



Automatic Doors & Gates  
Automatic Barriers & Blockers  
Security and Area Control Technologies.  
Traffic Technologies



## Good Reasons To Choose & Install Our Products Range

### Quality:

Design, Choice of materials and components, assembly, installation and maintenance. These are the principles for our products range which have been acknowledged and granted to obtain a functional quality.

### Safety:

All the mechanical and electronic system used comply with regulations in force, thus ensuring the maximum safety during operation,

### Warranty:

The Company ensures 1 year of warranty on the products and accessories sold. A professional and widespread network of specialized centers takes care of direct maintenance and assistance over the system installed.

### Reliability

The soundness of products and the attention to any installing problem distinguish the style of our trademark. Warranty of reliability seriousness and durability.

### Accuracy:

Years of experience as specialists are important to improve the products develop the training of our technicians and installers, and ensure accuracy and reliability to all professionals.

### Innovation:

Our products range trademark with a constant eye to market evolution offers advanced solutions both in terms of aesthetics and functionality but always focusing on soundness and reliability.

### Design:

Now a days aesthetics and design are important assumptions for any project and product. These features are always combined with the use of these products are intended for and with their installation. In this way, the value of the products becomes higher year after year.



# ABOUT US

# ZAMTAS

ZAMTAS INTERNATIONAL PRIVATE LIMITED.

ZAMTAS deals in design, manufacture ,supply of Automatic Door opeartors for commercial and Residential Door Entries, Industrial Doors, Access Control and Traffic Products.

ZAMTAS Solutions Pakistan provides high quality products at competitive prices backed by the highest standard to achieve total customer satisfaction. Our experienced and highly professional team of managers, engineers and technical staff, is ready to deliver a wide range of services and products as per customer requirements. We provide customer sales, technical support and installation commissioning for our products and also assist companies involved in the supply and installation of our range of products, we provide complete product solution with technical support for installation.

Our Automatic Door and Access Technologies, include:

- Commercial and Domestic Sliding and Swing doors
- Automatic Sliding and Swing Gate systems
- Traffic Barriers
- Industrial Doors Products and Solutions
- Pedestrian Barriers and Access Control
- Accessories and Parts for Automatic Doors

Traffic Technologies

- Traffic Lights
- Street and urban Lighting
- Traffic Controllers, Flxed time, Adaptive and Urban Traffic control solutions, including SCATS.
- Pedestrian Traffic management products and solutions.
- Traffic parts and accessories.
- Variable Message Signs, Solar Speed Warning Signs and Parts

Security and Area Control Technologies.

- Baggage Scanners and Metal Detector Products.
- Access Control Solutions Entry/ Exit Control
- Vehicle detection sensors.

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# Innovative 5

## Heavy Duty Automatic Sliding Door Operator

The innovative 5 operator is suitable for frameless and framed doors up to 200kg per leaf, and clear opening width up to 3000mm.

It is adaptable to all types of door frame profiles, up to a width of 65mm, and designed for a heavy traffic flow.

The innovative 5 is a modular slider, with a motorisation system of a length of 570mm, including aluminium support and cover, DUNKER gearmotor, control board, power supply and emergency battery pack. Its versatility allows to fit single and bi-parting leaf doors of different passage widths.

The motorisation is preassembled and pretested, making it quick and easy to install by one person. Just fix the support profile, hang the leaves, adjust the drive unit, connect the sensors, electrolocks or other devices, and the system will be ready to use.

**Powerful:** The right operator for higher and heavier doors.

**Safety:** Designed in compliance with the safety standards EN16005

**Movement:** Silent and dynamic movement on opening and on closing

**Use:** Intensive

**Encoder:** Precise control of the door positioning

### The Innovative 5 operator Features:

- 1 Heavy duty operator profile
- 2 German Designed Gearmotor
- 3 Microprocessor based controller
- 4 Digital Programmer for mode operation
- 5 Optional battery backup
- 6 Provision to interface with building security systems

