MMS Mini Excavator Tilting Bucket

MMS 31in/800mm Excavator Tilting Bucket Attachment Instruction Manual

Model: Mini Excavator Tilting Bucket

Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your MMS 31in/800mm Excavator Tilting Bucket Attachment. This attachment is designed for 1-1.8 ton mini excavators and features a toothless design for clean grading and leveling. Please read this manual thoroughly before using the attachment.

Safety Information

Always prioritize safety when operating heavy machinery and attachments. Failure to follow safety guidelines can result in serious injury or equipment damage.

- Ensure the excavator is stable and on level ground before attaching or detaching the bucket.
- Always wear appropriate personal protective equipment (PPE), including hard hat, safety glasses, and gloves.
- Verify all hydraulic connections are secure and free from leaks before operation.
- Keep bystanders clear of the operating area.
- Never exceed the rated capacity of the excavator or the attachment.
- Perform daily pre-operation checks as outlined in your excavator's manual.

Setup and Installation

The MMS tilting bucket attachment is designed for straightforward installation on compatible mini excavators. Ensure your excavator meets the specified requirements (1-1.8 tons) and connection dimensions before proceeding.

Connection Requirements:

- **Link Hole Diameter:** 25 mm (0.98 inch)
- **Center Wheelbase:** 88 mm (3.46 inch)
- **Span Length:** 120 mm (4.72 inches)
- **Span Distance:** 90 mm (3.54 inch)

- **Oil Pipe Thread:** M14

Note: A tolerance of only 1-3mm is acceptable for these dimensions to ensure proper fitment.

Installation Steps:

1. Position the excavator arm to align with the bucket's mounting points.
2. Insert the provided pins through the excavator arm and bucket link holes. Secure them with appropriate fasteners.
3. Connect the two M14 threaded oil hoses from the bucket's hydraulic cylinder to the excavator's auxiliary hydraulic lines. Ensure connections are tight and leak-free.
4. Test the hydraulic tilt function slowly to confirm correct operation and no interference.

