

HURRICANE®
HAND SANITISER
MANTRAP
TURNSTILE
(4ARM)- SINGLE



BoomGate
Systems (PTY) LTD
Reg No. 2015/0009107 Engineering Access Control





MARKET LEADER



- Hand Sanitiser Turnstile
- High performance ultra quiet rotation.
- Reliable, durable, virtually no maintenance.
- Export worldwide.



APPLICATIONS:

- To positively identify the user in the turnstile
- Take a temperature reading
- Sanitise hands and feet.



CONFIGURATIONS:

- | | |
|----------------------|---|
| • 4-arm (90°) | • Mild steel galvanised to SABS Standards |
| • Single only | • Stainless steel 304 |
| • Mild powder coated | • Stainless steel 316 |



SECURITY LEVEL RATING: (LOW / MEDIUM / HIGH / ULTRA SECURE)

TYPE	HURRICANE	LOW	MEDIUM	HIGH	ULTRA SECURE
4-ARM	SINGLE				X

DEFINITION:

Security rating is based on when the turnstile is in the locked position.

Level of security is based on entry through the turnstile without unlocking the rotor and the use of access control system.





MODE OF OPERATION:

There are two Modes of Operation:

- Turnstile is **Unlocked and Free Turning** letting the user in and then locks at 45 degrees.
- Turnstile is **Locked**, you enter by means of Access Control - Facial Recognition or Morpho Wave Scanner; you can also use the Wave Button to enter the Turnstile.

OPERATION:

- Once you are inside the Turnstile and the Rotor is locked at 45 degrees, the facial recognition camera with built in infra-red temperature scanner will scan the user.
- If scanning is approved, the Hand and Foot Sanitizer will now be activated, user will have to move their hands under a sensor to activate the Sanitiser. The Hand and Foot Sanitiser will spray for one second (spray time adjustable).
- If the above process is completed, the Turnstile will unlock and allow access.

OPERATION FAILURE:

- If a person is inside the Turnstile and he fails the temperature scanner test, the Hand Sanitizer will not activate, the Turnstile will unlock and Access will be denied and the Rotor will unlock and the user will exit. The Turnstile will now be ready for the next transaction.
- If the Rotor is prevented from locking in the 45 degrees position due to operator error, an alarm will be activated.
- If the Rotor is turned into the 45 degree position and locks, and the Facial Recognition System is not detecting the user, the Rotor will unlock and access will be denied.
- If a person is inside the Turnstile and the Facial Recognition System does not activate due to system failure, the Turnstile will unlock in a pre-set time and access will be denied. This is a safety feature not to lock a person inside the Turnstile due to system failure.
- All transactions are time based and if the user takes too long to complete the process, the Rotor will always unlock and access will be denied.
- If there is a complete power failure the Rotor will unlock and let the user out.



**Facial Recognition
with
Temperature Scanner**

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:

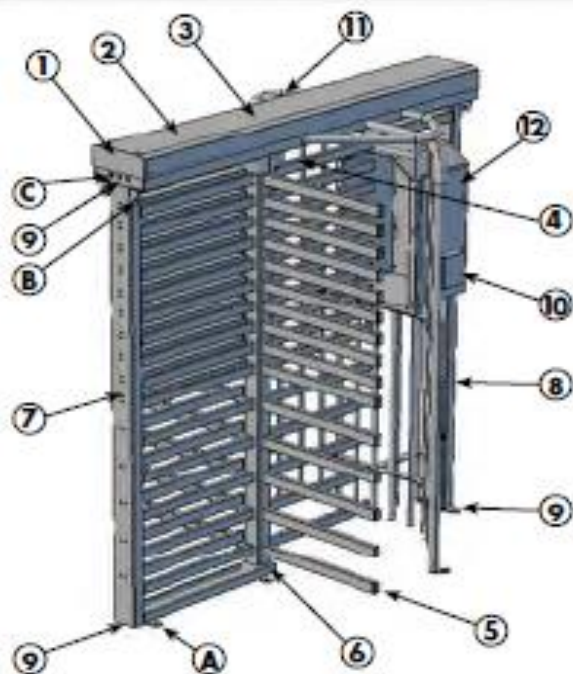
Mild steel powder coated with textured exterior UV resistant powder.
Mild steel hot dip galvanised.
Mild steel hot dip galvanised and powder coated.
304 stainless steel brushed.
316 stainless steel brushed for extreme conditions.
Standard colours for M/S powder coated are Black.
See Boomgate Systems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



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

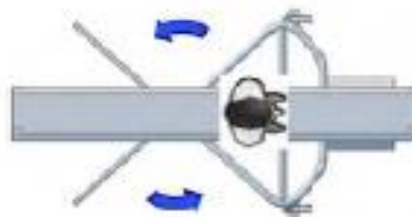
1. Lockable top channel cover c/w 2 x locks
2. Top channel
3. New design mechanism c/w
 - a. 15 year warranty
 - b. Unique "keyless square shaft"
 - c. Suspended rotor
 - d. Dust cover
4. Rotor coupling c/w 4 x shock absorbing rubbers
5. Rotor with 50mm x 25mm x 3mm rectangular tube spaced 40mm apart 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 clacking from outside the turnstile.



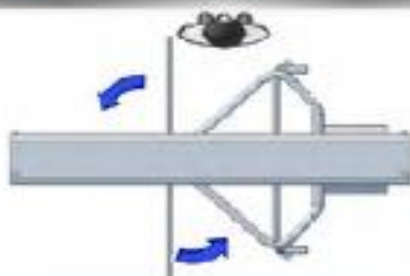
MODE OF OPERATION:



STEP 1: Enter Turnstile with Access Control



STEP 2: Rotor locks 45°, 3-step security check



STEP 3: Access is allowed, rotor will unlock - entry



STEP 4: Access denied, rotor will unlock - exit



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.
- 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.



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