IRONGATE MODEL

Automatic Swing Gate System

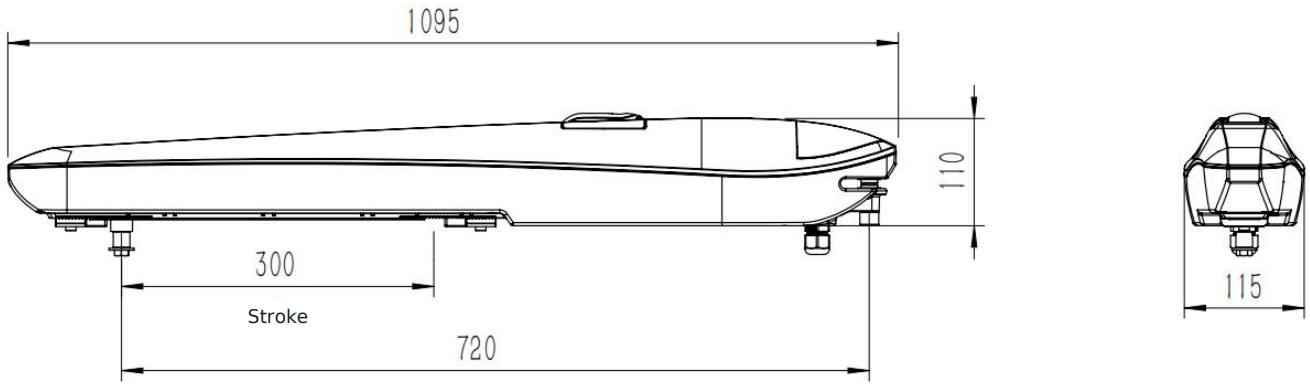
Linear actuator for hinged swing gates

Single- and double-leaf configurations

4.0 m	120°	IP44
MAX. LEAF WIDTH AT 500 kg	MAX. INWARD OPENING	OPERATOR ENCLOSURE

Operator dimensions

Side and end views / Dimensions in millimeters



Manual key release

Open the gate by hand with the motor stopped.

Adjustable travel limit

Set the opening stop using the built-in limit switch.

Safety accessories

Configure photocells and a flashing warning light.

Request a quotation 0917-104-2066 / irongatecity@gmail.com

Specify your swing gate system

Compare operator variants and check the limits for each gate leaf.

Operator variants

Specification	230 V AC	120 V AC	24 V DC
Frequency	50 Hz	60 Hz	DC
Nominal current	1.2 A	2.4 A	5 A
Rated power	150 W	150 W	120 W
Duty cycle	50%	50%	Continuous
Nominal travel time	15 s	15 s	12 s
Gear reduction	1:36	1:36	1:36
Capacitor	10 µF	30 µF	—
Enclosure rating	IP44	IP44	IP44
Operator weight	12.5 kg	12.5 kg	11.5 kg

Travel times apply at nominal supply under standard conditions.
Confirm supply voltage and frequency with IRONGATE when ordering.

Gate leaf limits

Leaf width	Max. weight per leaf
2.0 m	1,000 kg
2.5 m	800 kg
3.0 m	600 kg
4.0 m	500 kg

Opening and site fit

Inward opening up to 120°.
Outward opening up to 90° with a supplementary bracket.
Confirm hinge clearance, gate rigidity and a secure mechanical closing stop.
Ask about controls and safety devices.

Limits apply per leaf. Final selection depends on site conditions and gate geometry.

Talk to IRONGATE

GATE FABRICATION / AUTOMATION / ACCESS CONTROL

MAIN OFFICE / PLARIDEL, BULACAN
Warehouse A, Mataas Na Sampaloc, Bulihan
Plaridel, Bulacan 3004, Philippines

OFFICE & SALES
0917-104-2066 / 0917-855-3417
irongatecity@gmail.com

Satellite offices in Biñan, Laguna and Talavera, Nueva Ecija

IRONGATE MODEL

Installation & User Guide

Automatic Swing Gate System / External linear actuator

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IRONGATE support

Warehouse A, Mataas Na Sampaloc, Bulihan, Plaridel, Bulacan 3004, Philippines

0917-104-2066 / irongatecity@gmail.com / irongatecity.com

01 / SITE PREPARATION

Before installation

Check the gate, hinge clearance and safety provisions.

01 Verify that the gate structure is strong enough for the operator. The hinges should move freely, with clearance between moving and fixed parts.

