

# ProBG2000 SERIES

## MIDDLE-END BARRIER GATE



## High performance High speed, High stability

The ProBG2000 series nearly has the same functions based on ProBG3000 series, the main difference between them is that the ProBG2000 series has no LED-Light on the chassis hence it can't change the boom direction. It's also a high performance and high speed barrier gate which adopts high performance Servo Motor, simple and reliable transmission structure, high temperature resistant control panel and impact protection design on boom connector. This model is for those middle and low-end markets



# Key Features

- LED light strip is optional for the boom.
- Mean Cycles Between Failure (MCBF) is upto 5 million times. The product lifespan is 10 times longer the traditional barrier gate.
- The gate's opening/closing speed is quick and can widely adjust from 0.9s-10s, depends on vehicle flow and boom length.
- It can operate normally at temperature as low as  $-45^{\circ}\text{C}$  and as high as  $75^{\circ}\text{C}$ .
- Wear-resistant, no mechanical impact, and impact absorption in motion.
- Automatically detects Power-off and lifts the Boom.
- When a Vehicle hits the boom, it swings out to avoid further damage. It has impact-resistance rubber strip.
- Supports fleet mode and open recording function. Gate can be closed after vehicle sensor has detected specified number of vehicles passed.
- Supports global standard voltage of 100-240V AC and 24VDC low voltage power supply.
- Low power consumption and energy saving design. Its barrier gate can save upto 500kWh per year.



# Functions



## DC 24V Servo Motor

- With planetary gear reducer and PID closed-loop control
- Low noise
- No oil leakage
- Maintenance-free, long lifespan
- High transmission efficiency and control precision
- Low motor heating, and less likely to trigger heating protection under the continuous working conditions



## Transmission Structure

- Efficient and concise mechanical transmission structure, and failure rate is very low
- Keyless design that avoids abrasion issue between keyway and key
- The spindle base adopts ductile iron technology so more durable



## Control Panel

- Using digital chip technology
- Maximum working temperature is up to 125°C
- Failure Detection, Alarm raises when devices on control panel encounter failure



## Balancing Spring

- High durability
- With user-friendly structural design, it's easy and convenient to adjust the spring tension



## Boom Connector

- Impact protection
- When a vehicle collides into the product, boom will be automatically detached to prevent damage on vehicle and product's body

Optional LED strip with color switching feature according to the Barrier gate state.



# Specifications

Model	ProBG2000	ProBG2100	PoBG2200
Motor Type	Servo Motor		
Boom Type	Straight boom	90° Folding boom	Fence boom
Boom Length	Supports 3m/4.5m/6m (adjustable)	3m	3m/4m
Ingress Protection Level	IP54		
Operating Temperature	-40°C to +75°C		
Power Supply	24V DC, AC 100 to 240V AC		
Controller Frequency	50 to 60Hz		
Power Consumption	100W		
Case Material	Powder coated steel		
Case Dimensions	330*330*970mm		
Net Weight	48kg		

Model	Boom Length	Operating Speed	Boom with LED
ProBG2030 L/R	3m	0.9s	N
ProBG2045 L/R	4.5m	2.5s	N
ProBG2060 L/R	6m	4.5s	N
ProBG2030 L/R-LED	3m	0.9s	Y
ProBG2045 L/R-LED	4.5m	2.5s	Y
ProBG2060 L/R-LED	6m	4.5s	Y
ProBG2130 L/R	3m	0.9s	N
ProBG2130 L/R -LED	3m	0.9s	Y
ProBG2230 L/R	3m	2s	N
ProBG2240 L/R	4m	3s	N