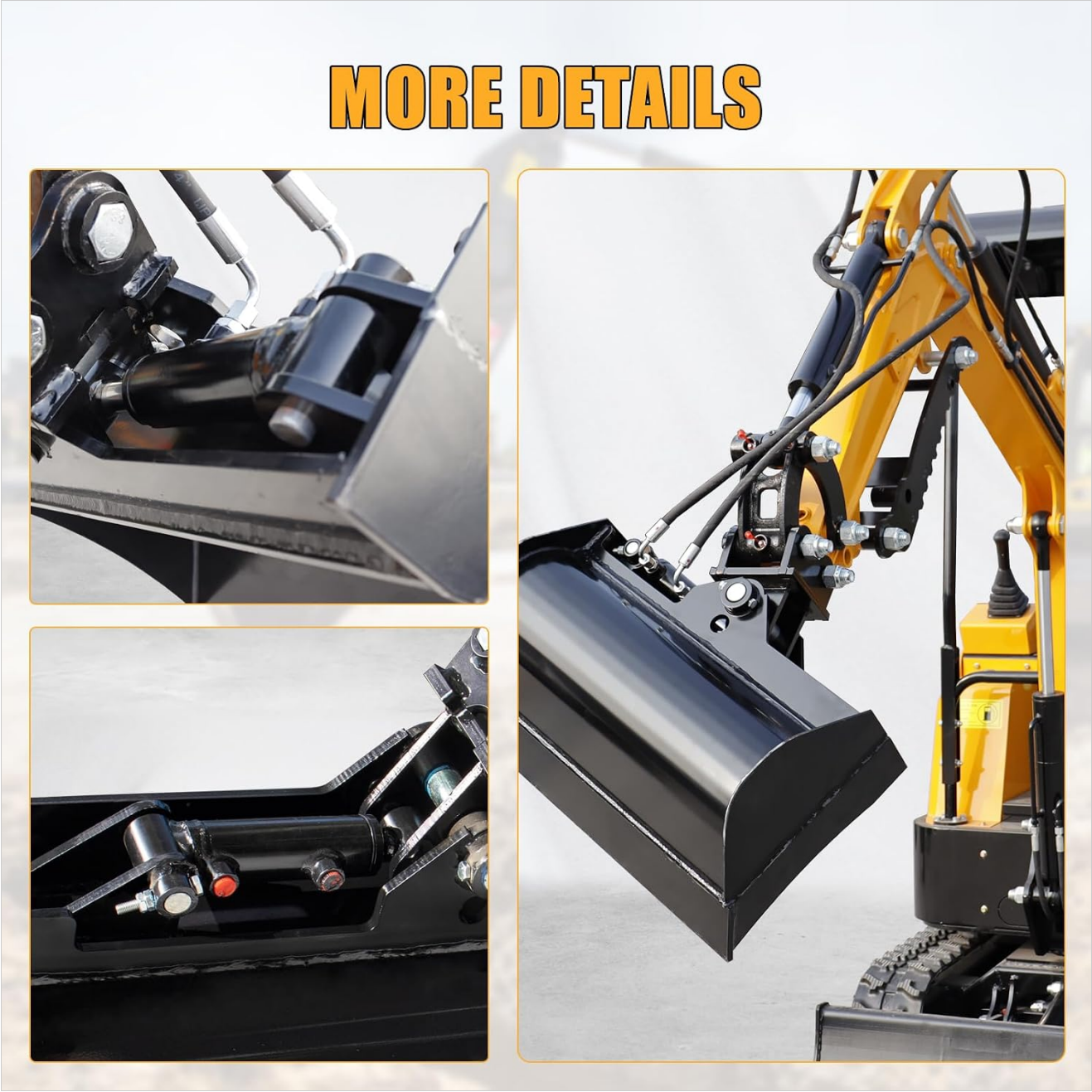

Figure 1: Detailed view of the hydraulic cylinder and pin connections for the tilting bucket. This image highlights the robust construction and the points where the attachment connects to the excavator arm and hydraulic system.

