

## Scheppach DP16VLS

# Scheppach DP16VLS Pillar Drill Instruction Manual

Model: DP16VLS



## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, assembly, maintenance, and troubleshooting of your Scheppach DP16VLS Pillar Drill. Please read these instructions carefully before using the machine to ensure proper function and to prevent injury or damage.



Image 1: Scheppach DP16VLS Pillar Drill with included vice.

## 2. SAFETY INSTRUCTIONS

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Always observe general safety regulations when working with power tools. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

### General Safety Warnings:

- **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.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the drill. Wear appropriate clothing; avoid loose clothing or jewelry that can get caught in moving parts. Secure long hair.
- **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.

### Specific Pillar Drill Safety:

- Always secure the workpiece firmly to the drill table using the included vice or clamps. Never hold the workpiece by hand.
- Ensure the drill bit is correctly installed and tightened in the chuck before operation.
- Adjust the drilling depth stop to prevent drilling into the drill table.
- Keep hands clear of the rotating drill bit and all moving parts.
- Allow the motor to reach full speed before beginning to drill.
- Do not attempt to clear chips or debris while the drill is operating.

## 3. PRODUCT OVERVIEW AND FEATURES

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The Scheppach DP16VLS is a robust pillar drill designed for precise drilling in various materials including wood, metal, aluminum, and plastic. It features a powerful 500W motor and a variable speed system.

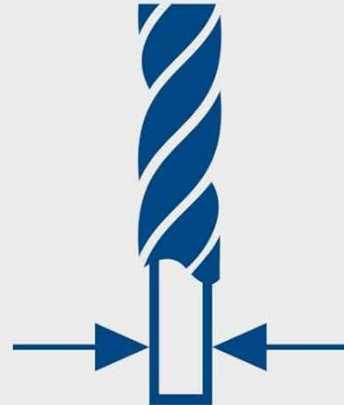
### Key Features:

- **Motor:** Powerful 500 Watt motor.
- **Speed:** 5 adjustable speeds ranging from 600 to 2650 revolutions per minute (rpm).
- **Chuck:** Keyed chuck with a capacity of 1.5 to 13 mm.
- **Drilling Depth:** Maximum drilling stroke of 50 mm.
- **Work Table:** Robust steel structure, height-adjustable, and inclinable up to 45 degrees.
- **Vice:** Includes a vice with a maximum clamping capacity of 62 mm.
- **Laser:** Integrated positioning laser for precise drilling point alignment.
- **Outreach:** 105 mm outreach from the column to the chuck center.

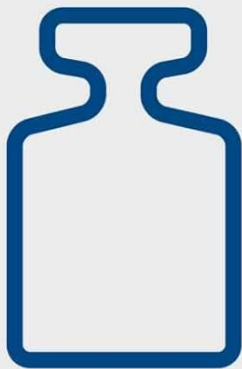
**Drilling table can be  
adjusted from +45° to -45°**



**Chuck capacity  
1.5 – 13 mm**



**Heavy weight ensures  
sturdy positioning**



**Powerful 500 W Motor**

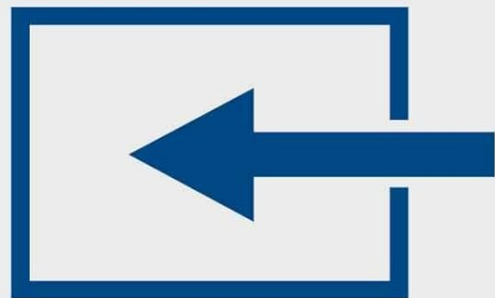


Image 2: Diagram illustrating ergonomic handle, precision laser, variable speed, and belt drive.

