

BILT HARD TRS-1005

BILT HARD 36-inch Portable Sawmill TRS-1005 User Manual

Your Guide to Safe and Efficient Operation

1. INTRODUCTION

This manual provides essential instructions for the safe assembly, operation, and maintenance of your BILT HARD 36-inch Portable Sawmill, Model TRS-1005. Please read this manual thoroughly before operating the sawmill to ensure proper use and to prevent injury or damage. Keep this manual for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, gloves, and sturdy footwear.
- Ensure the work area is clear of bystanders, children, and pets.
- Never operate the sawmill under the influence of drugs or alcohol.
- Before starting, inspect the sawmill for any damaged parts, loose connections, or fuel leaks.
- The sawmill is equipped with an **Emergency Stop Button**. Familiarize yourself with its location and function for immediate shutdown in critical situations.
- Handle gasoline with extreme care. Refuel in a well-ventilated area with the engine off and cool.
- Ensure logs are securely clamped before cutting to prevent movement.

3. PRODUCT OVERVIEW

The BILT HARD 36-inch Portable Sawmill (Model TRS-1005) is designed for processing logs into lumber. It features a powerful 760cc 25HP E-Start gas engine, capable of handling logs up to 36 inches in diameter and producing boards up to 36 inches wide with an adjustable cutting thickness of up to 7 inches. The robust track system ensures stability and precision.

