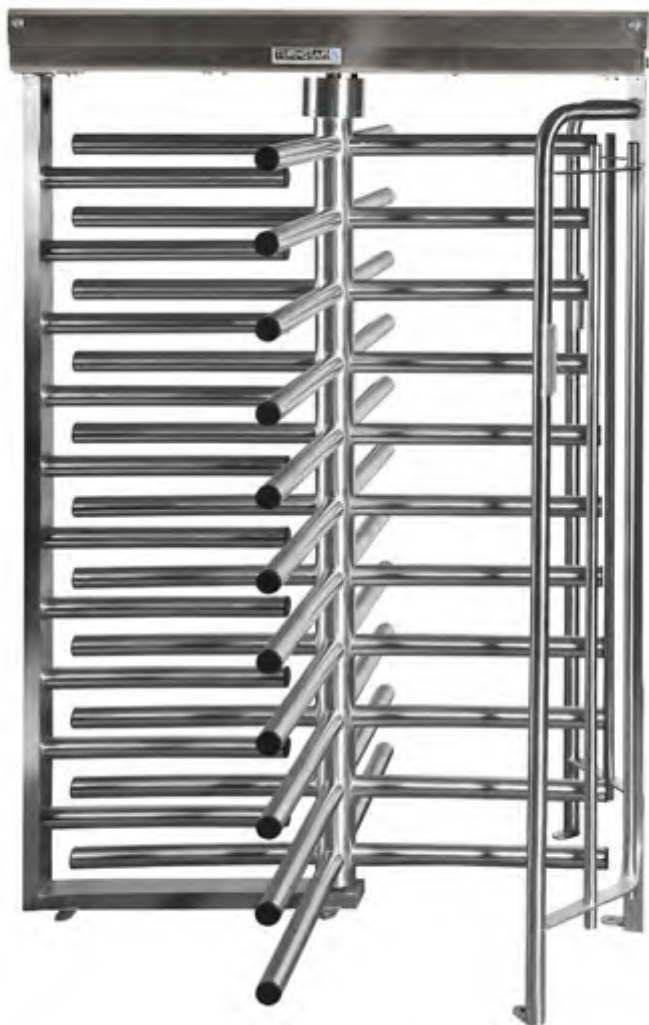
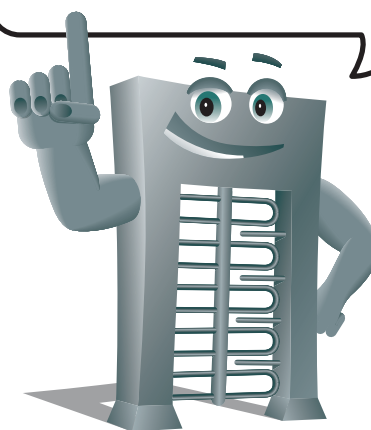


# TITAN

## FULL HEIGHT INDUSTRIAL TURNSTILE



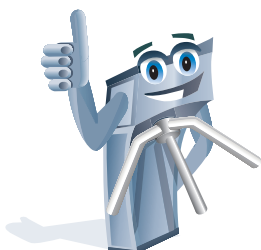
**We are the leaders!**



Turney™ is a member of the Turnstar family

- The TITAN is a high security, aesthetic choice for your entrance
- The TITAN provides a high level of perimeter security
- Exported worldwide

<b>APPLICATIONS</b>	<ul style="list-style-type: none"><li>• Suited for applications requiring high volume access and high levels of security</li><li>• Used extensively in applications such as mines, factories, warehouses, colleges and stadiums</li></ul>
<b>DESIGNED FOR</b>	<ul style="list-style-type: none"><li>• Interior and exterior installations</li><li>• Severe operating conditions</li></ul>
<b>AVAILABLE CONFIGURATIONS</b>	<ul style="list-style-type: none"><li>• 3 arm (120°) and 4 arm (90°)</li><li>• Single and Double</li></ul>



Tridey, and Traffey™ are members of the Turnstar family

**TURNSTAR**   
RELIABLE ★ DURABLE ★ GUARANTEED

## What do you need to know when buying a turnstile?



### **In terms of the price, is the turnstile supplied complete or are there any hidden extras?**

Turnstar units are supplied 100% complete. Control panels are ready for power and data connections. Reader mounting brackets are available for full height turnstiles for the mounting of access readers, ticketing equipment, pushbuttons and coin or token acceptors.