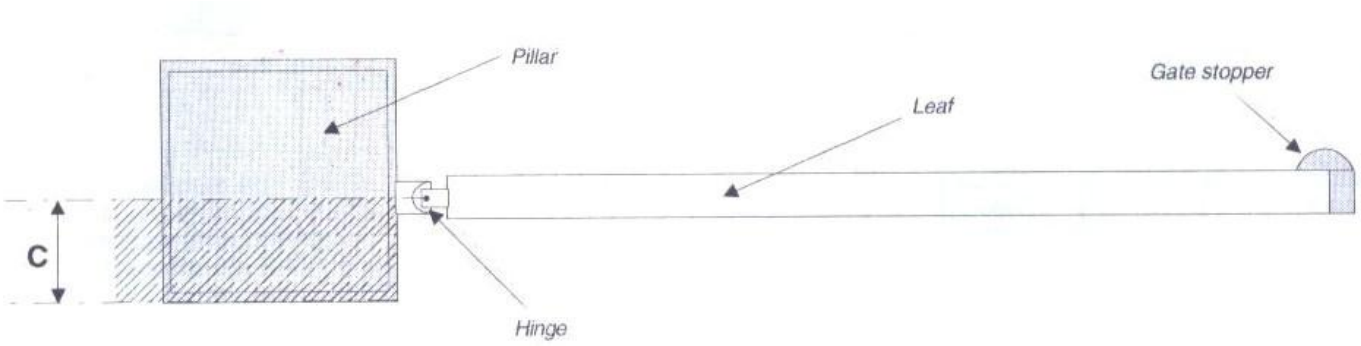
02 Check dimension C against the limit on page 07. If the pillar geometry exceeds that limit, have the mounting arrangement corrected before installation.

03 Plan the wiring routes around the positions of the controller and safety devices.

04 Provide a mechanical closing stop securely anchored to the ground. It prevents the gate and operator from moving past the correct closed position.

05 Keep accessories away from children. Never allow children to play with push buttons or remote controls. A closing gate can cause serious injury.

Pillar and closing-stop clearance



02 / SYSTEM LAYOUT

Standard system layout

Typical arrangement for a double-leaf swing gate.

