

## MMS MMS-Attachments0812

# MMS Mini Excavator Attachments Kit User Manual

Brand: MMS | Model: MMS-Attachments0812

### 1. INTRODUCTION

The MMS Mini Excavator Attachments Kit is a comprehensive set of tools designed to enhance the versatility and functionality of most small to medium excavators and loaders. This 8-in-1 kit provides a range of accessories for various construction and agricultural operations, including trenching, digging, grabbing, drilling, and screening. Each attachment is engineered for ease of installation and high compatibility, making it an efficient solution for diverse work scenarios.



Figure 1.1: Overview of the MMS Mini Excavator Attachments Kit.

## 2. SAFETY INFORMATION

Always prioritize safety when operating heavy machinery and handling attachments. Read and understand all safety warnings and instructions before use.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including hard hat, safety glasses, steel-toed boots, and gloves.
- **Machine Compatibility:** Ensure that the attachments are compatible with your specific excavator or loader model. Refer to your machine's manual for attachment weight limits and hydraulic requirements.
- **Pre-Operation Inspection:** Before each use, inspect all attachments for damage, wear, loose bolts, or hydraulic leaks. Do not operate with damaged equipment.
- **Secure Attachment:** Always ensure attachments are securely connected to the quick coupler or pins are fully engaged before operation. Verify all locking mechanisms.

- **Clear Work Area:** Keep the work area clear of personnel, obstacles, and debris. Be aware of your surroundings and potential hazards.
- **Hydraulic System Safety:** Be cautious of high-pressure hydraulic fluid. Never attempt to repair hydraulic lines or components without proper training and depressurizing the system.
- **Proper Operation:** Operate the excavator and attachments smoothly. Avoid sudden movements, overloading, or using attachments for purposes they were not designed for.
- **Storage:** Store attachments in a stable, secure location to prevent accidental movement or tipping.

### 3. PACKING LIST

The MMS Mini Excavator Attachments Kit includes the following components:

- ✓ 1 x 7.87" Narrow Bucket
- ✓ 1 x Quick Coupler
- ✓ 1 x 8" Auger
- ✓ 2 x Auger Hoses
- ✓ 1 x Grapple
- ✓ 1 x Rake
- ✓ 1 x Ripper
- ✓ 1 x 23.62" Flat Bucket
- ✓ 1 x 32" Screening Bucket
- ✓ All necessary pins for attachment