### **What are the running costs?**

With a long-established reputation for being exceptionally reliable and durable, Turnstar turnstiles are built to give years of cost-free and fault-free service with no routine maintenance. Our products are a fit-and-forget solution.



### **Is this turnstile robust enough for the job? Am I going to have failures during service?**

Turnstar products are designed for the harshest of environments and have become the standard for Africa's mining industry, which is known for extreme operating conditions. Production is carried out by state-of-the-art CNC machinery and robotic welding, all of which provide products of the highest quality and to the tightest of tolerances.



### **How long is the guarantee and is this an extra cost?**

Turnstar's industry leading Five-Year Guarantee is included in the purchase price.



### **What does the guarantee cover?**

All mechanical components, including ratchet disk and locking pawls, are covered by the Turnstar Five-Year Guarantee. The control panel, microswitches and solenoids are covered by a one-year guarantee.



### **Can you trust the turnstile supplier?**

Established in 1990, Turnstar has manufactured and sold over 20 000 turnstiles. Our customers range from the world's largest blue chip corporations to single-site retailers. As one of the world's leading manufacturers, we have an unrivalled reputation for outstanding products backed by superior customer service.



### **Will the turnstile work with all types of access systems?**

Turnstar turnstiles operate with all forms of electronic access control, ticketing and time & attendance systems. In addition, they can be operated with pushbutton controls, remote transmitters and coin or token acceptors.



### **What will happen to the turnstile in the event of a power failure?**

The turnstile can be factory-set for either fail-secure (auto-lock on power failure) or fail-safe (auto-unlock on power failure) operation. The turnstile can also be unlocked by means of the mechanical key override which is supplied standard with the turnstile. A battery backup system is also available on request, which will provide normal operation under conditions of no power.



### **What other products are available with the turnstile?**

Turnstar manufactures pedestrian gates and security barriers for use with all our turnstiles. We also supply special colours, and manufacture turnstiles in custom sizes and designs.



INDUSTRIAL & COMMERCIAL



STADIUMS



MAXIMUM SECURITY



RECEPTION AREAS

# Unique features of the TITAN turnstile range

## ROTALOK® ROTATION LOCKING MECHANISM

- Fitted to all TITAN turnstiles
- Ultra heavy-duty electromechanical rotation locking mechanism
- Bi-directional operation
- Designed by professional engineers
- Tried, tested and perfected over a period of more than 20 years

### RELIABLE



### TECHNOLOGY

- Suspended rotor technology – eliminating stress on the base bearing
- Self-centering rotation system – rotor returns to starting position after every rotation
- Shock absorbing rubber coupling system
- Anti-trap® safety system - no mid-rotation locking or trapping in the event of a power failure
- Programmable PLC logic with user diagnostic features
- Mechanical key override – clockwise and anticlockwise directions

### DURABLE



### FEATURES

- Zinc plated for corrosion resistance
- Ultra quiet, buffered solenoids and pawls
- Solenoids rated for 100% duty cycle
- Case hardened locking disk and pawls – eliminating any wear
- Factory settings need no further adjustment
- No routine maintenance whatsoever, ever

### GUARANTEED



### MANUFACTURED TO LAST

- 5 year mechanical guarantee
- 1 year electrical guarantee

## ROTARUN® PERPETUAL BASE BEARING

- Fitted to all TITAN turnstiles

### RELIABLE



### TECHNOLOGY

- Combination of stainless steel and self-lubricating engineering plastics

### DURABLE



### FEATURES

- Designed for the harshest of conditions
- 100% corrosion resistant
- Unaffected by dust, dirt or moisture
- Self-lubricating