### Innovative 5 aluminium profile:



Available lengths: 2100mm, 3200mm, 4200mm, 6400mm



passed CE certification



Life cycle Approved by TUV



With 100W motor Max door weight 200kg



36 months warranty

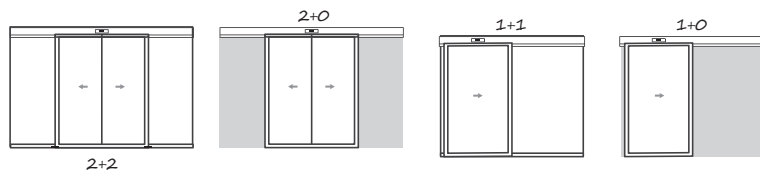
## ADVANTAGES

- **Motor:** Permanent magnet motor of 24Vdc
- **Carriers:** Strong, adjustable and made up of three interchangeable wheels.  
The central wheel prevents possible derailments due to impacts.
- **Belt:** Neoprene with a fiberglass core HTD 8m (8mm tooth pitch).
- **Controller:** Microprocessors control which allows a very precise movement control.  
It monitors the motor intensity & temperature, the battery voltage & charge level, the electromagnetic lock position, and the safety sensors.  
Motor force control system with obstacle detection for users' safety.  
Same controller for all zamtas sliding door operators.
- **Battery:** Fail safe / fail secure system in case of a power supply failure.

## TECHNICAL FEATURES

	Single leaf door (1 moving leaf)	Bi-parting double leaf door (2 moving leaves)
Free passage width (Min-Max)	600-2000mm	1000-2000mm
Max. leaf weight	150kg	2*125kg
Max. Leaf width	2000mm	1500mm
Min. Leaf width	750mm	550mm
Max. leaf height	3000mm**	
Opening speed (Min-Max)	15-45cm/sec	15-45cm/sec
Closing speed (Min-Max)	15-45cm/sec	15-45cm/sec
Power supply	AC 100 - 240V - 50/60Hz	
Motor power supply	24Vdc	
Operator max. consumption	100W	
Batteries	24V Ni-Cd (800 mA)	
Relative humidity	10% to 90% without condensation	
Operating temperature	- 10°C / +50°C	
Use	Intensive	
IP - Protection class	IP20	

## DOOR CONFIGURATIONS



## INSTALLATION LAYOUT



## ACCESSORIES

### PROGRAMMER SELECTOR

#### DIGITAL PROGRAMMER AND MODE SELECTOR



#### Mechanical Key switch (Working modes)



### KEY SWITCHES

#### Switch key lock (surface mounted)



#### Switch key lock (flush mounted)



### SENSORS

Infrared sensor with door learn technology, activation and safety functions.  
Uni-directional and EN16005 compliant.

Infrared and microwave sensor with door learn technology, activation and safety functions.  
Uni-directional and EN16005 compliant.



Microwave sensor  
(activation). Bidirectional



Touchless microwave  
sensor (activation)



### SELECTORS AND ACCESSORIES

#### 1) WIRELESS SELECTOR

Remote wireless device for selecting operating modes.

#### 2) SELECTOR WITH KEY

Device with key for selection of operating modes.

#### 3) DIGITAL SELECTOR

Digital device for selection of operating modes.

#### 4) OPENING PUSH-BUTTON

Push-button opening activation device.

#### 5) CONTACTLESS OPENING PUSH-BUTTON

Opening activation device without contact.

#### 6) RECESSED EXTERNAL KEY

Opening activation device with a key

#### 7) EXTERNAL KEY

Opening activation device with a key

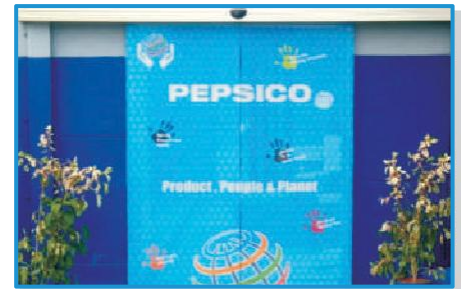
#### 8) ELECTROMECHANICAL LOCK

## Automatic Sliding Doors



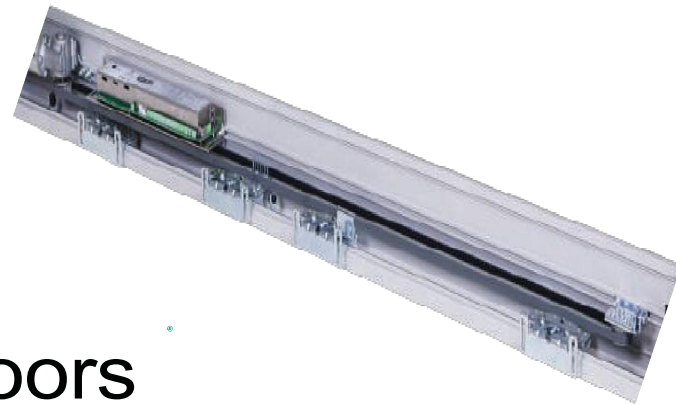
### **FEATURES**

- Slim Line Modern Design
- Australian Made
- Designed for New Standards
- Quiet Operation
- Compact Modular Motor Design
- High Security Electric Locking
- No Exposed Wiring
- Energy Efficient



