

# Gate operation and maintenance manual



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**IMPORTANT SAFETY INSTRUCTIONS**  
**WARNING - FOLLOWING THIS MANUAL IS IMPORTANT FOR**  
**THE SAFETY OF PERSONS**  
**PLEASE KEEP THIS MANUAL**

## 1. Intended use

***ATTENTION !!! This manual is intended for the gate user. It is necessary to read it carefully before the first activation of the gate. This manual includes essential information which guarantees safe use and proper maintenance of the gate. This manual must be kept throughout the entire period of use of the gate. In case of sale of the gate, it is necessary to pass this manual with the gate.***

The GARAROL system is a rolling shutter gate with vertical movement, the wing of which is comprised of many interconnected slats. It is intended for use in architecture as an external or internal enclosure of garage, trade, commercial facilities, etc., in residential, utility or manufacturing buildings. Appropriate inflow of air or influx of light can be obtained by using ventilation sections or glazing in the gate's curtain.

The rolling gate is not intended for use as a gate in hatches and docks or a gate intended mainly for animals, as doors in lifts (elevators) or vehicles, rotary or reinforced, as railway barriers or intended only for vehicles.

In its closed position, the gate is a tight vertical partition which ensures limitation of access for unauthorised personnel and protects from external atmospheric conditions. In its open position, it allows safe transit for vehicles and persons.

***ATTENTION!!! Openings and exits in emergency routes cannot include installed rolling gates in accordance with the Regulation of the Minister of Infrastructure on the technical conditions for buildings and their location (Polish Journal of Laws of 2002; Dz.U. no. 75 item 690, §240 (3)).***

# Types of rolling gates

## 1) in a shutter box 250/300/360 mm



## 2. Operation and maintenance

The gate and its components have been designed so that no part of it has been permanently deformed during normal use.

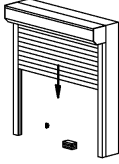
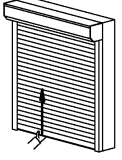
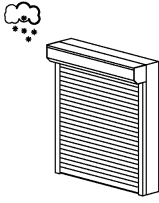
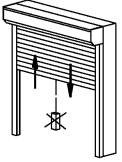

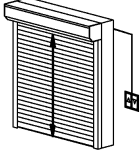
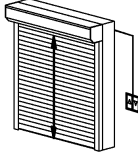
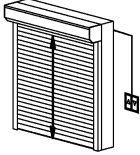
All gates are equipped with an electro-magnetic drive. They can be controlled via switches (button, rotary, key or “step-by-step”) or via radio.

During the use of the gate it is necessary to pay special attention to the following recommendations, which failure may lead to gate’s damage:

- the use of this gate is permitted only in the ambient temperatures between - 25°C and + 65°C
- gates with an electro-magnetic drive can only be used to work in intermittent motion. Continuous operation of the gate must not exceed 4 minutes. In case of exceeding the operating temperature, it automatically turns off for about 20 min.,
- the gate can be used up to 50 cycles of opening and closing for the day,
- when closing the gate it is necessary to make sure that there are no persons or objects present in curtain’s operation zone,
- it is necessary to clean the curtain from every pollution which can damage the varnished coating of the curtain during rolling up,
- loose base of the gate can significantly accelerate the damage of the varnished coatings of the gate’s elements,
- it is prohibited to open the gate in case of curtain’s strong icing it is prohibited to make repairs and modifications in the mechanisms and the structure of the gate, in case of incorrect gate’s operation it is necessary to contact the manufacturer immediately. Activities such as replacement of the gate’s elements or any change in its structure can only be executed by an authorised fitter.
- in case of failure of the gate’s hanging system it is necessary to stop the gate’s wing and keep it in this position until the maintenance service crew arrives.

## Guidelines regarding safe use of the gate with an electric drive

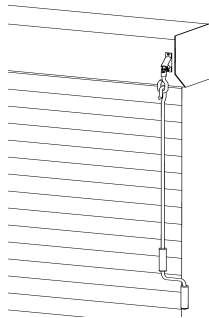
Drawings included in the description are exemplary drawings as this manual is used for various gate systems and types.

