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MMS MMS-Grabber

MMS Mini Excavators Grapple Attachments Instruction Manual

Model: MMS-Grabber

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your MMS Mini Excavators Grapple Attachment. Please read this manual thoroughly before using the attachment to ensure proper function and to prevent injury or damage.

The MMS Mini Excavators Grapple Attachment is designed for 0.8-1.8 ton mini excavators, offering a versatile solution for handling various materials such as logs, rocks, debris, and waste. Its robust manganese steel construction ensures durability in demanding environments.

2. SAFETY INFORMATION

Always prioritize safety when operating heavy machinery and attachments. Failure to follow safety instructions can result in serious injury or death.

- Ensure all personnel are clear of the operating area before starting the excavator.
- Wear appropriate personal protective equipment (PPE), including hard hat, safety glasses, gloves, and steel-toed boots.
- Inspect the grapple attachment and excavator for any damage or loose components before each use.
- Do not exceed the weight capacity of your mini excavator or the grapple attachment.
- Operate the attachment on stable and level ground whenever possible.
- Never operate the attachment under the influence of alcohol or drugs.
- Refer to your mini excavator's instruction manual for additional safety guidelines.
- Before purchase and installation, always check the specification size to ensure compatibility with your mini excavator.

3. PRODUCT SPECIFICATIONS

Feature	Specification
Model Number	MMS-Grabber
Material	Manganese Steel
Compatibility	0.8-1.8 Tons Mini Excavators
Bottom Span	93 mm (3.66 inches)
Top Span	40 mm (1.57 inches)
Arm Pin Housing Distance	25 mm (0.98 inches)

Maximum Opening Angle	120 degrees (over 2 feet wide)
Package Dimensions	22 x 19 x 12 inches
Weight	56 Pounds (approximately 25 kg)

Note: An acceptable error margin of up to 3mm may occur in measurements.



Image 3.1: Grapple Attachment Dimensions. This image illustrates the overall dimensions of the grapple attachment, including its length (475mm/18.7in), width (390mm/15.4in), and maximum opening angle of 120 degrees. The total weight is approximately 25kg (55lb).