### **FRAMED & FRAMELESS GLASS DOORS ENTRIES**

*The latest digital microprocessor controlled drive module which contains the entire operating component in a single housing to ease of service and maintenance.*



## Automatic Swing Doors



### **FEATURES**

- Hi-Tech Modulised and Packed With Features
- Australian Standard Compliant
- Performance Upto 300 kilogram Door Weight
- High Quality Value for Money
- Performance at an Affordable Price





## Automatic Sliding Gates

### FEATURES

- "Soft Stop" Opening & Closing
- Waterproof
- Energy Efficient
- Available in AC & DC modules
- Australian designed



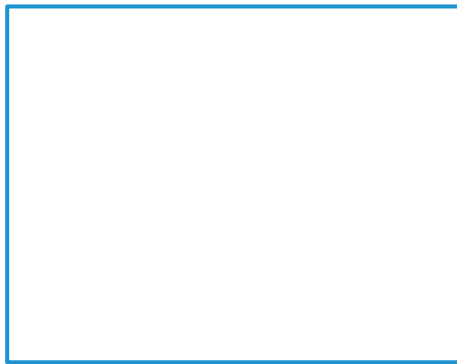
**ZAMTAS Gates,** We provide reliable and high quality automatic gate operators that meets harsh international standards. A range of models to cope with both domestic and commercial environment.



## Automatic Swing Gates

### FEATURES

- "Soft Stop" Opening & Closing
- Anticrush Safety
- Energy Efficient
- Available in AC & DC modules
- Australian designed





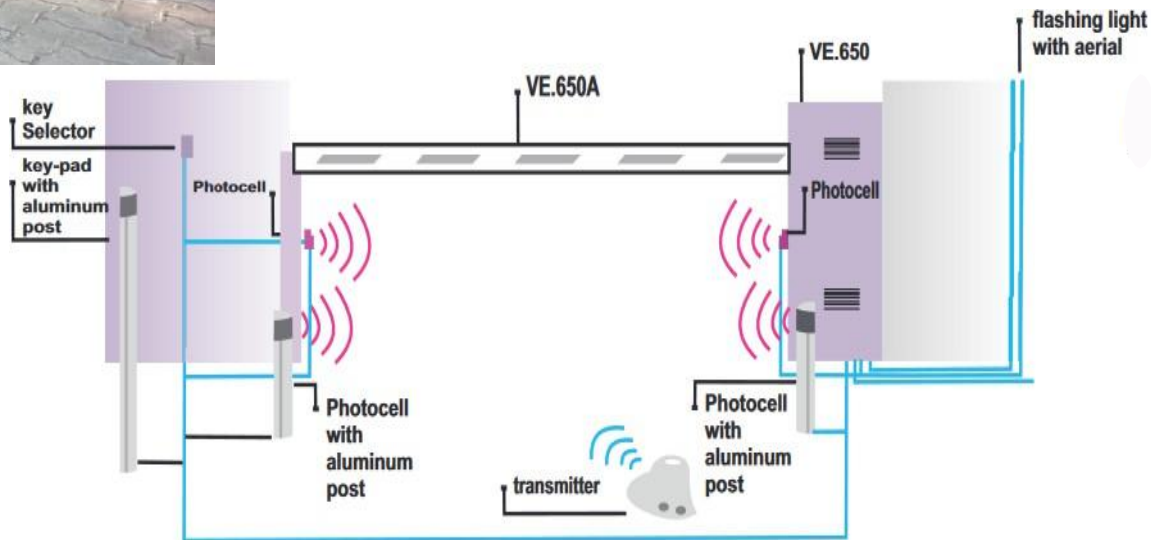
# Automatic Road Barriers



At Zamtas Technology we specialize in Boom barriers, have a range of models to cope with both congestion traffic and broder lanes.

## FEATURES

- Model ZAM-EASY-4M
- Boom Length upto 4M
- Parking Barrier 4M
- ZAMTAS Parking Barrier
- Opening and Closing Speed 3 Sec.
- Electromechanical barrier for passages up to 4m, intensive use.
- Easy to use external manual unlock device Galvanized and painted to avoid corrosion.
- Speed, strength and soft stop start adjustable for an always correct use and performance.
- The control panel is included and it is prepared for the installation of a back-upsystem.
- Low maintenance required.