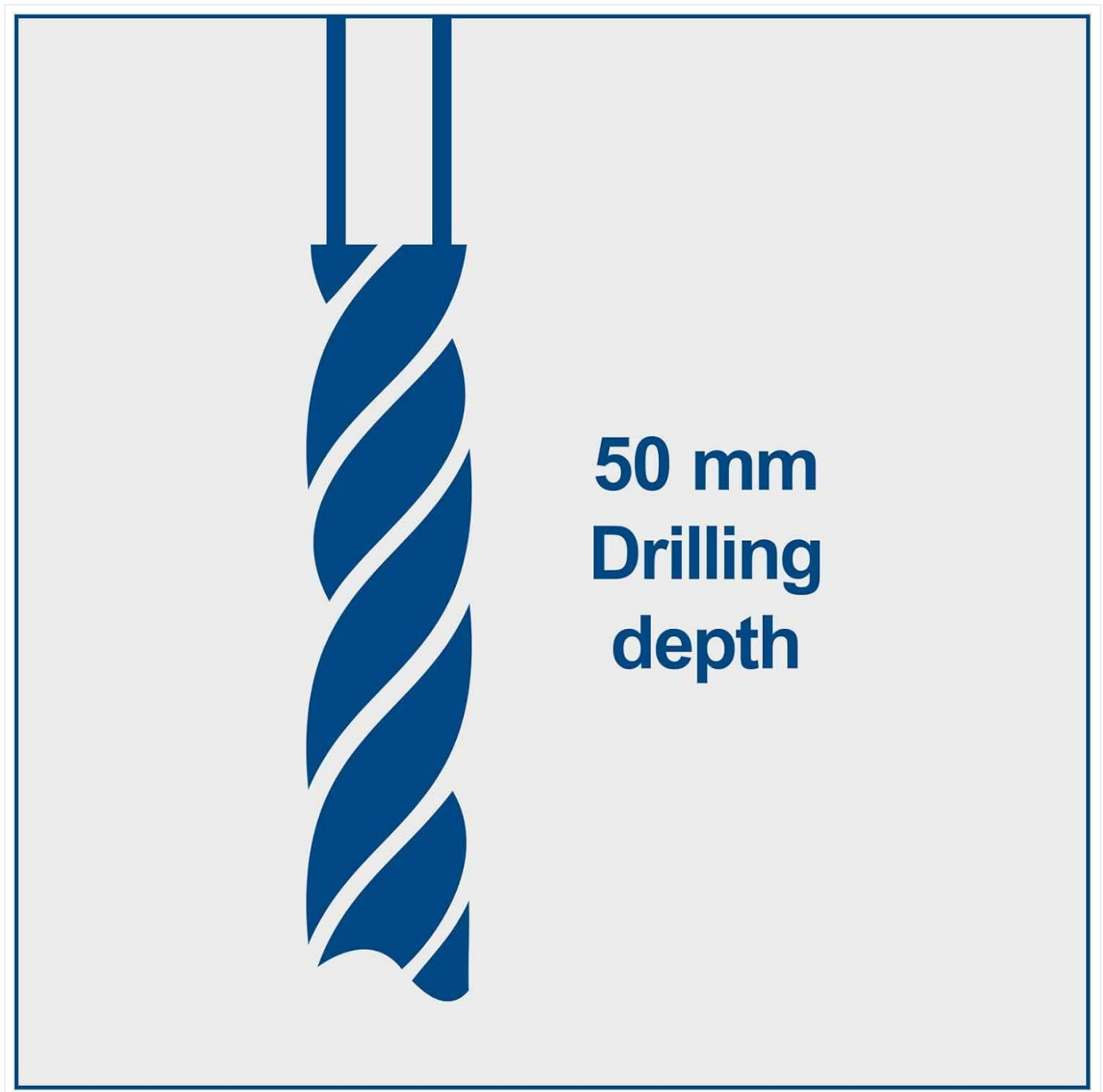


Image 3: Diagram illustrating adjustable drilling table, chuck capacity, heavy base, and 500W motor.

## 4. ASSEMBLY

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The Scheppach DP16VLS Pillar Drill is typically supplied partially disassembled. Follow these general steps for assembly. Refer to the detailed assembly diagrams in your product packaging for specific instructions.