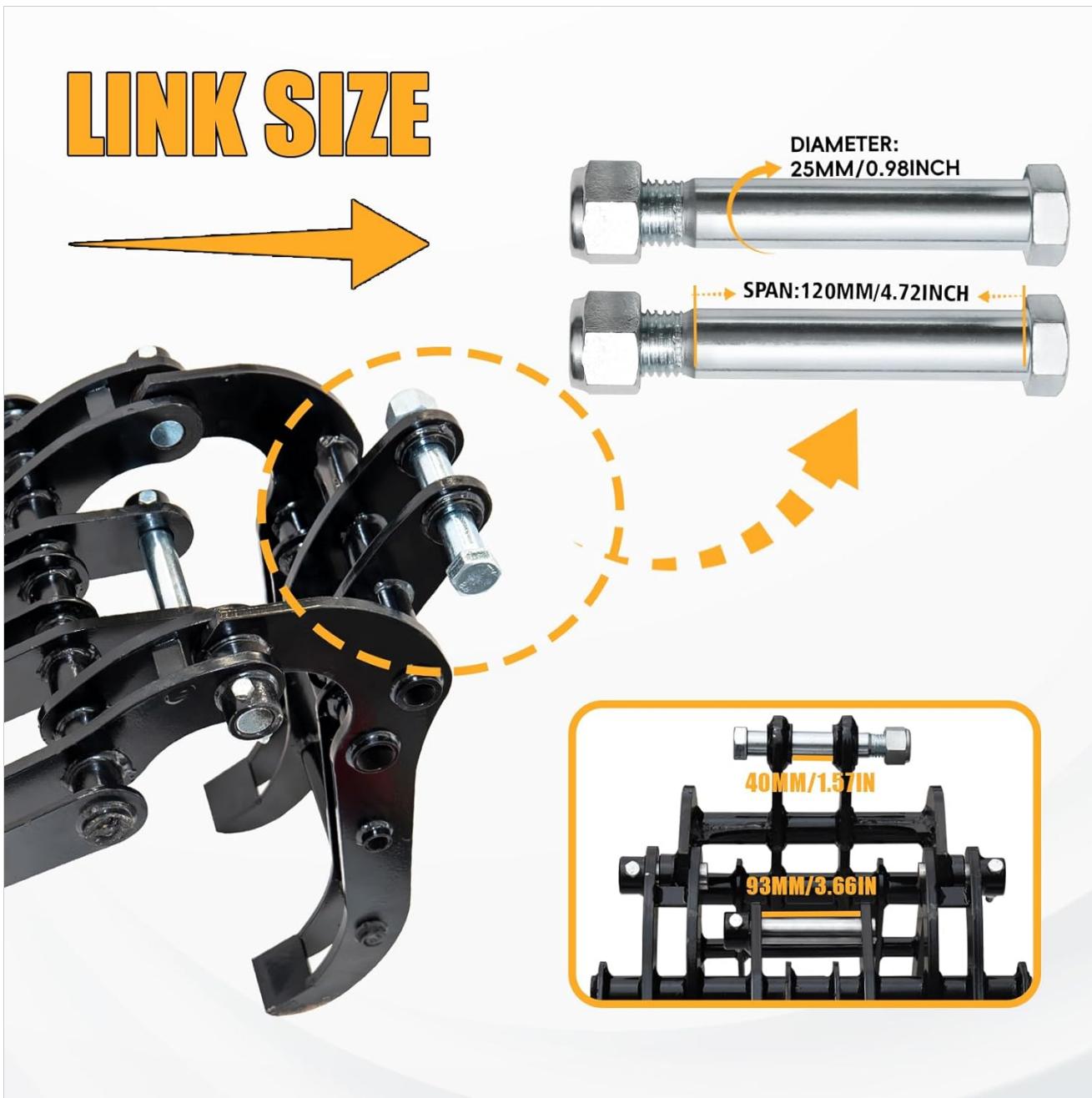


Image 3.2: Link Size Details. This image provides detailed measurements for the attachment pins and arm pin housing. The pin diameter is 25mm (0.98 inches) with a span of 120mm (4.72 inches). The arm pin housing distance is 40mm (1.57 inches) at the top and 93mm (3.66 inches) at the bottom.

4. WHAT'S IN THE Box

Upon receiving your MMS Mini Excavators Grapple Attachment, please verify that all components are present and undamaged.

- MMS Mini Excavators Grapple Attachment
- 2 x Mini Excavator Pins
- 2 x Nuts

5. SETUP AND INSTALLATION

The MMS Mini Excavators Grapple Attachment is designed for quick installation to maximize efficiency. Follow these steps for proper attachment:

1. **Preparation:** Position the mini excavator on a flat, stable surface. Ensure the engine is off and the hydraulic system is depressurized.
2. **Align Attachment:** Carefully align the grapple attachment with the excavator arm's mounting points.

3. **Insert Pins:** Insert the provided pins through the excavator arm and the grapple attachment's pin housing. Ensure the pins pass through all corresponding holes.
4. **Secure Nuts:** Secure the pins with the provided nuts, tightening them firmly to prevent movement during operation.
5. **Final Check:** Before operation, visually inspect all connections to ensure the grapple is securely attached and there are no loose components.

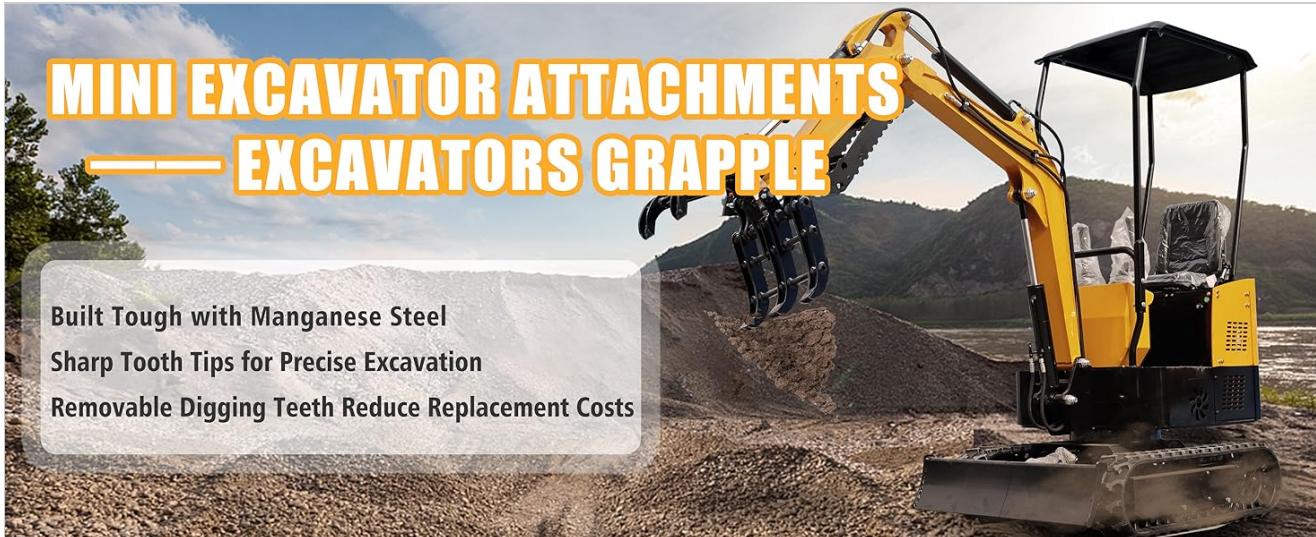


Image 5.1: Installation Guide. This image sequence demonstrates the four steps for installing the grapple attachment onto a mini excavator arm. It shows the alignment, pin insertion, and securing process.

