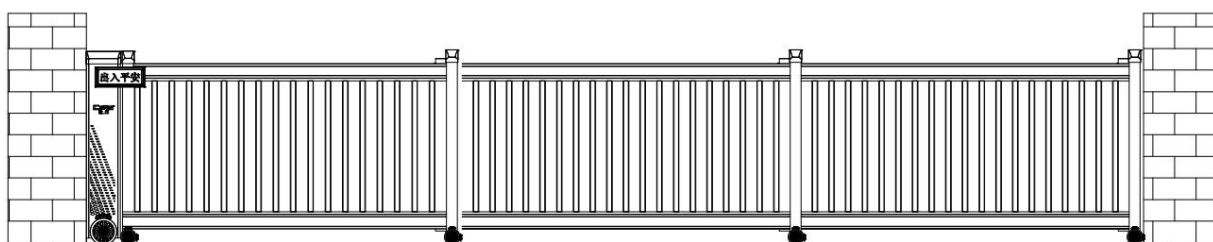


Zhimei Telescopic Gate Installation Manual



Contents

1. Introduction to Zhimei Telescopic Gate products.
2. Installation methods.
3. Component names of Zhimei Telescopic Gate structure.
4. Precautions for Zhimei Telescopic Gate installation.



Preface

1. Please read the instructions carefully before installation.
2. Installation must be carried out strictly in accordance with the instructions. Incorrect installation and operation may cause personal injury or property damage.
3. All operations during installation must comply with the instructions manual and relevant national safety regulations.
4. The application functions specified in the product manual have been carefully designed and manufactured. Any application beyond the specified functions may cause damage or pose other risks.
5. The company shall not be held responsible for any damage caused by improper use of this product.
6. This product must not be installed in places where flammable or explosive materials are present.
7. Before installing, inspecting or repairing this product, the power supply must be cut off first.
8. This product must be equipped with an independent switch and a 6A circuit breaker for protection.
9. Check whether the grounding system of the product is normal.
10. The safety devices of the electrical system must safeguard the safe operation of the moving mechanical system and prevent it from being crushed or cut.
11. If a safety protection switch other than our company's is used in the product (such as infrared protector, ground sensor, radar, etc.), our company is not responsible for the safety and normal operation of the product.
12. Please use the parts provided by our company during maintenance.
13. For any problems that occur in the operation of the enclosed power components due to disassembly or assembly without following the correct procedures, our company will be responsible.
14. Children or non-staff members are not allowed in the vicinity when the product is being installed and debugged.
15. The installer must inform the user of the method for manual operation in case of an emergency.
16. Inform users that they must not repair or adjust the system without authorization. Please contact the relevant personnel when necessary.
17. After installation and commissioning are completed, please hand over this manual to the user for safekeeping, for reference during future maintenance.

CMZM-01



CMZM-02



CMZM-03

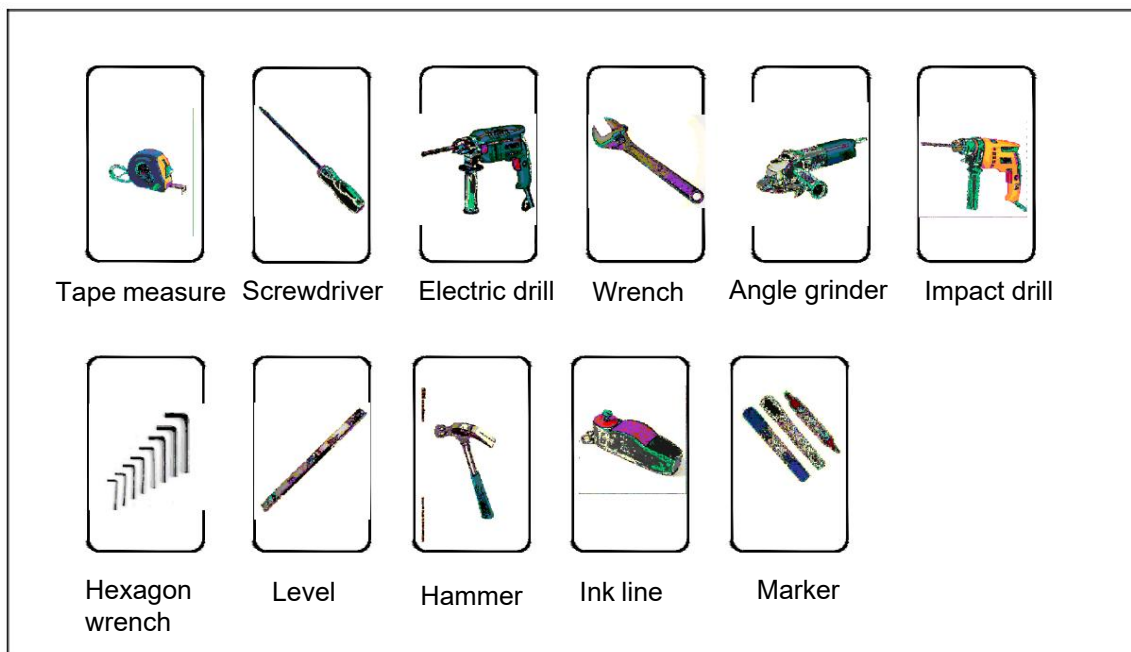


1. Introduction to the environment and tools required for installation

1. Introduction to the installation environment

Zhmei telescopic gate operate by friction between wheels and the ground, and have high requirements on ground flatness. The road surface tolerance in the direction of opening and closing the door is 10m+2cm, and the road surface tolerance in the direction inside and outside the door is 1m+2mm. If the road surface is uneven, or there is a certain slope inside and outside, it will seriously affect its normal operation and lifespan.