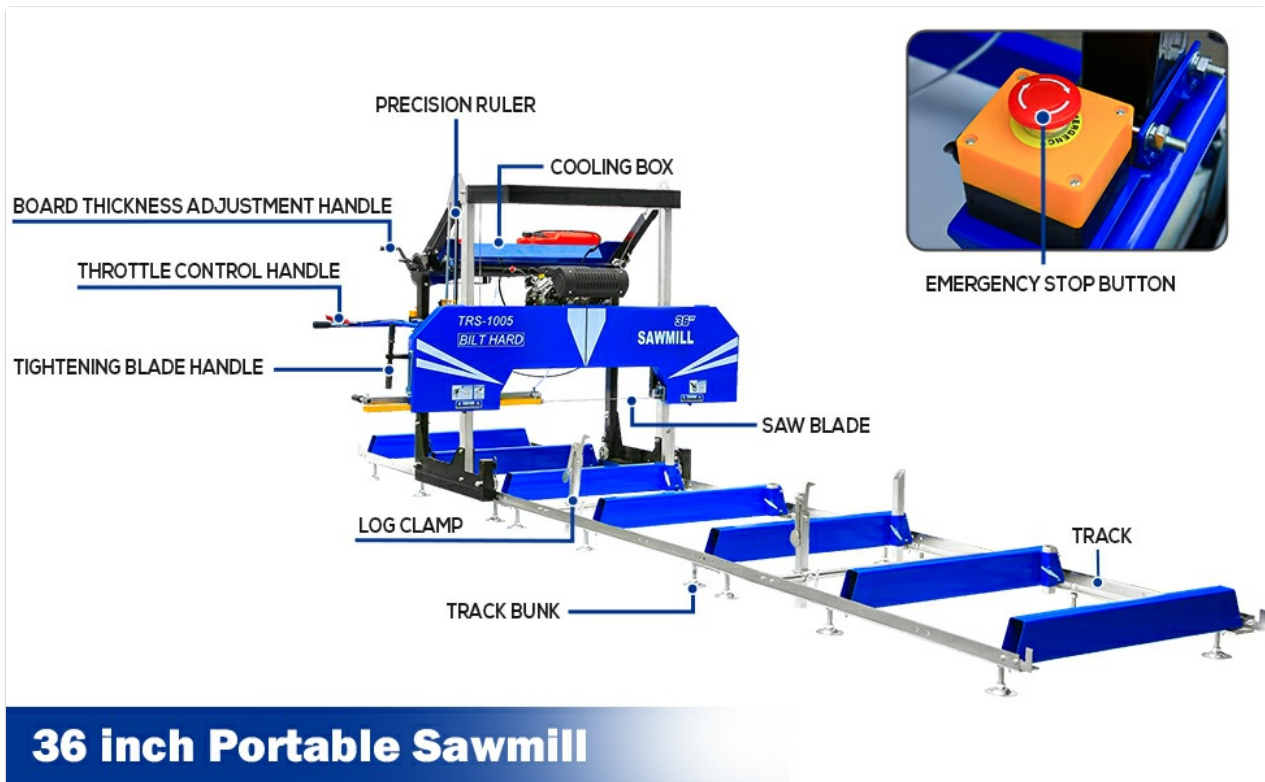


Figure 1: Overview of the BILT HARD Portable Sawmill with key components labeled.

Key Components:

- **Engine:** 760cc 25HP Ducar 4-stroke gasoline engine with electric start.
- **Saw Blade:** High carbon steel blade, dimensions 175" x 1.25" x 0.04".
- **Track System:** Robust track with a total length of 230 inches (19.2 feet) and a width of 45.3 inches.
- **Log Clamps:** Versatile clamps to secure logs of various sizes and shapes.
- **Board Thickness Adjustment Handle:** For precise control over cutting depth.
- **Throttle Control Handle:** To manage blade speed during operation.
- **Emergency Stop Button:** For immediate shutdown of the engine.
- **Cooling Box:** For blade lubrication during cutting.

4. SETUP

4.1 Track System Assembly

Assemble the track sections on a firm, level surface. Ensure all connections are secure and the track is properly aligned. The total track length is 230 inches, allowing for cutting logs up to 200 inches long.

