

MMS PC10Y

MMS 1 Ton Mini Excavator PC10Y User Manual

Model: PC10Y | Brand: MMS

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your MMS 1 Ton Mini Excavator, model PC10Y. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent damage or injury.

The MMS PC10Y is a compact 1-ton mini excavator equipped with a 13.5 HP gasoline engine, designed for various tasks including trenching, farming, construction, and gardening. It features a mechanical thumb clamp and a canopy for operator comfort and functionality.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow safety instructions can result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including hard hat, safety glasses, gloves, and steel-toed boots.
- Ensure the work area is clear of bystanders, especially children and pets.
- Inspect the excavator before each use for any damage, loose parts, or fluid leaks.
- Operate the machine on stable, level ground whenever possible. Be aware of slopes and uneven terrain.
- Never operate the excavator under the influence of alcohol or drugs.
- Keep hands and feet clear of moving parts.
- Familiarize yourself with all controls and emergency shutdown procedures.
- Do not exceed the machine's rated lifting capacity.

3. SETUP AND INITIAL PREPARATION

3.1 Unpacking and Assembly

The MMS PC10Y mini excavator is shipped fully assembled. Upon arrival, carefully inspect the packaging and the machine for any signs of shipping damage. Report any damage immediately to the carrier and supplier. Remove all packing materials. Ensure all components listed in the packing list are present. The machine comes with oil and hydraulic fluid pre-filled; however, it is recommended to verify fluid levels before first use.

3.2 Fueling the Excavator

The fuel tank is located under the operator's seat. Lift the seat to access the fuel tank cap.

1. Ensure the engine is off and cool before refueling.
2. Carefully lift the operator's seat to expose the fuel tank.
3. Unscrew the fuel cap.
4. Fill with unleaded gasoline. Do not overfill.
5. Securely replace the fuel cap and lower the seat.



Figure 3.1: MMS PC10Y Mini Excavator with bucket and canopy. This image shows the overall appearance of the excavator.

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Video 3.1: MMS 1 Ton Mini Excavator with Canopy & 13.5HP RATO Engine. This video demonstrates the general operation and features of the excavator.

4. OPERATING INSTRUCTIONS

4.1 Starting the Engine

1. Ensure the power switch (located near the seat) is in the ON position.
2. Open the throttle handle to a suitable position.
3. Pull out the engine choke.
4. Insert the key into the ignition and turn it to start the engine.
5. Once the engine starts, immediately push the choke back to its original position.

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Video 4.1: MMS Compact Excavator-PC10 Yellow - Operation Demonstration. This video illustrates the starting procedure and basic operational movements of the excavator.

4.2 Basic Controls and Movement

The excavator is controlled by intuitive levers. Familiarize yourself with the functions of each lever before operating the machine under load.

- **Left Joystick:** Controls the swing of the boom and the movement of the arm.
- **Right Joystick:** Controls the boom lift/lower and bucket curl/dump.
- **Foot Pedals:** Control track movement (forward/backward) and dozer blade operation.
- **Throttle:** Adjusts engine RPM for desired power and speed.

4.3 Using the Retractable Dozer Blade

The dozer blade can be fully extended to 900 mm in width, providing increased stability during operation, especially when working sideways. Use the foot pedals to raise or lower the blade.

The hydraulic pipes all imported from Continental AG Germany company. Other hydraulic parts and the crawlers, we cooperate with well-known domestic manufacturers.



Figure 4.1: The MMS PC10Y Mini Excavator demonstrating the extended dozer blade for enhanced stability.

4.4 Attachment Compatibility

The PC10Y supports various attachments for different tasks. The standard bucket is included. Other attachments such as grapples, rippers, augers, sand buckets, rakes, and breakers are sold separately.

MSPC10

Mini excavator



Figure 4.2: Illustration of various compatible attachments for the MMS PC10Y Mini Excavator, including buckets, grapples, rippers, and augers.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your MMS PC10Y mini excavator. Always ensure the machine is turned off and cooled down before performing any maintenance.

5.1 Daily Checks

- Check engine oil level.
- Inspect hydraulic fluid level.
- Check fuel level.
- Inspect tracks for damage or excessive wear.
- Verify all controls operate smoothly.

- Clean any debris from the engine compartment and radiator fins.