1. **Base and Column Assembly:** Secure the main column to the stable base using the provided fasteners. Ensure all connections are tight.
2. **Table Assembly:** Attach the work table to the column, ensuring it can be adjusted vertically and rotated freely.
3. **Drill Head Assembly:** Mount the drill head assembly onto the top of the column. Connect any necessary electrical components as per the wiring diagram.
4. **Chuck Installation:** Install the drill chuck onto the spindle. Ensure it is seated correctly and securely.
5. **Handle and Vice:** Attach the feed handles and the included vice to the work table.
6. **Belt Installation:** If not pre-installed, install the drive belt between the motor and spindle pulleys. Adjust belt tension

as needed (refer to Maintenance section).

**Important: Before first use, verify all fasteners are securely tightened and all components are correctly aligned.**

## 5. OPERATING INSTRUCTIONS

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### 5.1 Preparing for Drilling

- **Select Drill Bit:** Choose the appropriate drill bit for the material and hole size. Insert it into the chuck and tighten securely with the chuck key.
- **Adjust Speed:** Open the belt cover and adjust the belt position on the pulleys to select the desired speed. Higher speeds are generally for smaller bits and softer materials, while lower speeds are for larger bits and harder materials. Close the belt cover before operation.
- **Adjust Work Table:** Loosen the table lock and adjust the work table height and angle as required for your workpiece. Re-tighten the lock securely. The table can be tilted from +45° to -45°.
- **Secure Workpiece:** Place the workpiece on the table and secure it firmly using the included vice or clamps. Ensure it cannot shift during drilling.
- **Set Drilling Depth:** Use the depth stop mechanism to set the desired drilling depth. This prevents drilling too deep.
- **Activate Laser:** Turn on the integrated laser guide to precisely align the drilling point.