### GUARANTEED



### MANUFACTURED TO LAST

- Zero maintenance
- 5 year guarantee

## Technical Specifications

<b>POWER</b>	220 Volt AC (110 Volt AC on request)	
<b>FREQUENCY</b>	50Hz / 60Hz	
<b>POWER CONSUMPTION</b>	50W (single turnstile) / 100W (double turnstile)	
<b>SOLENOID VOLTAGE</b>	24 Volt DC (12 Volt DC on request)	
<b>LOGIC VOLTAGE</b>	24 Volt DC	
<b>DIMENSIONS</b>	Single turnstile:	<ul style="list-style-type: none"> <li>• 1 400mm wide x 2 125mm high</li> <li>• 1 430mm wide x 2 250mm high - recommended minimum opening size</li> </ul>
	Double turnstile:	<ul style="list-style-type: none"> <li>• 2 150mm wide x 2 125mm high</li> <li>• 2 180mm wide x 2 250mm high - recommended minimum opening size</li> </ul>
<b>ROTOR DIAMETER</b>	1 200mm	
<b>ROTOR ARM CONFIGURATION</b>	<ul style="list-style-type: none"> <li>• 3 arm (120°)</li> <li>• 4 arm (90°)</li> </ul>	
<b>ROTOR ARMS</b>	50mm diameter tube arms spaced 120mm apart	
<b>WEIGHT</b>	Single turnstile (4 arm)	160kg
	Double turnstile (4 arm)	255kg
<b>DESIGN</b>	Modular bolt-together design for ease of transport and installation. Components can pass through a standard door. Can be packed in broken-down form either onto a pallet or into a crate for transport	
<b>SYSTEMS INTEGRATION</b>	<ul style="list-style-type: none"> <li>• Integrates with all access control and time &amp; attendance systems</li> <li>• Unlocking for entry / exit rotation controlled through normally open dry contact</li> <li>• Transaction / Rotation complete output</li> <li>• Integral wireways with draw wires in place – no exposed wires</li> </ul>	

## Manufacturing options

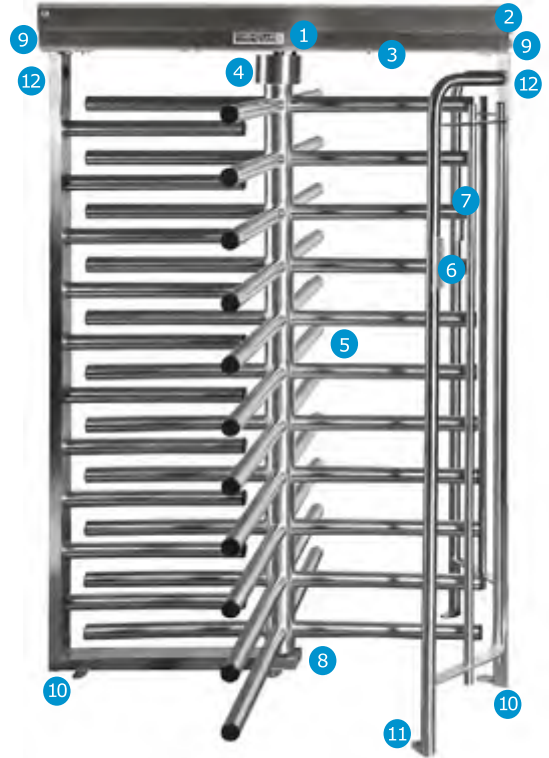
<b>ROTATION OPTIONS</b>	<ul style="list-style-type: none"> <li>• Electrically controlled bi-directional rotation (factory standard)</li> <li>• Mechanically controlled uni-directional rotation by means of key override</li> <li>• Free rotation</li> </ul>
<b>LOCKING OPTIONS</b>	<ul style="list-style-type: none"> <li>• Fail-secure auto-lock on power failure (factory standard)</li> <li>• Fail-safe auto-unlock on power failure</li> <li>• Each direction of rotation configurable for either fail-secure or fail-safe operation</li> </ul>