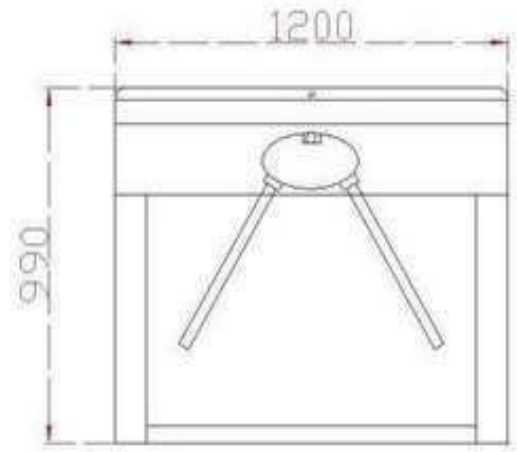
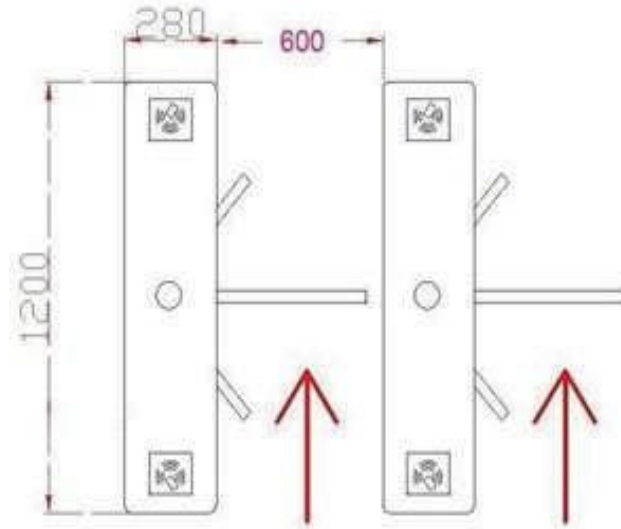
Boom arm length	4M
Opening and closing times	3 sec
Voltage	220V/110V +-10%
Frequency	50HZ/60HZ
Motor power consumption	100W
Working temperature	-40° to 85°
Housing dimension	330(Width)*280(Depth)*980 (Height)mm
Weight not including barrier boom	55kgs
Drive	Torque motor
Maximum Remote Control Distance	50m

## Tripod Turnstiles



### FEATURES

1. Auto-reposition function: After card read, if pedestrian does not pass within regulated time period, turnstile will be locked automatically.
2. Bi-direction passing or uni-direction.
3. When power off, arm will be dropped automatically.
4. Self-lock function: arm will be locked automatically after passenger passing.
5. LED passing arrow can show direction to indicate passenger to pass.
6. Standard interfaces are convenient for connection with different readers which can send relay signal.
7. RS485 interfaces can connect turnstile with computer directly.
8. Stable running with little noise.



Parameters:	
1. Power Supply:	AC220V±10V ,50Hz / AC110V±10V ,60Hz
2. Power Consumption:	100W
3. Temperature:	-15 to 60 degrees
4. Humidity:	<95%, without concretion
5. Passage Width:	600mm
6. Passing Speed:	30 persons/min (normal open), 20 persons/min (normal close)
7. Arm Open/Close Time:	2s
8. Input Interface:	+12V electrical signal or impulse signal with width more than 100ms, drive current >10mA
9. Communication Interface:	RS485 (Distance: <=1200m)
10. Working Environment:	Indoors or outdoors with shed
11. Arm Turning:	Uni-direction or Bi-direction

## Automatic Flap Barriers

The flap barriers, used for automatic human access, are installed in areas such as railway platforms, passenger terminals, ferry terminals, airports, checkpoints, factories and stadium. They can be installed with ticketing systems and card readers for quick and automatic clearance.

