



  
**GENIUS<sup>®</sup>**  
RAPID<sup>®</sup> ACCESS  
BARRIERS



**BoomGate<sup>®</sup>**  
**Systems** (PTY) LTD

Reg No. 98/23505/07

Engineering Access Control





**GENIUS® RAPID® ACCESS BARRIER BGST-D107**

The Genius® Rapid® BGST – D107 barrier is manufactured and designed to handle a high volume of traffic and has a 100% duty cycle. The barrier is equipped with a 24V DC motor which lifts the boom arm through a sinusoidal level system which allows the boom arm to be locked in both up and down position. Barrier has life expectancy of 3 million operations and comes with a 1 year warranty.

The boom arm can be raised to 90 degrees in an event of a power failure with a crank handle. Up to 2 tension springs can be used for counter balancing.

Left and right-hand barriers are available with octagonal boom arms. The boom arm can be supplied as a straight arm or with a jack knife kit (90° or 180°) and the boom arm can also be equipped with a fence or curtain. The barrier requires minimum maintenance. Battery back-up option is available. BGST-D107 comes standard with LED robot on cabinet.



**LEFT HAND BARRIER**



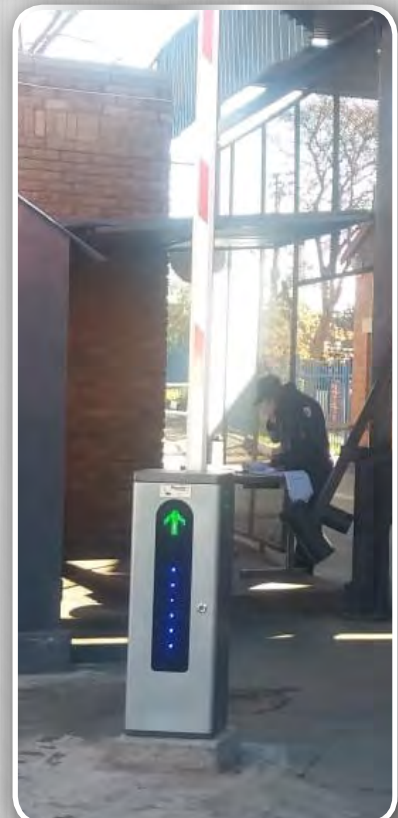
**RIGHT HAND BARRIER**





## APPLICATIONS:

- Parking Garages
- Golf or Residential Estates
- Factories & Mines
- Industrial and Commercial use
- Any application where vehicles need to be controlled





## TECHNICAL SPECIFICATIONS:

| MAXIMUM STRAIGHT BOOM LENGTH      | 1.5 sec – 3sec                     | 3m   |
|-----------------------------------|------------------------------------|------|
|                                   | 3 sec – 6sec                       | 4.5m |
| Opening and closing times         | 1.5s to 6s                         |      |
| Voltage                           | 220V AC / 24V DC                   |      |
| Frequency                         | 50HZ                               |      |
| Motor power consumption           | 60W                                |      |
| Working temperature               | -30° to 80°                        |      |
| Housing dimension                 | 355mm (W) x 280mm (D) x 1050mm (H) |      |
| Weight not including barrier boom | 50kgs                              |      |
| Drive                             | 24V DC Motor                       |      |
| Maximum Remote Control Distance   | ≤40m                               |      |
| Battery back up                   | Optional 24V only                  |      |
| Control Logic                     | Fully Programmable                 |      |



## FEATURES:

### Speed is adjustable

- 1.5 second motor, speed can be adjusted from 1.5 seconds to 3 seconds
- 3 second motor, speed can be adjusted from 3 seconds to 6 seconds
- Open & close speed can be different.

### Auto boom arm return function

Built-in sensor can detect when boom arm hits an obstacle and will return to the open position.

### Auto slow down function

Barrier arm will automatically slow down before it is fully closed or open.

### Intelligent open close limit sensor

Limit sensor will detect open & close position automatically. No need to adjust it by hand.

### Position memory function

The motor can remember limit position, so the boom arm will move back to right position even if the motor is cranked manually with a handle.

### Operating temperature

Motor operates with lower working temperature.

### High duty cycle

Estimated at 3 million open and closing cycles.

