

KING GATES Entre 24-400

Instruction Manual

KING GATES Entre 24-400 Irreversible Motor for Swing Gates

Model: Entre 24-400

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the KING GATES Entre 24-400 irreversible motor, designed for automating swing gates. Please read this manual carefully before beginning any installation or operation to ensure proper function and safety.

2. SAFETY INFORMATION

Always adhere to local safety regulations and standards during installation and operation. Failure to do so may result in serious injury or damage to property.

- Ensure the power supply is disconnected before performing any installation, maintenance, or repair work.
- Installation must be performed by qualified personnel in accordance with all applicable electrical and mechanical safety standards.
- Keep children and pets away from the gate area during operation.
- Do not operate the gate if any part of the system is damaged or malfunctioning.
- Regularly inspect the system for wear and tear, especially moving parts and electrical connections.

3. COMPONENTS OVERVIEW

The KING GATES Entre 24-400 motor system typically includes the following main components:



Image: The main motor unit for the KING GATES Entre 24-400, showing its robust housing and internal mechanism with a metal arm attachment. The unit is designed for underground installation.

- **Motor Unit:** The core irreversible electromechanical operator.
- **Foundation Box:** A robust casing for underground installation of the motor unit.
- **Release Mechanism:** For manual operation in case of power failure.
- **Control Board (Sold Separately):** Manages the motor's functions and safety features.
- **Remote Controls (Sold Separately):** For wireless operation.
- **Safety Photocells (Sold Separately):** Detect obstacles in the gate's path.

4. SETUP AND INSTALLATION

Installation of the Entre 24-400 motor requires careful planning and adherence to the following steps. Consult the detailed wiring diagrams provided with the control board for electrical connections.

1. **Site Preparation:** Excavate the necessary space for the foundation box at the gate's pivot point. Ensure proper drainage.
2. **Foundation Box Installation:** Securely embed the foundation box in concrete, ensuring it is level and aligned with the gate's hinge axis. Allow concrete to cure completely.
3. **Motor Unit Placement:** Carefully place the Entre 24-400 motor unit into the foundation box.
4. **Mechanical Connection:** Connect the motor's output shaft to the gate leaf using the appropriate mechanical arm and mounting brackets. Ensure smooth, unhindered movement of the gate.
5. **Electrical Connections:** Route all necessary electrical cables (power, control, safety devices) to the

motor unit and the control board. Connect according to the control board's specific wiring diagram. Ensure all connections are secure and insulated.

6. **Limit Switch Adjustment:** Adjust the mechanical or electronic limit switches to define the gate's open and closed positions accurately.
7. **Safety Device Connection:** Connect and test all safety devices, such as photocells and safety edges, to ensure they function correctly.
8. **Initial Testing:** Perform initial tests of the gate's movement, checking for smooth operation, correct opening/closing, and proper functioning of safety features.

5. OPERATING INSTRUCTIONS

Once installed and configured, the KING GATES Entre 24-400 motor provides automated gate operation. Operation is typically managed via a control board and remote controls.

- **Standard Operation:** Pressing the designated button on your remote control or wall switch will initiate the gate's opening or closing cycle. A second press during movement will typically stop the gate.
- **Partial Opening (Pedestrian Mode):** If configured, a specific button on the remote may open the gate partially for pedestrian access.
- **Manual Release:** In case of power failure or malfunction, locate the manual release mechanism on the motor unit (usually accessible via a key or lever). Engage the release to manually open or close the gate. Remember to re-engage the mechanism for automatic operation.
- **Safety Stop:** The gate will automatically stop or reverse if an obstacle is detected by the safety photocells during closing.

Note: No official product videos are available from the seller for this model.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your KING GATES Entre 24-400 motor. Perform these checks periodically:

- **Visual Inspection (Monthly):** Check for any visible signs of wear, corrosion, or damage to the motor unit, foundation box, mechanical arm, and cables.
- **Cleaning (Quarterly):** Keep the foundation box free of debris, leaves, and water to prevent blockages and corrosion. Ensure drainage is clear.
- **Lubrication (Annually):** Lubricate moving mechanical parts of the gate and the motor's arm connection points as recommended by the manufacturer (refer to specific product documentation for lubricant type).
- **Safety Device Test (Monthly):** Test the functionality of photocells and other safety devices by intentionally obstructing their path during gate operation. The gate should stop or reverse.
- **Electrical Connections (Annually):** With power disconnected, check all electrical connections for tightness and signs of corrosion.

7. TROUBLESHOOTING

Below are common issues and their potential solutions. If the problem persists, contact a qualified technician.

Problem	Possible Cause	Solution
Gate does not move.	No power; manual release engaged; faulty remote; safety device activated.	Check power supply; disengage manual release; check remote battery; clear safety device path.
Gate stops mid-cycle.	Obstruction detected by safety photocells; motor overheating; limit switch issue.	Remove obstruction; allow motor to cool; check limit switch settings.
Gate opens/closes partially.	Limit switches incorrectly set; mechanical obstruction.	Adjust limit switches; check for physical obstructions in gate path.
Remote control not working.	Dead battery; out of range; remote not programmed.	Replace battery; move closer to receiver; reprogram remote as per control board manual.

8. SPECIFICATIONS

- Manufacturer:** KING GATES
- Model:** Entre 24-400
- Type:** Irreversible Electromechanical Motor for Swing Gates
- Quantity of Items:** 1
- Batteries Included:** No
- Batteries Required:** No
- ASIN:** B01MYDJPFG
- Product Status:** Still produced by the manufacturer
- Spare Parts Availability:** Information unavailable

9. WARRANTY AND SUPPORT

Information regarding the specific warranty period and terms for the KING GATES Entre 24-400 motor is not available in the provided product details. Please refer to your purchase documentation or contact your retailer for warranty information.

For technical support, installation assistance, or spare parts inquiries, please contact an authorized KING GATES distributor or a qualified gate automation technician.