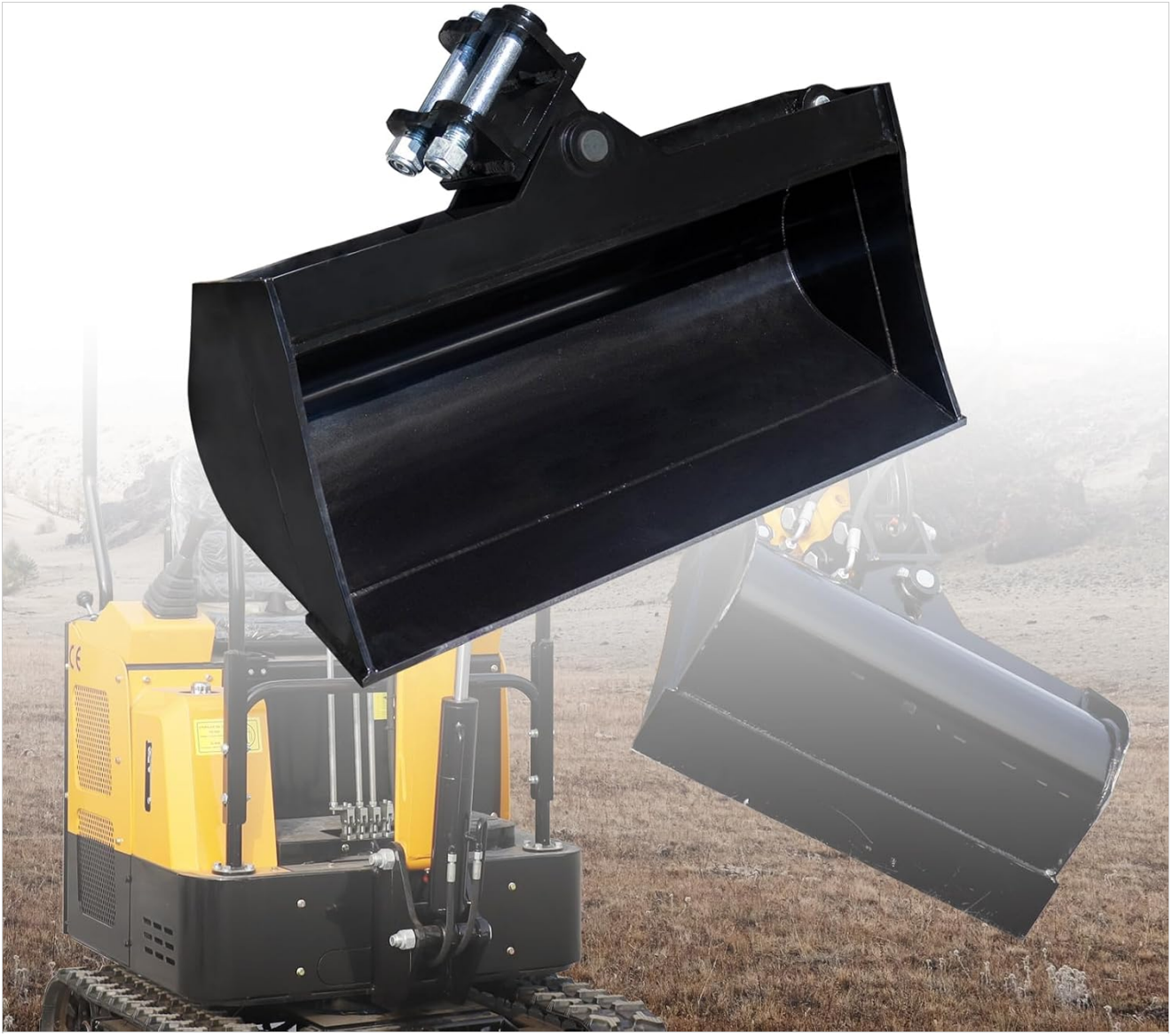

Figure 2: The MMS tilting bucket attachment securely mounted on a mini excavator. This view demonstrates the overall integration of the bucket with the excavator's arm, showing its position before active use.

Operating Instructions

The MMS tilting bucket enhances the versatility of your mini excavator, allowing for precise material handling and ground shaping.

Basic Operation:

- Start the excavator and allow the hydraulic system to warm up.
- Use the excavator's auxiliary hydraulic controls to operate the tilting function of the bucket. The hydraulic cylinder allows for a maximum tilt angle of 45 degrees.
- Adjust the tilt angle as needed for specific tasks such as grading, leveling, or trenching.
- The toothless design provides a smooth finish, ideal for final grading and landscaping work.

Applications:

This tilting bucket is suitable for a variety of tasks, including:

- Slope grooming and shaping
- Ditch cleaning and maintenance
- Site leveling and fine grading

