Scheppach MIX160

Scheppach MIX160 Concrete Mixer User Manual

Model: MIX160

1. Introduction

Thank you for choosing the Scheppach MIX160 Concrete Mixer. This manual provides essential information for the safe and efficient operation, assembly, maintenance, and troubleshooting of your concrete mixer. Please read these instructions carefully before initial use and keep them for future reference. Proper use and maintenance will ensure the longevity and optimal performance of your machine.

2. Safety Instructions

Always prioritize safety when operating machinery. Failure to follow these safety guidelines can result in serious injury or damage to the equipment.

- **Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, sturdy gloves, and appropriate work clothing. A hard hat and dust mask are recommended, especially when loading or unloading dry materials.
- **Work Area:** Ensure the work area is clear, well-lit, and level. Do not operate the mixer on unstable or slippery surfaces. Keep children and bystanders at a safe distance.
- **Electrical Safety:** Connect the mixer only to a grounded power outlet. Do not use extension cords that are damaged or improperly rated. Keep all electrical connections dry and away from water.
- **Machine Stability:** Before operation, ensure the mixer is stable and cannot tip over. The wheels should be chocked if necessary.
- **Loading and Unloading:** Never insert hands or tools into the drum while it is rotating. Use a shovel or other appropriate tools for loading and unloading materials.
- **Maintenance:** Disconnect the power supply before performing any maintenance, cleaning, or adjustments.
- **Emergency Stop:** Familiarize yourself with the location and operation of the ON/OFF switch for quick shutdown in an emergency.

3. Components Overview

The Scheppach MIX160 Concrete Mixer consists of several key components designed for efficient and safe operation.

- **Mixing Drum:** The main container for mixing concrete, mortar, or plaster. It has a 160-liter capacity.
- **Motor Housing:** Encloses the 650W motor, protected by a labyrinth casing to prevent water splashes while ensuring adequate cooling.
- **Tilting Wheel/Handle:** Used to adjust the angle of the mixing drum for loading, mixing, and unloading.
- **Frame and Stand:** Provides stability and support for the entire unit.
- **Wheels:** For easy transportation of the mixer.
- **ON/OFF Switch:** Controls the power to the motor.
- **Cast Iron Gears:** Durable gears for reliable drum rotation.



Figure 1: Overview of the Scheppach MIX160 Concrete Mixer. This image shows the complete assembly of the concrete mixer, highlighting its blue drum, black motor housing, and sturdy frame with wheels.

4. Setup and Assembly

The Scheppach MIX160 Concrete Mixer requires some assembly before first use. Follow these steps carefully.

1. **Unpacking:** Carefully remove all components from the packaging. Check for any damage during transit and ensure all parts listed in the packing list are present.
2. **Frame Assembly:** Assemble the main frame components according to the diagrams provided in the separate assembly guide. Ensure all bolts are securely tightened.
3. **Wheel Attachment:** Attach the wheels to the frame. Ensure they are properly secured to allow for safe movement.
4. **Drum Assembly:** Mount the mixing drum onto the support shaft. Ensure the drum is correctly aligned with the drive mechanism.
5. **Motor and Gearbox Installation:** Secure the motor housing and gearbox assembly to the frame. Connect the electrical wiring as instructed, ensuring all connections are tight and insulated.
6. **Tilting Mechanism:** Install the tilting wheel/handle and ensure it operates smoothly, allowing the drum to be locked in various positions.
7. **Final Check:** Before connecting to power, manually rotate the drum to ensure there are no obstructions and all moving parts operate freely. Double-check all fasteners for tightness.

5. Operating Instructions

Follow these steps for safe and effective operation of your concrete mixer.

5.1 Preparing for Mixing

- Position the mixer on a firm, level surface.
- Ensure the power cord is safely routed and connected to a suitable grounded outlet.
- Gather all necessary materials (cement, sand, aggregate, water) and tools (shovel, buckets).
- Tilt the drum to a suitable angle for loading using the tilting wheel.

