

MechMaxx GS650

MechMaxx GS650 Wood Chipper Instruction Manual

Model: GS650 | 4" Inch 212CC 7HP Gas Powered Wood Chipper Leaf Branch Shredder Mulcher

1. SAFETY INSTRUCTIONS

Read and understand all safety warnings and instructions before operating the wood chipper. Failure to follow the warnings and instructions may result in serious injury or death.

General Safety

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, gloves, and sturdy footwear.
- Keep all bystanders, children, and pets at least 40 feet (12 meters) away from the operating area.
- Never allow anyone to operate the machine without proper training.
- Ensure the emergency stop button is easily accessible and functional before each use.
- Do not operate the chipper in wet conditions or on slippery surfaces.
- Inspect the machine for damaged parts before each use. Replace or repair any damaged components.

Fuel Safety

- Handle fuel with care; it is highly flammable.
- Refuel in a well-ventilated area with the engine off and cool.
- Do not smoke or allow flames or sparks near the fuel tank.

DANGER: Keep hands and feet away from all moving parts. Serious injury or amputation can occur.



Image: Danger warning sticker indicating to keep clear of discharge and moving parts.

2. PRODUCT OVERVIEW

The MechMaxx GS650 is a robust 4-inch gas-powered wood chipper designed for efficient processing of branches, leaves, and other yard waste. It features a powerful 212cc 7HP engine and a towbar for easy transport.

Key Features:

- **Powerful Engine:** Recoil starting Ducar 7HP 212cc 4-stroke single cylinder air-cooled OHV gas-powered Engine, 3600 RPM MAX speed.
- **High Efficiency:** Easily handles up to 4" diameter wood or branch with 2x blades + 1x anvil. Features a 20:1 reduction ratio.
- **Durable Blades:** Made of CR alloy steel material for better corrosion resistance, high strength, and good wear resistance.
- **Kevlar Belts:** High strength and good toughness for reduced maintenance.
- **Convenient Transport:** Equipped with a trailer bar and 2x 14-inch wheels.
- **Adjustable Discharge:** 360° rotary discharge chute and adjustable deflector for precise debris discharge.
- **Emergency Stop:** Emergency stop button located near the feeding port for quick shutdown.

Product Components:



Image: An overhead view of the MechMaxx GS650 wood chipper with key components labeled, including the manual tube, emergency stop button, hinge lock catch, 4.10/3.50-4 pneumatic wheel, supporting leg, tow bar, 360° discharge chute, and adjustable deflector.

Manual Tube: For storing documents or small tools.

Emergency Stop Button: For immediate shutdown.

Hinge Lock Catch: Secures components.

4.10/3.50-4 Pneumatic Wheel: Provides mobility.

Supporting Leg: Provides stability when stationary.

Tow Bar: For connecting to a towing vehicle.

360° Discharge Chute: Directs chipped material.

Adjustable Deflector: Controls the trajectory of discharged material.

3. SPECIFICATIONS

Feature	Detail
Brand	MechMaxx
Model Number	GS650
Engine	Ducar DH212, 212cc, 7HP, 4-stroke, single cylinder, air-cooled OHV
Max RPM	3600 RPM
Starting Method	Recoil
Max Chipping Diameter	4 inches
Blades	2x CR12MoV double-edge blades + 1x anvil

Feature	Detail
Reduction Ratio	20:1
Belts	2 Kevlar belts
Wheels	2x 14-inch 4.10/3.50-4 pneumatic wheels
Wheelbase	31.5 inches
Product Dimensions	76 x 31 x 43 inches
Item Weight	267 pounds



Image: Technical drawing showing the dimensions of the MechMaxx GS650 wood chipper, including length (75.9 inches), height (43.0 inches), and width (31.4 inches), along with its weight (234 lbs).

4. SETUP AND ASSEMBLY

Follow these steps for proper assembly of your MechMaxx GS650 wood chipper. Refer to the assembly video for visual guidance.