6. OPERATING INSTRUCTIONS

The MMS Mini Excavators Grapple Attachment is designed for efficient material handling. Familiarize yourself with your excavator's controls for operating hydraulic attachments.

- **Pre-Operation Check:** Before each use, perform a thorough inspection of the grapple and its connection to the excavator. Check for any signs of wear, damage, or loose fasteners.
- **Engaging the Grapple:** Use your excavator's hydraulic controls to open and close the grapple jaws. The wide opening design (120 degrees) allows for efficient gripping of various objects.
- **Material Handling:**
 - **Logs and Irregular Objects:** Position the open grapple around the object, then slowly close the jaws to secure it. Lift and move with caution.
 - **Rocks and Debris:** Use the grapple to scoop or clamp rocks and debris. Ensure the load is stable before lifting.
 - **Clearing and Stacking:** The grapple is effective for clearing brush, weed piles, and for stacking materials like wood.
- **Load Stability:** Always ensure the load is securely gripped before lifting or moving. Avoid sudden movements that could cause the load to shift or drop.
- **Visibility:** Maintain clear visibility of the work area and the attachment at all times.
- **Post-Operation:** After use, lower the grapple to the ground, turn off the excavator, and perform a brief inspection for any new damage or wear.



Image 6.1: Grapple in Operation. This image shows the MMS Mini Excavator Grapple Attachment mounted on a mini excavator, ready for operation in an outdoor setting.

MORE DETAILS



Image 6.2: Grapple Details. This image provides a closer look at the grapple attachment, highlighting its robust construction and how it connects to the excavator arm.

WIDE USE



Image 6.3: Versatile Applications. This image displays various applications for the grapple attachment, including stone laying, material handling, housing demolition, and organizing wood piles.

7. MAINTENANCE

Regular maintenance is crucial for extending the lifespan and ensuring the safe operation of your grapple attachment.

- **Cleaning:** After each use, clean the grapple to remove dirt, debris, and any corrosive materials.
- **Lubrication:** Periodically lubricate all pivot points and moving parts to ensure smooth operation and reduce wear.
- **Inspection:** Regularly inspect the grapple for:
 - Cracks or deformation in the manganese steel structure.
 - Wear on the grapple teeth or jaws.
 - Loose or damaged pins and nuts.
 - Corrosion or rust, especially in areas where paint may be chipped.
- **Fastener Tightness:** Check and tighten all bolts and nuts as necessary.
- **Storage:** When not in use, store the grapple attachment in a dry, protected area to prevent rust and damage.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your grapple attachment.

Problem	Possible Cause	Solution
Grapple not gripping securely	Incorrect positioning; Worn grapple teeth; Insufficient hydraulic pressure from excavator.	Reposition the grapple; Inspect and replace worn teeth if necessary; Consult excavator manual for hydraulic system checks.
Excessive play or wobbling	Loose pins or nuts; Worn pin holes.	Tighten all nuts and pins; Inspect pin holes for excessive wear and replace components if needed.
Difficulty in opening/closing jaws	Lack of lubrication; Obstruction; Hydraulic issue with excavator.	Lubricate pivot points; Clear any obstructions; Consult excavator manual for hydraulic system troubleshooting.
Rust or corrosion	Improper storage; Lack of protective coating.	Clean and apply rust-inhibiting paint or coating; Store in a dry environment.

If you encounter issues not listed here or require further assistance, please contact MMS customer support.

9. WARRANTY AND SUPPORT

MMS is committed to providing quality products and excellent customer service. While specific warranty details are not provided in this document, please refer to your purchase documentation or contact MMS directly for warranty information.

For technical support, parts, or any inquiries regarding your MMS Mini Excavators Grapple Attachment, please visit the official MMS website or contact their customer service department. MMS operates 10 overseas warehouse distribution centers and offers professional sales and maintenance teams.

MMS Customer Support:

- Visit the [MMS Store on Amazon](#) for product information and support resources.
- Refer to your purchase invoice for direct contact information.

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Related Documents - MMS-Grabber

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	<p>Autonomic MMS Series Multi-Source Music Streamer User Manual</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>

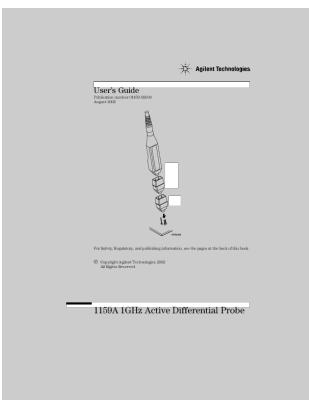
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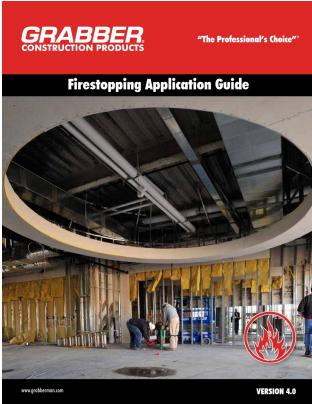
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