- Gathering debris and material handling
- Backfilling operations

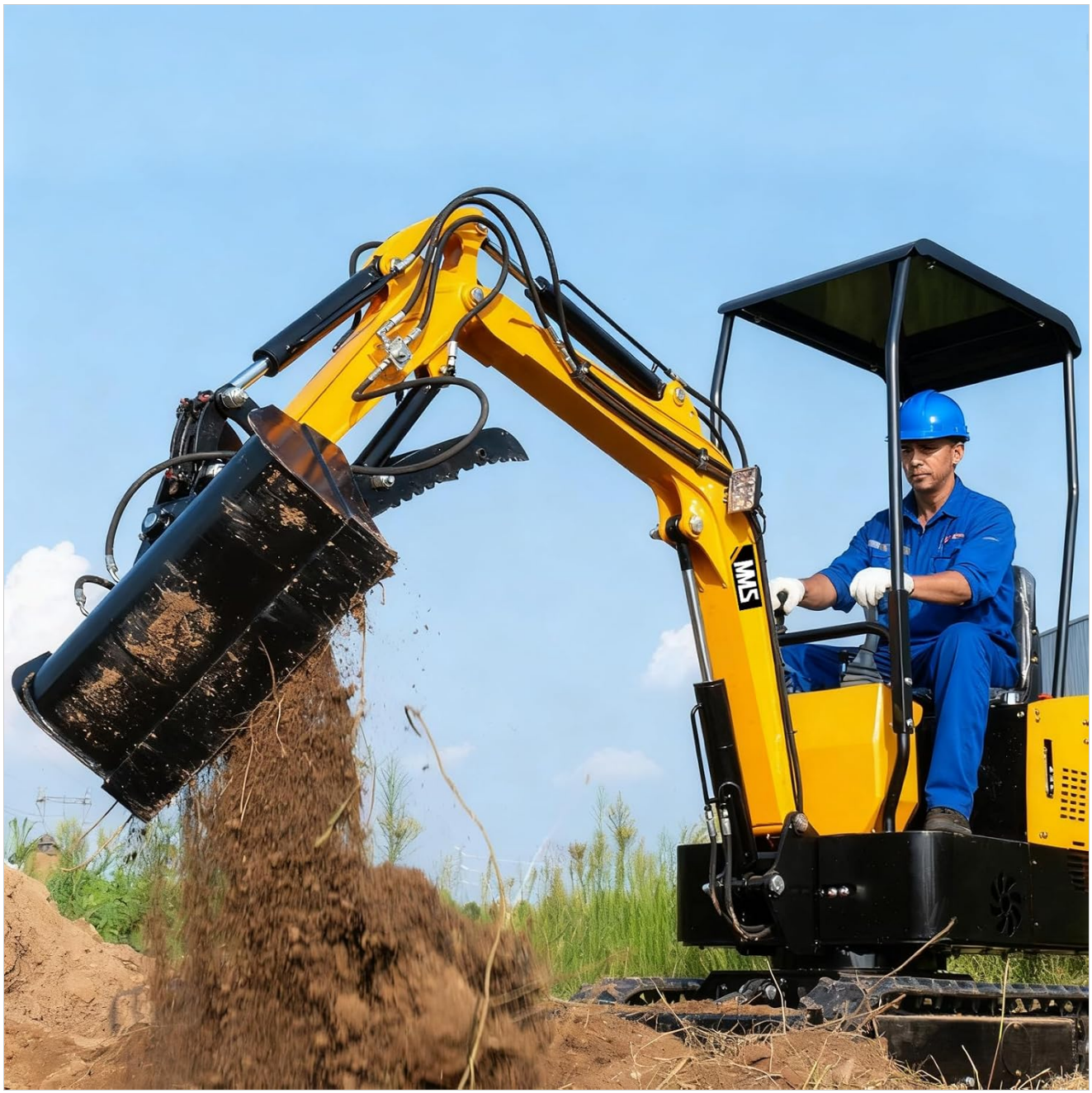

Figure 3: An MMS mini excavator utilizing the tilting bucket attachment to move soil. This image illustrates the bucket in action, demonstrating its capacity and the excavator's ability to perform earthmoving tasks.

