Holzmann ZS 40HS

Holzmann ZS 40HS Geared Head Drill Press

Model: ZS 40HS

1. Introduction

Thank you for choosing the Holzmann ZS 40HS Geared Head Drill Press. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your machine. Please read this manual thoroughly before operating the drill press to ensure proper use and to prevent injury or damage.

Safety Information: Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and suitable work attire. Ensure the machine is properly grounded and disconnected from the power supply before performing any adjustments or maintenance. Keep the work area clean and well-lit. Do not operate the machine under the influence of drugs or alcohol.

2. Package Contents

Upon unpacking, please verify that all components are present and undamaged. If any parts are missing or damaged, contact your supplier immediately.

- Holzmann ZS 40HS Geared Head Drill Press unit
- Drill chuck 16 mm
- Reduction sleeve MK4/3
- Reduction sleeve MK3/2
- Drift key
- Drawbar M12
- Operating Manual

3. Setup and Assembly

The Holzmann ZS 40HS drill press requires proper assembly and installation to ensure stability and safe operation. Position the machine on a solid, level surface capable of supporting its weight (approximately

350 kg gross weight). Secure the base plate to the floor if necessary.

3.1 Component Overview

An image showing the complete Holzmann ZS 40HS geared head drill press, highlighting its main components including the motor, drill head, column, work table, and base.

3.2 Work Table Adjustment

The large cast iron work table can be adjusted for height and swivel. Use the crank handle to raise or lower the table to the desired working height. Loosen the locking mechanism to swivel the table around the column. Ensure the table is securely locked in position before starting any operation.

3.3 Drill Head Adjustment

The drill head can also be swiveled and adjusted for height, offering high flexibility for various drilling and milling tasks. Loosen the appropriate locking bolts to adjust the head position, then tighten them firmly.

3.4 Chuck Installation

Insert the appropriate reduction sleeve (MK4/3 or MK3/2) into the spindle taper. Then, insert the 16mm drill chuck into the reduction sleeve. Ensure a firm fit. To remove, use the provided drift key.

4. Operating Instructions

4.1 Power Connection

Connect the machine to a 400V power supply. Ensure the power switch is in the 'OFF' position before connecting. The machine features a powerful 1100W (S1) / 1500W (S6) motor.

4.2 Speed Selection

The ZS 40HS features an oil bath gearbox with ground and hardened gears for speed selection. Refer to the speed chart on the machine for appropriate RPM settings (95-1600 rpm) based on material and drill bit size. Change speeds only when the machine is stopped.

4.3 Workpiece Clamping

Always secure the workpiece firmly to the work table using clamps or a vise. The T-slot guides (14 mm) on the drill table are designed for this purpose. Never hold the workpiece by hand during operation.

4.4 Drilling Operation

1. Select the appropriate drill bit and secure it in the chuck.
2. Adjust the work table and drill head to the desired position.
3. Set the spindle speed according to the material.
4. Lower the spindle using the three-arm lever or the precision handwheel for fine adjustment. The depth scale assists in precise depth control.
5. Engage the motor by pressing the 'ON' button.
6. Carefully feed the drill bit into the workpiece. Do not apply excessive force.
7. Once drilling is complete, retract the spindle and switch off the motor.

4.5 Tapping Function

The machine is equipped with an automatic tapping device and left-right spindle rotation. Follow the specific instructions for tapping operations, ensuring the correct tap and speed are used.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Holzmann ZS 40HS drill press. Always disconnect the machine from the power supply before performing any maintenance.

5.1 Cleaning

After each use, clean the machine thoroughly. Remove chips and debris from the work table, column, and drill head. Use a brush or vacuum cleaner; never use compressed air as it can embed chips into moving parts.

5.2 Lubrication

The gearbox operates in an oil bath. Regularly check the oil level and replenish or replace as needed, following the manufacturer's recommendations for oil type and frequency. Lubricate all moving parts, such as the column and spindle, with appropriate machine oil.

5.3 Chuck Care

Keep the drill chuck clean and free of rust. Periodically apply a light coat of oil to the jaws to ensure smooth operation. Inspect the chuck for wear or damage and replace if necessary.

5.4 Inspection

Regularly inspect all bolts, nuts, and fasteners for tightness. Check the power cord for any signs of damage. Ensure the plexiglass chuck guard is intact and functioning correctly.

6. Troubleshooting

This section addresses common issues you might encounter with your drill press. For problems not listed here, or if solutions do not resolve the issue, contact qualified service personnel.

Problem	Possible Cause	Solution
Motor does not start	No power supply; Emergency stop engaged; Overload protection tripped	Check power connection; Reset emergency stop; Reset overload protection
Excessive vibration	Unbalanced drill bit; Loose components; Machine not stable	Replace or re-seat drill bit; Tighten all fasteners; Secure machine to floor
Inaccurate drilling	Loose chuck or drill bit; Worn spindle bearings; Workpiece not clamped securely	Ensure chuck and bit are tight; Inspect/replace bearings; Clamp workpiece firmly
Difficulty changing speeds	Machine not fully stopped; Gearbox issue	Ensure machine is completely stopped before changing gears; Consult service manual

7. Technical Specifications

Feature	Specification
Model	ZS 40HS
Motor Power (S1/S6)	1100 W / 1500 W
Voltage	400 V
Max. Drilling Capacity (Steel/Wood)	40 mm / 40 mm
Spindle Taper	MK4 / MT4
Spindle Speed Range	95 - 1600 rpm
Spindle Stroke	120 mm
Max. Distance Spindle to Table	380 mm
Max. Distance Spindle to Base Plate	1230 mm
Work Table Size	575 x 354 mm
Column Diameter	115 mm
Overall Dimensions (L x W x H)	57.5 x 35.4 x 212 cm
Net Weight	310 kg
Material	Metal

8. Warranty and Support

For warranty information, please refer to the terms and conditions provided at the time of purchase or contact your authorized Holzmann dealer. For technical support, spare parts, or service inquiries, please contact your supplier or the Holzmann customer service department. Always provide the model number (ZS 40HS) and serial number of your machine when seeking assistance.