

MechMaxx FM180

MechMaxx FM180 72" Working Width Finish Mower Attachment Instruction Manual

Model: FM180

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1. INTRODUCTION

This manual provides essential information for the safe and efficient operation and maintenance of your MechMaxx FM180 72" Working Width Finish Mower Attachment. Please read this manual thoroughly before assembly, installation, operation, or maintenance 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 could result in serious injury or death.

- Always read and understand the entire instruction manual before operating the mower.
- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and sturdy footwear.
- Keep all bystanders, especially children and pets, at a safe distance from the operating area.
- Ensure the mower is securely attached to the tractor's 3-point hitch and PTO shaft before operation.
- Never operate the mower with guards removed or damaged.
- Disengage the PTO, shut off the tractor engine, and remove the key before performing any adjustments, maintenance, or clearing blockages.
- Be aware of rotating blades and other moving parts. Keep hands and feet clear.
- Operate on slopes with extreme caution to prevent rollovers.
- Before first use, ensure the gearbox is filled with the specified oil type and quantity.



ADD GEARBOX OIL

1.20L (1.27 quart) of Gearbox Oil is required.

Gearbox Oil Type : 85W-90



Figure 2.1: Warning to add gearbox oil before initial operation. Ensure 1.20L (1.27 quart) of 85W-90 Gearbox Oil is added to the oil filler hole.

3. PRODUCT OVERVIEW

The MechMaxx FM180 is a robust 72-inch working width finish mower attachment designed for efficient and precise grass maintenance. It is compatible with Category 1 tractors and loaders with 3-point hitches, requiring 18-50 HP for optimal performance.



Figure 3.1: The MechMaxx FM180 72" Working Width Finish Mower Attachment.

Key Features:

- **Power Requirement:** Designed for 18-50 HP tractors with PTO driveshaft.
- **Working Width:** 72 inches, capable of cutting material up to 0.75 inches in diameter.
- **Adjustable Cutting Height:** Wheel brackets allow height adjustment from 0.4" to 4.5".
- **Blades:** Equipped with 3 high-grade steel, heat-treated 60Si2Mn blades for effective cutting.
- **Floating Hitch:** Ensures blades contour to uneven surfaces, maintaining an even cut.
- **Rear Discharge:** Wide rear discharge design minimizes grass buildup and eliminates the need for additional cleanup.
- **Gearbox:** Features a high-quality, low-noise cast iron gearbox for reliable power transmission.



18-50HP Power Required

Extremely sturdy finishing mower engineered to provide optimal performance when used with tractors with PTO power of 18-50HP.



Figure 3.2: The FM180 requires a tractor with 18-50 horsepower for operation.



4 Solid Tires

Supported by four solid tires for tough work and easy into barn, shed or garage. Adjustable wheel brackets that allow you to set the cut height from 0.4" – 4.5" for the perfect cut every time.

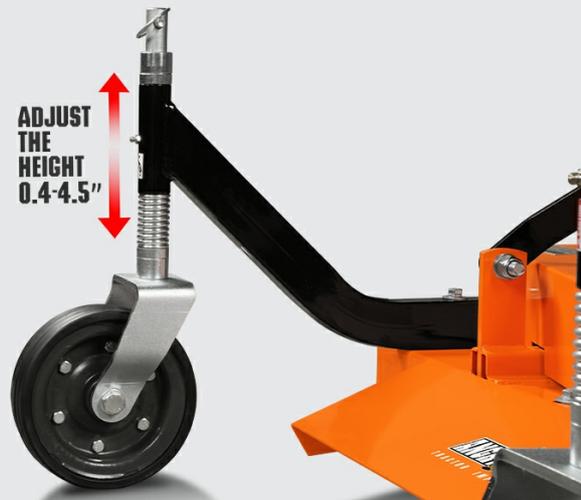


Figure 3.3: Four solid tires support the mower, with adjustable wheel brackets for setting cutting height from 0.4 to 4.5 inches.



3PCS 60Si2Mn Blades

3 number of 60Si2Mn blades through tough matted grass, weeds and other overgrown vegetation with ease.