<b>FIRE ALARM OPTIONS</b>	<ul style="list-style-type: none"> <li>• Free rotation when triggered indefinitely (logic programmed for either direction of rotation on request)</li> </ul>
<b>POWER OPTIONS</b>	<ul style="list-style-type: none"> <li>• Battery backup with two 12 volt 7Ah batteries connected in series <ul style="list-style-type: none"> <li>o Up to 1 000 transactions in fail-secure mode</li> <li>o Up to 60 minutes operation in fail-safe mode</li> </ul> </li> </ul>
<b>FLAT ROOF CANOPY OPTION</b>	<ul style="list-style-type: none"> <li>• Provides protection from the elements</li> <li>• Anti-climb protection</li> <li>• Low energy light on underside of canopy</li> </ul>
<b>SPECIAL PHYSICAL DESIGN OPTIONS</b>	<ul style="list-style-type: none"> <li>• Restrictor tubes for increased security (4 arm turnstile only)</li> <li>• 180° rotation setting for extra walkthrough space (4 arm turnstile only)</li> <li>• Special narrow single turnstile design of 1 200mm wide</li> <li>• Special split cover for low ceilings</li> <li>• Special internal mechanism dust cover for dirty environments</li> <li>• Heavy-duty base for portability (with forklift channels)</li> </ul>
<b>ACCESSORY OPTIONS</b>	<ul style="list-style-type: none"> <li>• Card / Proximity reader mounting brackets</li> <li>• Biometric / Fingerprint reader mounting brackets</li> <li>• Single / Double pushbutton in plastic housing</li> <li>• LED red cross &amp; green arrow indicator light</li> <li>• Multiple coin acceptor for pay-for-entry systems</li> <li>• LCD transaction counter with reset key switch</li> <li>• Random search device</li> </ul>
<b>FINISH OPTIONS</b>	<ul style="list-style-type: none"> <li>• Mild steel with UV resistant polyester exterior powder coat finish (charcoal blue hammertone) <input type="checkbox"/></li> <li>• Mild steel with hot dip galvanised finish <input type="checkbox"/></li> <li>• 304 grade brushed stainless steel</li> <li>• 316 grade brushed stainless steel <input type="checkbox"/></li> </ul>
	<ul style="list-style-type: none"> <li><input type="checkbox"/> suitable for corrosive environments (details available on request)</li> <li><input type="checkbox"/> other colours available on request</li> </ul>