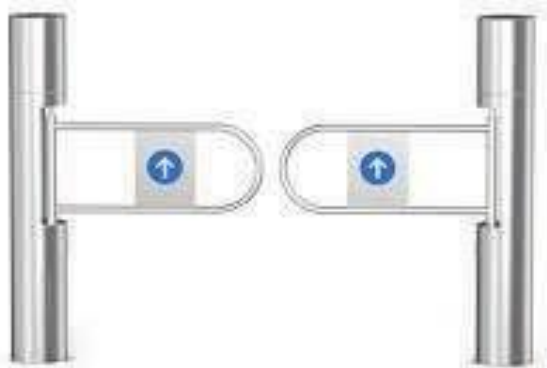


Product Model	TPM007
Features:	The lanes can be configured for entry, exit or bi-directional access. The acrylic will retract upon receiving valid signal and close immediately after the pedestrian crosses.
Housing:	The side hinge door provides an easy avenue for maintenance. Customization to include card reader, biometric finger print, ticket collection etc., is possible.
Materials:	The barriers can be made from SS316 (stainless steel), SS304 (stainless steel), or mild steel powder coating.
Detection Beams:	Each lane comes with Infrared (IR) beam sensor to ensure safe access. It can be extended to detect 3 levels of heights, including height of children, which are lower.
Safety:	The motor will disengage when an object tries to block the flap from closing, providing an additional safety mechanism for the pedestrian.
Input Voltage:	230V, 50Hz
Rated Current:	Typical: 0.5A
Inrush:	2.0A
Motor:	DC Motor with Open/Close time of approximately 0.5 sec.
Operation Mode:	Open/Close/Manual open/Fire Alarm/ Gate status. Accept 2 inputs to enable bi-directional access.
Optional:	Tail-gate sensors, anti-crawl sensors Mounting of reader with acrylic cover LED (Arrow/Cross) signage with acrylic cover



## Automatic Swing Turnstiles

Stainless Steel Flap Barrier EMT005 adopts the servo motor to drive the equipment. It is used in The entrance of hotel and super-market etc. It brings in advanced and experience to improve. And it can prevent passing multiple people for one card reading and manual force to the arm. According to the specific requirement, it can work with door access control and time attendance system.



### Product Features

- Beautiful design, anti-rust and durable.
- Standard Interface, support external card / fingerprint readers
- Designed with stainless steel and water proof
- Self-check function
- Auto recovery



### Technical Specification

Model Product	EMT005
Dimensions Diameter:	141 x 980 x (600-900)mm
Barrier Pole Length:	600 - 900mm
Housing Material:	304 Stainless Steel
Power:	DC 24V
Opening Time:	0.4 sec
Communication:	RS232,Level signal
Passing Speed:	30 people / min
Working Environment:	Indoor / Outdoor
Working Temperature:	-10 degree to 50 degree
Relative Humidity:	5% to 90%

## Automatic Rise Bollard



### FEATURES:

- High number of cycles and low power consumption
- Ability to operate even in the event of a power failure thanks to the central group with UPS
- Quick and easy to install thanks to the foundation box can be assembled on site without welding
- Equipped with RS485 communication bus and Ethernet connection via TCP / IP
- Device encoder integrated obstacle detection and amperometric
- Equipped with anti-vandal function, which allows to detect a forced command, to reset the bollard and activate an alarm

### Technical Specification

POWER SUPPLY	230 Vac 50/60 Hz
MOTOR SUPPLY	24 Vdc
ABSORBED POWER	90 W
ABSORBED CURRENT 24Vdc	6 A
STANBY CONSUMPTION	10 W
CONSUMPTION DURING RISING	1 A
MAXIMUM WORKING FREQUENCY*	900 cycles/day
PROTECTION LEVEL	IP 68
OPERATING TEMPERATURE	-20 °C / +50 °C
LUBRICATION	Grease
IMPACT RESISTANCE	18.000 J
BREKOUT RESISTANCE	240.000 J
KG VEHICLE-KM/HOUR	2.500-55
RAISING TIME 120mm/sec	4"
LOWERING TIME 160mm/sec	3"
ELECTRIC BRAKE	2N
Product Model	ZAM-rb500

# Hydraulic Road Blockers

## Speed Bump Road Blocker

- Shallow mounting installation type
- Reliability & durability
- Low operating & maintenance cost
- Service simplicity
- High intensity operation
- Wireless control unit
- Light indication



## Technical Specification

LZZ-3000 Road Blocker

Tested Dimensions :	Lifted Height 430mm, Width 3000mm
Lifted height:	430mm
Standard color range:	Black, Green, Yellow, Gray, Blue
Foundations:	A 3000mm width LZZ-3000 Road Blocker unit:
Width:	3300mm
Depth:	700mm
Length:	1100mm
Control Cabinet foundations:	1200mm x900mm x700mm Wiring ducts have to be incorporated into foundation
Speed of operation:	Standard speed: <4 seconds EFO (Extra Fast Operation) available
raising time :	<3.5 sec
lowering time:	<4 sec
Blocking width:	3000mm
Blocking height:	430 mm
lifting power:	2-4 ton
pressure ability:	>60 ton
working temperature :	-40°C — +70°C (depending on the hydraulic oil performance)
Working voltage:	380V 50/60Hz