2. Install the required tools:



1. Standard structural layout of Zhimei Telescopic Gate trackless:

Schematic diagram of column installation

Gantry with wireless infrared transmitter

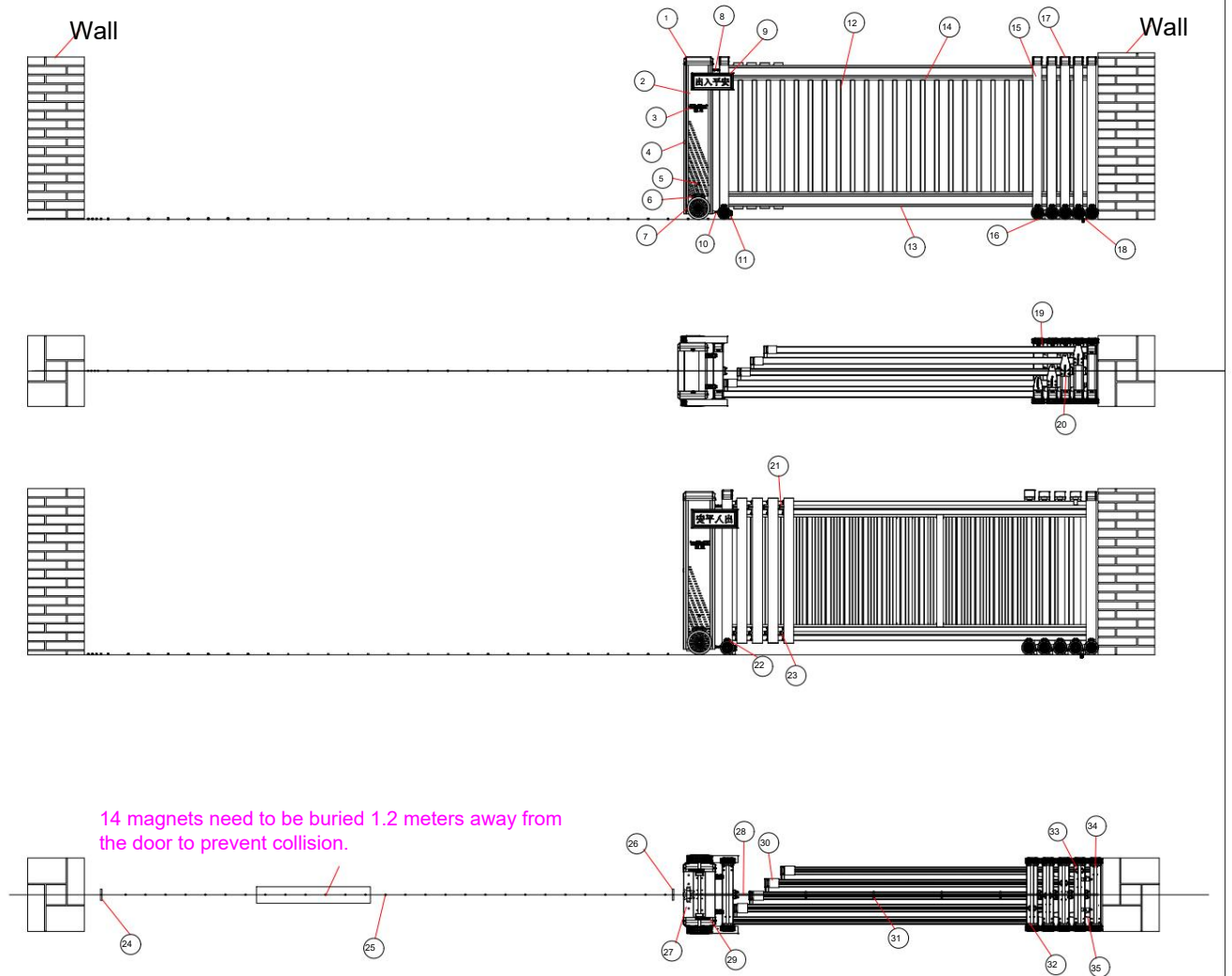


Figure 1 Schematic diagram of structural distribution

- | | | | | | | | | | | |
|------------------------|-----------------------------|------------------------|-----------------------------|-------------------|--------------------------|------------------------|----------------------------|---------------------|-------------------------------|---------------|
| ① Motor case top cover | ② Motor case panel | ③ CAIMEN logo | ④ Motor case lock | ⑤ Clutch hole | ⑥ Motor case wheel cover | ⑦ Motor case big wheel | ⑧ Motor case top connector | ⑨ Display | ⑩ Motor case bottom connector | ⑪ Guide hook |
| ⑫ vertical rods | ⑬ Top and lower beams | ⑭ Auxiliary gate frame | ⑮ Gate main pillar | ⑯ Base wheels | ⑰ Gate pillar caps | ⑱ Fixed angle code | ⑲ Gate base | ⑳ Clamp wheel cover | ㉑ wire support | ㉒ Dust cover |
| ㉓ Lower beam connector | ㉔ Gate closing limit magnet | ㉕ Round magnet | ㉖ Gate opening limit magnet | ㉗ Motor case base | ㉘ Corrector track | ㉙ Motor chain | ㉚ seal | ㉛ Track angle code | ㉜ Base bearing | ㉝ Base pulley |
| ㉞ base shaft | ㉟ anti-collision rubber | | | | | | | | | |