Assembly Video:

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Video: Official MechMaxx GS650 Wood Chipper Assembly Video. This video provides a step-by-step guide on how to assemble the wood chipper, including attaching the wheels, tow bar, and chutes.

Step-by-Step Assembly:

1. Unpacking and Inspection:

Carefully remove all parts from the shipping crate. Lay them out and inspect for any damage or missing components. Refer to the packing list to ensure all items are present.



Image: All components of the MechMaxx GS650 wood chipper laid out on the floor after unpacking, ready for assembly.

2. Attach the Wheel Axle to the Cutter Base:

Securely attach the wheel axle to the designated points on the cutter base using the provided hardware. Ensure all bolts are tightened.

3. Attach the Wheels to the Wheel Axles:

Slide the wheels onto the axles and secure them with the appropriate washers and nuts. Ensure they spin freely.

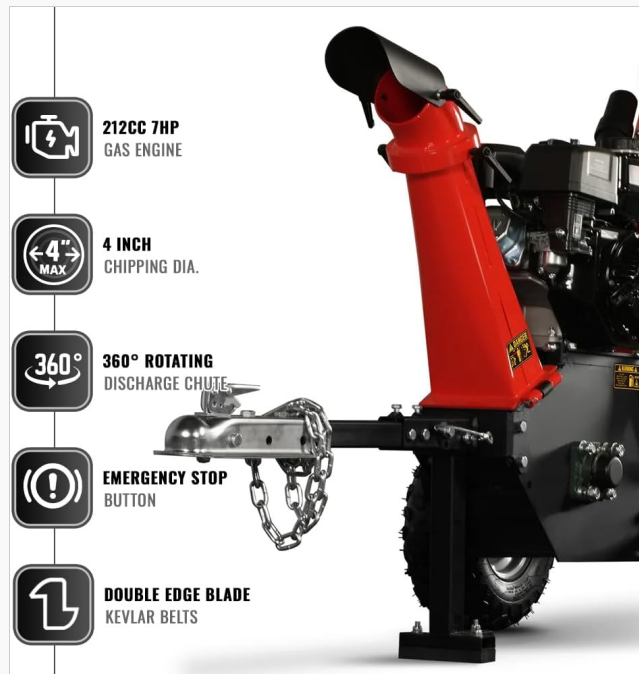


Image: Front view of the MechMaxx GS650 wood chipper, showcasing the robust wheels and overall compact design.

4. Attach the Support Rod to the Tow Bar Mount:

Assemble the support rod to the tow bar mount, ensuring a secure connection for stability.

5. Attach the Tower Bar Mount to the Base Frame:

Connect the assembled tow bar mount to the main base frame of the chipper. Use all specified fasteners.

6. Attach the Tow Bar to the Tower Bar Mounts:

Slide the tow bar into the mounts and secure it with the pins and clips. This allows for easy attachment to a towing vehicle.

7. Attach the Lower Expulsion Chute to the Cutter Base:

Fasten the lower expulsion chute to the cutter base. This directs chipped material away from the machine.

8. Attach the Feeding Chute to the Cutter Base:

Secure the feeding chute to the top of the cutter base. Ensure it is firmly attached and the safety interlock is engaged if applicable.



Image: A side view of the MechMaxx GS650 wood chipper, showing the large feeding chute where branches are inserted for chipping.

9. Connect Electrical Components:

Connect any necessary electrical wiring, such as for the emergency stop button, following the provided diagrams.

5. OPERATING INSTRUCTIONS

Before starting, ensure the chipper is on a stable, level surface and clear of any obstructions. Always wear appropriate safety gear.

Pre-Operation Checklist:

- Check engine oil level.
- Check fuel level.
- Inspect blades for sharpness and damage.
- Ensure all guards and safety devices are in place and functioning.
- Verify that the emergency stop button is operational.
- Clear the area around the chipper of debris and bystanders.

