

HURRICANE[®] SINGLE BIOMETRIC READER MANTRAP TURNSTILES

(4-ARM) - SINGLE



BoomGate[®]
Systems (PTY) LTD

Reg.No. 98/23505/07 Engineering Access Control



DID YOU KNOW:

- BGS supplied over 300 Mantrap Turnstiles for a DCS Project.
- BGS Mantrap Turnstile weighs $\pm 100\text{kg}$ more than lesser models.
- Your turnstile comes with a 15 year mechanical warranty, the first in S.A. That is how confident we are in our product.
- You will not pay for any mechanical component in your 15 year warranty period.
- BGS has been manufacturing turnstiles for 16 years.
- Our customers range from world renowned blue chip corporations to small single users.
- BGS turnstiles are supplied complete with control panel. The control panel is suitable for battery back up. Batteries are not included. Need 2 x 7.5 amp/hour. Battery back up option comes standard on all our models at no extra cost.
- The control panel also has a 12V output for LED indicators.

SPECIAL FEATURES TO THE HURRICANE® RANGE:

- Unique "keyless square shaft®" design.
- No keys are used to secure the sprocket to the shaft. A common source of failure.
- Designed for long-lasting reliability.
- No base bearing.
- Rotor returns to locked position after every rotation.
- 4 x absorbing rubbers are fitted between mechanisms and rotor.
- Modular 11 pin programmable logic with LED indicators.
- Control panel comes standard with 12V and 24V DC output.
- Mechanical key override for both directions.
- Solenoids are rated 100% duty cycle for trouble free operations.
- Maintenance free mechanism.
- Corrosion resistant mechanism is protected with dust covers for noise reduction.
- Case hardened locking mechanism.
- Mechanical components are Die Cast, CNC machined and laser cut to the highest precision and quality.
- P/B Boxes are welded to frame.
- Shallow top channel for easy access.
- Factory tested recorded serial numbers.
- Quiet locking and unlocking mechanism.
- Manufacturer's warranty
 - **15 year mechanical warranty, first in S.A.**
 - **1 year electrical warranty**
- Draw wires are supplied to reader boxes.
- Tube spacing is 120mm below reader and 40mm at reader level making it the most secure Mantrap on the market.

INCREASE SECURITY OPTION:

Restriction bars are welded in the rotor to reduce the space available of the person entering the rotor. This is to eliminate a second person from entering without locking.

Restriction bars must be added.

TECHNICAL SPECIFICATION:

ELECTRICAL REQUIREMENTS

Power:	220V AC \pm 5% 110V AC on request
Frequency:	50Hz
Power Consumption:	50W for single turnstile
Logic Voltage:	24V DC, 12V available on request
Solenoids Voltage:	24V DC, 12V available on request
Turnstile Dimensions:	Single: 1675mm wide x 2135mm high
Rotor turning radius:	R = 590mm
Rotor arm configurations:	4-arm = 90°
Rotor arms:	50mm x 25mm x 3mm Rectangular Tube. Rotor arms are spaced at 40mm apart at Reader level and 120mm below.
Weight:	Single Full Height Turnstile 4-arm = 312kg
Modular design:	The Turnstile can be disassembled for easy transport. A disassembled Turnstile can pass through a standard door.
Export:	Turnstile arms can be disassembled and packed into purpose made pallet for export. Materials are treated for export.

SYSTEM COMPATIBILITY:

Boomgate Systems turnstiles are compatible with any biometric reader, access control, time and attendance system. Only requires a n/o voltage free input trigger set for half a second.

Turnstile only requires one bio reader.





ROTOR ASSEMBLY

Strongest in the Industry



AVAILABLE OPTIONS:

Single Only:

Electronic control Dual Direction

Power Locking Options:

Fail secure
Fail safe

Fire Evacuation Option:

Rotor will free turn when inputs are triggered permanently.
(It's not recommended to use a turnstile for emergency evacuation).

Battery Back Up:

Battery back up comes standard with all our turnstiles.
Batteries not included. Requires 2 x 7aH batteries to be connected in series. A third battery can be added for 12V back up \pm 1000 transactions.