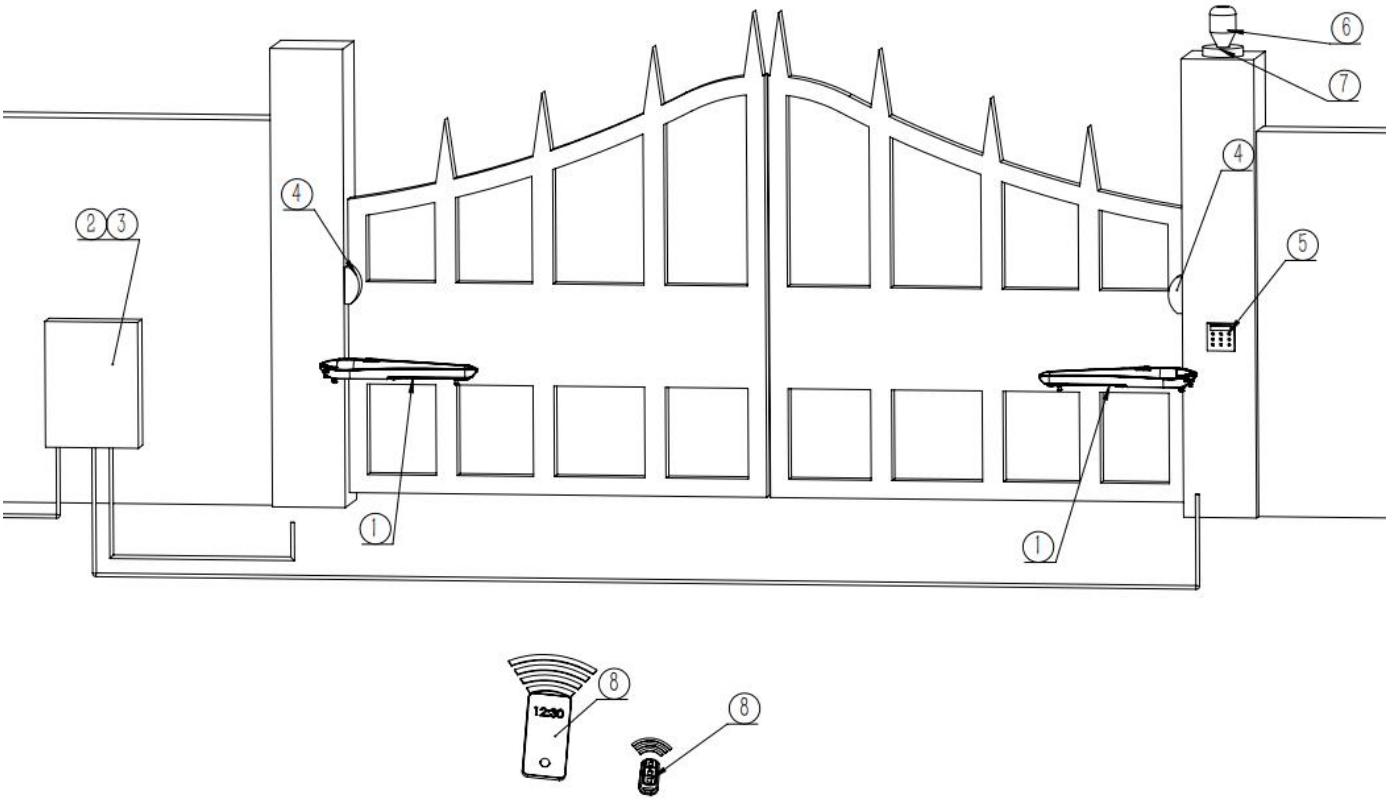


Diagram key

1. Non-backdrivable gear motor
2. Control panel
3. Radio receiver
4. Safety photocells
5. Key-operated selector switch
6. Antenna
7. Flashing movement warning light
8. Remote transmitter

Cable sizes shown in the manual

Microswitch wiring: 5 × 1 mm². Motor power wiring: 2 × 1.5 mm² up to 20 m, or 2 × 2.5 mm² up to 30 m.

03 / OPERATOR DATA

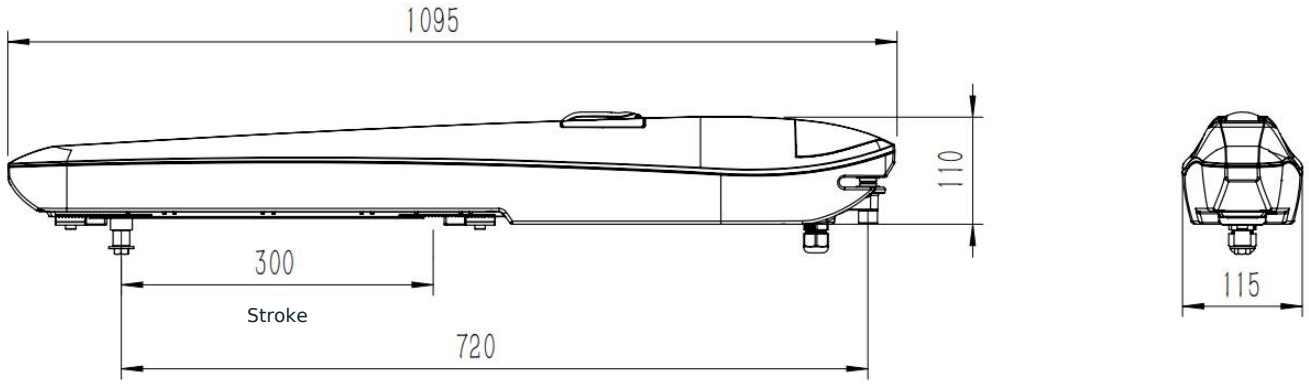
Technical data and dimensions

Nominal ratings for the available power variants.

Specification	230 V AC	120 V AC	24 V DC
Frequency	50 Hz	60 Hz	DC
Nominal current	1.2 A	2.4 A	5 A
Rated power	150 W	150 W	120 W
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Nominal travel time	15 seconds	15 seconds	12 seconds
Capacitor	10 µF	30 µF	—
Enclosure rating	IP44	IP44	IP44
Operator weight	12.5 kg	12.5 kg	11.5 kg

Ratings apply at nominal supply and under standard opening conditions. Adjustment depends on the control panel.

Operator dimensions in millimeters



04 / INWARD INSTALLATION

Gate limits and inward mounting

Select the operator and check mounting geometry for each gate leaf.

