

PILLAR DRILL MACHINE MANUAL



Vavdi Survey no. 28, Shivam Industrial Area, Street No.3 Plot No.7, Near Sunny Raj Metal,
Rajkot - 360004, Gujarat (India). Email us : sohamlathe@gmail.com

Technical Specifications:

Pillar/Column Type Drilling Machine	
Pillar/column type Drilling machine-25 mm capacity-motorized with drill chuck & key etc.	
Drill capacity	25mm
Spindle traverse	155mm
Spindle centre to column	255mm
Spindle nose to table	650mm
Spindle nose to base	1015mm
Column dia	74.5mm
Morse taper in spindle	MT -3
Table size	335 x 335mm
Base working area	290 x 330mm
No of speed	8
Motor	1440 Rpm with 1 hp
Belt size	B51/B52

Important Safety Considerations:

- Read and understand all instructions. Failure to follow all instructions may result in serious injury.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using the drill press. Always be aware of the environment and ensure that the drill press is used in a safe and responsible manner.
- DO NOT modify the drill press in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the drill press. There are specific applications for which the product was designed.
- DO NOT allow persons to operate or assemble the drill press until they have read this manual and have developed a thorough understanding of how it works.

WORK AREA SAFETY:

- Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well lit. Cluttered, wet, or dark work areas can result in injury. Using the tool in confined work areas may put you dangerously close to other cutting tools and rotating parts.
- Do not use the drill press where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gases, or dust. The drill press can create sparks, which may ignite the dust or fumes.

PERSONAL SAFETY:

- Stay alert, watch what you are doing, and use common sense when operating the drill press. Do not use the drill press while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the drill press may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can get caught.

ELECTRICAL SAFETY:

- Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
- Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
- Do not allow the product to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.

DRILL PRESS USE AND CARE:

- Do not force the tool. Tools do a better and safer job when used in the manner for which they are designed. Plan your work, and use the correct tool for the job.
- Check for damaged parts before each use. Carefully check that the tool will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the tool with a damaged part.
- Do not use a tool with a malfunctioning switch. Any power tool that cannot be controlled with the power switch is dangerous and must be repaired by an authorized service representative before using. Disconnect the power/air supply from the product and place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally
- Use only accessories that are recommended by the manufacturer for use with your tool. Accessories that may be suitable for one tool may create a risk of injury when used with another tool. Never use an accessory that has a lower operating speed or operating pressure than the tool itself.

Operating Instructions:

To avoid injury from accidental starting, always turn the switch OFF and unplug the drill press before installing or removing any accessory or attachment or making any adjustment.

Always wear safety goggles when operating the drill.

Installing a Drill Bit For key-type drill chuck

With the switch "OFF", open the chuck jaws using the chuck key. Turn the chuck key counterclockwise to open the chuck jaws. Insert the drill bit into the chuck far enough to obtain maximum gripping by the jaws, but not far enough to touch the spiral grooves (flutes) of the drill bit when the jaws are tightened. Make sure that the drill is centered in the chuck. Turn the chuck key clockwise to tighten the jaws. When fully tightened, remove the chuck key.

For self-tighten drill chuck

Rotate the chuck body B and the cap A in opposite directions by your hands, then the chuck jaws C will be opened or closed. Open the chuck jaws and insert the smooth end of drill bit in the chuck as far as it will go. Close the chuck jaws to secure the drill bit.

Positioning the Workpiece

To prevent the workpiece or backing piece from tearing from your hands while drilling, you MUST position it against the LEFT side of the column. Failure to do this could result in personal injury.

Using a Vise

For a small workpiece that cannot be clamped to the table, use a drill press vise. The vise must be clamped or bolted to the table.

After Each Use:

Disconnect the power cord,

Clear the scrap iron,

Clean the surface,

Add anti-rust oil onto the metal surface of workbench, baseboard, column and main spindle quill.