## Boom Direction Interchangeable



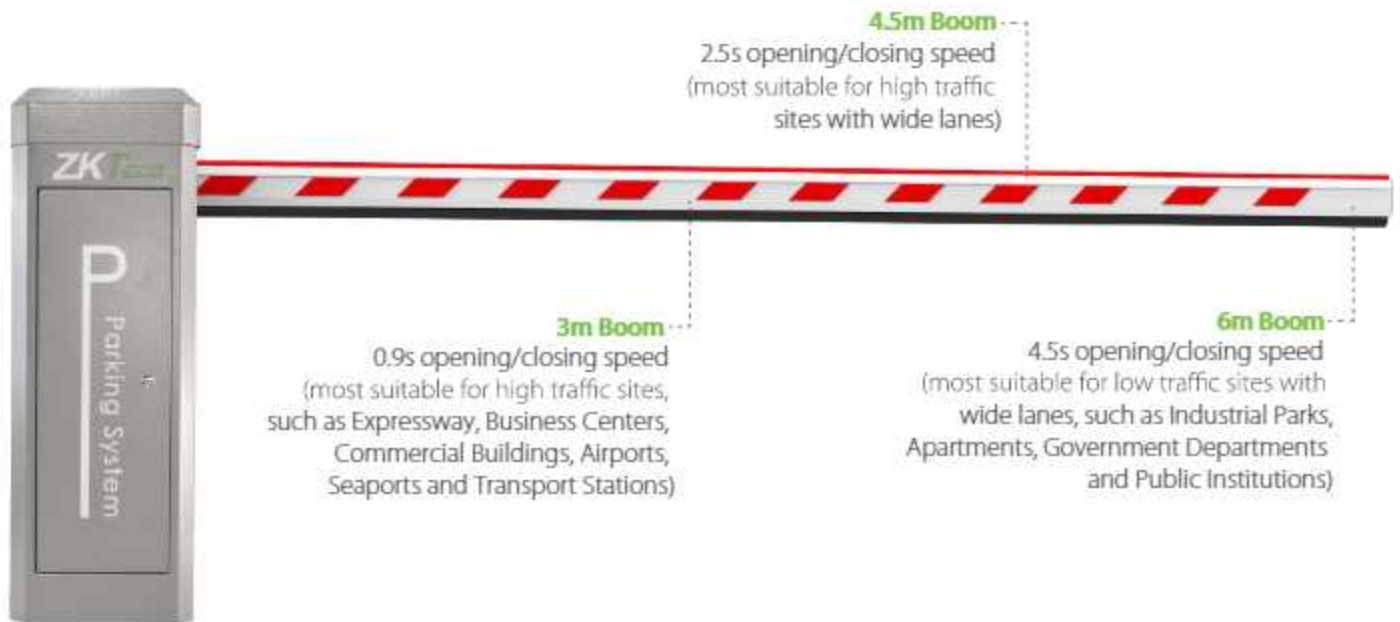
**L:** Case on the left side, and boom on the right side



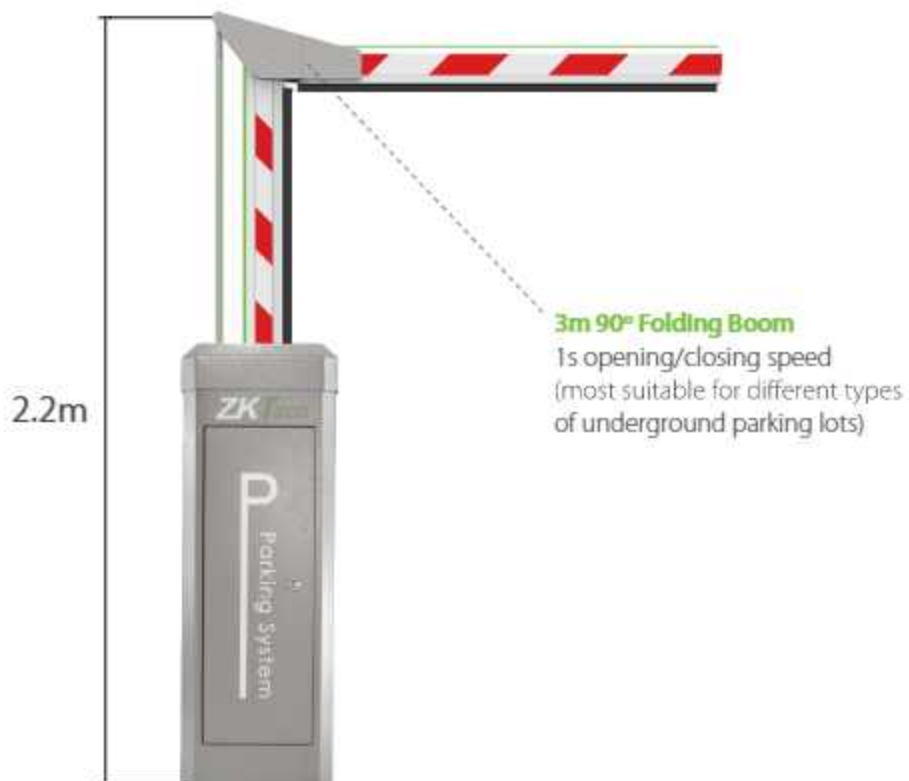
**R:** Case on the right side, and boom on the left side

# Application

## ProBG2000 Series



## ProBG2100 Series



## ProBG2200 Series



2s/3s opening and closing speed,  
supports 3m and 4m boom length.

## System Products



UHF Products



Bluetooth Products



LPR Products



ZK Parking & ZKBioSecurity

## Dimensions (mm)