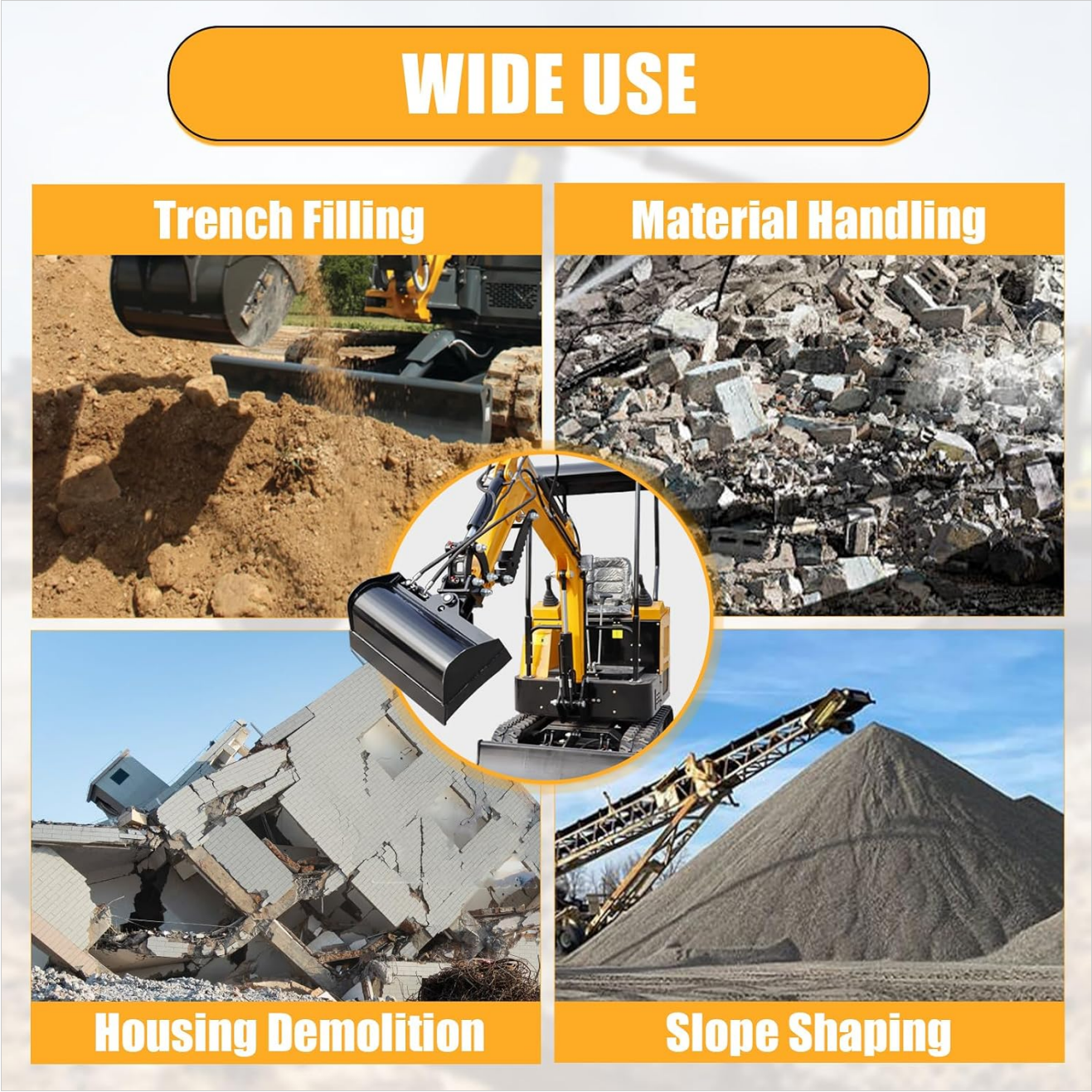

Figure 4: A visual representation of the wide range of applications for the MMS tilting bucket. This diagram highlights its utility in tasks such as trench filling, efficient material handling, housing demolition, and precise slope shaping, showcasing its versatility.

Operation Video:

Video 1: Tilting Bucket Operation. This video demonstrates the hydraulic tilting functionality of the bucket attachment on a mini excavator, showing how it can be angled for various tasks like grading and leveling. It provides a visual guide to the bucket's movement and control.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your tilting bucket attachment.

- **Daily Inspection:** Check for any visible damage, loose bolts, or hydraulic leaks before each use.
- **Lubrication:** Lubricate all pivot points and grease fittings regularly according to your excavator's maintenance schedule.
- **Cleaning:** Clean the bucket thoroughly after each use, removing any accumulated dirt or debris, especially from hydraulic components.
- **Hydraulic System:** Monitor hydraulic fluid levels and quality. Replace hydraulic hoses if they show signs of wear or

damage.

- **Storage:** Store the attachment in a clean, dry place when not in use to prevent corrosion.

Troubleshooting

This section provides general guidance for common issues. For complex problems, consult a qualified technician.

- **Bucket not tilting:** Check hydraulic hose connections for tightness and damage. Ensure the excavator's auxiliary hydraulic system is engaged and functioning correctly. Verify hydraulic fluid levels.
- **Slow or weak tilt:** This may indicate low hydraulic pressure, a clogged filter, or an issue with the hydraulic pump or cylinder. Consult a technician.
- **Unusual noises:** Stop operation immediately and inspect the attachment for loose components, damaged pins, or hydraulic issues.

Specifications

Key technical specifications for the MMS 31in/800mm Excavator Tilting Bucket Attachment.