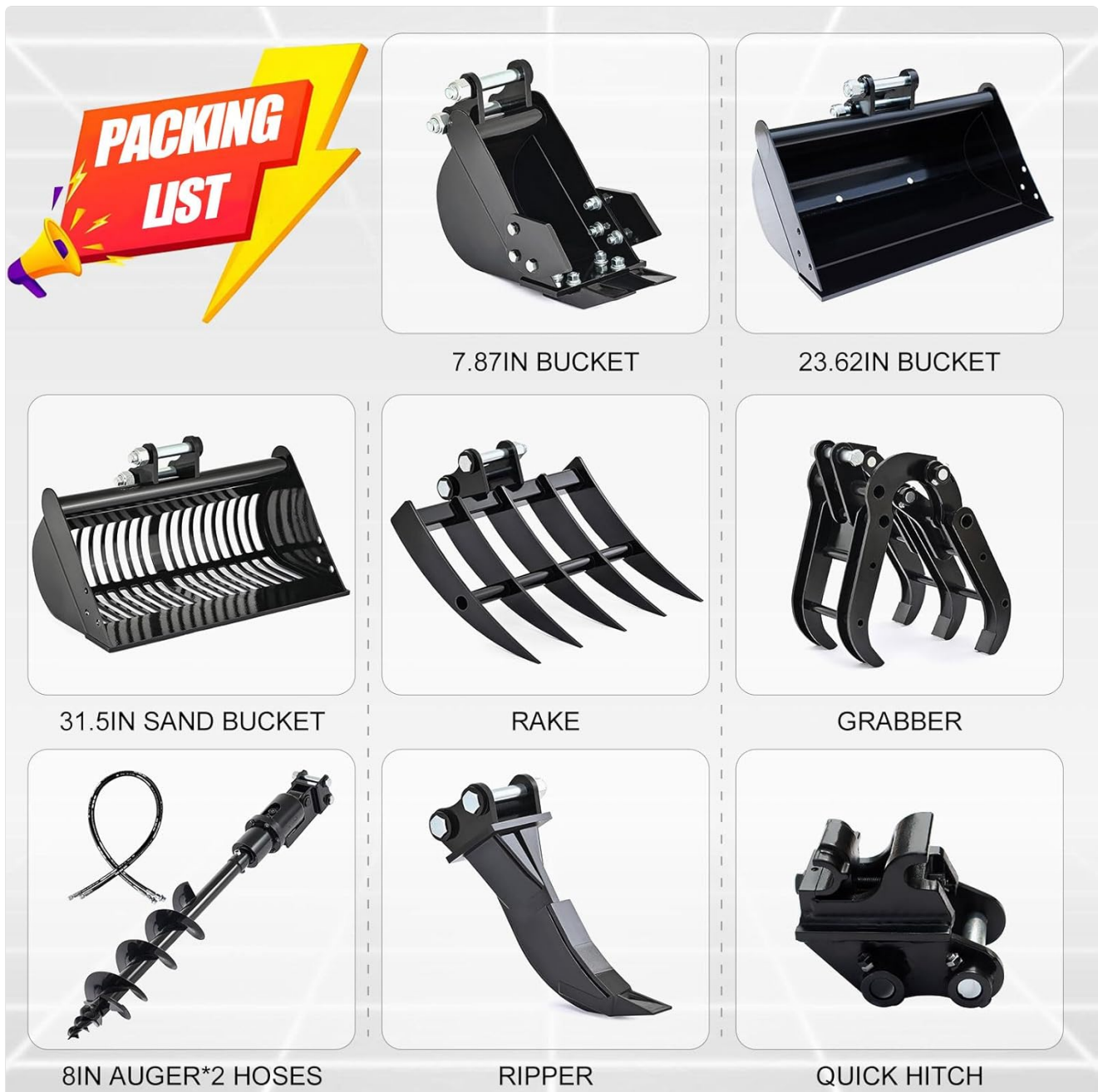


Figure 3.1: Visual representation of the included attachments.

## 4. SETUP AND INSTALLATION

The MMS attachments are designed for easy installation, primarily utilizing the included quick coupler for efficient switching between tools.

### 4.1. Quick Coupler Installation

The quick coupler simplifies the process of attaching and detaching various implements. Ensure your excavator's arm is positioned correctly to align with the coupler's pins.

1. Position the excavator arm to align with the quick coupler's mounting points.
2. Insert the main pins through the excavator arm and the quick coupler. Secure with retaining clips or bolts as per your excavator's specifications.
3. Connect any necessary hydraulic lines for the quick coupler if it is a hydraulic model. Ensure connections are

tight and free of leaks.

4. Test the quick coupler's locking mechanism to ensure it engages and disengages smoothly and securely.

## 4.2. Attaching Implements

Once the quick coupler is installed, attaching other implements is straightforward:

1. Position the attachment on a flat, stable surface.
2. Maneuver the excavator arm with the quick coupler to align with the attachment's pin holes.
3. Engage the quick coupler's locking mechanism to secure the attachment. For manual quick couplers, insert and secure the pins. For hydraulic quick couplers, activate the hydraulic lock.
4. For attachments requiring hydraulic power (e.g., Auger, Grapple), connect the hydraulic hoses from the attachment to the auxiliary hydraulic ports on your excavator. Ensure correct connection (pressure and return lines).
5. Verify that the attachment is firmly secured before beginning any operation.



Figure 4.1: Quick Coupler and Ripper dimensions for proper fitment.

## 5. OPERATING INSTRUCTIONS

This section provides general guidance for operating each attachment. Always refer to your excavator's operating manual for specific controls and safety procedures.

### 5.1. Buckets (Narrow, Flat, Screening)

Buckets are used for digging, loading, and material handling. The narrow bucket is ideal for trenching, the flat bucket for grading and general excavation, and the screening bucket for separating materials.

- **Digging:** Position the bucket at the desired angle and use the excavator's controls to curl the bucket and lift the arm, scooping material.
- **Loading:** Curl the bucket to hold material, then swing the arm to dump into a truck or pile.
- **Grading (Flat Bucket):** Use the flat edge of the bucket to smooth and level surfaces.
- **Screening (Screening Bucket):** Scoop material and gently shake the bucket to allow finer particles to fall through the grates, separating larger debris.



Figure 5.1: Bucket dimensions for various applications.

## 5.2. Ripper

The ripper is designed for breaking up hard ground, asphalt, or other tough materials before excavation.

- Position the ripper tooth firmly against the material to be broken.
- Apply downward pressure and pull the ripper through the material using the excavator's arm and bucket cylinder controls.
- Repeat passes as necessary to loosen the material.

## 5.3. Rake

The rake attachment is used for clearing brush, debris, roots, and leveling uneven terrain.