# UNIVERSAL AND VERSATILE USE

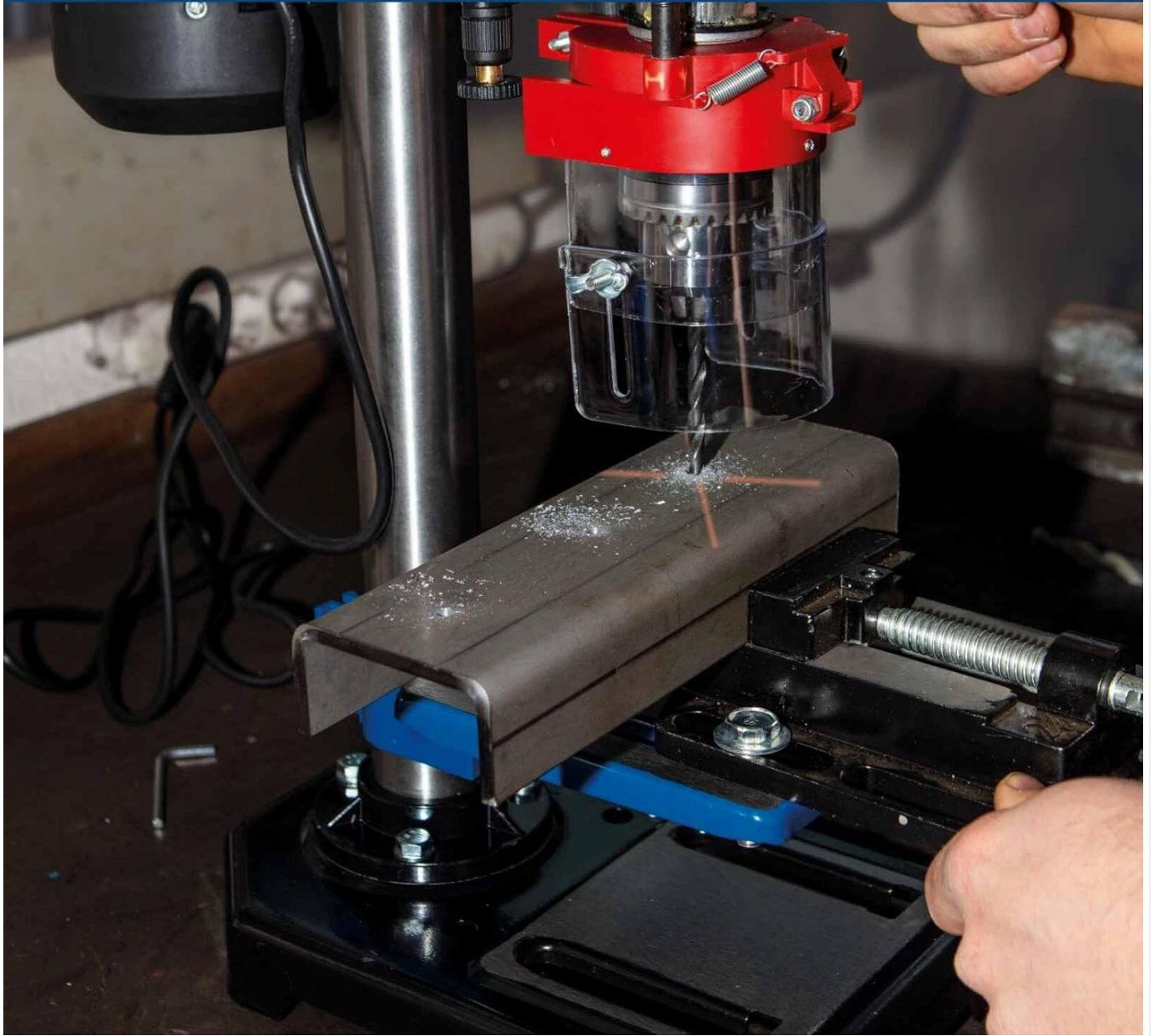


Image 4: User drilling into a wooden beam, demonstrating proper workpiece securing.



The drilling depth can be specified precisely using a scale so it can be reproduced.

