

[Manuals.plus](#) /

› [RATTMMOTOR](#) /

› RATTMMOTOR BJS-235 YZ Axis Power Feed Instruction Manual

RATTMMOTOR BJS-235

RATTMMOTOR BJS-235 YZ Axis Power Feed Instruction Manual

1. INTRODUCTION

Thank you for choosing the RATTMMOTOR BJS-235 YZ Axis Power Feed. This device is designed to enhance the precision and efficiency of your milling machine operations by providing automated movement along the Y and Z axes. This manual provides essential information for safe installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your power feed unit.

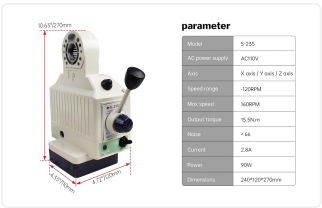
2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines to prevent injury and damage to the equipment:

- **Read the entire manual:** Understand all instructions and warnings before operating the power feed.
- **Wear appropriate personal protective equipment (PPE):** This includes safety glasses, gloves, and appropriate clothing.
- **Disconnect power:** Always disconnect the power supply to the milling machine and the power feed before performing any installation, maintenance, or adjustments.
- **Ensure stable mounting:** The power feed must be securely mounted to the milling machine table to prevent movement during operation.
- **Keep work area clear:** Maintain a clean and well-lit workspace. Remove any unnecessary tools or clutter.
- **Avoid overloading:** Do not exceed the specified torque or speed limits of the power feed.
- **Check for damage:** Inspect the power feed and its components for any signs of damage before each use. Do not operate if damaged.
- **Use correct voltage:** Ensure the power supply voltage matches the unit's requirements (110V).

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking. The package typically includes the following items:



parameter	
Model	S 235
AC power supply	AC100V
Axis	X axis / Y axis / Z axis
Control type	CRANK
Max speed	1000mm/min
Output torque	15.8Nm
Speed	1-14
Current	2.8A
Power	100W
Dimensions	240*120*230mm

Main Components: This image displays the primary components of the BJS-235 power feed, including the main unit, safety socket, connected coupling flange, bronze gear, small shaft, rubber gear, and connection block.



Component Dimensions: An illustration showing the dimensions of various parts such as the bronze gear, coupling flange, connection block, small shaft, and other mounting hardware.

- BJS-235 Power Feed Unit (YZ Axis)
- Safety Socket
- Connected Coupling Flange
- Bronze Gear
- Small Shaft
- Rubber Gear
- Connection Block
- Mounting Hardware (brackets, screws, washers, etc.)

4. PRODUCT OVERVIEW AND CONTROLS

The RATTMMOTOR BJS-235 Power Feed features intuitive controls for precise operation.



Main Unit with Controls: This image highlights the key operational controls on the power feed unit, including the control handle, rapid button, speed control knob, power switch, reset

button, and power indicator light.

Conversion handle



Conversion Handle:

Used to engage or disengage the power feed mechanism.

Rapid button



Rapid Button:

Activates a faster feed rate for quick positioning.

Speed control knob



Speed Control Knob:

Adjusts the feed rate from 0 to 120 RPM.

- **Control Handle:** Engages and disengages the power feed.
- **Rapid Button:** Provides a quick traverse speed for efficient positioning.
- **Speed Control Knob:** Allows for variable adjustment of the feed rate.
- **Power Switch:** Turns the unit ON or OFF.
- **Reset Button:** Resets the unit in case of an overload or fault.
- **Power Indicator Light:** Illuminates when the unit is powered on.

5. SPECIFICATIONS

Technical specifications for the RATMMOTOR BJS-235 YZ Axis Power Feed:

Parameter	Value
Model	BJS-235
Axis Compatibility	Y Axis, Z Axis
Power	90W
Voltage	110V
Current	2.8AMP
Speed Range	0-120 RPM
Maximum Speed	160 RPM
Torque	15.5 N.m (approximately 137 in-lb)
Weight	6 KG
Noise Level	< 66 dB
Dimensions (L x W x H)	240 x 120 x 270 mm (approx. 9.45 x 4.72 x 10.63 inches)
Power Source	AC/DC
Safety Feature	Special safety device to prevent damage from collisions

6. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of the power feed. Refer to your milling machine's manual for specific mounting points and procedures.