CAIMEN 财门科技

2. Standard structural layout of Zhimei Telescopic Gate without track:

Schematic diagram of installation behind the wall

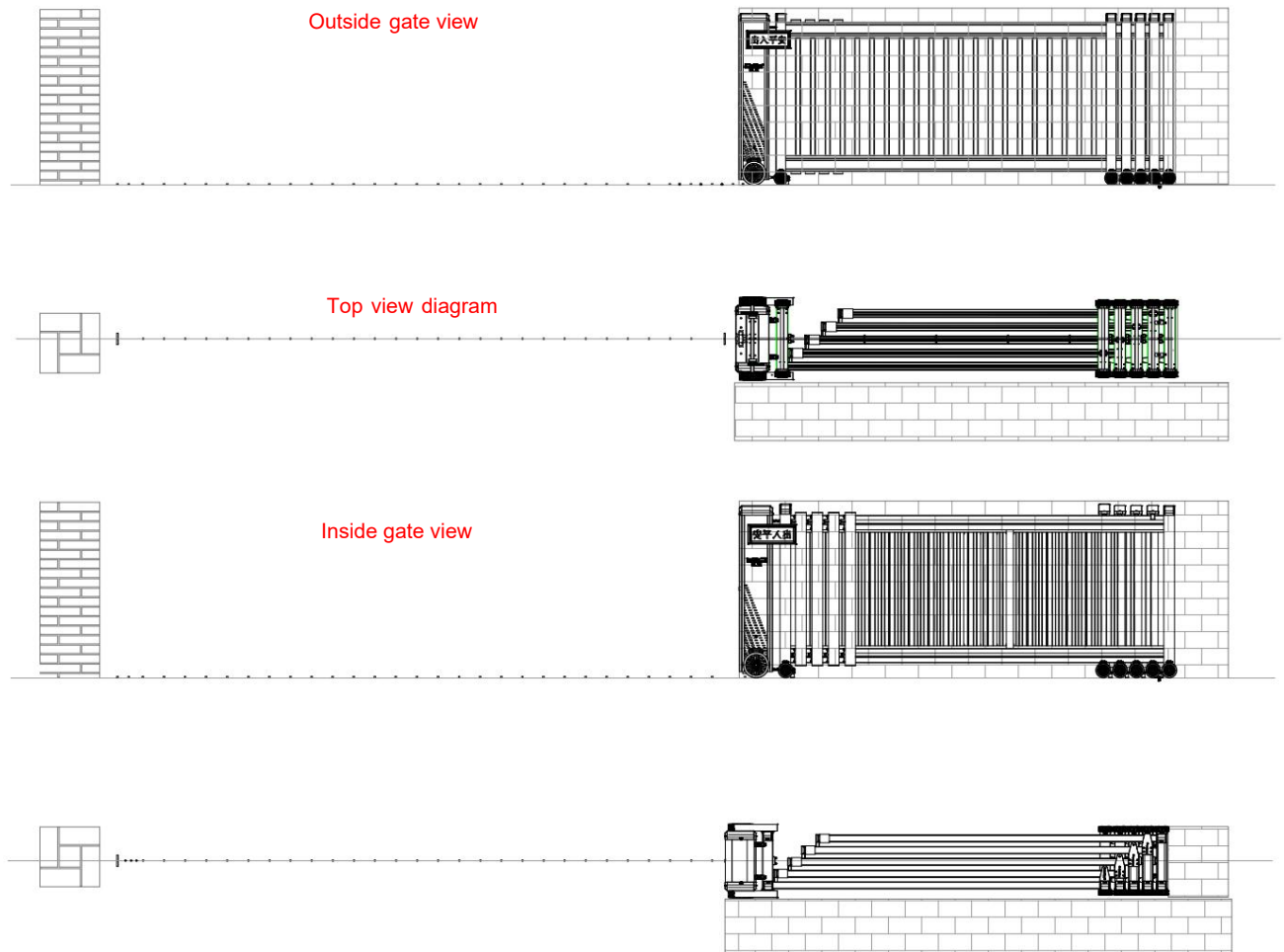


Figure 1 Schematic diagram of structural distribution

3. Standard layout for trackless installation of Zhimei telescopic gate

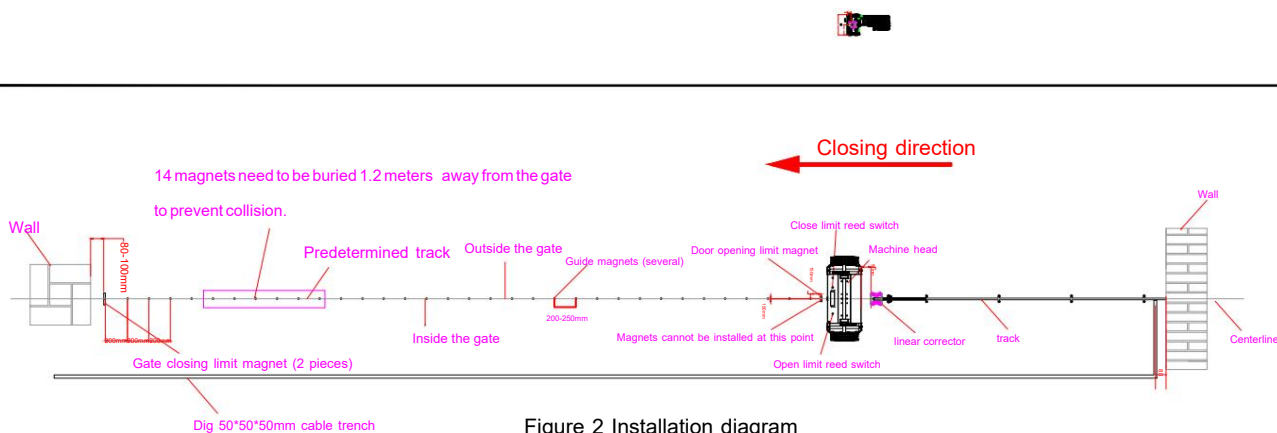
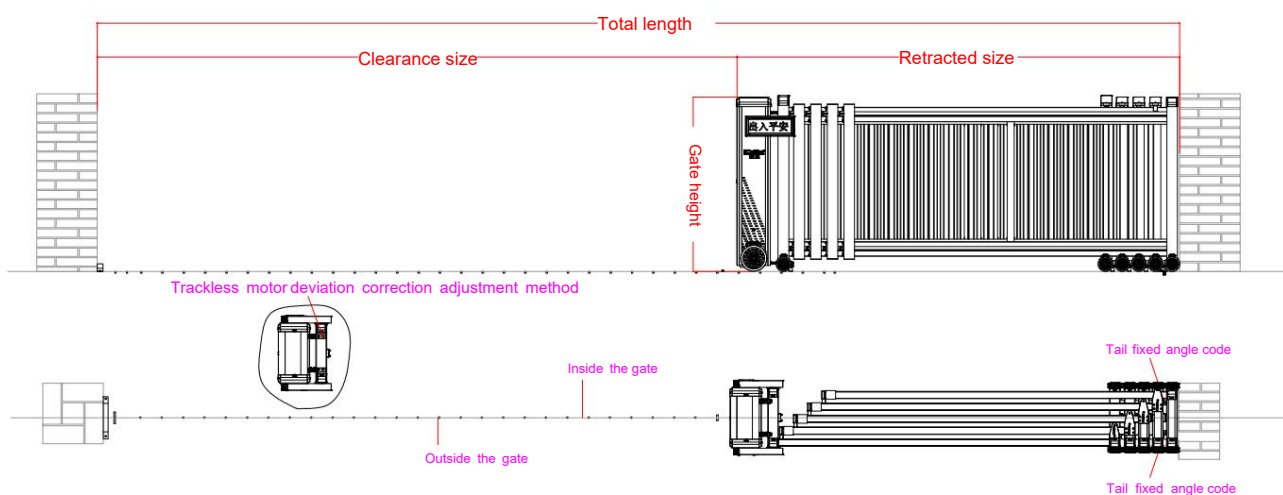


Figure 2 Installation diagram

Note:

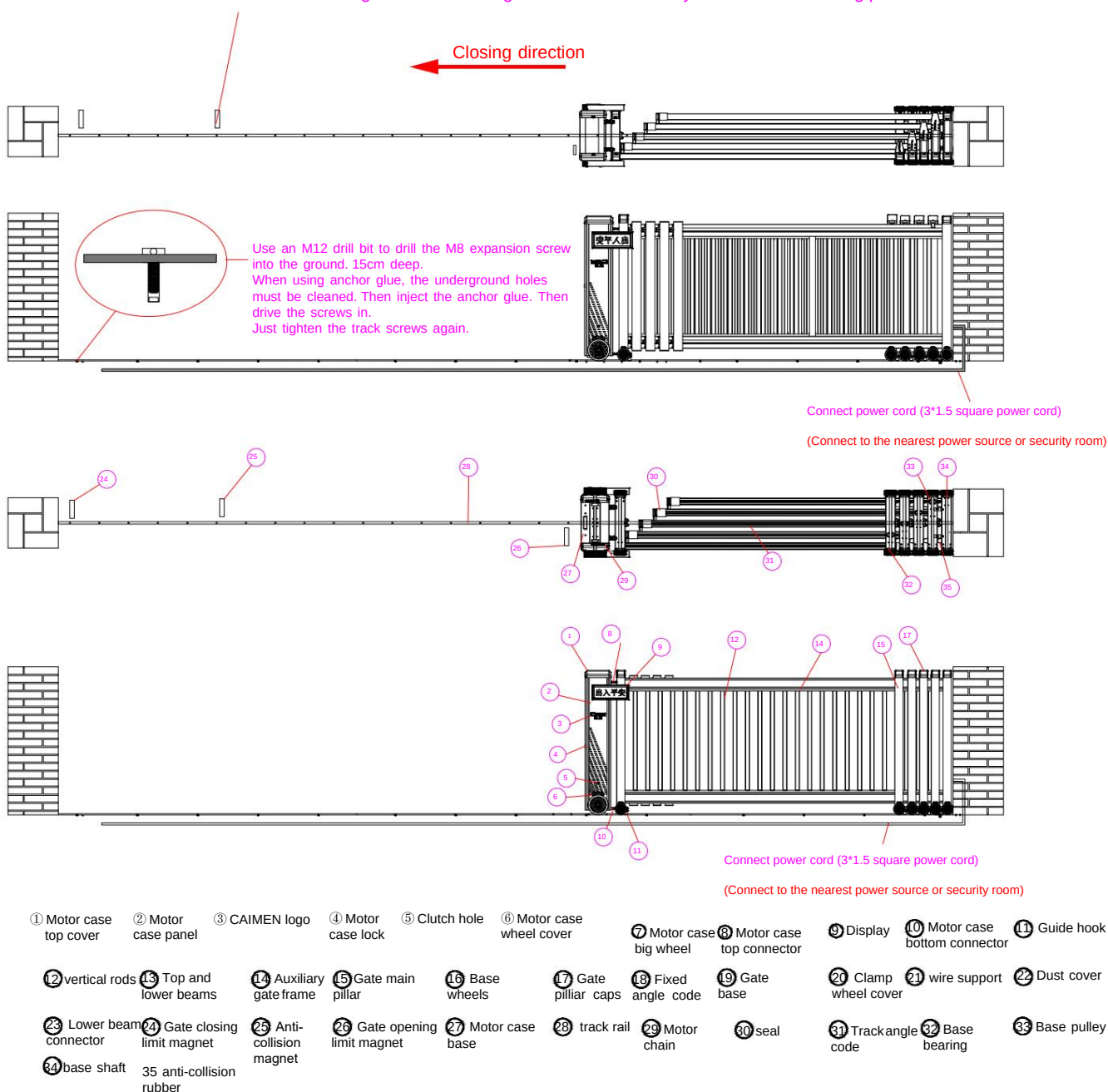
1. Pull a cotton thread on the corner of the wall to check whether the wall column and the ground are vertical and flat. Take this cotton thread as the reference basis, measure 40 cm (400 mm) as the center point based on the base line, and use the ink fountain to pop out the solid line.
2. The gate switch needs to pre-buried a DN15 insulating hose from the tail of the machine to the guard room to make it waterproof, and wear a 3-core 2.5 power cord as the power supply of the motor switch. The pre-buried wire is exposed 1.5 meters above the ground. After checking and confirming that it is correct, pour concrete to fix it and wait for the concrete to solidify.
3. With the drawn center line as a reference, place the straightener (the straightener has been connected and installed with the track before leaving the factory) at the tail of the machine with the center to the center to determine its hole position, and use an impact drill to drill the hole position and fix it with rivet screws.
4. Place the windproof hook with the center line to the center as a reference at the position of the machine head against the wall, determine its hole position, drill the hole with an impact drill, and fix it with rivet screws. Please refer to the installation diagram in Figure 2 for the installation method of the gate closing limit magnet and the guide magnet. (The windproof hook, straightener, guide magnet, and gate opening and closing limit magnet must be installed according to the above instructions, otherwise it will affect the life of the gate and its normal operation!)



