RIDGID 15682

RIDGID 15682 Model 300 Power Drive Complete Pipe Threading Machine User Manual

Comprehensive Instructions for Setup, Operation, and Maintenance

1. Introduction

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your RIDGID 15682 Model 300 Power Drive Complete Pipe Threading Machine. Please read these instructions thoroughly before operating the machine to ensure proper use and to prevent injury or damage.
The RIDGID Model 300 Power Drive is designed for accurately centering, gripping, and rotating pipe, conduit, and rod to facilitate rapid and efficient cutting, threading, and reaming. It is suitable for both threading and roll grooving applications.

2. Safety Information

WARNING: Always follow all safety precautions to prevent serious injury or death. Read and understand all instructions before use.

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Securely anchor the machine and workpiece before operation.
- Keep hands and clothing clear of moving parts.
- Disconnect power before performing any maintenance or adjustments.
- Use only genuine RIDGID replacement parts and accessories.
- Do not operate the machine in wet conditions or in the presence of flammable liquids or gases.

3. Package Contents

The RIDGID 15682 Model 300 Power Drive Complete package includes the following components:

- RIDGID Model 300 Power Drive Machine
- 1206 Stand with integral locking tray and folding legs
- 1452 Clip-on tool tray
- 311 Carriage with lever
- 341 Reamer
- 360 Cutter Assembly (with F-3 wheel and E-1032 cutter wheel)
- 811A 1/8" - 2" NPT Universal, Quick-Opening Die Head, RH
- 47745 - 1/2" - 3/4" Universal Alloy Die Set
- 47750 - 1" - 2" Universal Alloy Die Set
- 418 Oiler with one gallon of premium thread cutting oil
- 32 Transporter (transport wheels)
- Footswitch

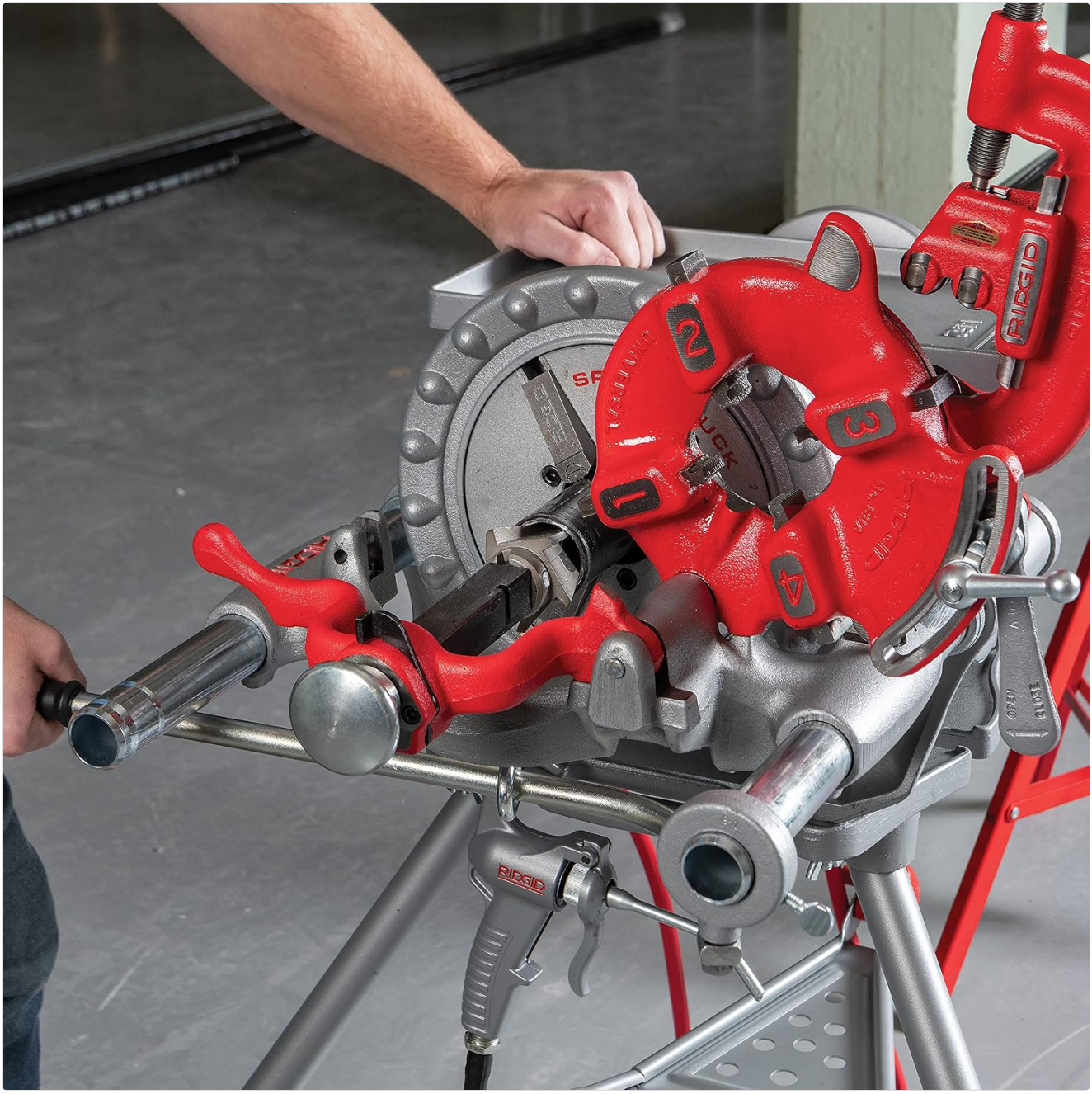


Figure 1: Exploded view of the RIDGID Model 300 Power Drive Complete, illustrating various components such as the die head, cutter, reamer, carriage, stand, oiler, and transporter.