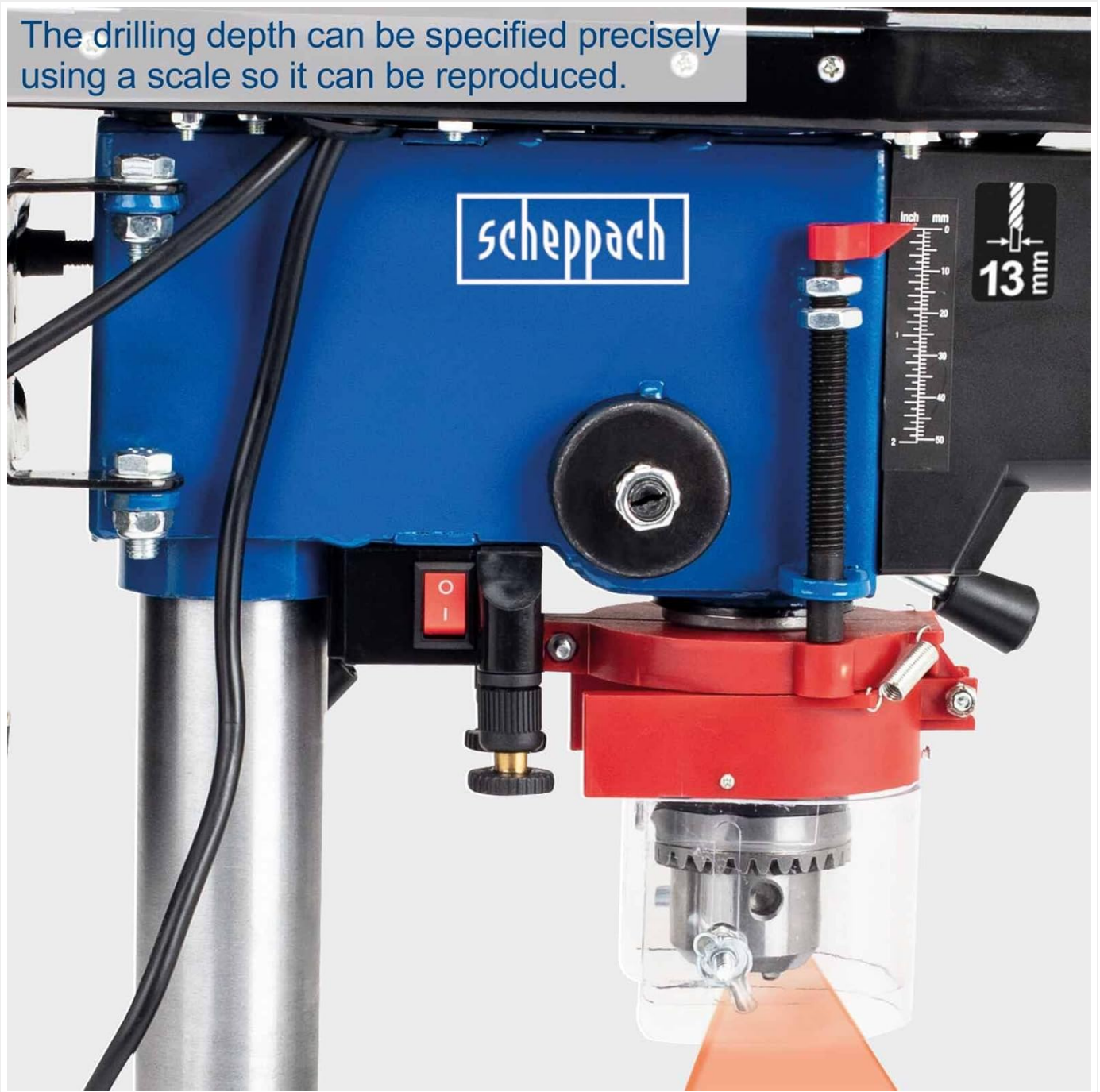


Image 5: User drilling into a metal workpiece secured by the included vice.





Image 6: Close-up of the depth scale and laser guide for precise control.

## 5.2 Drilling Procedure

1. Ensure all safety precautions are followed.
2. Turn on the drill using the power switch. Allow the motor to reach its operating speed.
3. Slowly lower the drill bit into the workpiece using the feed handles. Apply steady, even pressure.
4. Do not force the drill. If the motor slows significantly, reduce feed pressure.
5. Periodically retract the drill bit to clear chips, especially when drilling deep holes in metal.
6. Once the desired depth is reached, retract the drill bit completely from the workpiece.
7. Turn off the drill and wait for the chuck and drill bit to stop rotating before removing the workpiece or making adjustments.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your pillar drill.

- **Cleaning:** After each use, clean the machine of dust, chips, and debris. Use a brush or compressed air. Do not use solvents that may damage plastic parts.
- **Lubrication:** Periodically lubricate moving parts such as the column, spindle, and feed mechanism with light machine oil.

- **Belt Tension:** Check the drive belt tension regularly. A properly tensioned belt should have slight give when pressed. Adjust if too loose or too tight to prevent slippage or excessive wear.
- **Chuck Maintenance:** Keep the chuck jaws clean and free of debris. Lubricate the chuck mechanism occasionally.
- **Electrical Inspection:** Regularly inspect the power cord and plug for damage. If damaged, have it replaced by a qualified technician.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Scheppach DP16VLS Pillar Drill.

Problem	Possible Cause	Solution
Drill does not start	No power supply; Faulty switch; Motor overload.	Check power connection; Test switch; Allow motor to cool.
Motor stops during drilling	Excessive feed pressure; Dull drill bit; Incorrect speed for material.	Reduce feed pressure; Sharpen/replace drill bit; Adjust speed.
Excessive vibration/noise	Loose components; Unbalanced drill bit; Worn bearings; Loose drive belt.	Check and tighten all fasteners; Replace drill bit; Inspect bearings; Adjust belt tension.
Inaccurate drilling	Workpiece not secured; Loose chuck/drill bit; Laser misalignment.	Secure workpiece firmly; Re-tighten chuck/drill bit; Adjust laser alignment.
Drill bit wobbles	Bent drill bit; Improperly seated chuck; Damaged spindle.	Replace drill bit; Re-seat chuck; Contact service for spindle inspection.

## 8. SPECIFICATIONS

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Technical data for the Scheppach DP16VLS Pillar Drill.