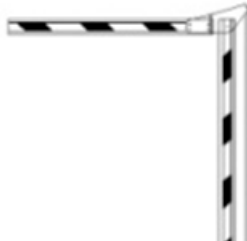


## BOOM ARM OPTIONS:

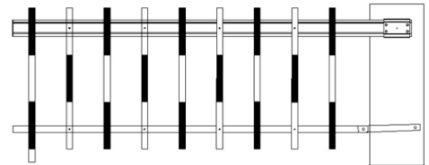
### STRAIGHT BOOM



### FOLDING BOOM



### FENCE BOOM



| OPTIONS       | OPENING AND CLOSING TIMES | MAXIMUM BOOM LENGTH |
|---------------|---------------------------|---------------------|
| Straight Boom | 1.5s                      | 3m                  |
|               | 2s                        | 4m                  |
|               | 3s                        | 4.5m                |
|               | 6s                        | 6m                  |
| Folding Boom  | 3s                        | 4.5m                |
|               | 6s                        | 6m                  |
| Fence Boom    | 6s                        | 4.5m                |



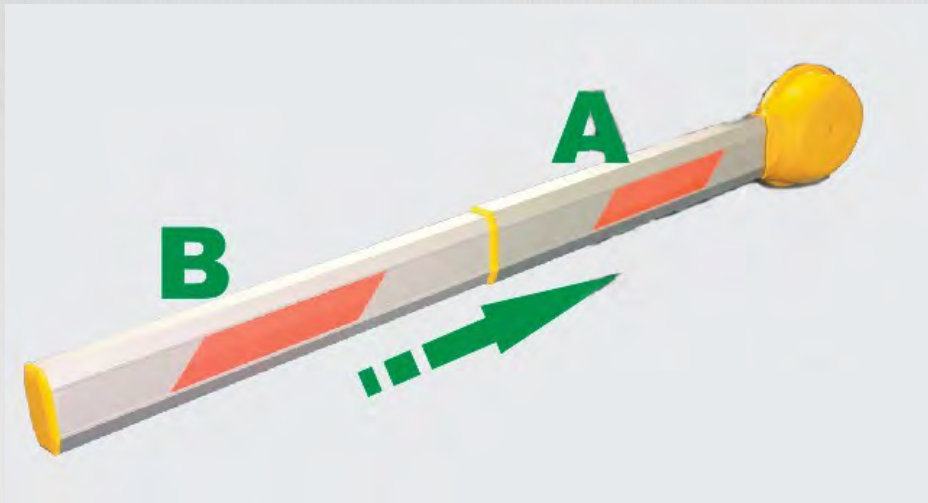
GENIUS® RAPID® ACCESS BARRIER BGST-D107 WITH FENCE





## RETRACTABLE STRAIGHT BOOM:

### EASY FOR TRANSPORTATION (OPTIONAL)



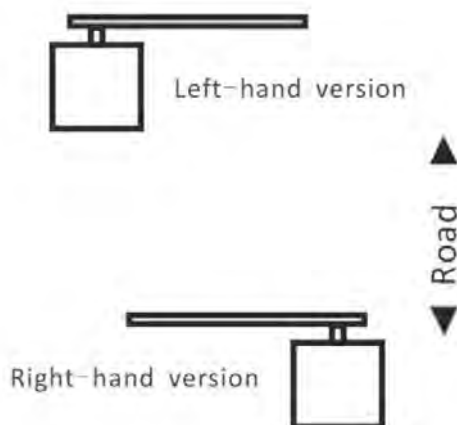
**A = MASTER BOOM**

**B=SLAVE BOOM (B<=A)**

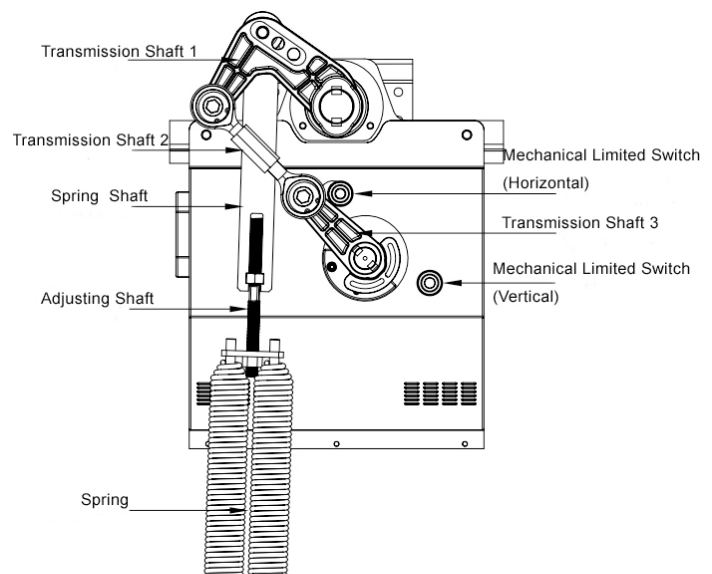
Section B can slide inside in Section A. This boom arm is designed for easy-transportation. E.g. 6m boom arm can be transported much easier and more convenient. 6m straight boom arm can be made up as follows: 4m+2m or 3m+3m.

### BARRIER LEFT & RIGHT HAND CONFIGURATION

**Direction:**



### BARRIER MECHANISM AND MOTOR ASSEMBLY





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