5.2 Scheduled Maintenance

Refer to the detailed maintenance schedule in the separate service manual for specific intervals for:

- Engine oil and filter replacement.
- Hydraulic fluid and filter replacement.
- Air filter inspection and cleaning/replacement.
- Greasing pivot points and joints.
- Battery inspection and cleaning.



Model: MSPC10

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|-------------------|---------------------------|---------------------------------------|--------|
| Weight | 900kg | Track ground length | 1140mm |
| Engine Model | RATO R420 | Track width | 150mm |
| Rated power | 15HP/9.5KW/3600rpm | Max.digging depth | 1450mm |
| Bore stroke | Single cylinder, fan cool | Max.digging height | 2600mm |
| Bucket Capacity | 0.025 m ³ | Max.dumping height | 1760mm |
| Bucket width | 340mm | Max. Upgrade height of blldozer blade | 120mm |
| Travel speed | 2.2km/h | Max. Digging depth of blldozer blade | 200mm |
| Climbing capacity | 30° | | |
| Overall dimension | 2600*880*1380/1980mm | | |

Figure 5.1: View of the engine compartment of the MMS PC10Y Mini Excavator, highlighting areas for fluid checks and maintenance.

6. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-------------------------|--|--|
| Engine does not start | No fuel; Battery low; Choke not used; Ignition fault | Check fuel level; Charge/replace battery; Use choke during startup; Consult service. |
| Loss of hydraulic power | Low hydraulic fluid; Clogged filter; Pump issue | Check hydraulic fluid level; Replace hydraulic filter; Consult service. |
| Overheating engine | Low coolant; Clogged radiator; Excessive load | Check coolant level; Clean radiator fins; Reduce load; Consult service. |

For issues not listed or if solutions do not resolve the problem, contact MMS customer support.

7. SPECIFICATIONS

| Feature | Detail |
|---------------------------|---|
| Model | PC10Y |
| Engine | 13.5 HP Gasoline Engine (RATO engine) |
| Weight | 1984 pounds (900 kg) |
| Product Dimensions | 102 x 34.6 x 78 inches (2600 x 880 x 1980 mm) |
| Material | Q355 Steel |
| Power Source | Gasoline |
| Wattage | 9.5 KW |
| Special Features | 360° Rotation, Retractable Dozer Blade, Multiple Attachment Compatibility |
| Hydraulic Oil Tank Volume | Larger volume for extended continuous working hours |
| Max. Digging Depth | 1450mm |
| Max. Digging Height | 2600mm |
| Max. Dumping Height | 1760mm |



Figure 7.1: Detailed specifications and dimensions of the MMS PC10Y Mini Excavator.

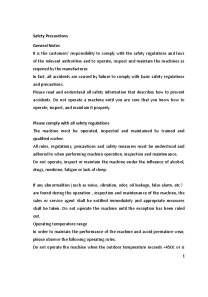



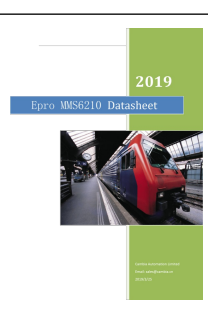
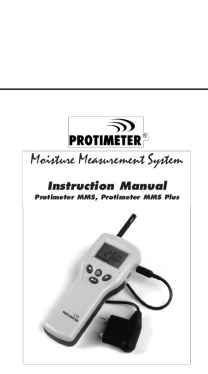
8. WARRANTY AND SUPPORT

MMS provides professional quality and support for its products. For warranty information, service requests, or technical assistance, please contact MMS customer support.

MMS operates 10 overseas warehouse distribution centers and offers professional sales and maintenance teams ready to provide consultation and after-sales support.

For further assistance, please visit the official MMS Store: [MMS Store on Amazon](#)

Related Documents - PC10Y

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|---|---|
|  | <p>MS08 Mini Compact Excavator: Operation and Safety Manual</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> |
|  | <p>Grundfos MS, MMS Submersible Motors: Installation and Operating Instructions</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>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> |
|  | <p>EpicGear DEFiant EG MMS Mechanical Keyboard Quick Start Guide</p> <p>Quick start guide for the EpicGear DEFiant EG MMS Mechanical Keyboard, covering setup, backlit modes, gaming profiles, EG Game Mode, rollover modes, and keyswitch replacement.</p> |
|  | <p>Epro MMS6210 Dual Channel Shaft Displacement Monitor Datasheet</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>Protimeter MMS Moisture Measurement System Instruction Manual</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> |