- **Model Number:** DP16VLS
- **Manufacturer:** Scheppach
- **Article Code:** SCH5906810901
- **Product Dimensions:** 43.5 x 22 x 60 cm
- **Item Weight:** 14 kg
- **Material:** Steel
- **Color:** Blue
- **Finish:** Glossy finish
- **Power Source:** Corded Electric
- **Voltage:** 230 Volt
- **Wattage:** 500 Watt
- **Amperage:** 16 Ampere
- **Chuck Capacity:** 1.5 - 13 mm
- **Max Drilling Depth:** 50 mm
- **Speeds:** 5 (600-2650 rpm)
- **Max Rotation Speed:** 2650 rpm
- **Sound Level:** 84 Decibel

- **Cable Length:** 2000 mm
- **Max Distance Chuck to Table:** 170 mm
- **Max Distance Chuck to Base:** 250 mm
- **Table Tilt:** -45° to +45°
- **Included Components:** Pillar Drill, Vice



## EXAMPLES OF USE

### SUITABLE FOR PRECISE DRILLING IN

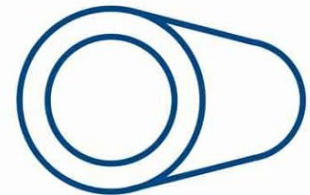
**Wood**



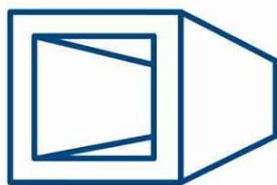
**Steel**



**Metal**



**Aluminium**



**Plastic**



Image 7: Diagram illustrating the 50 mm drilling depth capacity.

The tried-and-tested gearing principle using the chuck key guarantees high clamping force.

**DP16VSL**



**Traditional  
manufactures**



Image 8: Diagram showing suitable materials for drilling: wood, steel, metal, aluminum, plastic.