Gate leaf limits

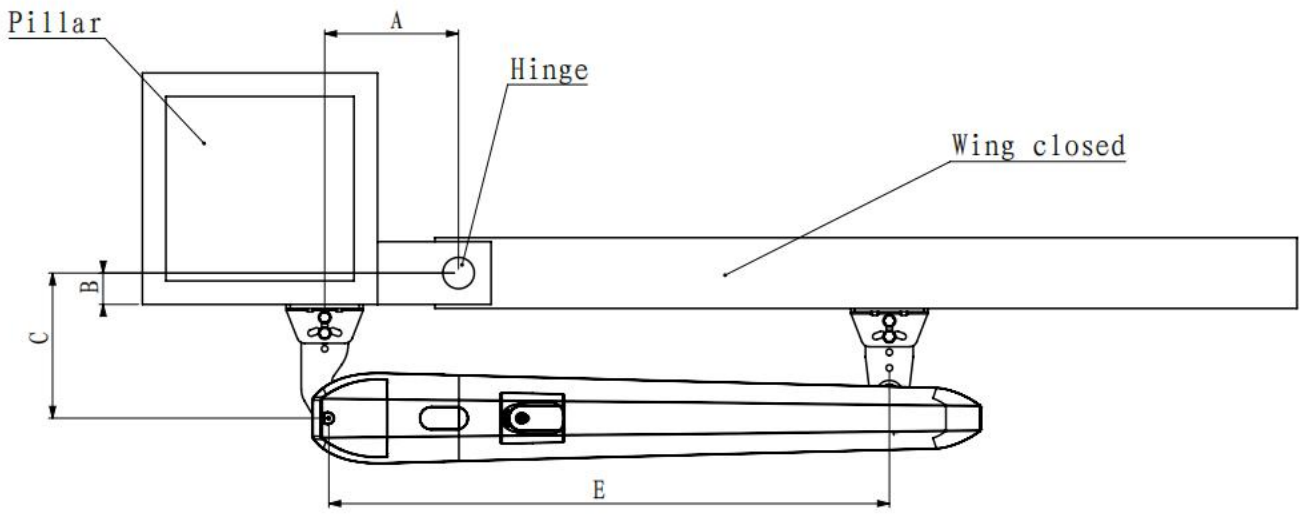
Leaf width	Max. weight per leaf
2.00 m	1,000 kg
2.50 m	800 kg
3.00 m	600 kg
4.00 m	500 kg

Mounting dimensions

Opening	A	B	C max.	E
90°	150	100	120	720
120°	150	80	70	720

Dimensions in millimeters.

Closed gate position



Check A, B, C and E using the illustrated hinge and bracket reference points. Confirm final dimensions on site before securing the mounting brackets.

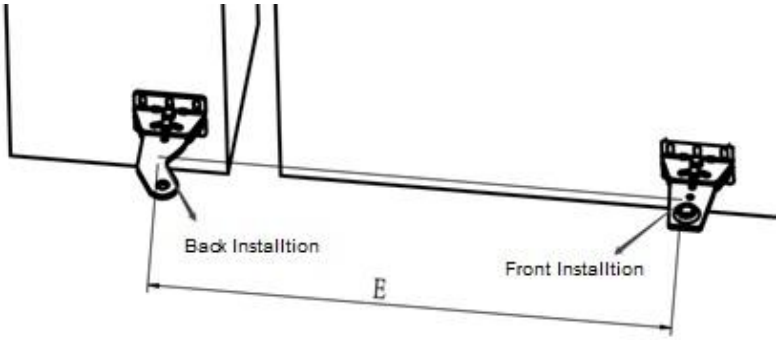
05 / BRACKETS & SWITCHES

Bracket alignment and limit switch

Align the mounting brackets, then set the opening stop.