Feature	Specification
Product Dimensions	31.5 x 15 x 21 inches
Item Weight	120 pounds (54.4 kg)
Manufacturer	MMS
Model Number	Mini Excavator Tilting Bucket
Link Hole Diameter	25 mm (0.98 inch)
Center Wheelbase	88 mm (3.46 inch)
Span Length	120 mm (4.72 inches)
Span Distance	90 mm (3.54 inch)
Oil Pipe Thread	M14
Max Tilt Angle	45 degrees (135° range shown in diagram)

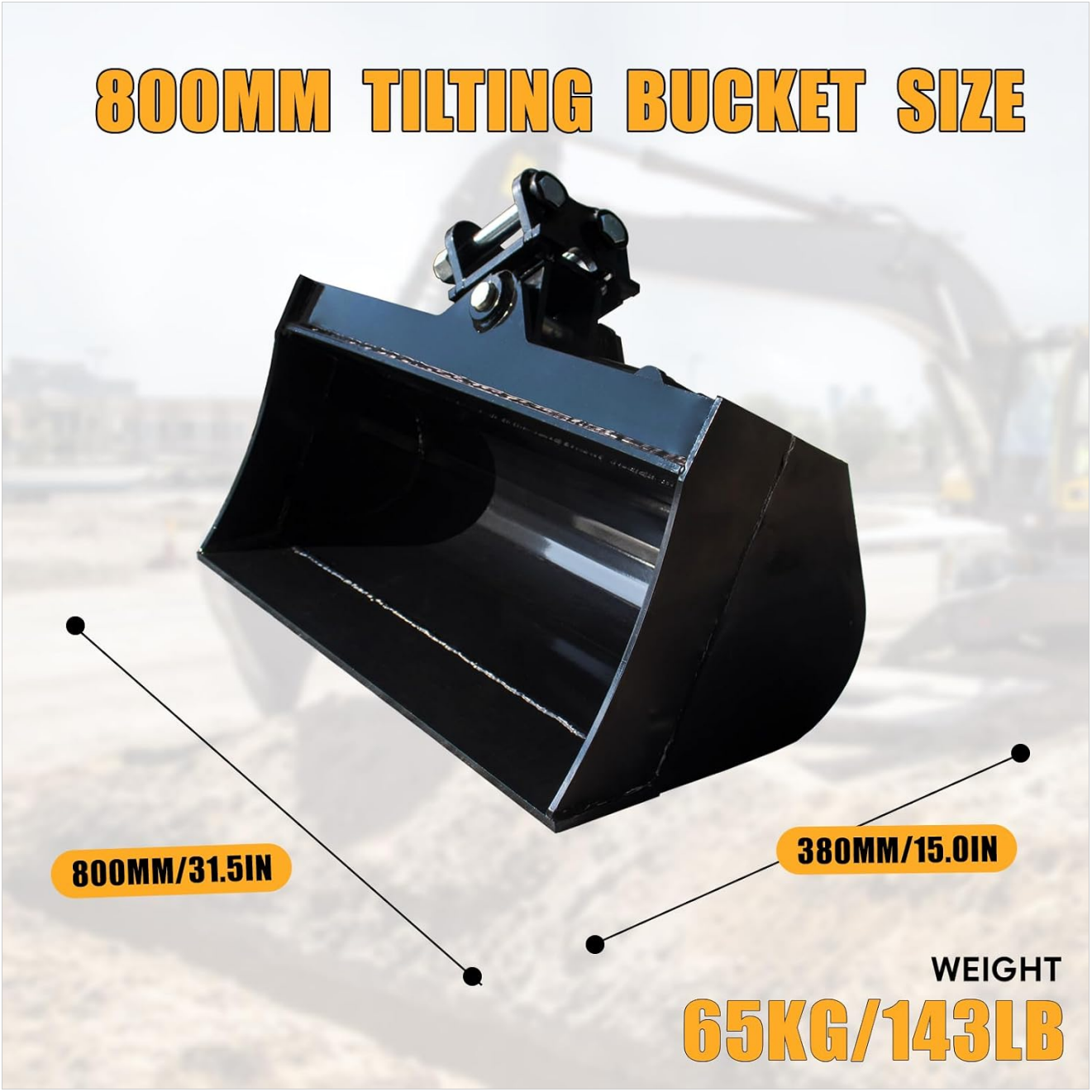

Figure 5: Dimensional overview of the 800mm (31.5in) tilting bucket. This image provides key measurements such as the bucket's width and depth, essential for understanding its capacity and compatibility.