# UNIVERSAL AND VERSATILE USE

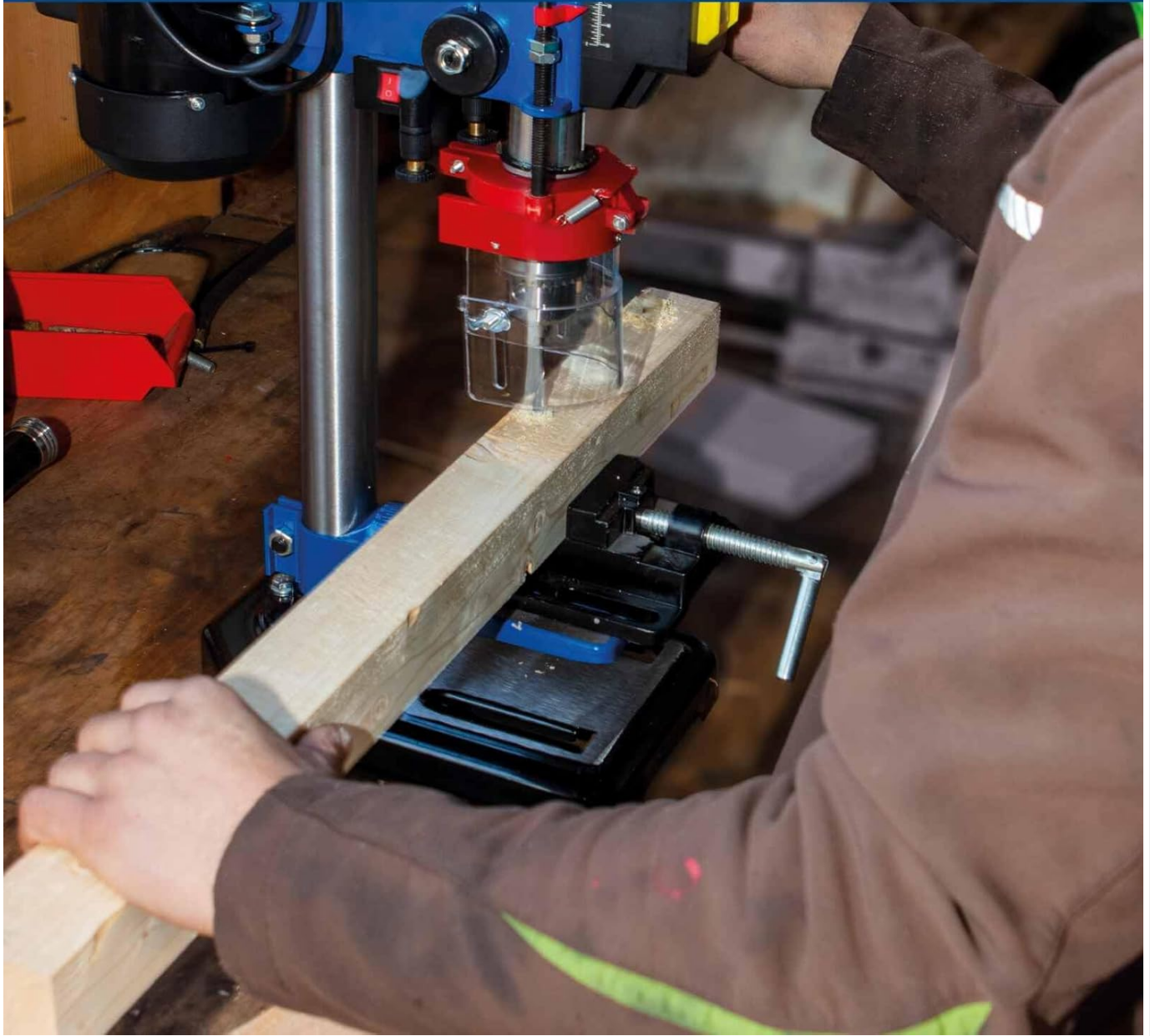


Image 9: Close-up of drill head showing 105 mm outreach from column to chuck center.

## 9. WARRANTY AND SUPPORT

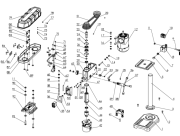

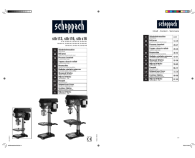



For warranty information, please refer to the documentation included with your purchase or contact Scheppach customer service directly. Keep your proof of purchase for any warranty claims.

For technical support, spare parts, or service inquiries, please contact your authorized Scheppach dealer or visit the official Scheppach website for contact details.



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	<p><a href="#">Scheppach DP16VLS Drill Press Spare Parts Diagram and List</a></p> <p>Detailed spare parts list and exploded view diagram for the Scheppach DP16VLS drill press, including part numbers, descriptions, and model information.</p>
	<p><a href="#">Scheppach DP16VLS Drill Press Operating Manual</a></p> <p>This document provides operating instructions and safety guidelines for the Scheppach DP16VLS drill press. It covers setup, usage, maintenance, and troubleshooting for this woodworking tool.</p>
	<p><a href="#">Scheppach STB T13, STB T16, STB S16 Ständerbohrmaschinen Bedienungsanleitung</a></p> <p>Dieses Dokument ist die offizielle Bedienungsanleitung für die Scheppach Ständerbohrmaschinen Modelle STB T13, STB T16 und STB S16. Es enthält detaillierte Informationen zu Montage, Inbetriebnahme, sicherer Verwendung und Wartung dieser leistungsstarken Holzbearbeitungsmaschinen.</p>
	<p><a href="#">Scheppach DH1600Max Bohrhämmer Bedienungsanleitung</a></p> <p>Umfassende Bedienungsanleitung für den Scheppach DH1600Max Bohrhämmer. Enthält Sicherheitshinweise, technische Daten, Bedienungsanleitungen und Wartungstipps für professionelle Ergebnisse.</p>
	<p><a href="#">Scheppach DP16SL Drill Press Operating Manual</a></p> <p>This document provides operating instructions, safety guidelines, and technical specifications for the Scheppach DP16SL drill press. Learn how to safely assemble, operate, and maintain your drill press for optimal performance.</p>
	<p><a href="#">Scheppach C-CD45-X Cordless Impact Drill - Operating Manual</a></p> <p>Comprehensive operating instructions and safety guide for the Scheppach C-CD45-X cordless impact drill, covering usage, maintenance, and technical specifications.</p>