Note: 1. Place the gate body with the center line aligned with the center (the gate body has been assembled before leaving the factory), and fix the tail with a bolt. First open the clutch to test whether the door body can move freely, and then the door body can move smoothly. After making sure that the gate is in good condition, fix the gate opening positioning magnet, connect the power supply and complete the debugging, you can run it directly!

1. Zhimei Telescopic Gate Track Structure

The door closing anti-collision magnet is 1.2 meters away from the door closing position



CM-FD

2. Standard structural layout of Zhimei Telescopic Gate with rails:

Schematic diagram of installation behind the wall

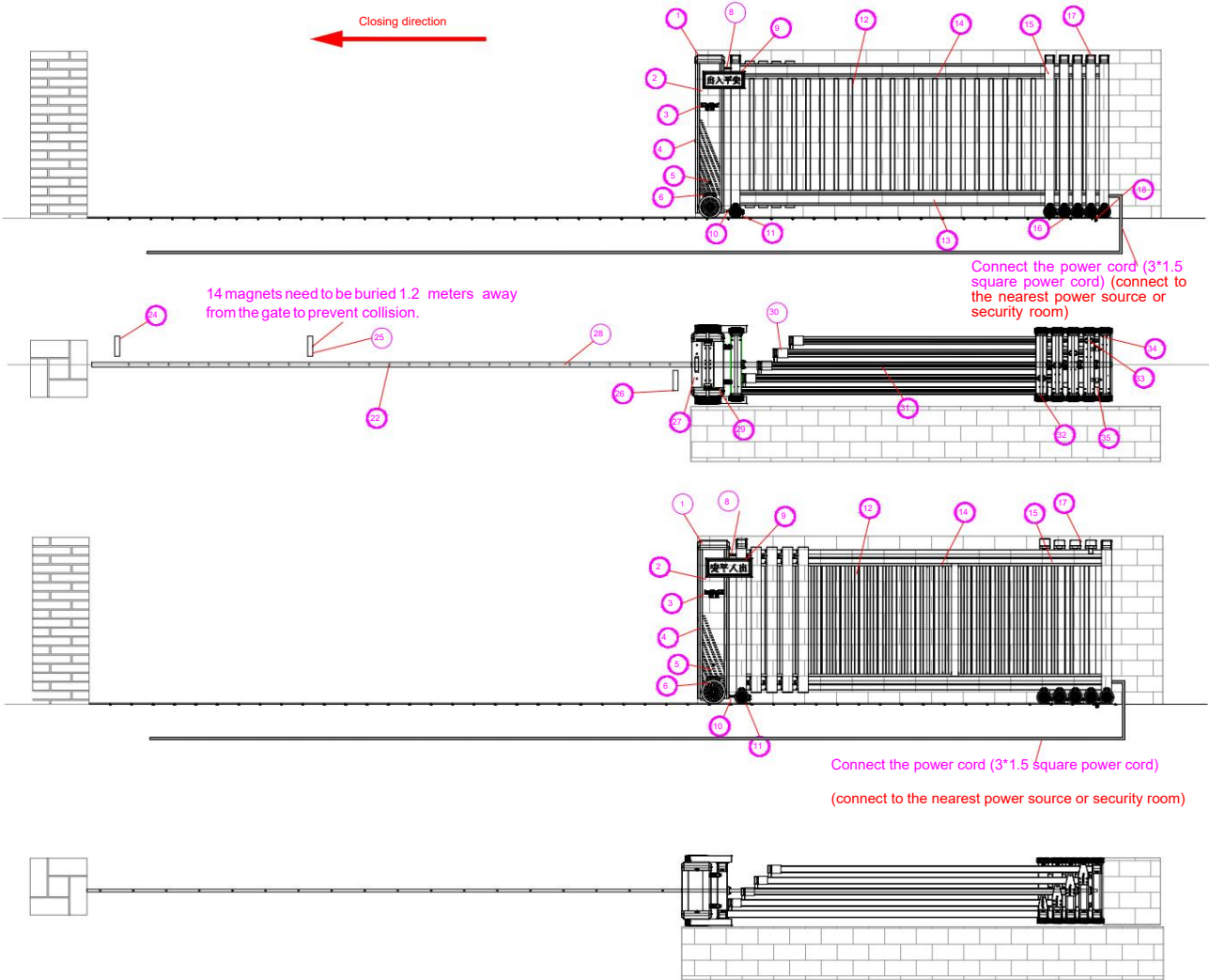


Figure 1 Schematic diagram of structural distribution

- ① Motor case top cover
- ② Motor case panel
- ③ CAIMEN logo
- ④ Motor case lock
- ⑤ Clutch hole
- ⑥ Motor case wheel cover
- ⑦ Motor case big wheel
- ⑧ Motor case top connector
- ⑨ Display
- ⑩ Motor case bottom connector
- ⑪ Guide hook
- ⑫ vertical rods
- ⑬ Top and lower beams
- ⑭ Auxiliary gate frame
- ⑮ Gate main pillar
- ⑯ Base wheels
- ⑰ Gate pillar caps
- ⑱ Fixed angle code
- ⑲ Gate base
- ⑳ Clamp wheel cover
- ㉑ wire support
- ㉒ Dust cover
- ㉓ Lower beam connector
- ㉔ Gate closing limit magnet
- ㉕ Anti-collision magnet
- ㉖ Gate opening limit magnet
- ㉗ Motor case base
- ㉘ track rail
- ㉙ Motor chain
- ㉚ seal
- ㉛ Track angle code
- ㉜ Base bearing
- ㉝ Base pulley
- ㉞ base shaft
- ㉟ anti-collision rubber