Mount the front bracket

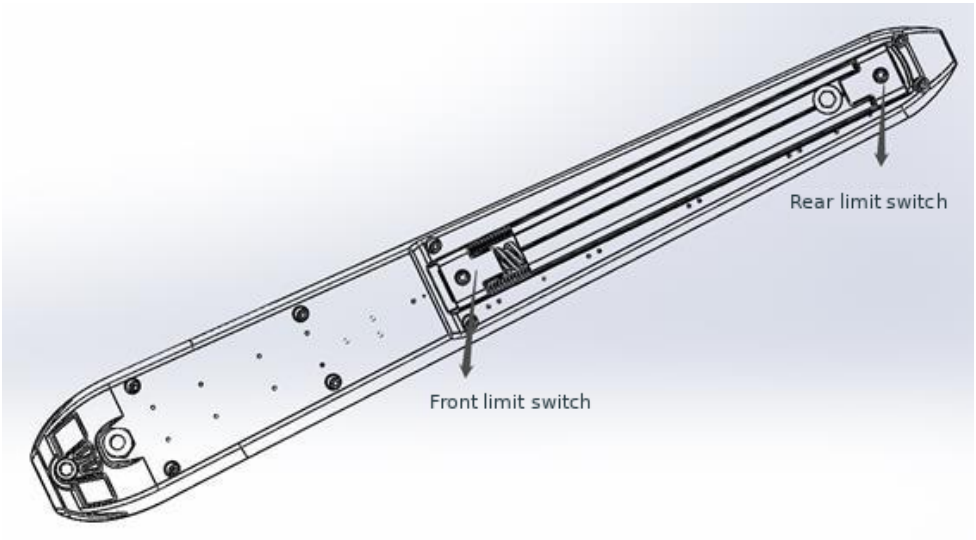
With the gate closed, fasten the fixing plate and front bracket to the gate leaf. Align the fixing plate horizontally with the rear bracket and observe dimension E. Apply neutral grease to the worm gear and washer during installation.





Adjustment hole

Adjust the opening limit switch



01 Release the gear motor and move the gate to the desired fully open position.

02 Loosen the switch screws. Slide the switch along its support rod until the actuator runner triggers it.

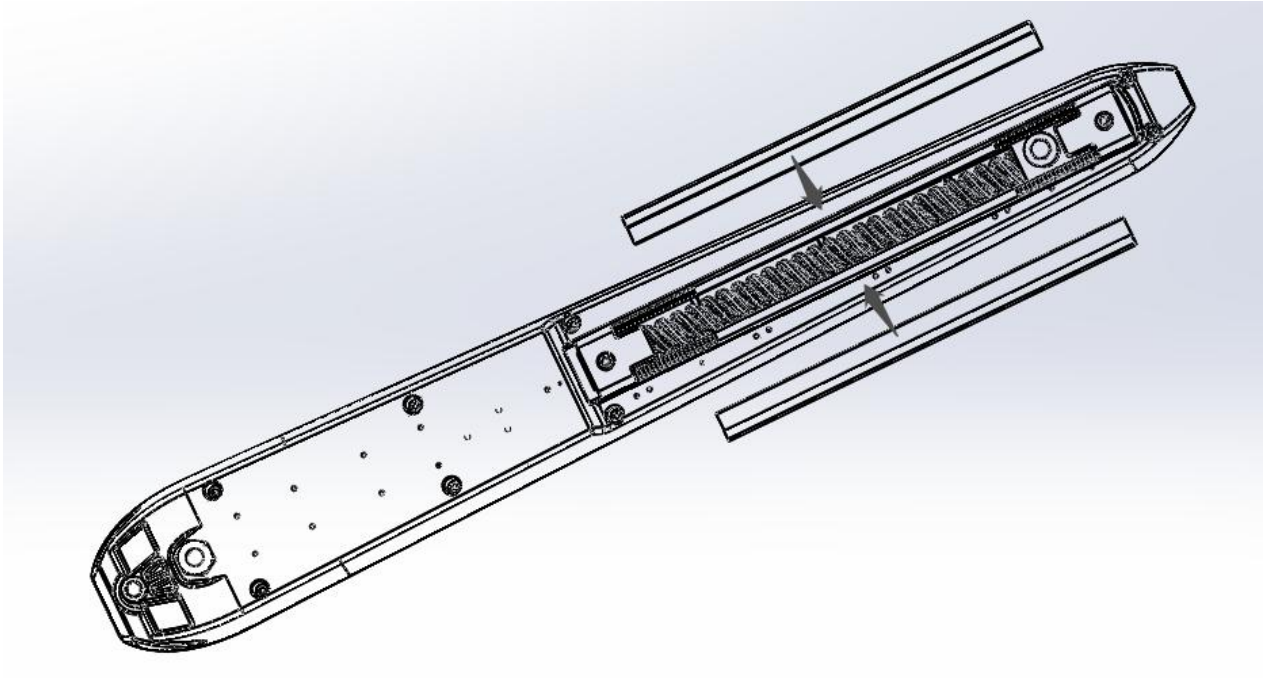
03 Tighten the screws to secure the switch.

