Ferm TDM1026

FERM TDM1026 Pillar Drill Instruction Manual

Model: TDM1026

1. Introduction

This manual provides essential information for the safe and effective operation, setup, and maintenance of your FERM TDM1026 Pillar Drill. Please read these instructions carefully before using the machine to ensure proper function and to prevent injury or damage.

Image 1: The FERM TDM1026 Pillar Drill, showcasing its robust construction and key components.

2. Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the drill for extended periods. Do not overreach. Maintain proper footing and balance at all times.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Emergency Stop:** The machine is equipped with a red emergency stop button for immediate shutdown.
- **Safety Guard:** A transparent safety guard is provided over the chuck area to protect against flying debris. Ensure it is always in place during operation.

3. Setup

3.1 Unpacking and Assembly

Carefully remove all components from the packaging. Ensure all parts listed in the packing contents are present. Assemble the pillar drill according to the provided assembly diagram (not included in this document, refer to separate assembly sheet if applicable).

3.2 Mounting the Drill

The drill press features pre-drilled holes in its base for secure mounting to a workbench. This is highly recommended to ensure stability and safety during operation.

3.3 Adjusting the Work Table

The 160x160mm work table can be adjusted in height and tilted from -45° to 45°. Loosen the locking mechanism to adjust the table to the desired height and angle, then securely tighten it before drilling.

Image 2: Close-up of the adjustable work table and its angle indicator.

3.4 Installing the Drill Bit

The drill is equipped with a keyed chuck for securing various types of drill bits up to 13mm in diameter. Insert the drill bit into the chuck and tighten it firmly using the provided chuck key. Ensure the bit is centered and secure.

Image 3: The chuck key being used to tighten a drill bit in the chuck.

4. Operating Instructions

4.1 Powering On/Off

The drill press features a main power switch. Press the green button to turn the machine on and the red button to turn it off. In case of emergency, press the large red emergency stop button.

Image 4: The main power switch with green 'on' and red 'off' buttons.

4.2 Adjusting Speed Settings

The FERM TDM1026 offers 5 different speed settings (500, 890, 1400, 1900, 2500 RPM). To change the speed, open the metal belt housing on top of the drill. Adjust the V-belt position on the pulleys to achieve the desired speed. Refer to the diagram inside the housing for correct belt placement. Ensure the machine is unplugged before adjusting the belt.

Image 5: The belt drive system for adjusting drilling speeds.

4.3 Setting Drilling Depth

Utilize the drilling depth stop to precisely control the depth of your drill hole, up to a maximum of 52mm. Adjust the depth stop mechanism to the required depth before starting the drilling operation.