CAIMEN 财门科技

3. Standard layout for Telescopic Gate rail installation:

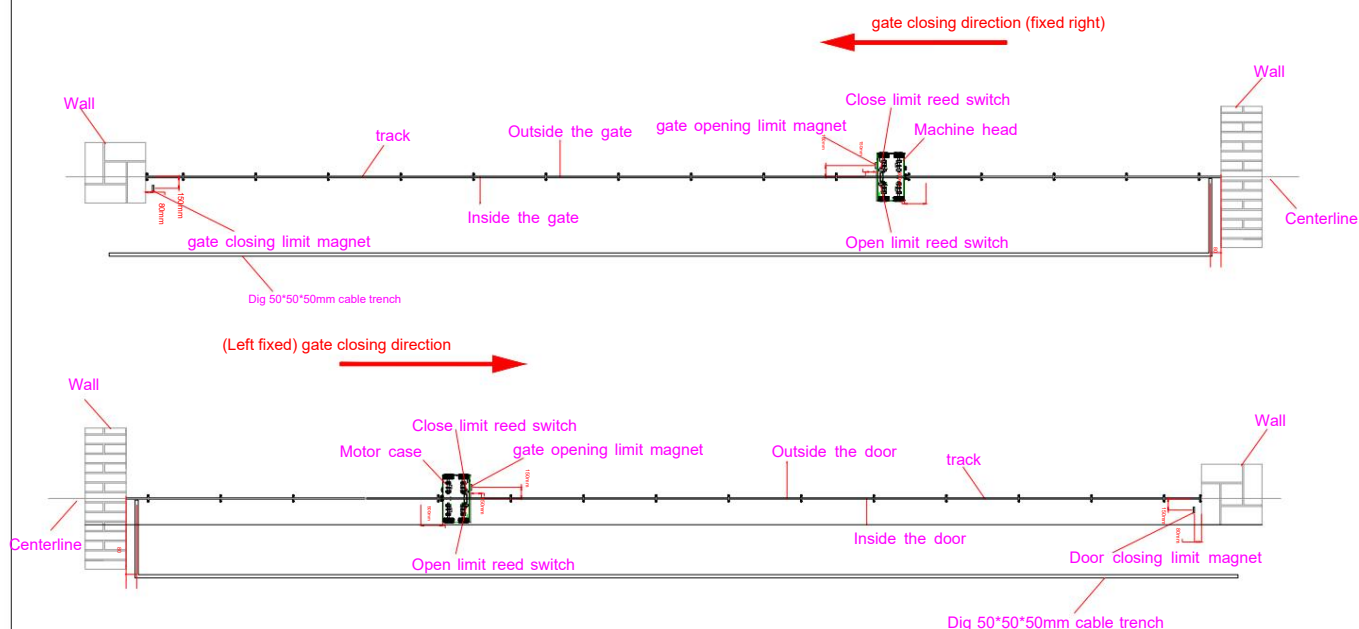
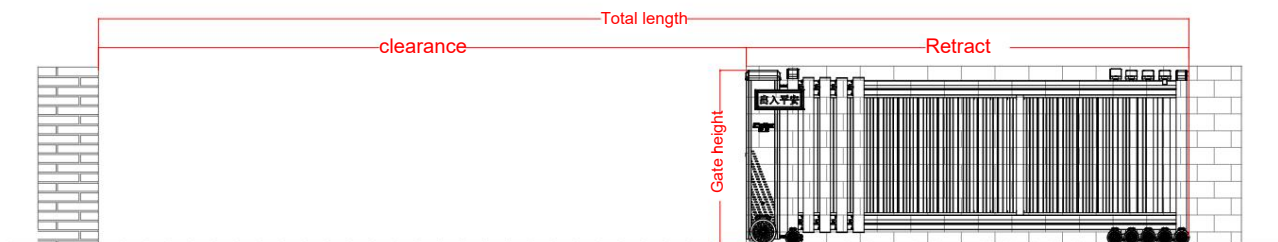


Figure 2 Installation diagram

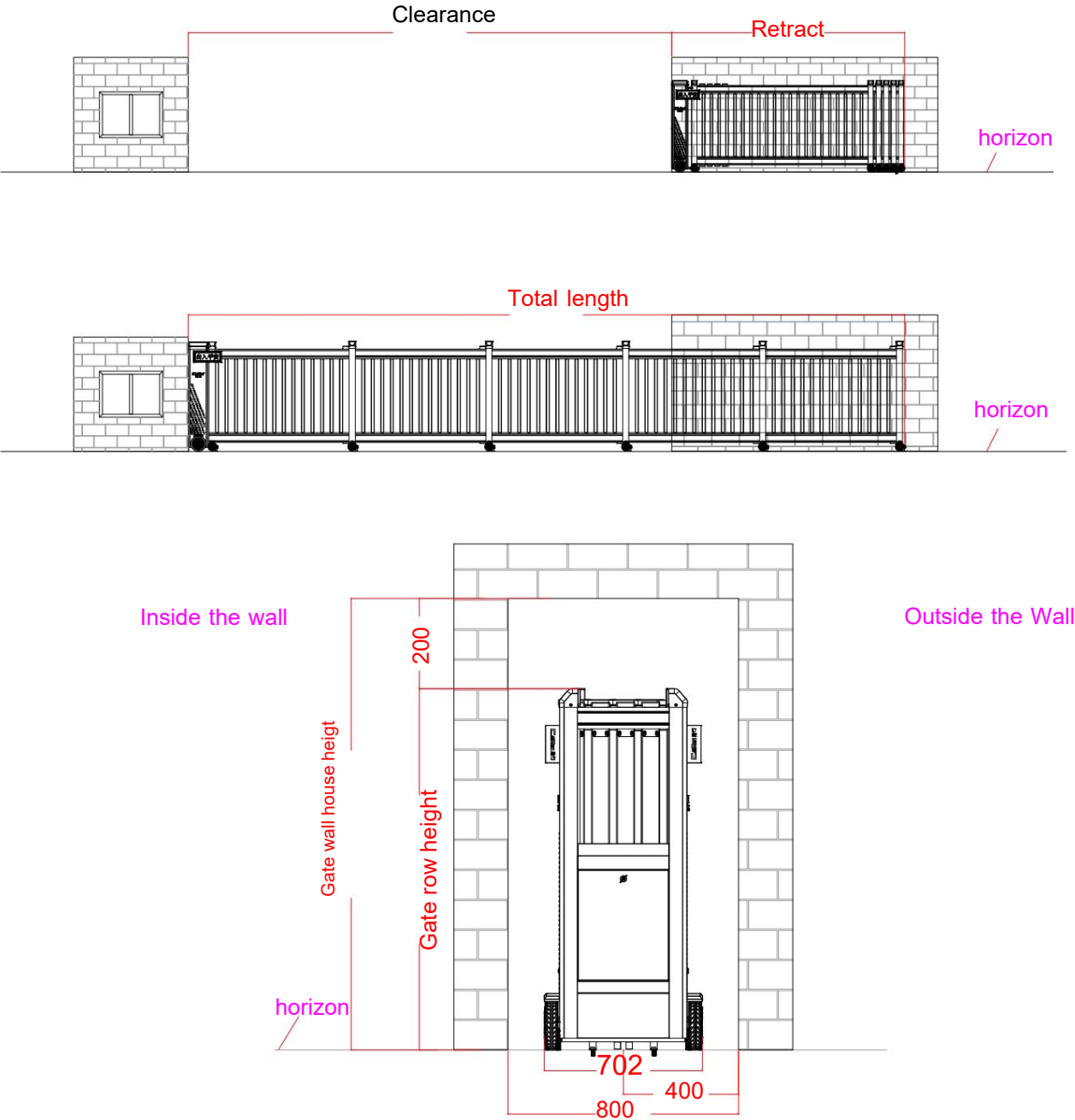
Note:

1. Pull a cotton thread on the corner of the wall to check whether the wall column and the ground are vertical and flat. Take this cotton thread as the reference basis, measure 40 cm (400 mm) as the center point based on the base line, and use the ink fountain to pop out the solid line.
2. The door switch needs to pre-buried a DN15 insulation hose from the tail to the guard room to make it waterproof, and wear a 3-core 2.5 power cord as the power supply of the motor switch. The pre-buried wire is exposed 1.5 meters above the ground. After checking and confirming that it is correct, pour concrete to fix it and wait for the concrete to solidify.
3. With the drawn center line as a reference, place the center of the track and the center line center to center to determine the hole position, use an impact drill to drill the hole position and fix it with expansion screws.
4. The installation method of the door closing limit magnet and the guide magnet is installed according to the installation diagram in Figure 2. (The track and the switch door limit magnet must be installed according to the above instructions, otherwise it will affect the life of the door body and normal operation!)