230" Standard Track Length

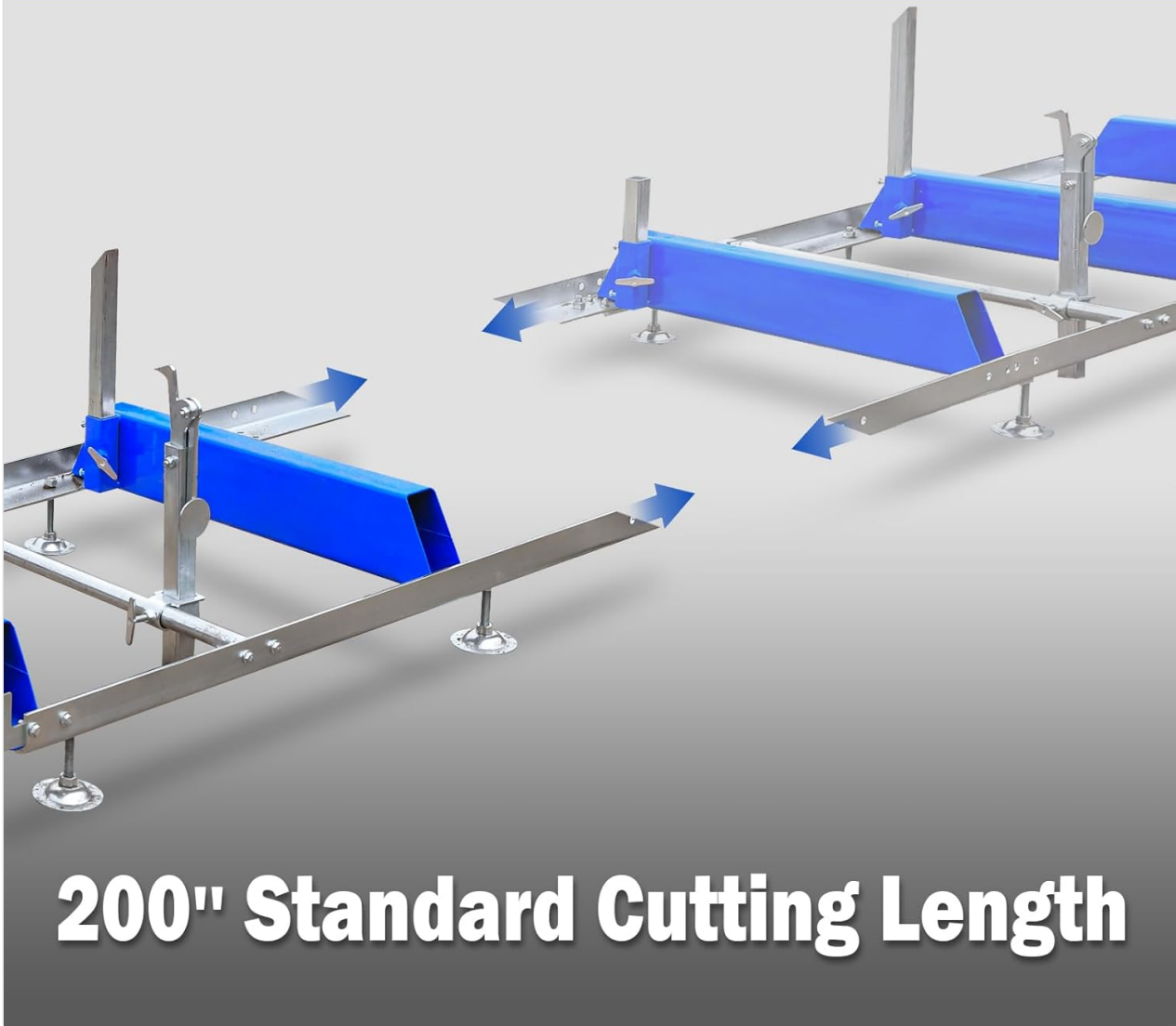


Figure 2: The sawmill's track system, illustrating the 230-inch standard track length.

4.2 Engine Preparation

1. Fill the fuel tank with unleaded gasoline.
2. Check the engine oil level and add recommended oil if necessary.
3. Ensure the cooling box is filled with water or appropriate lubricant for the saw blade.



Figure 3: The 760cc 25HP Ducar engine with electric start mechanism.

5. OPERATION

5.1 Starting the Engine

1. Ensure the sawmill is on a stable, level surface.
2. Turn the ignition key to the 'ON' position.
3. Engage the choke if the engine is cold.
4. Press the electric start button until the engine starts.
5. Disengage the choke once the engine is running smoothly.

5.2 Log Placement and Clamping

Carefully place the log onto the track system. Use the versatile log clamps to firmly secure the log in place. Ensure the log is stable and will not shift during cutting. The sawmill can accommodate logs up to 36 inches in diameter.



Figure 4: A log secured on the sawmill, demonstrating the 36-inch maximum log diameter capacity.



Figure 5: Close-up of the throttle handle for speed control and the spiral log clamp for secure log placement.

5.3 Adjusting Cutting Thickness

Use the board thickness adjustment handle and precision ruler to set the desired cutting thickness. The sawmill allows for adjustable cutting thickness up to 7 inches.