- 1. Prepare the Milling Machine:** Ensure the milling machine is turned off and unplugged. Clean the mounting surface on the Y or Z axis of your milling machine.
- 2. Mount the Power Feed Unit:** Position the BJS-235 power feed unit onto the designated mounting location on your milling machine. Use the provided connection block and mounting hardware to secure it firmly. Ensure the unit is level and aligned with the axis of travel.
- 3. Install Gears and Shafts:** Attach the bronze gear and rubber gear as per the diagram in the package contents. Install the small shaft, ensuring it properly engages with the milling machine's lead screw.
- 4. Connect Coupling Flange:** Secure the connected coupling flange to ensure a stable connection between the power feed and the lead screw.
- 5. Electrical Connection:** Connect the power feed to a 110V power outlet using the provided safety socket. Ensure all connections are secure.
- 6. Test Movement:** Before operating with a workpiece, manually move the axis to ensure smooth travel and proper engagement of the power feed.

7. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your power feed:

1. **Power On:** Flip the Power Switch to the 'ON' position. The Power Indicator Light should illuminate.
2. **Engage Power Feed:** Use the Control Handle to engage the power feed mechanism. This connects the motor to the milling machine's lead screw.
3. **Adjust Feed Rate:** Rotate the Speed Control Knob to set the desired feed rate. Start with a lower speed and gradually increase as needed for your machining operation. The speed range is 0-120 RPM.
4. **Rapid Traverse:** For quick positioning of the table, press and hold the Rapid Button. Release the button to return to the set feed rate.
5. **Monitor Operation:** Observe the cutting process and the power feed's movement. The unit is designed for stable performance, with minimal shaking even at low speeds.
6. **Safety Device:** The power feed is equipped with a safety device that protects the plastic gears and electronic parts in case of a sudden collision with the workpiece or instant direction change.
7. **Power Off:** After use, disengage the power feed with the Control Handle, then turn off the Power Switch.

8. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your power feed.

- **Cleaning:** Keep the unit clean and free from chips, dust, and debris. Use a soft brush or compressed air. Do not use harsh chemicals.
- **Lubrication:** Periodically check and lubricate moving parts as recommended by general milling machine maintenance practices. Do not use graphite-based grease.
- **Inspection:** Regularly inspect all cables, connections, and mounting hardware for wear or looseness. Tighten any loose fasteners.
- **Gear Check:** The plastic gears are designed for long life and quiet operation. While durable, inspect them for any signs of wear or damage.
- **Storage:** When not in use for extended periods, store the power feed in a clean, dry environment.

9. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Power feed does not turn on.	No power supply; Loose connection; Blown fuse/tripped breaker; Unit fault.	Check power outlet and cable. Ensure safety socket is properly connected. Check building's circuit breaker. Press the Reset Button. If issue persists, contact support.
Power feed runs but axis does not move.	Power feed not engaged; Lead screw not properly connected; Mechanical obstruction.	Ensure Control Handle is in the engaged position. Check connection between power feed shaft and milling machine lead screw. Clear any obstructions.
Inconsistent or jerky movement.	Insufficient lubrication; Loose mounting; Overload; Worn gears.	Lubricate moving parts. Tighten mounting bolts. Reduce load. Inspect gears for wear.
Unit stops unexpectedly.	Overload protection activated; Power interruption.	Reduce cutting load. Press the Reset Button. Check power supply.
Excessive noise during operation.	Lack of lubrication; Loose components; Worn gears.	Lubricate moving parts. Check and tighten all fasteners. Inspect gears for damage.

10. WARRANTY AND SUPPORT

RATTMMOTOR products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or contact your retailer. If you encounter any issues not covered in this manual or require technical assistance, please contact RATTMMOTOR customer support through the official website or your purchase platform.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

Open the live page

<https://manuals.plus/asin/B0GMHC369N>

More documents and user manuals: <https://manuals.plus/>