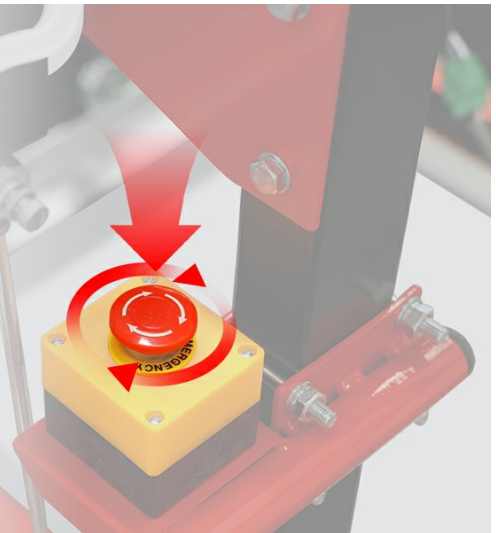


Figure 10: The easily accessible emergency stop button.

2.6 Operational Demonstration Video

Watch this video for a visual guide on setting up and operating the MechMaxx 36" Portable Sawmill.

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Video 1: Demonstration of MechMaxx 36" Portable Sawmill. This video illustrates the setup process, log loading, and cutting operations of the sawmill, providing a practical overview for new users.

3. Maintenance

Regular maintenance ensures the longevity and optimal performance of your sawmill.

3.1 Blade Lubrication

The sawmill features a water lube system with a manual valve for blade lubrication. Ensure the 4-gallon lubricant tank is filled before operation to reduce friction and heat during cutting.

3.2 General Cleaning

After each use, clean sawdust and debris from the track, blade, and engine area. This prevents buildup that could affect performance or cause wear.

3.3 Engine Maintenance

Refer to the engine manufacturer's manual for specific maintenance schedules, including oil changes, air filter cleaning/replacement, and spark plug inspection.

3.4 Manual Tube Storage

A convenient manual tube is provided on the sawmill for storing operation manuals, user guides, drawings, or small maintenance tools.



Figure 11: The manual tube for convenient storage of documents and small tools.

4. Troubleshooting

This section addresses common issues you might encounter and provides potential solutions.

4.1 Engine Not Starting

- **Check Fuel Level:** Ensure the fuel tank is not empty.
- **Check Spark Plug:** Inspect the spark plug for fouling or damage. Clean or replace as needed.
- **Check Battery (Electric Start):** Ensure the 12V 20Ah lead-acid battery is charged.
- **Choke/Throttle Position:** Verify the choke is engaged for cold starts and the throttle is in the correct starting position.

4.2 Blade Not Cutting Efficiently

- **Dull Blade:** The saw blade may be dull. Replace with a new carbonized steel blade (10 blades included with purchase).
- **Insufficient Lubrication:** Ensure the water lube system is functioning and the tank is full.

- **Log Movement:** Verify logs are securely clamped with the spiral log clamps.
- **Track Leveling:** Re-check that the track system is perfectly level. Uneven tracks can cause inconsistent cuts.

4.3 Excessive Vibration or Noise

- **Loose Fasteners:** Check all bolts and fasteners on the sawmill and track system for tightness.
- **Blade Tension:** Ensure the blade tension is correctly adjusted using the adjustable lever.
- **Blade Damage:** Inspect the blade for any bends, cracks, or missing teeth. Replace if damaged.

5. Specifications

Detailed technical specifications for the MechMaxx 36" MAX Portable Sawmill.

Feature	Specification
Engine	ZONSEN GB750, 750cc 25HP 4-stroke OHV gasoline engine
Start Type	Electric Start
Max Log Diameter	36 inches
Max Board Width	36 inches
Max Board Thickness	7 inches
Standard Cutting Length	16 ft 8 in (20 ft track length)
Blade Material	Carbon Steel
Blade Size	175 x 1.3 inches
Fuel Tank Size	6.3 gallons
Lubricant Tank Size	4 gallons (Water Lube - Manual Valve)
Track Width	45.3 inches
Item Weight	1239 pounds
Product Dimensions (L x W x H)	248"L x 94.4"W x 88.5"H
Material	Galvanized Steel
Color	Red

Blade Lubrication	Water Lube - Manual Valve	Track Bunks	3 X 6 in
Lubricant Tank Size	4 gal	4 Post Head Design	Yes
Fuel Tank Size	6.3 gal	Finish	Powder Coat Paint Galvanized Steel
Track Width	45.3 in	Emergency Stop	Button
Track Length	20 ft	Model	SM-36MAX
Levelling Feet	18	Package Method	Wood
Log Rests	2 Long and 2 Short Rests	Packing Size	90 x 28.5 x 34 in
Log Clamps	2 x Quick Lock	Weight (N.W./G.W.)	1115/1239 lbs

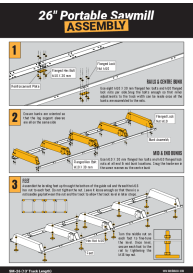
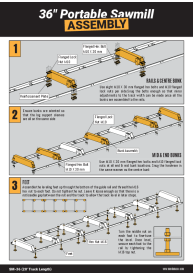
Figure 12: Comprehensive specifications for the MechMaxx 36" MAX Portable Sawmill.

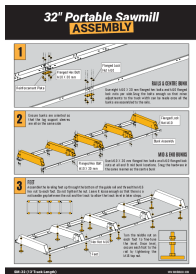
6. Warranty and Support

MechMaxx is committed to customer satisfaction. For any questions, technical support, or warranty inquiries, please contact our customer service team. You can also visit the official MechMaxx store for more information and products.

[Visit the Official MechMaxx Store](#)

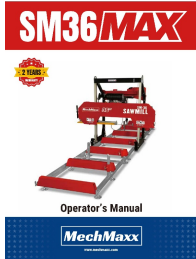
Related Documents - SM-36MAX

	<p>26" Portable Sawmill Assembly Guide</p> <p>Step-by-step assembly instructions for the 26" Portable Sawmill, including details on rails, bunks, feet, limit plates, log clamps, log supports, sawmill head, cross beam, lifting system, log scale, throttle handle, water pipe, and electrical connections.</p>
	<p>36" Portable Sawmill Assembly Guide - MechMaxx SM-36</p> <p>Step-by-step assembly instructions for the MechMaxx 36" Portable Sawmill (Model SM-36). Learn how to assemble rails, bunks, feet, log clamps, sawmill head, and more.</p>



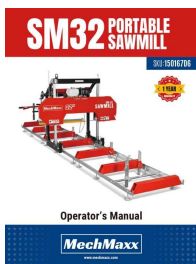
[32" Portable Sawmill Assembly Guide](#)

Step-by-step assembly instructions for the 32" Portable Sawmill, including parts, hardware, and assembly procedures.



[MechMaxx SM36 MAX Portable Sawmill Operator's Manual](#)

Operator's manual for the MechMaxx SM36 MAX Portable Sawmill, covering specifications, safety, assembly, operation, and maintenance for efficient wood processing.



[MechMaxx SM32 Portable Sawmill Operator's Manual](#)

Comprehensive operator's manual for the MechMaxx SM32 portable sawmill. Covers detailed specifications, safety protocols, assembly, startup, maintenance, and troubleshooting for the 32-inch sawmill with a 459cc ZONSEN GB460 engine. Includes parts lists and diagrams.



[MechMaxx SM32 Portable Sawmill Operator's Manual](#)

This operator's manual provides comprehensive instructions for the setup, operation, maintenance, and safety procedures for the MechMaxx SM32 Portable Sawmill. It includes detailed diagrams and parts lists for assembly and troubleshooting.