Zone		Improper operation of the gate	
<p>The gate's operation zone cannot be covered or blocked in any way.</p> <p><b>⚠ WARNING!</b> The gate's operation zone must not include any <b>persons or objects</b> which prevent its operation.</p>		<p>It is forbidden to move up the gate's curtain by hands or any tools.</p> <p><b>⚠ WARNING!</b> Attempts to move up the curtain lead to incorrect functioning of the gate or its <b>damage</b>.</p>	
Gate's operation during freezing cold		Gate's operation in discordance with its intended use	
<p>The gate can be covered with ice during freezing cold and snow. In such case it is prohibited to open and close the gate.</p> <p><b>⚠ WARNING!</b> The gate can only be used after <b>removal of the icing</b>.</p>		<p>It is prohibited to load the gate with addition weights.</p> <p><b>⚠ WARNING!</b> Any attempts of additional gate's load directly lead to its <b>damage</b>.</p>	
Procedure during winter		Access to the gate's operational elements	
<p>Switch automatic control devices off, if there is a risk of icing.</p> <p><b>ATTENTION:</b> If the gate's drive is equipped with an <b>overload protection</b> or obstruction detection system, it is necessary to switch off the automation.</p>		<p>It is prohibited to allow <b>children</b> to play with the remote control or the switch which operates the gate.</p> <p>The <b>remote control</b> must be protected from the access of children.</p> <p>The gate's control should only be executed by <b>authorised personnel</b></p>	
Use of a rotary or button switch		Use of a "step-by-step" switch	
<p>The gate moves in the selected direction (up - down) when:</p> <ul style="list-style-type: none"> <li>- we <b>press</b> the proper button of the button switch or remote control (up - down)</li> <li>- we <b>rotate</b> the knob of the rotary switch (right - left).</li> </ul> <p><b>⚠ WARNING!</b> The gate's curtain operation zone must not include any <b>persons or objects</b> which prevent its operation.</p>		<p>The gate moves in the selected direction (up - stop - down) when the button is <b>pressed</b>.</p> <p><b>⚠ WARNING!</b> The gate's curtain operation zone must not include any <b>persons or objects</b> which prevent its operation.</p>	

### 3. Emergency manual override

The emergency manual override is used only for emergency (manual) closure or opening of the gate in case of damage of one of the electrical system's elements or lack of power supply. Prior to use, it is necessary to switch the drive into the emergency operation mode in accordance with the attached drive manual.

Fig.6) Emergency manual override with the KRH handle



***ATTENTION!!! The emergency manual override must only be used in case of lack of voltage –use in any other case can lead to the motor and gate's damage.***

### 4. Maintenance and repairs

Simple maintenance activities can be executed by the gate's user without any special competencies. These activities consist of maintaining the purity of gate curtain and removing pollutions which gather in the guide channel. During this it is necessary to comply with the following principles:

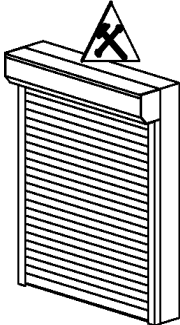
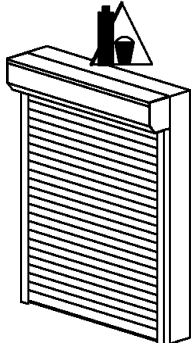
- maintenance activities must be executed when the gate is stopped and its power supply is cut off.
- do not use sharp or coarse tools to clean the gate.
- the gate's surface must be washed with water with the use of a small amount of mild cleaning agents with a neutral reaction (the activities must be executed in temperatures between 10°C and 25°C). The gate must be protected from aggressive or corrosive substances, e.g. mortar compounds of saltpetre, acid, lye or salt as well as from mechanical damage. Strong cleaning agents can cause corrosion or change in the colour of varnish.
- do not use any organic solvents which include esters, ketones, alcohols, aromas or chlorinated hydrocarbon materials and other cleaning agents with an unknown chemical composition.
- when removing grease stains (e.g. oils, slag) or remains of glues, adhesive silicone rubbers use agents without aromatised petroleum hydrocarbons.

