

MMS MMS-QuickHitch

MMS Quick Change Hitch for Mini Excavators Instruction Manual

Model: MMS-QuickHitch | Brand: MMS

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your MMS Quick Change Hitch for Mini Excavators. This mechanical quick coupler is designed to facilitate rapid attachment changes on mini excavators ranging from 0.8 to 1.8 tons, significantly enhancing productivity and versatility. Please read this manual thoroughly before using the product to ensure proper handling and to prevent injury or damage.

2. SAFETY INFORMATION

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

- **Read All Instructions:** Ensure all operators have read and understood this manual before use.
- **Proper Fitment:** Verify that the quick hitch dimensions are compatible with your excavator and attachments. A tolerance of 1-3 mm is acceptable for quick connects.
- **Secure Connections:** Always ensure the quick hitch is securely attached to the excavator and the attachment is properly locked before operation.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including hard hat, safety glasses, gloves, and steel-toed boots.
- **Clear Work Area:** Keep the work area clear of bystanders and obstructions.
- **Regular Inspection:** Inspect the quick hitch for wear, damage, or loose components before each use.
- **Maintenance:** Perform all maintenance as described in this manual.

3. PRODUCT OVERVIEW

The MMS Quick Change Hitch is a robust mechanical coupler designed for mini excavators. It allows for quick and easy swapping of various attachments, such as buckets, rakes, and augers, without the need for heavy lifting or manual pin removal.

Key Features:

- **High Versatility:** Compatible with 0.8-1.8 ton mini excavators, with a span of 3.66 inches (93 mm) and a pin diameter of 0.98 inches

(25 mm).

- **Simple Operation:** Features a center screw mechanism for quick and secure attachment changes.
- **Durable Construction:** Manufactured from high-grade manganese steel, offering stable, reliable, wear-resistant, and corrosion-resistant performance in various working environments.
- **Increased Productivity:** Reduces downtime for attachment changes, maximizing excavator utility.



Figure 3.1: MMS Quick Change Hitch demonstrating compatibility with multiple attachments like buckets, rakes, and augers.

***Quick* change of multiple attachments for Mini excavators**



Figure 3.2: Detailed view of the MMS Quick Change Hitch components, highlighting its robust construction.

4. SPECIFICATIONS

Attribute	Value
Brand	MMS
Model Number	MMS-QuickHitch
Vehicle Service Type	Mini Excavator
Material	Alloy Steel
Pull Force	1800 Pounds
Maximum Towing Capacity	1800 Pounds
Item Weight	18.61 pounds

Attribute	Value
Package Dimensions	11.18 x 8.43 x 7.09 inches
Compatible Excavator Weight	0.8-1.8 Tons
Pin Span	3.66 inches (93 mm)
Pin Diameter	0.98 inches (25 mm)

PRODUCT SIZE



QUICK CHANGE HITCH

SUITABLE FOR 0.8-1.8 TONS MINI EXCAVATOR

Acceptable Error with in 3mm

Span Lenth : 92 mm/3.62 inch

Hole Diameter : 25 mm/0.98 inch

Center Wheelbase : 92 mm/3.62 inch

Figure 4.1: Key dimensions of the MMS Quick Change Hitch, including pin span and hole diameter.

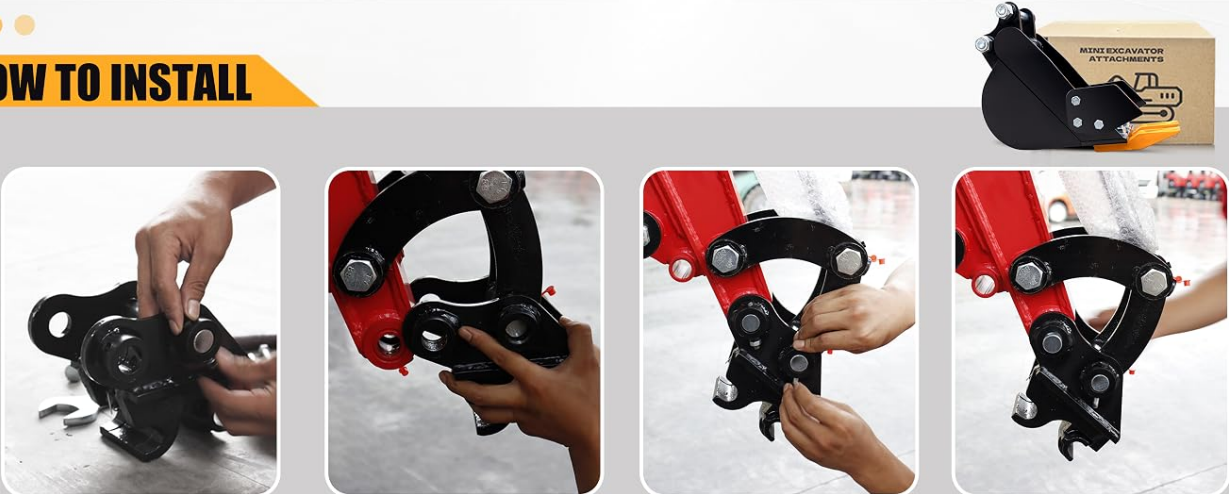
5. SETUP & INSTALLATION

Follow these steps to properly install the MMS Quick Change Hitch onto your mini excavator and attach implements.