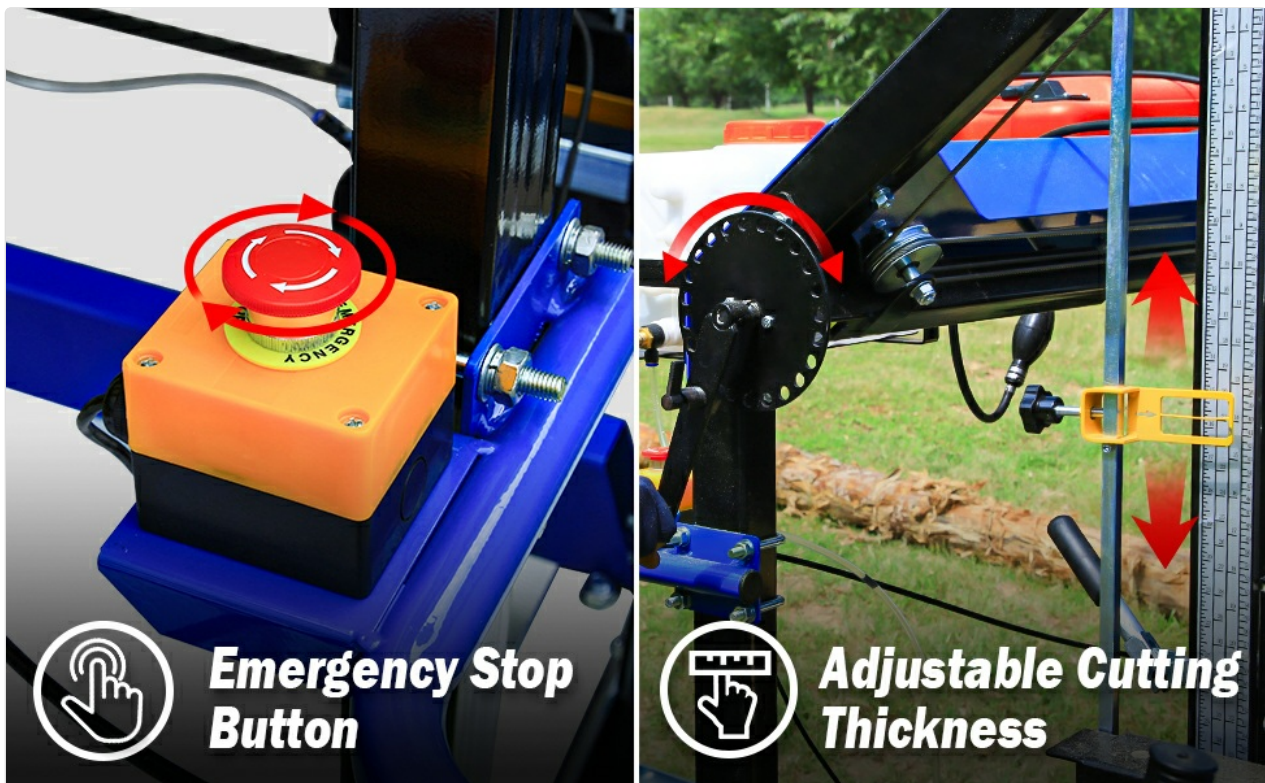


Figure 6: The emergency stop button and the mechanism for adjusting cutting thickness.

5.4 Cutting Procedure

Once the log is secured and the thickness is set, engage the blade and slowly push the saw head along the track. Control the cutting speed using the throttle handle. The carbon steel blade operates at a speed of 65.7

feet per second, ensuring clean and accurate cuts. The maximum cutting width is 36 inches.



Figure 7: The sawmill in operation, demonstrating its 36-inch maximum cutting width.



Figure 8: The BILT HARD sawmill efficiently cutting a long log.

5.5 Emergency Stop

In case of any emergency or unexpected situation, immediately press the red Emergency Stop Button to shut down the engine and stop the blade.

5.6 Instructional Video

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Video 1: An overview of the BILT HARD 36-inch Portable Sawmill, demonstrating its features and operation, including log clamping, thickness adjustment, and cutting process.

6. MAINTENANCE

6.1 Blade Maintenance

Regularly inspect the saw blade for sharpness and damage. A dull or damaged blade can lead to inefficient cutting and potential safety hazards. The blade is made of high carbon steel with dimensions of 175" x 1.25" x 0.04".



Figure 9: Detail of the carbon steel saw blade and the manual tube for documentation.

6.2 Engine Maintenance

Follow the engine manufacturer's recommendations for oil changes, air filter cleaning/replacement, and spark plug inspection. Regular engine maintenance ensures optimal performance and longevity.