Note: 1. Place the gate body with the center line aligned with the center (the gate body has been assembled before leaving the factory), and fix the tail with a bolt. First open the clutch to see if the gate body can move freely. After confirming that the gate body is intact, After positioning the gate opening magnet and connecting the power supply and debugging, you can run it directly!

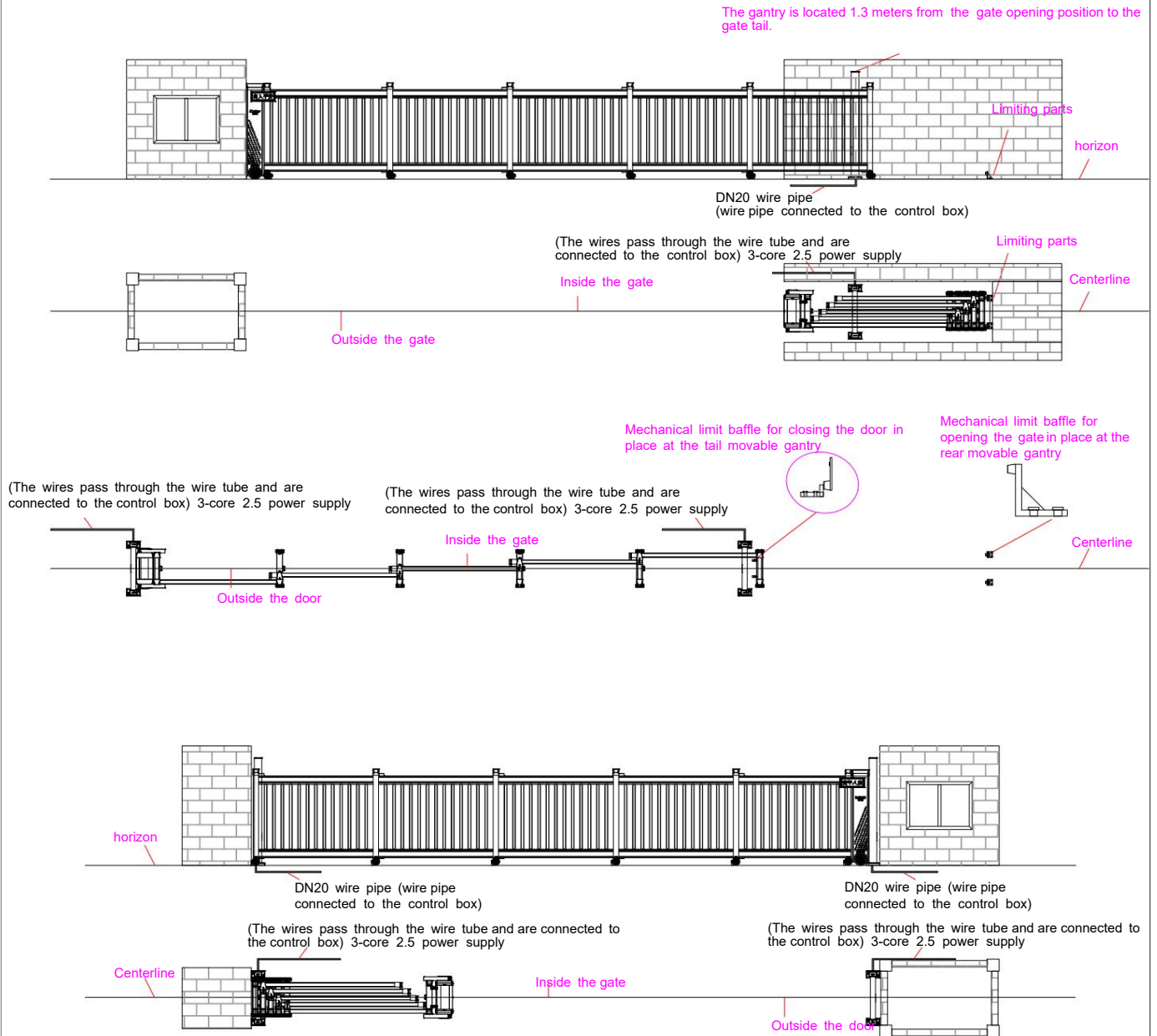
4. Gate wall Installation



CM-FD

Schematic diagram of fixed and movable telescopic gate

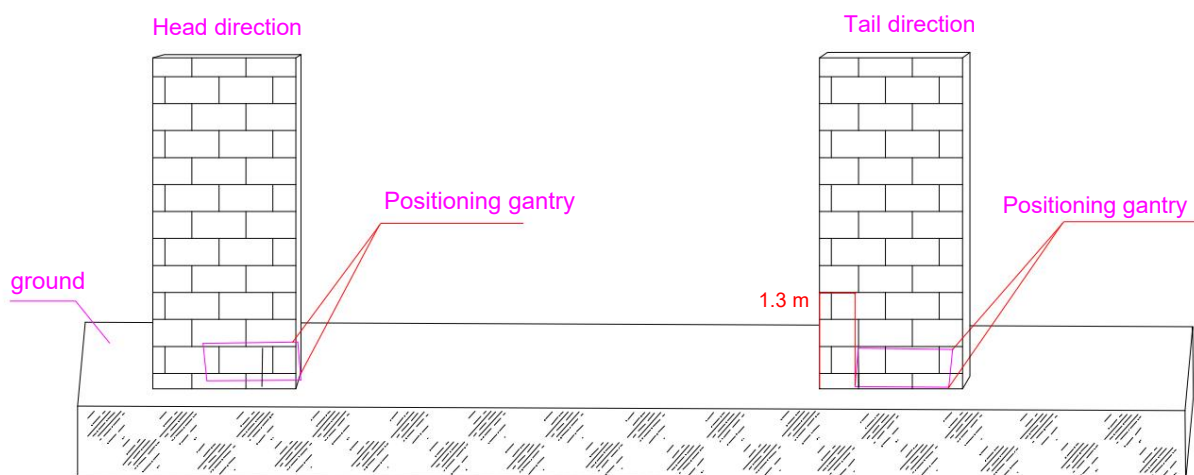
Gantry location diagram



CAIMEN 财门科技

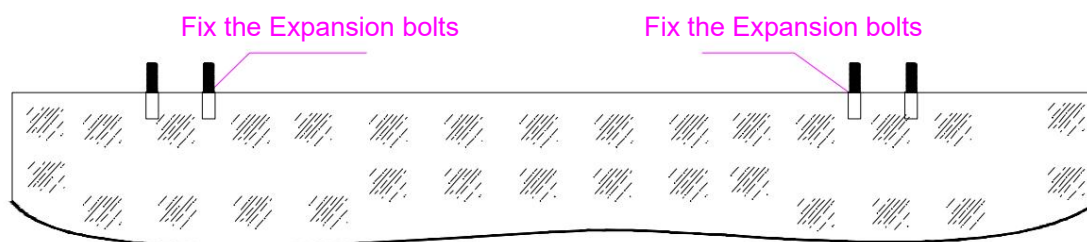
3. Standard layout for installation of telescopic gate:

Reference size : The distance between the embedded parts and the wall is 1.3 meters



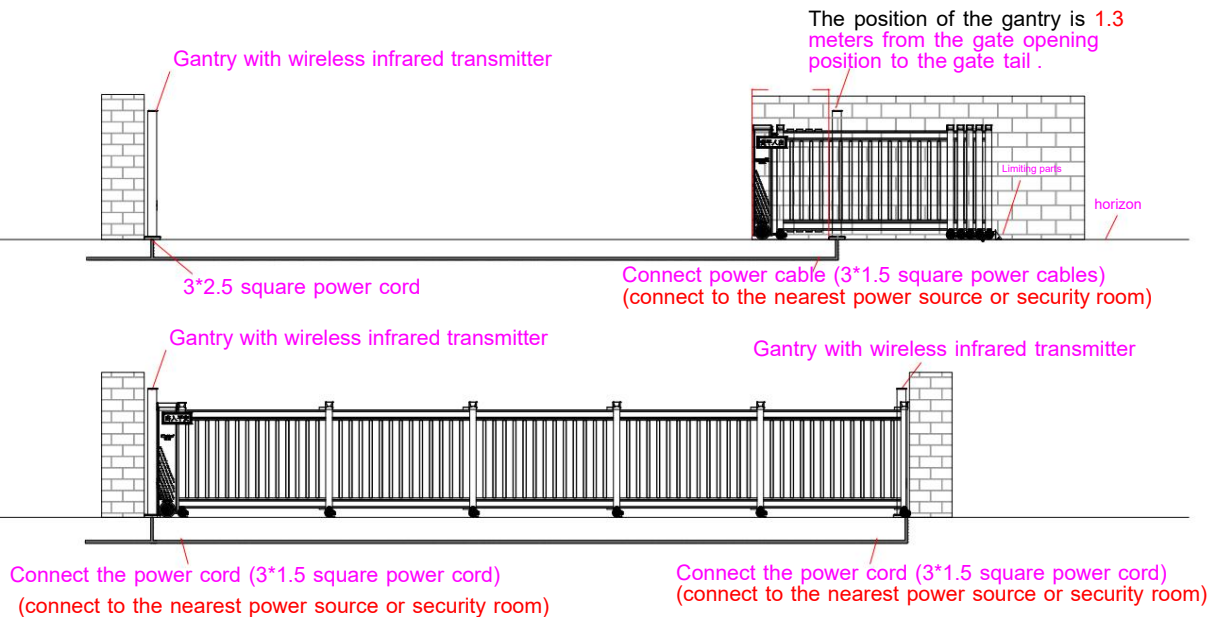
Note: Use a tape measure to confirm the location and size of the gantry to be installed.

Step 2:



Note: Use an impact drill to drive the bolts into the gantry at the correct location.

Step 3: Schematic diagram of infrared installation with gantry



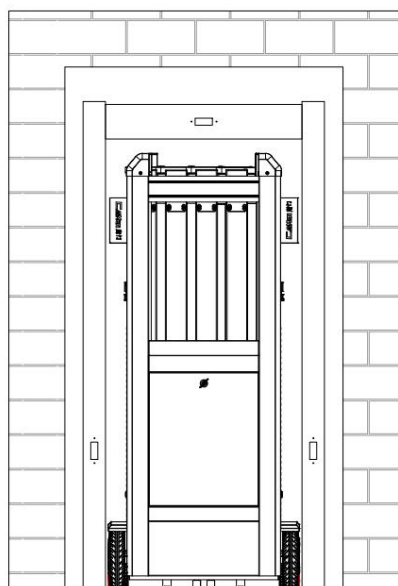
Note:

1. Place the infrared gantry in the corresponding position, fix the gantry with the M14 expansion screws, adjust the vertical line of the door post, and ensure that the infrared transmitter and receiver are aligned. If the infrared transmitter of the front gantry is not aligned with the infrared receiver of the rear gantry, the door will not be able to close.
2. There are many safety protection induction switches on the door body. It is necessary to pre-bury a DN20 insulating rubber hose from the chassis to the front door frame to make it waterproof and pass a 3-core 2.5 power line as the power supply for the infrared and motor switches. The pre-buried line is exposed 1.5 meters above the ground. After checking and confirming that it is correct, pour concrete to fix it and wait for the concrete to solidify.

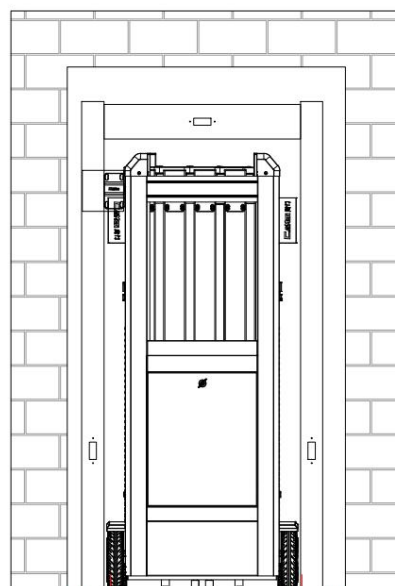


3. If you need to change the display content or time, scan the QR code on your phone to download the AAP software (Huawei phones or other brands of phones cannot scan it, you need to download the Puxiang software APP from the mobile application market)
4. After downloading the Puxiang APP software, open the phone settings, approach the display, and click wifi Search the WIFI name: USR-WIFI232-G2, click the user name: USR-WIFI232-G2, and enter the password: 89308309 Exit the phone settings and open the Puxiang APP software. At this time, there is a WIFI logo on the head display. (If there is no WIFI logo on the display, restart the phone WIFI and approach it) Click the text input area to modify the subtitles at will. After changing the subtitles, press the text to send.
5. Set the time Click the set time input area, change the date and time, and press the set time key. After changing, exit the software and turn off wifi. (You can complete the change of the display content and time)

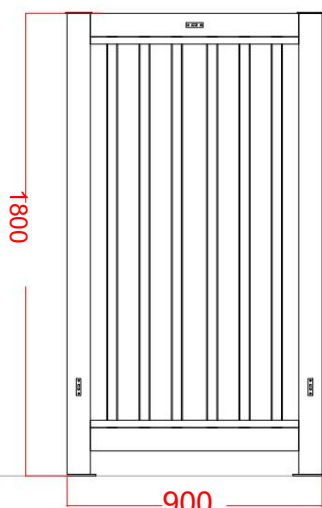
Schematic diagram of the installation of the infrared gantry gate opening of the telescopic gate