# STAR QUALITIES

- 1 Rotalok® rotation locking mechanism and electronic control panel
  - Incorporates:
    - Anti-Trap® safety system
    - Suspended Rotor technology
- 2 Lockable top cover
- 3 Mechanical key override
- 4 Shock absorbing rubber coupling
- 5 50mm diameter tube arms spaced 120mm apart
- 6 Access control reader mounting position
- 7 LED indicator light mounting position
- 8 Rotarun® perpetual base bearing
- 9 Wiring side entry point
- 10 Wiring bottom entry point
- 11 Floor bolting positions - 7 Off
- 12 Wall bolting positions - 2 Off



2. Lockable top cover



6. Access control reader mounting position (optional bracket shown)



9. Wiring side entry point  
12. Wall bolting position



Flat roof canopy option for full height turnstiles



# STAR MODELS

TITAN 3 SINGLE



TITAN 3 DOUBLE



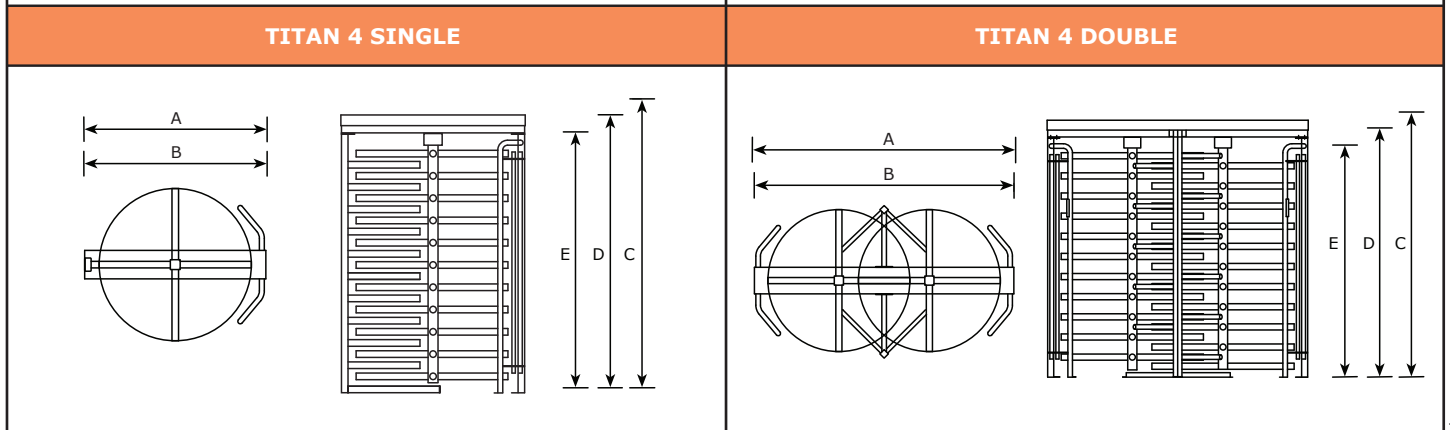
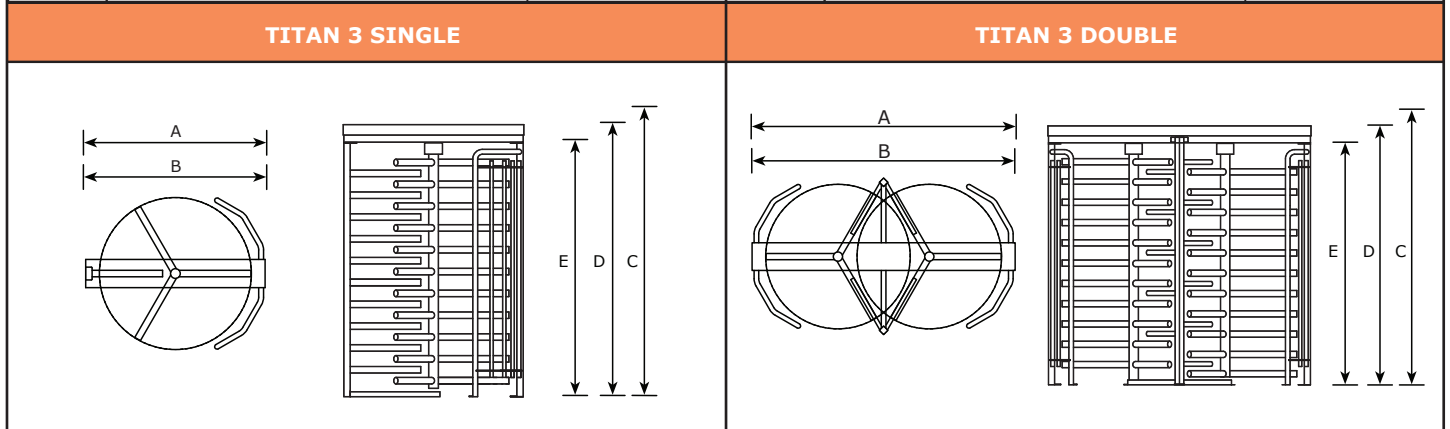
TITAN 4 SINGLE





# TITAN RANGE

TITAN SINGLE RANGE			TITAN DOUBLE RANGE		
A	Recommended opening width	1 430mm	A	Recommended opening width	2 180mm
B	Turnstile width	1 400mm	B	Turnstile width	2 150mm
C	Recommended opening height	2 250mm	C	Recommended opening height	2 250mm
D	Turnstile height	2 125mm	D	Turnstile height	2 125mm
E	Headroom	1 986mm	E	Headroom	1 986mm



Due to our policy of continuous improvement, products are subject to change without notice. Custom designs available on request.

© Turnstar Systems 2011



# STAR ADDITION

TURNSTAR manufactures a wide range of full height security gates and barriers to compliment your turnstile installation. The security gates can be fitted with a number of different locking options and are the perfect solution for special needs access through your entrance.



- Sole supplier of turnstiles to the ICC Cricket World Cup 2003
- Sole supplier of turnstiles to the CAF African Cup of Nations, Ghana 2008
- Sole supplier of turnstiles to the Green Point, Soccer City, Ellis Park, Loftus Versveld, Royal Bafokeng, Bloemfontein, Nelspruit and Polokwane South African National Football Stadiums