6.3 General Cleaning

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

7. TROUBLESHOOTING

- **Engine Fails to Start:** Check fuel level, spark plug, and ensure the choke is correctly set. Verify the electric start battery is charged.
- **Uneven Cuts:** Inspect the blade for sharpness and proper tension. Ensure the log is securely clamped and the track system is level and free of debris.
- **Excessive Vibration:** Check for loose components, damaged blade, or improper blade tension.
- **Blade Overheating:** Ensure the cooling box is filled and the lubricant is flowing to the blade. Reduce feed rate if necessary.

8. SPECIFICATIONS

Feature	Specification
Brand	BILT HARD
Model Number	TRS-1005
Engine	760cc 25HP Ducar 4-stroke Gas Engine with E-Start
Max Log Diameter	36 inches
Max Board Width	36 inches
Max Cutting Thickness	7 inches
Track Length (Total)	230 inches (19.2 feet)
Standard Cutting Length	200 inches (16.6 feet)
Track Width	45.3 inches
Blade Material	High Carbon Steel
Blade Dimensions	175" x 1.25" x 0.04"
Blade Speed	65.7 Feet Per Second
Power Source	Gas
Product Dimensions (L x W x H)	248.03" x 100.4" x 88.58"
Item Weight	1058.22 Pounds


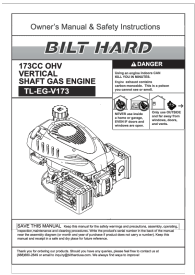

9. WARRANTY AND SUPPORT

BILT HARD is committed to providing high-quality products and exceptional customer service. For any questions, technical assistance, or warranty inquiries regarding your 36-inch Portable Sawmill, please contact BILT HARD directly.

Please note that Amazon does not handle returns of gasoline-related products. For support, reach out via Amazon email or through the official BILT HARD website.

For more information, visit the [BILT HARD Store on Amazon](#).

Related Documents - TRS-1005

	<p>BILT HARD 32-in Portable Sawmill: Assembly, Operation, and Maintenance Manual</p> <p>Comprehensive manual for the BILT HARD 32-inch Portable Sawmill (Model TRS-1002). Covers assembly instructions, safety guidelines, operating procedures, maintenance, and troubleshooting for optimal performance.</p>
	<p>BILT HARD 173CC OHV Vertical Shaft Gas Engine Owner's Manual & Safety Instructions</p> <p>Comprehensive owner's manual and safety instructions for the BILT HARD 173CC OHV Vertical Shaft Gas Engine (Model TL-EG-V173). Covers specifications, setup, operation, maintenance, troubleshooting, and warranty information.</p>
	<p>BILT HARD Log Splitter TLA-0101 Owner's Manual</p> <p>Comprehensive owner's manual for the BILT HARD TLA-0101 Log Splitter, covering safety, operation, maintenance, specifications, and troubleshooting. Includes detailed instructions and parts list.</p>
	<p>BILT HARD Log Splitter TL-LS65 Owner's Manual</p> <p>This manual provides safety warnings, operating instructions, specifications, and maintenance information for the BILT HARD TL-LS65 Log Splitter.</p>
	<p>BILT HARD 22" Walk-Behind String Trimmer: Adjusting Mowing Height</p> <p>Instructions on how to adjust the mowing height for the BILT HARD 22" Walk-Behind String Trimmer with a 170cc 4-Cycle Gas Engine. Includes steps for safely lowering the mower and tightening adjustment bolts.</p>

BILT HARD



FOR YOUR SAFETY
READ AND UNDERSTAND THE ENTIRE MANUAL
BEFORE OPERATING MACHINE

SKID TLA-0101

Read model number and serial number may be found on the main label.
You should record both of them in a safe place for future use.

Save This Manual for Future Reference

Customer Support: 800-456-7890 support@biltonline.com

LOG SPLITTER ... Owner's Manual

[BILT HARD Log Splitter TLA-0101 Owner's Manual](#)

Comprehensive owner's manual for the BILT HARD TLA-0101 log splitter, covering safety instructions, operation, maintenance, specifications, troubleshooting, and parts list.