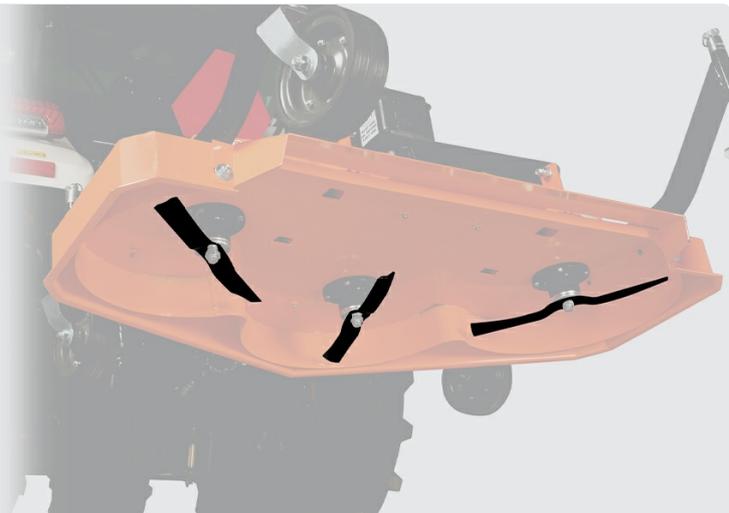


Figure 3.4: The mower is equipped with three durable 60Si2Mn blades.



Wide Rear Discharge

Eliminates grass buildup, clumping and unwanted piles of debris in uncut areas while you mow.



Figure 3.5: The wide rear discharge design helps prevent grass buildup.

4. SPECIFICATIONS

Feature	Detail
Model Number	FM180
Working Width	72 inches
Recommended Tractor HP	18-50 hp
Hitch Type	Category 1, 3-point hitch
Cutting Height Adjustment	0.4" - 4.5"
Number of Blades	3 (60Si2Mn high-grade steel)
Product Dimensions	56 x 72 x 34 inches
Item Weight	430 pounds
Gearbox Oil Type	85W-90 (1.20L / 1.27 quart required)

5. SETUP

5.1 Initial Gearbox Oil Fill

Before operating the mower for the first time, it is critical to fill the gearbox with the specified oil. Failure to do so will result in severe damage to the gearbox and void the warranty.

1. Locate the oil filler hole on the gearbox (refer to Figure 2.1).
2. Remove the filler cap.
3. Carefully add 1.20 liters (1.27 quarts) of 85W-90 gearbox oil.
4. Replace the filler cap securely.

5.2 Attaching to Tractor

The FM180 mower is designed for easy attachment to Category 1 tractors with a 3-point hitch system.

1. Position the tractor in front of the mower, aligning the 3-point hitch arms with the mower's attachment

points.

2. Connect the lower lift arms of the tractor to the mower's lower pins, securing them with appropriate pins.
3. Connect the top link of the tractor to the mower's upper attachment point, securing it with a pin.
4. Connect the PTO driveshaft from the tractor to the mower's gearbox input shaft. Ensure the quick coupler PTO with shear pin is properly engaged and secured.
5. Verify all connections are secure and that the PTO shaft has sufficient clearance throughout the tractor's lift range.

