Baileigh DP-1250VS-HS Drill Press

1. General Info

Purpose:
Designed for high-speed, variable-speed drilling in metal and compatible materials. Ideal for industrial fabrication, maintenance, and precision drilling tasks. Features include digital RPM readout, MT3/MT4 spindle taper, and adjustable table height.

> Baileigh DP-1250VS-HS Drill Press User's Manual

Key Components:

- Control Panel – Houses power switch, RPM controls, and digital readout.
- Emergency Stop Button – Instantly halts machine operation.
- Drill Head – Contains motor, spindle, and gear selector.
- Table – Adjustable height; supports workpiece.
- Column & Gear Rack – Supports vertical movement of table and head.
- Chuck & Spindle – Accepts tooling; MT3/MT4 taper.
- Coolant System – Optional pump for cooling during cutting.

2. Safety

Quick Safety Precautions

- Wear Eye Protection – Safety glasses required; hearing protection recommended.
- Keep Hands Clear – Avoid contact with rotating tooling.
- Secure Workpiece – Clamp securely to prevent movement.
- Avoid Loose Clothing – Tie back hair; remove jewelry.
- Locate emergency stop.
- Never Leave Running Machine Unattended – Wait for full stop before walking away.

3. Setup & Use

Preparation

- Inspect machine for damage or wear.
- Remove tools/wrenches from table and chuck area.
- Select and install appropriate drill bit.
- Adjust table height and position for workpiece.
- Secure work piece to table using vice, angle vice, clamps, fixture or other working holding. **All work pieces should be secured to the table.**
- Lock table and head securely.
- Use a sacrificial board if drilling through work piece. **Do not drill into Drill Press tables.**
- Set spindle speed using digital RPM control. To Find RPM 3.82 x SFM / Diameter of drill.

Operation

- Keep clear of rotating components.
- Turn on power and allow spindle to reach full speed.
- Monitor RPM readout for correct speed range.
- Lower spindle using feed handle.
- Apply steady pressure; do not force the tool. Use Peck Drilling as necessary.
- Retract spindle after completing hole.

Post Operation

- Turn off power.
- Wait for spindle to stop completely.
- Clean table and remove chips or debris.

4. Maintenance Schedule

Weekly

- Clean drill press surfaces and remove metal chips.
- Inspect tooling and chuck for wear.
- Check guard and limit switch operation.

Monthly

- Lubricate feed handles and gear rack.
- Inspect spindle taper and chuck alignment.
- Verify RPM control and digital readout accuracy.

Quarterly

- Deep clean motor housing and electrical enclosure.
- Inspect belt and gear selector mechanism.
- Review user manual for updates and perform full inspection.

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