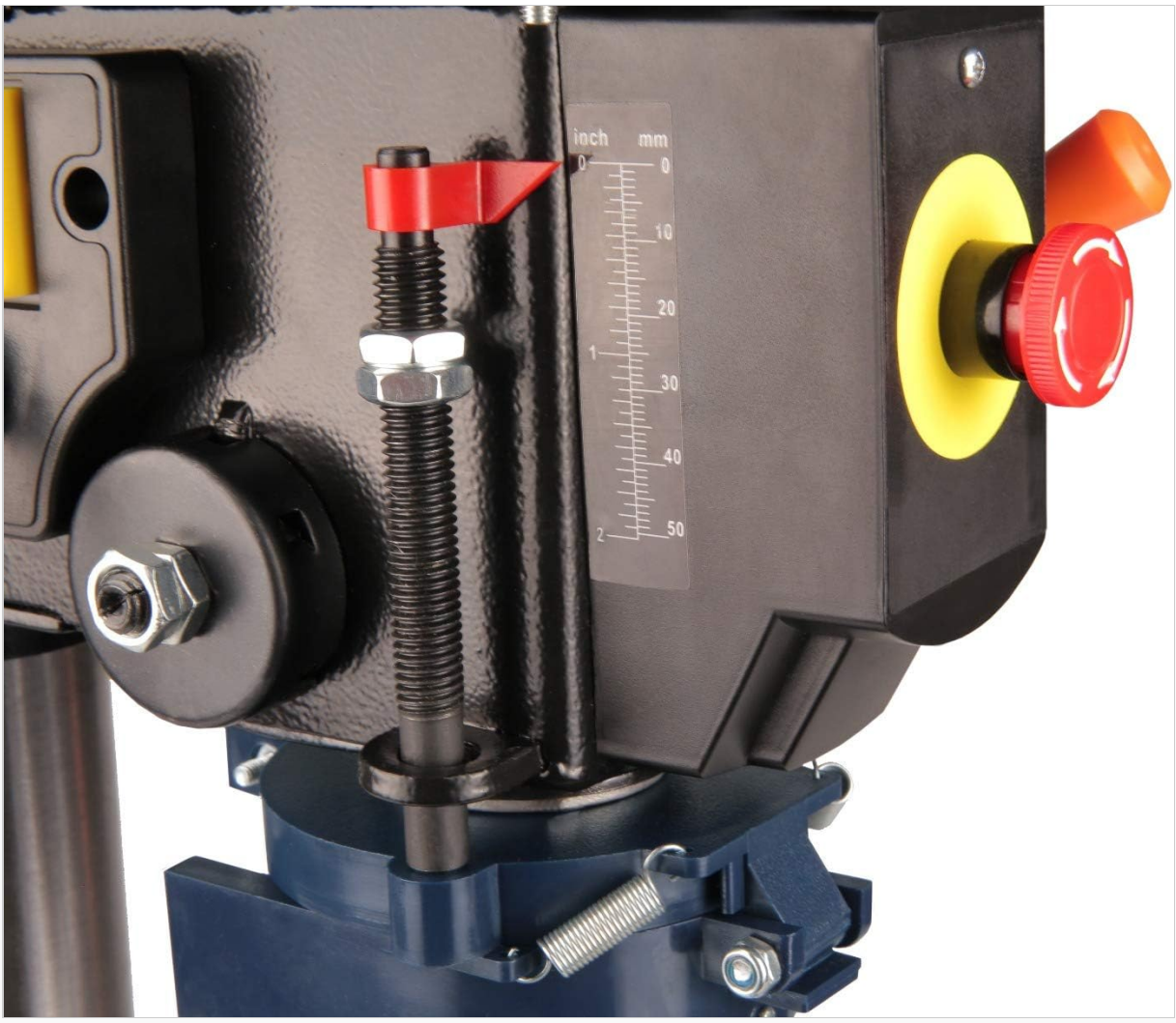


Image 6: Close-up of the depth stop mechanism with measurement scale.

4.4 Drilling Operation

Secure the workpiece firmly to the work table using clamps if necessary. Lower the drill bit slowly into the material using the feed handles. Apply steady, even pressure. The transparent safety guard provides visibility while protecting against debris.

Image 7: The pillar drill in use, demonstrating a drilling operation on a wooden workpiece.

Image 8: The transparent safety guard covering the drill chuck area.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your pillar drill. Always disconnect the power supply before performing any maintenance.

- **Cleaning:** Keep the machine clean, especially the work table and column, to prevent accumulation of dust and debris. Use a dry cloth or soft brush.
- **Lubrication:** Periodically lubricate moving parts as indicated in the detailed service manual (if applicable).
- **Belt Inspection:** Regularly check the V-belt for wear and proper tension. Adjust or replace if necessary.
- **Chuck Maintenance:** Keep the chuck jaws clean and free of debris to ensure proper gripping of drill bits.

6. Troubleshooting

This section addresses common issues you might encounter with your pillar drill.

- **Machine does not start:**
    - Check if the power cord is securely plugged into a functional outlet.
    - Ensure the main power switch is in the 'on' position.
    - Verify that the belt housing cover is fully closed, as a safety interlock prevents operation when open.

- Check if the emergency stop button is engaged; twist to release if pressed.

- **Excessive vibration during operation:**
  - Ensure the drill bit is properly installed and tightened in the chuck.
  - Check the V-belt tension and condition. A loose or worn belt can cause vibration.
  - Verify that the machine is securely mounted to the workbench.

- **Drill bit not cutting effectively:**
  - Ensure the drill bit is sharp and appropriate for the material being drilled.
  - Check that the correct speed setting is selected for the material and drill bit size.
  - Apply adequate, but not excessive, downward pressure.

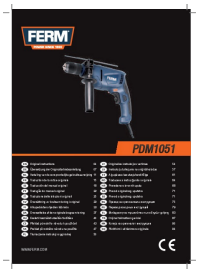
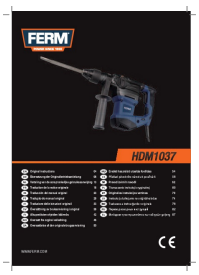
7. Specifications

Feature	Specification
Model	TDM1026
Power Input	350 W
Voltage	230 V
Frequency	50 Hz
Number of Speeds	5 (500, 890, 1400, 1900, 2500 RPM)
Work Table Size	160 x 160 mm
Table Tilt Angle	-45° to 45°
Max. Chuck Capacity	13 mm
Max. Drilling Depth	52 mm
Max. Spindle to Table Distance	215 mm (lowest position)
Max. Spindle to Base Distance	303 mm
Total Height	600 mm
Power Cable Length	2 m
Weight	13.7 kg
Dimensions (L x W x H)	44 x 36 x 23 cm

8. Warranty and Support

For warranty information, technical support, or spare parts availability, please refer to the documentation provided with your purchase or contact FERM customer service directly. Specific details regarding warranty periods and service procedures are not included in this general instruction manual.

Related Documents - TDM1026

	Ferm PDM1051 Impact Drill: User Manual, Safety Instructions & Specifications Discover the Ferm PDM1051 Impact Drill, a versatile and powerful tool for drilling wood, metal, plastic, brick, and concrete. This user manual provides essential safety warnings, operating instructions, technical specifications, and maintenance guidelines for optimal performance and user protection. Featuring variable electronic speed and double insulation, the PDM1051 is designed for reliability and ease of use.
	FERM CDM1164 20V Cordless Drill User Manual and Instructions Comprehensive user manual and safety instructions for the FERM CDM1164 20V Cordless Li-Ion Drill. Learn about operation, maintenance, and safety guidelines provided by FERM.
	FERM CDM1149 20V Cordless Drill User Manual Comprehensive user manual for the FERM CDM1149 20V Cordless Drill, covering safety instructions, machine information, operating procedures, maintenance, and warranty.
	FERM PDM1049P_K Impact Drill: User Manual, Safety Instructions, and Specifications Comprehensive user manual for the FERM PDM1049P_K Impact Drill, covering safety instructions, technical specifications, operating procedures, maintenance, and warranty information.
	FERM PRM1020P Trimmer: User Manual, Safety & Operation Guide Comprehensive user manual for the FERM PRM1020P trimmer. Learn about safe operation, assembly, maintenance, and troubleshooting for this powerful woodworking tool from FERM Industrial.
	FERM HDM1037 Rotary Hammer Drill User Manual This user manual provides instructions and safety information for the FERM HDM1037 Rotary Hammer Drill. It covers intended use, technical specifications, assembly, operation, cleaning, maintenance, and warranty.