4. Setup

The RIDGID Model 300 Power Drive is designed for easy setup and transportation. Follow these steps to prepare your machine for operation:

1. **Assemble the Stand:** Unfold the legs of the 1206 Stand and ensure they are securely locked into place. The stand features an integral locking tray for stability.
2. **Mount the Machine:** Carefully place the Model 300 Power Drive machine onto the stand, ensuring it is stable and properly seated.
3. **Attach Tool Tray:** Secure the 1452 Clip-on tool tray to the stand for convenient access to tools and accessories.
4. **Install Carriage and Components:** Attach the 311 Carriage with lever, 341 Reamer, 360 Cutter, and 811A Die Head to their respective positions on the machine.
5. **Connect Oiler:** Ensure the 418 Oiler is properly connected and filled with premium thread cutting oil.
6. **Power Connection:** Connect the footswitch and power cord to a grounded 115 Volt AC power source.
7. **Transportation (Optional):** For on-job movement, attach the 32 Transporter wheels to the stand.



Figure 2: The RIDGID Model 300 Power Drive set up with its stand and optional transport wheels, demonstrating its portability and ease of setup.

5. Operating Instructions

The RIDGID Model 300 Power Drive is equipped with a reversible 1/2 HP universal motor, operating at 38 RPM, and a RIDGID speed chuck for efficient pipe processing.

1. **Secure the Workpiece:** Insert the pipe, conduit, or rod into the speed chuck. Ensure it is accurately centered and gripped securely.
2. **Select Operation:** Position the appropriate tool (cutter, reamer, or die head) for the desired operation (cutting, reaming, or threading).
3. **Adjust Die Head:** For threading, select the correct die set (1/2"-3/4" or 1"-2" universal alloy dies) and adjust the 811A quick-opening die head as needed.
4. **Engage Power:** Use the footswitch to activate the motor. The machine features a Forward/Off/Reverse switch for directional control.
5. **Perform Operation:** Guide the carriage to engage the tool with the workpiece. The carriage is designed to securely hold threading tools and glide smoothly on heavy-duty support bars. Ensure continuous lubrication with thread cutting oil during threading.

6. **Monitor Progress:** Observe the process to ensure clean, precise results. The machine's design facilitates quick and efficient cutting, threading, and reaming.
7. **Disengage Power:** Release the footswitch to stop the motor once the operation is complete.



Figure 3: A close-up view of the RIDGID Model 300 Power Drive in operation, demonstrating the precise engagement of the die head with a pipe for threading.



Figure 4: Detail of the RIDGID Model 300 Power Drive's motor and chuck, highlighting the 36 RPM spin rate and robust construction.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your RIDGID Model 300 Power Drive. Always disconnect the machine from the power source before performing any maintenance.

- **Cleaning:** After each use, clean the machine to remove metal shavings, oil residue, and debris. Use a brush or compressed air.
- **Lubrication:** Regularly check and replenish the thread cutting oil in the 418 Oiler. Ensure all moving parts are adequately lubricated as per the manufacturer's recommendations.
- **Die Head Inspection:** Inspect die sets for wear or damage. Replace worn dies to maintain thread quality.
- **Cutter Wheel Inspection:** Check the cutter wheel for sharpness and damage. Replace if dull or chipped.
- **General Inspection:** Periodically inspect all cables, connections, and mechanical components for signs of wear, damage, or loose fasteners. Tighten or replace as necessary.
- **Storage:** Store the machine in a clean, dry environment when not in use.

7. Troubleshooting

This section addresses common issues you might encounter with your RIDGID Model 300 Power Drive. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Machine does not start	No power supply, faulty footswitch, motor issue	Check power connection, inspect footswitch, contact service if motor is suspected.
Poor thread quality	Worn dies, insufficient lubrication, incorrect die adjustment	Replace dies, ensure adequate oil flow, adjust die head correctly.
Pipe slips in chuck	Chuck jaws worn or not tightened sufficiently	Ensure pipe is fully inserted and chuck is tightened. Inspect and replace chuck jaws if worn.
Excessive vibration/noise	Loose components, worn bearings, unbalanced workpiece	Check all fasteners, inspect bearings, ensure workpiece is properly supported.

8. Specifications

- **Model:** 15682
- **Brand:** RIDGID
- **Material:** Metal
- **Motor:** 1/2 HP Universal, Reversible
- **Speed:** 38 RPM
- **Power Source:** AC
- **Voltage:** 115 Volts
- **Wattage:** 200 watts
- **Pipe Threading Capacity:** 1/8 inch to 2 inches
- **Rod Threading Capacity:** 1/4 inch to 2 inches
- **Maximum Geared Threader Capacity:** 6 inches
- **Product Dimensions:** 46"L x 24"W x 16.25"H
- **Item Weight:** 212 Pounds
- **UPC:** 095691156822
- **Manufacturer:** Ridgid Tool Company

9. Warranty Information

RIDGID offers a Full Lifetime Warranty for this product. Should your tool ever malfunction from defects in workmanship or materials, RIDGID will repair or replace the tool free of charge. This warranty covers defects in material and workmanship for the life of the product.



Figure 5: RIDGID Full Lifetime Warranty badge, indicating coverage against material defects and workmanship.

10. Customer Support

For technical assistance, parts, or warranty claims, please contact RIDGID customer support. Refer to the official RIDGID website or product packaging for the most current contact information.

Online Resources: Visit the official RIDGID website for product manuals, FAQs, and service center locations.

Contact: Refer to your product registration card or the RIDGID website for specific customer service phone numbers and email contacts.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question