Indication LED:

The turnstile can be fitted with red/green walking man to indicate go or stop.

Card reader brackets:

The turnstile comes standard with card reader.
Brackets for Push Buttons.
105mm wide and 140mm long welded to turnstile frame.

Accessories available on request:

Random search selector.
Capacity counter with LCD display.

Canopies available on request:

Boomgate Systems has standard ranges of canopies available for the single full height turnstile. We manufacture on request.

Material options:

Mild steel powder coated with textured exterior UV resistant powder.
Mild steel hot dip galvanised.
Mild steel hot dip galvanised and powder coated.
304 stainless steel brushed.
316 stainless steel brushed for extreme conditions.
Standard colours for M/S powder coated are Black.
See Boomgate Systems website for corrosion protection.

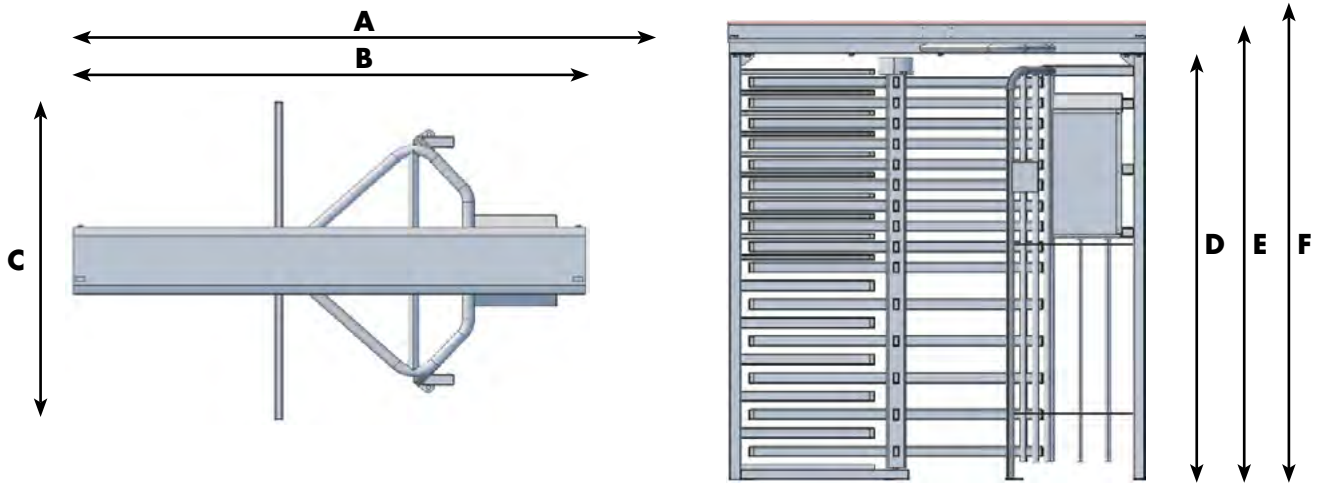
www.boomgatesystems.co.za



HURRICANE® MANTRAP TURNSTILE



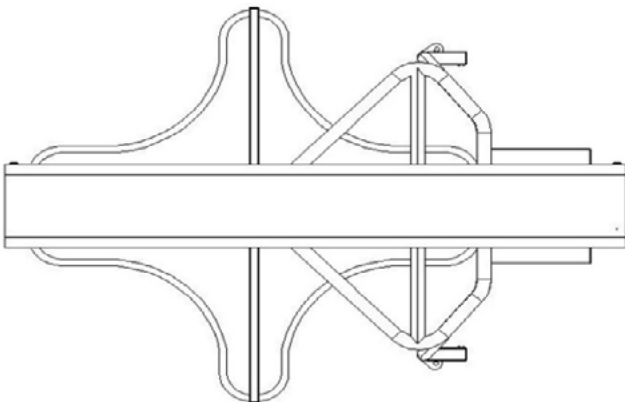
HURRICANE® MANTRAP SINGLE TURNSTILE



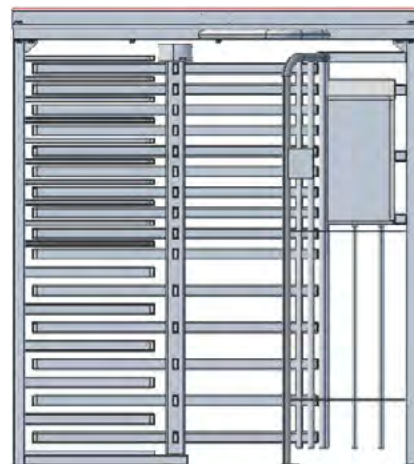
DIMENSIONS

A	Recommended Opening Width	1700mm	D	Headroom	1987mm
B	Turnstile Width	1676mm	E	Turnstile Height	2135mm
C	Turnstile Depth	1182mm	F	Recommended Opening Height	2260mm

MAXIMUM SECURITY OPTION



Restrictor Bars can be welded to the turnstile in order to limit the amount of space.



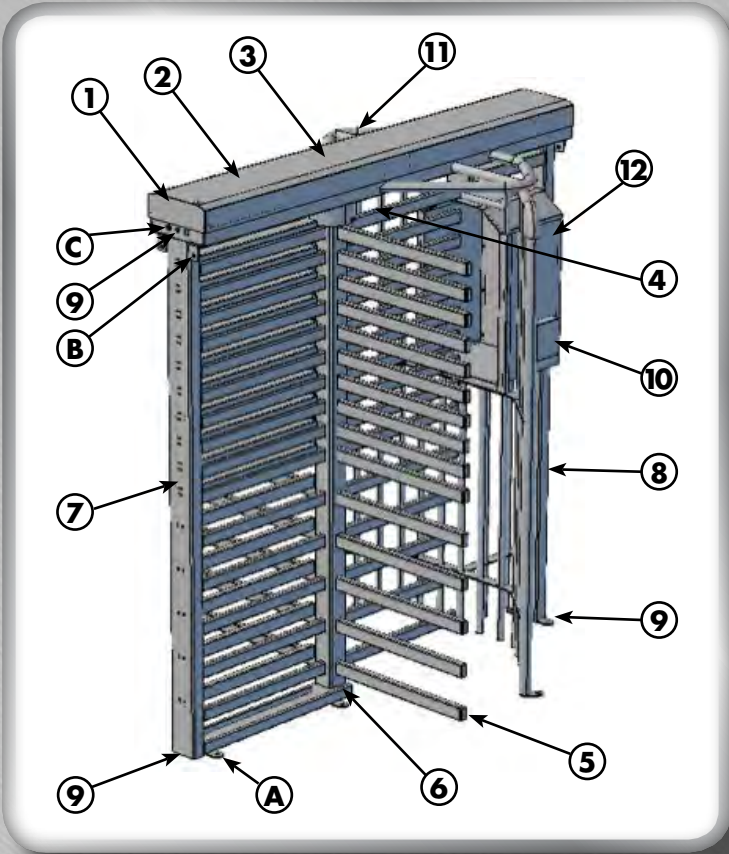
RESTRICTION BAR



SPECIFICATION FOR ARCHITECTS: Boomgate Systems Hurricane® Mantrap Turnstiles ultra secure single reader turnstile complete with restrictor bar.

Due to continuous improvement, products and design are subject to change without notice.

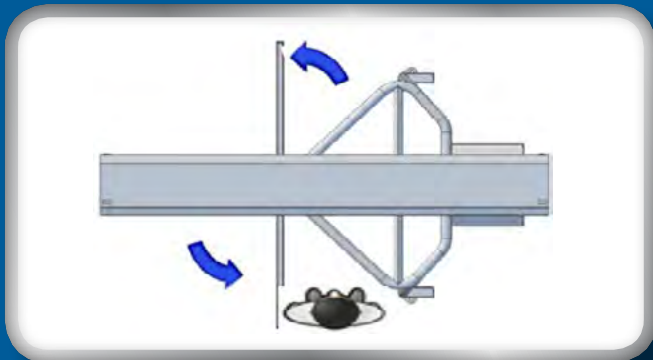
HURRICANE® MANTRAP TURNSTILE:



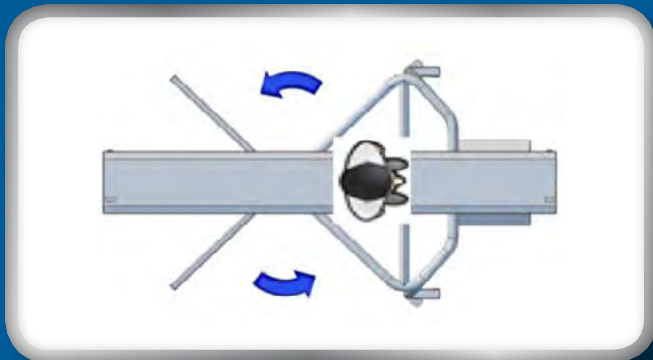
- A. Floor mounting lugs x 7
- B. Side wall mounting lugs x 4
- C. 2 X 16mm kick bolt

1. Lockable top channel cover c/w 2 x locks
2. Top channel
3. New design mechanism c/w
 - a. 15 year warranty
 - b. Unique "keyless square shaft®"
 - c. Suspended rotor
 - d. Dust cover
4. Rotor coupling c/w 4 x shock absorbing rubbers
5. Rotor with 50mm x 25mm x 3mm rectangular tube spaced 40mm apart at reader level and 120mm below reader
6. Rotor centre guide
7. L-Frame
8. Side frame c/w 2 x Push Button boxes welded to the frame
9. Cable entry
10. Box for Push Button
11. Over Head Restriction bar to prevent a person from climbing out of the turnstile then lock at 45° position
12. Bioreader protection enclosure. To prevent clocking from outside the turnstile.

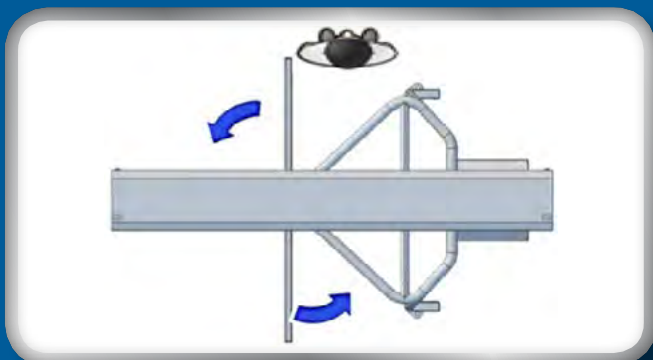
MODE OF OPERATION:



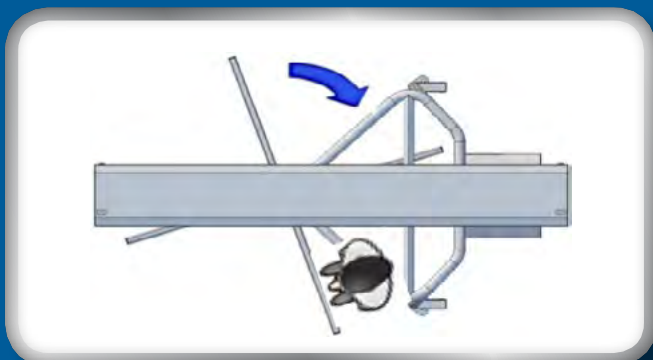
STEP 1: Press push button to enter the locked turnstile



STEP 2: Rotor locks at 45° reader is armed for verification



STEP 3: If access is allowed, rotor will unlock and allow entry



STEP 4: If access is denied, rotor will unlock and allow exiting



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Manufacturers & Suppliers of:

- Traffic Barriers
- High Security Spike Barriers
- Road Blockers
- Turnstiles
- Security Booths
- Pedestrian Barriers
- Paraplegic Gates
- Speed Gates
- Bollards
- Goosenecks
- Magnetic Locks
- Metal Enclosures
- Rubber Islands