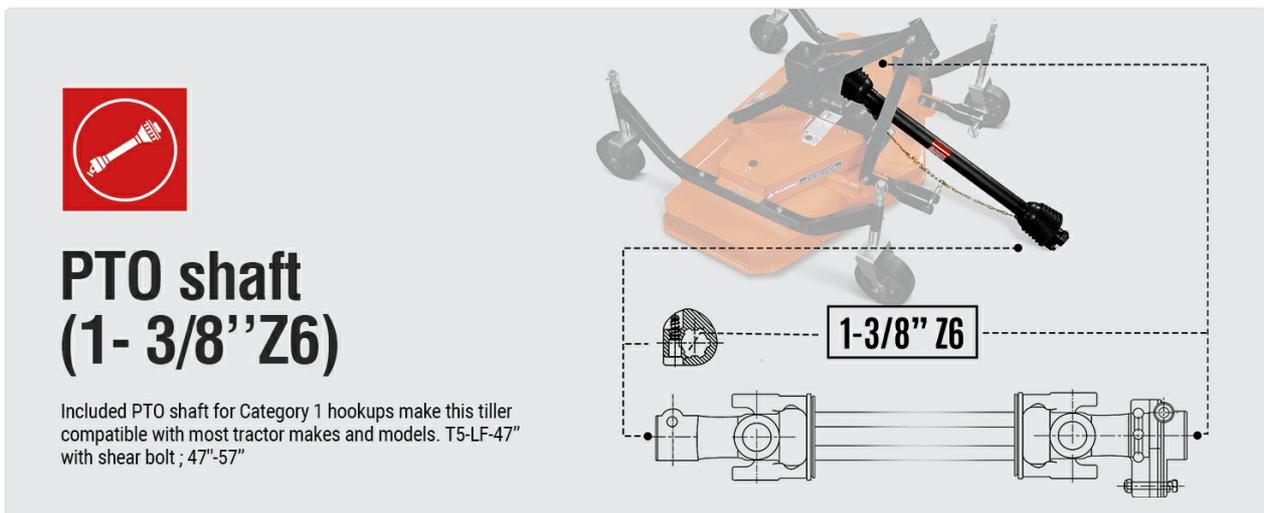


Figure 5.1: Proper connection of the PTO shaft to the mower.



Figure 5.2: The mower features a Category 1, 3-point hitch for tractor attachment.

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Video 5.1: An overview of the MechMaxx FM180 mower, demonstrating its features and compatibility with tractors. This video can assist with visual understanding of the setup process.

6. OPERATING INSTRUCTIONS

6.1 Pre-Operation Checks

- Ensure all safety guards are in place and secure.
- Check gearbox oil level.
- Inspect blades for sharpness and damage. Replace or sharpen as needed.
- Clear the mowing area of any debris, rocks, or obstacles that could be thrown by the blades.

6.2 Adjusting Cutting Height

The cutting height can be adjusted from 0.4 inches to 4.5 inches using the adjustable wheel brackets.

1. Park the tractor and mower on a level surface, disengage the PTO, shut off the engine, and remove the key.
2. Adjust the pins on each wheel bracket to raise or lower the mower deck to the desired cutting height. Ensure all four wheels are set to the same height for an even cut.
3. Secure the pins firmly in place.

6.3 Mowing Procedure

1. Start the tractor and slowly engage the PTO.
2. Lower the mower to the desired cutting height.
3. Begin mowing at a slow, steady pace. Avoid sudden turns or excessive speed, especially on uneven terrain.
4. Overlap each pass slightly to ensure complete coverage.
5. When finished, raise the mower, disengage the PTO, shut off the tractor engine, and remove the key.

7. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your MechMaxx FM180 mower.

- **After Each Use:**

- Clean the mower deck to remove grass clippings and debris.
- Inspect blades for damage, wear, or looseness. Tighten or replace as necessary.
- Check all bolts and nuts for tightness.

- **Every 10 Hours of Operation:**

- Check gearbox oil level and top up if needed.
- Lubricate all grease points on the mower and PTO shaft.

- **Annually or Every 50 Hours of Operation:**

- Drain and replace gearbox oil.
- Inspect PTO shaft for wear or damage.
- Check the condition of the drive belts.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Uneven cut	Incorrect cutting height adjustment; dull or damaged blades; uneven tire pressure.	Ensure all wheel brackets are set to the same height; sharpen or replace blades; check and adjust tire pressure.
Mower not engaging/losing power	PTO shaft not properly connected; shear pin broken; gearbox issue; tractor PTO not engaged.	Verify PTO connection; replace shear pin; check gearbox oil level; ensure tractor PTO is engaged.
Excessive vibration	Bent or unbalanced blades; loose components; debris caught in deck.	Inspect and replace bent blades; tighten all fasteners; clear debris from under the deck.

Problem	Possible Cause	Solution
Poor cutting performance	Dull blades; mowing too fast; grass too tall/dense.	Sharpen or replace blades; reduce ground speed; raise cutting height for initial pass on tall grass.

9. WARRANTY AND SUPPORT

MechMaxx offers a 30-day easy return policy for this product. For any questions, technical assistance, or warranty claims, please contact MechMaxx customer support. Refer to your purchase documentation for specific contact details or visit the official MechMaxx website.