**It is recommended to execute inspections comprising of controlling the completeness, condition and effectiveness of functioning of structural elements and electrical devices, control and security devices before the first activation and every 6 months after the first activation of the gate. All inspections, repairs or modifications must be documented with and entry in the Report Log attached to each gate.**

It is prohibited to make any changes in the delivered product as it may result in the loss of warranty and is hazardous for the correct operation.

Maintenance and repair works should be executed by the manufacturer's qualified maintenance service or his authorised representative.

**Maintenance and cleaning of the gate**

Maintenance		Cleaning	
<p>Regularly inspect all visible parts of the gate in terms of blockage or other type of damage. In case of detection of any damage or incorrectness in operation <b>do not repair</b> the gate, but contact the <b>service technician</b>.</p> <p><b>⚠ WARNING!</b>  <b>Keeping the gate supplied with power during maintenance activities executed in the vicinity of electrical connections may result in electrocution.</b></p> <p><b>ATTENTION:</b>  <b>Works related to electrical parts can only be executed by persons with appropriate authorisation.</b></p>		<p>It is recommended to execute regular cleaning of the gate's surfaces in order to ensure long-lasting durability. Use appropriate cleaning agents for cleaning.</p> <p><b>⚠ WARNING!</b>  <b>Keeping the gate supplied with power during cleaning executed in the vicinity of electrical connections may result in electrocution.</b></p> <p><b>ATTENTION:</b>            Any foreign objects and dirt must be removed regularly from the guide channels.</p>	

**NOTES:**

- The manufacturer is not responsible for damage which took place during improper operation and as result of wrong maintenance.
- All damage caused by a force majeure event, unusual atmospheric conditions or natural wear and tear will not be subject to claims. Natural wear and tear also includes wear and tear of the curtain's varnish coating which may include scratches after approx. 200 cycles.
- The condition for consideration of a claim is its reporting in a written form as well as provision of the purchase evidence.
- The manufacturer is not responsible for changes or corrections in the gate's structure and installation of additional elements which were not projected or consulted with the manufacturer in a written form.
- In case of necessity, the claimant is obligated to send the parts subject to replacement to the manufacturer.
- The manufacturer will not bear the costs related to the consideration of the claim.
- In case the claims are unjustified or in discordance with the warranty's conditions, the claimant will be encumbered with all the costs incurred by the manufacturer in relation to the considered claim.

## 5. Threats

The rolling gate is a product which in normal or other reasonably predictable conditions of use does not pose any hazard or poses minor hazard which is acceptable during normal use with consideration of high level requirements regarding the protection of safety, life and health.

Due to the fact that the primary task of the gate is opening and closing of a civil engineering opening, the gate's movement can pose a hazard for persons, goods and vehicles in its vicinity, which cannot be avoided by way of its structure.



**It is forbidden to::**

- **use a damaged gate,**
- **stay in an open gate's zone by persons, vehicles or other objects,**
- **move under the gate during its operation,**
- **activate the gate and store a remote control device in a location which is easily accessible by persons who require adult's supervision,**
- **execute an electrical works, modernise or disassemble by unqualified personnel,**

Impact of the method of use on the level of risk.

The gate's situation and the type of control can impact the level of risk. This level is increased if:

- the gate can be used by children, disabled or elderly persons,
- there is no way of training, instructing or supervising the gate's users,
- there is no way of appointing persons authorised to activate the gate (authorised persons)
- there is a high number of persons which are in contact with the gate,
- there is a high number of users and/or frequency of use,
- there is a high level of automation.

In contrast to the above, the level of risk is decreased if the gate is activated by a limited number of users, it is not equipped with automatic functions and it does not open directly to a public area.