5.2 Loading Materials

Always start the mixer before adding materials.

1. Switch on the mixer using the ON/OFF switch.
2. Add a small amount of water to the rotating drum first to prevent dry mix from sticking.
3. Gradually add the aggregate (gravel), then sand, and finally cement. Add water intermittently as needed to achieve the desired consistency.
4. Do not overload the drum. The maximum capacity is 160 liters, or approximately 114 kg of mixed material. Overloading can strain the motor and gears.



Figure 2: Loading materials into the mixer. A person is shown carefully shoveling dry materials into the rotating drum of the concrete mixer, demonstrating the correct loading procedure.

5.3 Mixing Process

Allow the materials to mix thoroughly until a uniform consistency is achieved. This typically takes a few minutes, depending on the mix design.



Figure 3: View inside the mixing drum during operation. This close-up shows the internal paddles effectively mixing concrete, illustrating the drum's design for thorough material blending.

5.4 Unloading Mixed Material

1. Position a wheelbarrow or container under the drum's opening.
2. While the drum is still rotating, slowly tilt the drum downwards using the tilting wheel to discharge the mixed material.
3. Once emptied, return the drum to its upright position.



Figure 4: Unloading mixed concrete into a wheelbarrow. A person is shown tilting the mixer drum to pour the freshly mixed concrete into a wheelbarrow, demonstrating the controlled discharge process.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your Scheppach MIX160 Concrete Mixer.

- **Cleaning After Each Use:** Immediately after use, clean the inside and outside of the drum thoroughly with water. Do not use abrasive cleaners or high-pressure washers directly on the motor housing. Allow the drum to rotate with water and some gravel for a few minutes to help dislodge hardened concrete.

- **Motor Housing:** Keep the motor housing clean and free from dust and debris to ensure proper cooling. The labyrinth casing is designed to protect against water splashes, but direct water jets should be avoided.
- **Gears and Bearings:** Periodically inspect the cast iron gears and other moving parts for wear or damage. Apply appropriate grease to the gear ring and pinion as needed to reduce noise and friction.
- **Electrical Components:** Regularly check the power cord and plug for any signs of damage. If damaged, have them replaced by a qualified electrician.
- **Fasteners:** Check all bolts, nuts, and screws periodically and tighten them if necessary. Vibration during operation can cause them to loosen.
- **Storage:** Store the mixer in a dry, protected area when not in use.

7. Troubleshooting

This section addresses common issues you might encounter with your concrete mixer.

Problem	Possible Cause	Solution
Mixer does not start	No power supply; Faulty switch; Motor overload	Check power connection and circuit breaker; Test switch; Reduce load if overloaded.
Drum does not rotate	Drive belt loose or broken; Gear obstruction; Motor fault	Inspect and adjust/replace belt; Clear any obstructions; Contact service for motor issues.
Excessive noise during operation	Lack of lubrication on gears; Loose components; Worn bearings	Apply grease to gears; Tighten all fasteners; Inspect and replace worn bearings.
Motor overheats	Overloading; Insufficient ventilation; Prolonged continuous use	Reduce load; Clear motor housing vents; Allow mixer to cool down.

8. Specifications

Key technical specifications for the Scheppach MIX160 Concrete Mixer.

Feature	Specification
Model Number	5908405901
Power	650 Watts
Voltage	230 Volts (AC)
Drum Capacity	160 Liters
Rotation Speed	29.5 rpm
Product Dimensions (L x W x H)	120 x 84.5 x 129.5 cm
Weight	54 Kilograms
Components Included	Concrete Mixer MIX160

9. Warranty and Support

Scheppach products are manufactured to high-quality standards. In the unlikely event of a defect, please refer to your purchase documentation for warranty terms and conditions. For technical support, spare parts, or service inquiries, please contact your authorized Scheppach dealer or the customer service department. Please have your model number (MIX160) and serial number ready when contacting support.