5.1 Installing the Quick Hitch to the Excavator Arm

- 1. Prepare the Excavator:** Park the mini excavator on a level, stable surface. Turn off the engine and engage the parking brake.
- 2. Align the Hitch:** Position the quick hitch so its mounting points align with the excavator arm's attachment points.
- 3. Insert Pins:** Insert the appropriate pins (typically 0.98 inches / 25 mm diameter) through the quick hitch and the excavator arm. Ensure the pins are fully seated.
- 4. Secure Pins:** Use the provided bolts and nuts to secure the pins. Tighten them firmly.

HOW TO INSTALL



step1

step2

step3

step4

Figure 5.1: Visual guide for installing the quick hitch onto the excavator arm, showing pin insertion and securing steps.

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Video 5.1: Demonstration of installing the simple quick hitch onto a mini excavator arm.

5.2 Attaching an Implement to the Quick Hitch

1. **Position Implement:** Place the desired attachment (e.g., bucket) on a flat surface.
2. **Align Hitch:** Lower the excavator arm and align the quick hitch with the attachment's mounting points.
3. **Engage Front Hook:** Hook the front pin of the attachment onto the quick hitch's front hook.
4. **Loosen Center Screw:** Loosen the center screw on the quick hitch to allow the rear hook to move freely.
5. **Engage Rear Hook:** Adjust the excavator arm to engage the attachment's rear pin with the quick hitch's rear hook.
6. **Tighten Center Screw:** Once both pins are engaged, tighten the center screw firmly to secure the attachment. This ensures a safe and stable connection.
7. **Verify Security:** Before operation, visually inspect and gently test the attachment to ensure it is fully secured and locked.

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Video 5.2: Demonstration of attaching a mini excavator bucket using the quick hitch coupler.

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Video 5.3: Overview of the mini excavator quick hitch and its attachment process.

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Video 5.4: Quick connect demonstration for mini excavator attachments.

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Video 5.5: Mini excavator attachment quick hitch coupler in action.

6. OPERATING INSTRUCTIONS

Once the quick hitch and desired attachment are securely installed, operate your mini excavator according to its manufacturer's guidelines. The quick hitch allows for seamless transitions between tasks, maximizing efficiency.

- **Pre-Operation Check:** Always perform a thorough pre-operation check of the excavator and all attachments.
- **Smooth Movements:** Operate the excavator's hydraulics smoothly to avoid sudden jerks that could stress the quick hitch or attachment.
- **Attachment Specific Use:** Use each attachment only for its intended purpose.
- **Weight Limits:** Do not exceed the maximum towing capacity or the weight limits of your excavator or the quick hitch.

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Video 6.1: Demonstration of a small excavator ripper in operation, showcasing the quick hitch's role in attachment use.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your MMS Quick Change Hitch.

- **Cleaning:** Clean the quick hitch regularly, especially after use in muddy or dusty conditions, to prevent buildup that could hinder operation.
- **Lubrication:** Lubricate all moving parts, including the center screw and pin areas, with appropriate grease at regular intervals (e.g., weekly or after every 40 hours of operation).
- **Inspection:**
 - Check for cracks, bends, or deformation in the steel structure.
 - Inspect pins and bolts for wear, corrosion, or looseness. Replace any worn or damaged components immediately.
 - Ensure the center screw mechanism operates smoothly and locks securely.
- **Storage:** When not in use, store the quick hitch in a clean, dry place to prevent rust and corrosion.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your quick hitch.

Problem	Possible Cause	Solution
Attachment not locking securely.	Center screw not fully tightened; pins misaligned; excessive wear on hooks.	Ensure center screw is fully tightened. Realign attachment pins. Inspect for wear and replace if necessary.
Difficulty engaging/disengaging pins.	Lack of lubrication; dirt/debris buildup; bent pins or hooks.	Clean and lubricate pins and hooks. Remove any debris. Inspect for damage and replace components if bent.
Excessive play or movement in attachment.	Loose center screw; worn pins/bushings; incorrect attachment size.	Tighten center screw. Inspect and replace worn pins/bushings. Verify attachment compatibility.

9. WARRANTY INFORMATION

MMS products are manufactured to high-quality standards. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your purchase or contact MMS customer support directly. Keep your proof of purchase for warranty claims.

10. SUPPORT

For technical assistance, parts, or any questions regarding your MMS Quick Change Hitch, please contact our customer support team:

Website: [Visit the MMS Store on Amazon](#)

Email: [Insert Customer Support Email Here]

Phone: [Insert Customer Support Phone Number Here]

When contacting support, please have your product model number (MMS-QuickHitch) and purchase date available.