Tail fixed gantry

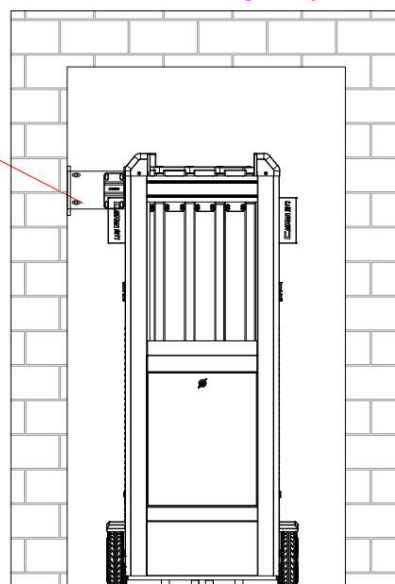


tail movable gantry



front gantry

The distance between the gate row and the gate wall can be manually adjusted



I-shaped tail movable gantry

Troubleshooting methods for monorail systems

Fault phenomenon	Cause of the fault	Troubleshooting
Power Indicator Not Lit	1. Power not connected 2. Fuse blown 3. Power issue 4. Circuit issue 5. Fuse blown 6. Tail leakage switch not reset 7. Emergency switch not reset	1. Connect power 2. Replace fuse 3. Check power 4. Check circuit 5. Replace fuse 6. Reset leakage switch 7. Rotate emergency switch to reset
Power Indicator Lit, Buttons Unresponsive	1. Limit circuit issue 2. Limit switch short circuit 3. Receiver device damaged 4. Infrared not aligned	1. Check limit circuit 2. Replace fuse 3. Check receiver contacts 4. Adjust infrared alignment
Power Indicator Lit, Motor Not Running	1. Motor wire open or wrongly connected 2. Motor clutch not engaged 3. Capacitor blown 4. Overload 5. Thermal protection activated 6. Reed switch damaged	1. Connect motor wire 2. Engage clutch 3. Replace capacitor 4. Check for obstacles on track 5. Wait 20 minutes and restart 6. Replace reed switch
Unable to Open/Close to Limit	1. Limit switch too high from magnet 2. Limit magnet incorrectly installed 3. Limit switch damaged 4. Limit switch wire damaged	1. Adjust limit switch height 2. Reinstall magnet 3. Replace limit switch 4. Check and reconnect limit wire
The remote control is not responding.	1. Remote battery low 2. Remote damaged 3. Receiver not properly connected	1. Replace battery 2. Replace remote 3. Reconnect receiver
Gate Panel Noise During Operation	1. Guide card noise 2. Gate panel noise	1. Adjust guide card 2. Adjust guide bracket
The drive wheels skidded during operation.	1. Gate head too light or road too slippery	1. Add weight to gate head
Alarm Not Sounding	1. Alarm wire loose 2. Alarm damaged 3. Anti-climb infrared not aligned	1. Reconnect wire 2. Replace alarm 3. Replace infrared
Display Not Lit	1. Power issue 2. Display LED damaged	1. Check circuit 2. Repair display
Gate Reverses Immediately After Closing	1. Obstacle in front of gate 2. Anti-collision sensor damaged	1. Remove obstacle 2. Replace anti-collision sensor

Trackless Barrier Gate Troubleshooting

Fault phenomenon	Cause of the fault	Troubleshooting
Power Indicator Not Lit	1. Power not connected 2. Fuse blown 3. Power issue 4. Circuit issue 5. Fuse blown 6. Tail leakage switch not reset 7. Emergency switch not reset	1. Connect power 2. Replace fuse 3. Check power 4. Check circuit 5. Replace fuse 6. Reset leakage switch 7. Rotate emergency switch to reset
Power Indicator Lit, Buttons Unresponsive	1. Limit circuit issue 2. Limit switch short circuit 3. Receiver not properly connected 4. Infrared not aligned	1. Check limit circuit 2. Replace fuse 3. Reconnect receiver 4. Adjust infrared alignment
Power Indicator Lit, Motor Not Running	1. Motor wire open or wrongly connected 2. Motor clutch not engaged 3. Capacitor blown 4. Overload 5. Thermal protection activated 6. Reed switch damaged	1. Connect motor wire 2. Engage clutch 3. Replace capacitor 4. Check for obstacles on track 5. Wait 20 minutes and restart 6. Replace reed switch
Unable to Open/Close to Limit	1. Limit switch too high from magnet 2. Limit magnet incorrectly installed 3. Limit switch damaged 4. Limit switch wire damaged	1. Adjust limit switch height 2. Reinstall magnet 3. Replace limit switch 4. Check and reconnect limit wire
Remote Control Unresponsive	1. Remote battery low 2. Remote damaged 3. Receiver not properly connected	1. Replace battery 2. Replace remote 3. Reconnect receiver
Gate Panel Noise During Operation	1. Guide card noise 2. Gate panel noise	1. Adjust guide card 2. Adjust guide bracket
The drive wheels skidded during operation.	1. Gate head too light or road too slippery	
Alarm Not Sounding	1. Alarm wire loose 2. Alarm damaged 3. Anti-climb infrared not aligned	1. Reconnect wire 2. Replace alarm 3. Replace infrared
Display Not Lit	1. Power issue 2. Display LED damaged	1. Check circuit 2. Repair display
Immediately reverse when operating with the gate closed.	1. Obstacle in front of gate 2. Anti-collision sensor damaged	1. Remove obstacle 2. Replace anti-collision sensor
Gate Head Deviation	1. Motor clutch not engaged 2. Guide too high from ground 3. Magnet detached or misplaced 4. Obstacle on road 5. Sensor damaged 6. Gate head adjustment screw not tightened	1. Engage motor clutch 2. Adjust guide height 3. Check magnet installation 4. Remove obstacle 5. Replace sensor 6. Tighten adjustment screw
It will automatically return after 1-2 seconds when operating in the closed state.	1. Magnet not installed 2. Sensor too high from magnet 3. Gate head completely deviated from magnet 4. Sensor damaged	1. Install magnet 2. Remove obstacle 3. Correctly install sensor 4. Replace sensor
The gate cannot be closed completely.	1. Anti-collision limit magnet not installed 2. Sensor too high from limit magnet 3. Magnet direction inconsistent 4. Anti-collision sensor limit magnet too close	1. Install anti-collision limit magnet 2. Adjust sensor distance 3. Re-run after returning 4. Install magnet 1.2 meters from closing position

Product Warranty Card

Product model: _____

Customer Name: _____

Contact Number: _____

Shipping address: _____

Purchase date: _____

Terms and Conditions of This Card Service

- I. This product is covered by a one-year warranty, starting from the date of purchase. Free warranty service is provided during the warranty period.
- II. The following situations are not covered by the warranty:
- Quality problems caused by failure to install or use the product in accordance with the product manual or similar factors.
2. Damages caused by unstable power supply, voltage exceeding the product's specified range, or non-compliance with national safety electricity standards.
 3. Damages caused by irresistible factors such as natural disasters.
 4. Damages caused by users' random disassembly, repair or modification.
 5. Beyond the warranty period.

When the product is under warranty, this card or the invoice should be presented for after-sales service.

The interpretation right of the terms and conditions of this card service belongs to Shenzhen Caimen Intelligent Technology Co., Ltd.

Product warranty record

Maintenance date	Repair content	Whether it is under warranty	Repairman

Shenzhen Caimen Intelligent Technology Co., Ltd.

Support@caimenint.com

Product Inspection Certificate of Conformity

Dear User,

Thank you for choosing the Caimen Technology brand and for your support and trust in our company. We adhere to the service tenet of "customer first" and will always be ready to listen to your valuable opinions.

Product model:

Product Specifications:

Production number



Packer:

Inspector:

Shenzhen Caimen Intelligent Technology Co., Ltd.

Support@caimenint.com