- Lower the rake to the ground surface.
- Use the excavator's arm movements to pull or push debris, or to spread material evenly.
- The tines allow soil to pass through while retaining larger objects.



Figure 5.2: Rake attachment in use, demonstrating its dimensions.

## 5.4. Grapple

The grapple is used for picking up, moving, and sorting irregular objects such as logs, rocks, and demolition debris.

- Position the grapple jaws around the object.
- Use the auxiliary hydraulic controls to close the jaws, securing the object.
- Lift and move the object to the desired location, then open the jaws to release.

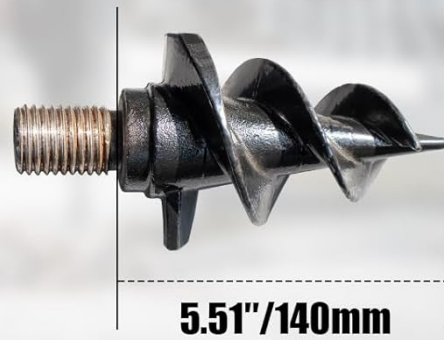
## 5.5. Auger

The auger is used for drilling holes in the ground for fence posts, tree planting, or foundation piers. Ensure hydraulic hoses are correctly connected.

- Position the auger bit vertically over the desired drilling location.
- Slowly lower the auger while activating the hydraulic motor to begin drilling.
- Apply steady downward pressure. Periodically lift the auger slightly to clear soil from the hole and prevent binding.
- Once the desired depth is reached, reverse the auger rotation to extract it from the hole.



# Auger Drill Size



Note: because to manual measurement, all values will have an error of 1-3 mm.

Figure 5.3: Auger drill size and components.



Figure 5.4: MMS attachments in various operational scenarios.

## 6. MAINTENANCE

Regular maintenance extends the lifespan of your MMS attachments and ensures safe operation.

- **Cleaning:** After each use, clean dirt, mud, and debris from all attachments, especially around moving parts, pins, and hydraulic connections.
- **Lubrication:** Regularly grease all pivot points, pins, and bushings. Refer to your excavator's manual for recommended grease types and lubrication intervals.
- **Inspection:**
  - Check for cracks, bends, or deformation in the steel structure.
  - Inspect cutting edges and teeth on buckets and rippers for excessive wear or damage. Replace as needed.

- Examine hydraulic hoses for cuts, abrasions, bulges, or leaks. Replace damaged hoses immediately.
- Ensure all bolts and nuts are tight. Re-torque as necessary.
- Check pins and bushings for wear. Worn pins can lead to excessive play and reduced efficiency.
- **Storage:** Store attachments in a dry, covered area to prevent rust and corrosion. Elevate them off the ground if possible.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your MMS attachments.

Problem	Possible Cause	Solution
Attachment does not fit quick coupler/pins.	Incorrect alignment; debris in pin holes; incompatible quick coupler.	Ensure precise alignment; clean pin holes; verify quick coupler compatibility with attachment.
Hydraulic attachment (Auger/Grapple) not operating.	Hoses incorrectly connected; insufficient hydraulic flow/pressure from excavator; clogged filter; damaged motor/cylinder.	Check hose connections (pressure/return); verify excavator hydraulic settings; inspect hydraulic filter; consult a qualified technician for internal component issues.
Excessive wear on cutting edges/teeth.	Abrasive material; improper operating technique; normal wear.	Adjust operating technique; replace worn parts as needed.
Attachment feels loose or has excessive play.	Worn pins/bushings; loose quick coupler mechanism; loose mounting bolts.	Inspect and replace worn pins/bushings; check quick coupler locking mechanism; tighten all mounting bolts.

## 8. SPECIFICATIONS

Feature	Detail
Product Model Number	MMS-Attachments0812
Overall Product Dimensions	28 x 28 x 15 inches (approximate, for kit packaging)
Item Weight	500 Pounds (total kit approximate)
Material	Durable Manganese Steel (for attachments)
Included Buckets	7.87" Narrow Bucket, 23.62" Flat Bucket, 32" Screening Bucket

Feature	Detail
Included Auger Size	8" Diameter
Compatibility	Designed for most small to medium excavators and loaders

## 9. WARRANTY AND SUPPORT

MMS is committed to providing quality products and customer satisfaction.

### 9.1. Returns Policy


This product is eligible for a 30-day easy returns policy. Please refer to the retailer's specific return guidelines for detailed instructions and conditions.


