FTVOGUE M8

FTVOGUE 12V High Torque Dual M8 Shaft Worm Gear Motor Instruction Manual

Model: M8 | Reduction Ratio: 290

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your FTVOGUE 12V High Torque Dual M8 Shaft Worm Gear Motor. Please read these instructions thoroughly before use and retain them for future reference.

2. Product Overview

The FTVOGUE 12V High Torque Dual M8 Shaft Worm Gear Motor is designed for applications requiring precise and durable rotational movement. Key features include:

- **Dual M8 Screw Shafts:** Equipped with both right and left threads, suitable for relative and opposing flange movements, ensuring long service life and high precision.
- **Precision Steel Gears:** All gears are constructed from steel, offering accuracy, durability, and minimal power loss.
- **Quiet Operation:** Features a robust body and silent structure, resulting in low noise levels, making it suitable for various environments.
- **Copper Wire Coil:** Utilizes a copper wire coil for strong transmission and enhanced durability, resisting damage.

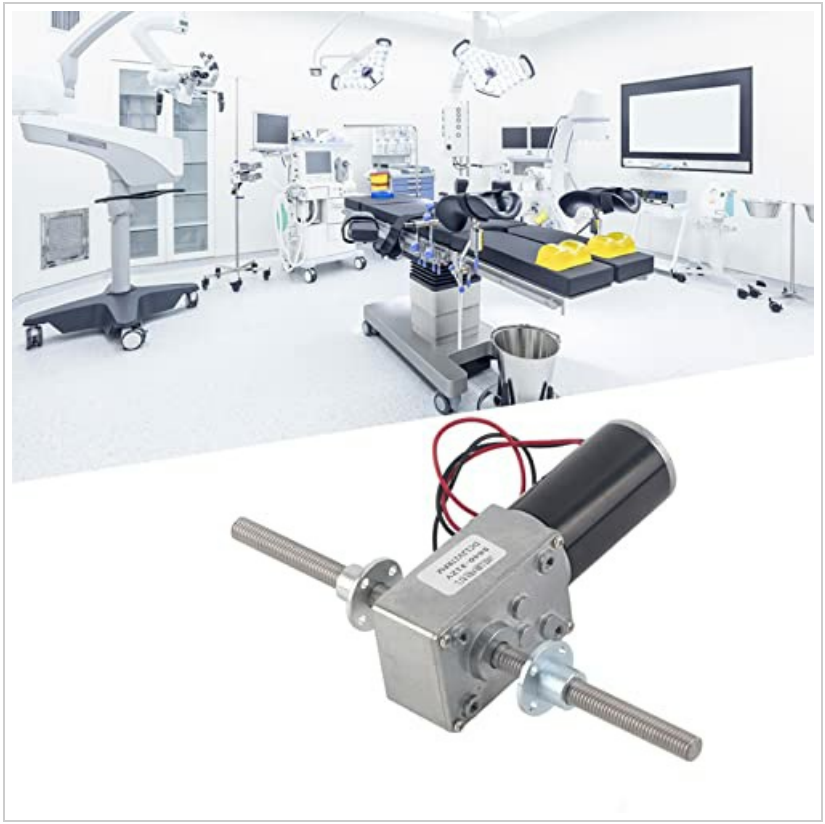

Image 1: FTVOGUE 12V High Torque Dual M8 Shaft Worm Gear Motor.

3. Safety Information

Observe the following safety precautions to prevent injury or damage to the motor:

- Ensure the power supply matches the motor's voltage (12V DC). Incorrect voltage can cause damage.
- Disconnect power before making any connections or performing maintenance.
- Avoid touching moving parts during operation.
- Do not expose the motor to excessive moisture, dust, or extreme temperatures.
- Mount the motor securely to prevent vibration and ensure stable operation.
- If unusual noises or smells occur, immediately disconnect power and inspect the motor.

4. Setup

Follow these steps for initial setup:

1. **Mounting:** Securely attach the motor to a stable surface using appropriate fasteners through the mounting holes on the gearbox. Ensure proper alignment to prevent strain on the shafts.
2. **Electrical Connection:** Connect the motor's red wire to the positive (+) terminal of a 12V DC power supply and the black wire to the negative (-) terminal. Ensure connections are firm and insulated. Reversing polarity will reverse the direction of rotation.
3. **Load Attachment:** Attach the desired load to the M8 threaded shafts. Ensure the load is balanced and does not exceed the motor's torque capacity. The dual threaded shafts allow for flexible attachment options.

Image 2: Motor with electrical connections visible.

5. Operating Instructions

To operate the motor:

1. **Power On:** Once all connections are secure and verified, apply 12V DC power to the motor.
2. **Direction Control:** The motor's rotation direction can be changed by reversing the polarity of the DC power supply.
3. **Speed Control:** The motor operates at a fixed speed (290 RPM at 12V). External speed controllers (not included) may be used if variable speed is required.
4. **Monitoring:** Observe the motor during initial operation for any unusual sounds, vibrations, or overheating.

Image 3: Top view of the motor, showing the dual M8 shafts.

6. Maintenance

Regular maintenance ensures optimal performance and longevity:

- **Cleaning:** Keep the motor free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using solvents or abrasive cleaners.
- **Inspection:** Periodically check all electrical connections for tightness and signs of wear. Inspect the shafts and gears for any damage or excessive play.
- **Lubrication:** The gearbox is typically pre-lubricated. Consult a professional if lubrication is required, as improper lubricants can cause damage.
- **Storage:** If storing the motor for an extended period, keep it in a dry, cool environment, protected from dust and direct sunlight.

7. Troubleshooting

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Motor does not start	No power, incorrect wiring, faulty power supply	Check power connections, verify power supply, ensure correct polarity.
Motor runs slowly or with reduced torque	Insufficient voltage, excessive load, internal friction	Verify 12V DC supply, reduce load, inspect for obstructions.
Unusual noise or vibration	Loose mounting, damaged gears, foreign object	Tighten mounting, inspect gears for damage, remove any obstructions.

Problem	Possible Cause	Solution
Motor overheats	Excessive load, continuous operation, insufficient ventilation	Reduce load, allow for cooling periods, ensure adequate airflow around the motor.

8. Specifications

Specification	Value
Brand	FTVOGUE
Model Name	M8
Voltage	12 Volts DC
Speed	290 RPM
Material	Copper (Coil)
Shaft Type	Dual M8 Screw Shaft (Right and Left Thread)
GTIN / UPC	738603272714
ASIN	B083ZDK2Z3
Manufacturer Reference	FTVOGUEa9ftb5pd7o-06

9. Warranty and Support

FTVOGUE products are manufactured to high-quality standards. For warranty information or technical support, please refer to the retailer where the product was purchased or visit the official FTVOGUE brand store online. Keep your purchase receipt for warranty claims.
For additional assistance, you may contact customer service through the platform of purchase.