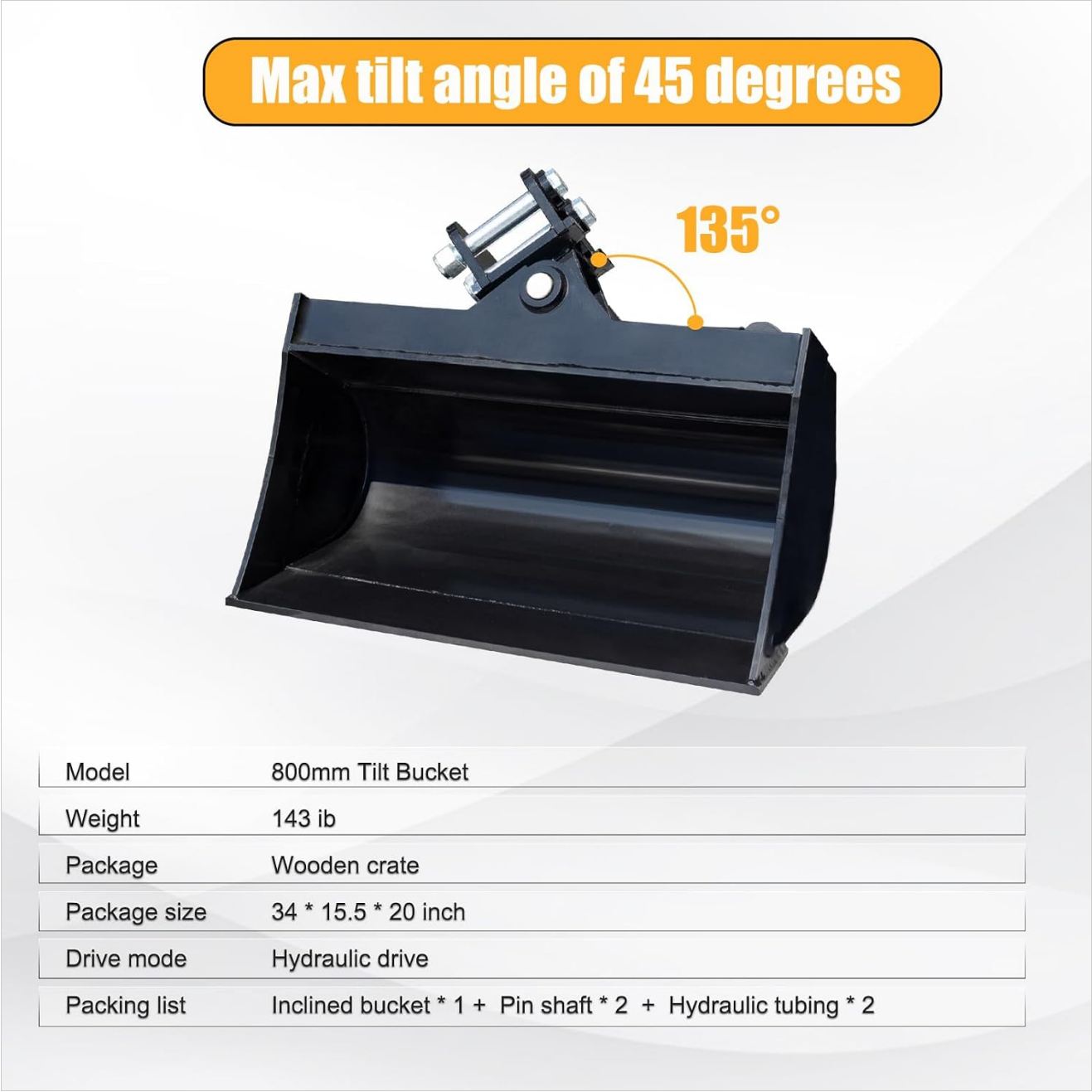

Figure 6: Illustration of the maximum tilt angle of 45 degrees, indicating the operational flexibility of the bucket. The image also includes a table detailing package contents and dimensions, such as model, weight, package type, size, drive mode, and packing list.

Warranty and Support

MMS is committed to providing quality products and customer satisfaction. For any questions, technical assistance, or warranty claims, please contact MMS Customer Support.

Refer to your purchase documentation for specific warranty terms and conditions. Keep your proof of purchase for warranty validation.

MMS Customer Support: For assistance, please visit the MMS Store on Amazon or contact the seller directly.