06 / OPERATOR ACCESS

Dust strips and manual release

Use the keyed release when you need to move the gate by hand.

Fit the dust strips



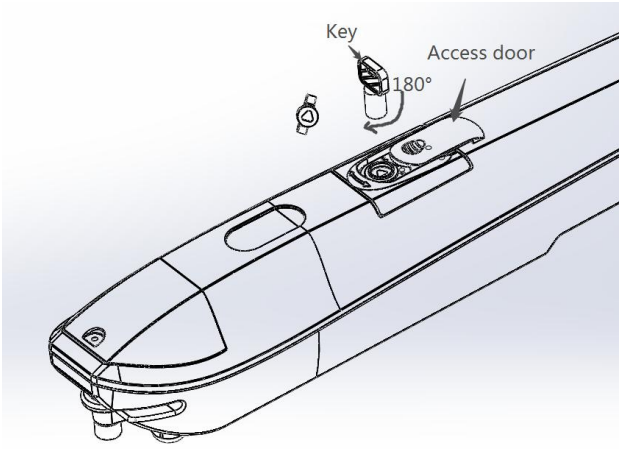
Release and re-lock the operator

01 With the motor stopped, lift the access door.

02 Insert and turn the release key.

03 Push or pull the gate by hand.

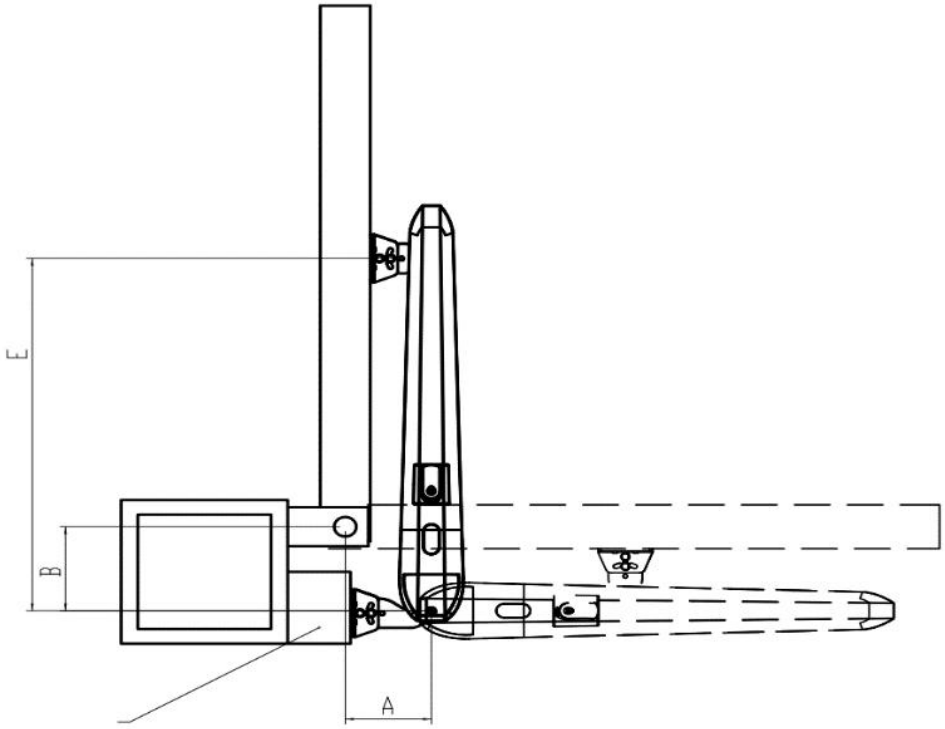
04 To re-lock the operator, insert and turn the key again.



07 / OUTWARD INSTALLATION

Outward mounting and maintenance

Use the supplementary rear bracket for outward opening.



Supplementary bracket

Measurement	A	B	E
IRONGATE Model	200 mm	200 mm	720 mm

Mounting sequence

01 Measure A and B.

02 Fasten the rear bracket and supplementary bracket to the column.

03 Open the gate to a maximum of 90°. Verify E, then secure the front bracket to the gate.

04 Reposition and adjust the opening limit switch.

Periodic maintenance

Lubricate the worm gear screw and pivot pins. Check the clamp screws for tightness and verify that the connection cable is securely fastened.