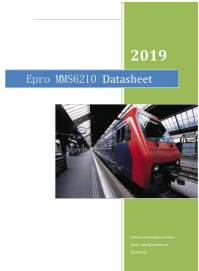
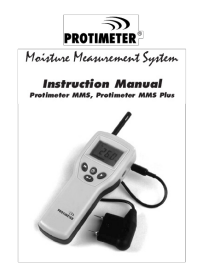

### 9.2. Customer Support

For any inquiries, technical assistance, or support regarding your MMS Mini Excavator Attachments Kit, please contact MMS customer service. Professional sales and maintenance teams are available to provide consultation and after-sales support.

You can visit the official MMS store for more information and contact options:[MMS Official Store](#)

## Related Documents - MMS-Attachments0812

<div><p><b>Safety Precautions</b></p><p><b>General Rules</b></p><p>It is the customer's responsibility to comply with the safety regulations and those of the relevant authorities and to operate, transport and maintain the machine in compliance with the regulations.</p><p>In fact, all accidents are caused by failure to comply with basic safety regulations and procedures.</p><p>Please read and understand all safety information that describes how to prevent accidents. Do not operate a machine until you are sure that you have been fully trained, competent, expert, and educated in its proper use.</p><p><b>Follow safety rules at all times</b></p><p>The machine must be operated, transported and maintained by trained and qualified workers.</p><p>Always, regulations, procedures and safety measures must be understood and followed when performing machine operations, transport and maintenance.</p><p>Do not operate a machine until you are sure that you have been fully trained, competent, expert, and educated in its proper use.</p><p><b>Operating temperature range</b></p><p>The machine must be operated, transported and maintained in the temperature range specified in the operating instructions.</p><p>Do not operate the machine when the ambient temperature exceeds 40°C (104°F).</p></div>	<p><a href="#">MS08 Mini Compact Excavator: Operation and Safety Manual</a></p> <p>Comprehensive guide for the MS08 Mini Compact Excavator from mms industry, detailing safety precautions, operational controls, maintenance procedures, and technical specifications for safe and efficient use.</p>
<div><p><b>MS, MMS</b></p><p>Installation and operating instructions</p><p>GRUNDFOS</p></div>	<p><a href="#">Grundfos MS, MMS Submersible Motors: Installation and Operating Instructions</a></p> <p>Comprehensive installation and operating instructions for Grundfos MS and MMS submersible motors, covering delivery, storage, general description, preparation, electrical connection, installation, maintenance, fault finding, and cable sizing.</p>

 <p>The image shows the cover of the Autonomic MMS Series Multi-Source Music Streamer User Manual. It features three black rectangular devices stacked vertically. The top device is labeled 'AUTONOMIC', the middle one 'MMS 1E/3E/5E', and the bottom one 'eSERIES'. A stylized white 'e' logo is also present.</p>	<p><a href="#">Autonomic MMS Series Multi-Source Music Streamer User Manual</a></p> <p>Comprehensive user manual for the Autonomic MMS-1e, MMS-3e, and MMS-5e Multi-Source Music Streamers, detailing setup, configuration, features, streaming service integration, and specifications.</p>
 <p>The image shows the cover of the Epro MMS6210 Dual Channel Shaft Displacement Monitor Datasheet. It features a green and white design with a photograph of a red high-speed train. The text '2019' and 'Epro MMS6210 Datasheet' is visible.</p>	<p><a href="#">Epro MMS6210 Dual Channel Shaft Displacement Monitor Datasheet</a></p> <p>Datasheet for the Epro MMS6210 Dual Channel Shaft Displacement Monitor, detailing its technical specifications, applications, and system integration for machine monitoring.</p>
 <p>The image shows the cover of the Protimeter MMS Moisture Measurement System Instruction Manual. It features a white handheld device with a black probe and a cable. The text 'PROTIMETER', 'Moisture Measurement System', and 'Instruction Manual' is visible.</p>	<p><a href="#">Protimeter MMS Moisture Measurement System Instruction Manual</a></p> <p>Comprehensive instruction manual for the Protimeter MMS and MMS Plus moisture measurement systems, detailing operation modes, diagnostics, and maintenance for building moisture assessment.</p>
 <p>The image shows the cover of the HT-002LIM GPRS/MMS Digital Infrared Trail Camera User Manual. It features a black rectangular device with a lens and a small display. The text 'HT-002LIM GPRS/MMS DIGITAL INFRARED TRAIL CAMERA' and 'User Manual' is visible.</p>	<p><a href="#">HT-002LIM GPRS/MMS Digital Infrared Trail Camera User Manual</a></p> <p>User manual for the HT-002LIM GPRS/MMS Digital Infrared Trail Camera, detailing its features, operations, settings, and technical specifications.</p>