Starting the Engine:

1. Ensure the fuel valve is open.
2. Set the choke to the "CHOKE" position (if engine is cold).
3. Set the throttle to the "FAST" position.
4. Pull the recoil starter handle firmly until the engine starts.

5. Once the engine starts, gradually move the choke to the "RUN" position.
6. Allow the engine to warm up for a few minutes before beginning operation.

Chipping Operation:

1. Feed branches and brush into the feeding chute. Do not force material.
2. Feed material slowly and evenly to prevent clogging.
3. Do not chip material larger than 4 inches in diameter.
4. Avoid feeding material with rocks, metal, or other foreign objects.
5. Adjust the 360° rotary discharge chute and deflector to direct chipped material as desired.



Image: The MechMaxx GS650 wood chipper operating in a grassy area, demonstrating its use for processing yard waste.

Stopping the Engine:

1. Move the throttle to the "STOP" or "IDLE" position.
2. Turn the engine switch to the "OFF" position.
3. If equipped, close the fuel valve.
4. In an emergency, press the red emergency stop button.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your MechMaxx GS650 wood chipper. Always disconnect the spark plug wire before performing any maintenance.

Routine Checks:

- **After Each Use:**
 - Clean the chipper thoroughly, removing all debris from the feeding chute, discharge chute, and cutter housing. The side opening hinge design allows for easy cleaning.
 - Inspect blades for wear or damage.
 - Check all fasteners for tightness.
- **Every 5 Hours of Operation:**
 - Check engine oil level and add if necessary.
 - Inspect air filter and clean or replace if dirty.
- **Every 25 Hours of Operation:**
 - Change engine oil.
 - Inspect spark plug and clean or replace if necessary.
 - Check drive belts for tension and wear. Adjust or replace Kevlar belts as needed.

Blade Maintenance:

The GS650 uses double-edge CR12MoV steel blades. When one edge becomes dull, the blade can be flipped to use the second edge. When both edges are dull, the blades should be sharpened or replaced.

- To access the blades, ensure the engine is off and the spark plug wire is disconnected.
- Open the side access panel on the cutter base.
- Carefully remove the blade retaining bolts and remove the blades.
- Install new or sharpened blades, ensuring they are correctly oriented and all bolts are securely tightened.



Image: A detailed view of the internal components of the MechMaxx GS650, highlighting the durable CR12MoV blades and the robust Kevlar belts, which contribute to the machine's efficiency and reduced maintenance needs.

7. TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Engine does not start	No fuel; Choke not set; Spark plug issue; Low oil; Emergency stop engaged	Add fuel; Adjust choke; Check/replace spark plug; Add oil; Release emergency stop button
Chipper clogs frequently	Feeding too fast; Material too large; Dull blades; Wet material	Feed slower; Reduce material size; Sharpen/replace blades; Allow material to dry
Reduced chipping performance	Dull blades; Loose drive belts	Sharpen/replace blades; Adjust belt tension
Excessive vibration	Unbalanced blades; Loose fasteners; Damaged components	Inspect and balance/replace blades; Tighten all fasteners; Check for damaged parts

8. STORAGE

Proper storage is essential to protect your wood chipper from damage and ensure its readiness for future use.

- Clean the machine thoroughly before storage.
- Drain the fuel tank or add a fuel stabilizer if storing for more than 30 days.

- Change the engine oil.
- Remove the spark plug and pour a small amount of engine oil into the cylinder. Pull the recoil starter a few times to distribute the oil, then reinstall the spark plug.
- Store the chipper in a clean, dry, and well-ventilated area, away from direct sunlight and extreme temperatures.
- Cover the machine to protect it from dust and moisture.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact MechMaxx customer service.

Visit the official MechMaxx store for more information:[MechMaxx Store](#)

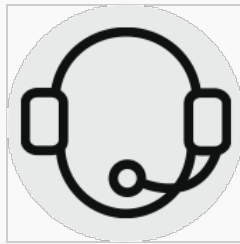


Image: Icon representing customer support services.