# Automatic High speed Roll Up PVC Doors

*The Series RL3000S Rapid Auto Roll Door is a new model for ZAMTAS, incorporating a new budget design for applications, with a simplified PLC control. It is a reliable and durable door, yet providing a simplicity that allows non specialist installation.*

## Technical Specification

- Door speeds up to 1.5m/sec
- Sizes up to 5mH x 5mW at 1.2m/sec
- Options up to 9mH x 9mW with slower speeds
- Durable reinforced 900gsm PVC panel
- Windbars to resist air pressure
- Powdercoated steel columns and roller cover
- Brush seals
- Single phase PLC programmable controller
- Soft start / stop and variable speed control
- Safety features, including in-line PE beam, and pressure sensitive bottom rail.
- Low maintenance
- Many forms of activation

## Ideal For . . . . .

Process Rooms

Warehouses

Cool Rooms

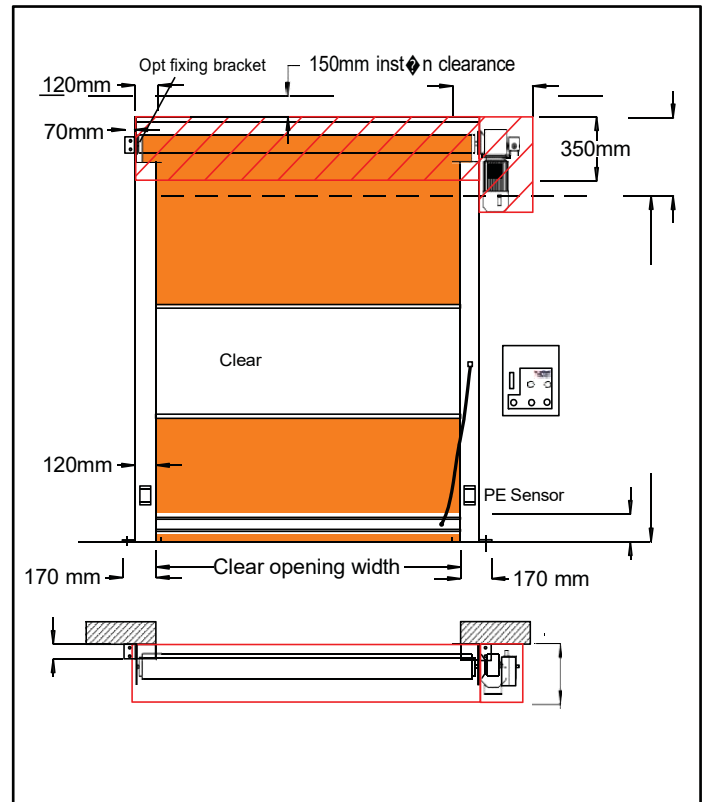
Clean Rooms

Car washes

WorkShops

Hospitals

Super markets



# Automatic Overhead Sectional Doors

## **FEATURES:**

- Slick design, with steel column sections, fully powder coated to color selection.
- Full-width clear vision window for increased safety. Heat insulated and weatherproof.
- Single-phase control system with spring break safety feature.
- Long-life components which are simple to service.
- Additional crash prevention features such as cable break safety.



## **Technical Specification**

Panel thickness:	40mm, 50mm with the 0.326mm, 0.40mm and 0.45mm galvanized steel sheet
door panel heat consumption factor:	$k = 1.2 (W/mk)$
high density:	42kgs/m <sup>3</sup>
Water tightness:	class two
Resistance to wind load:	class two
Air permeability:	class four
Applicable standards:	EN13241-1:2003, EN ISO 12100-1:2003, EN ISO 12100-2:2003, EN ISO 14121-1:2007, EN 60204-1:2006, EN 61000-6:2005, EN 61000-6-3:2007
Long Working Cycle Life.	
The working temperature:	-30°C – 50°C
Maximum width:	11800mm
Section height:	any size between 440-550mm
Surface finish:	Wood grain or stucco embossment surface increases intensity and gives better appearance
Panel design:	stripes, blocks, one stripe, flat, wavy and smooth.
Full range of colors are available:	A. standard RAL number: such as White (RAL9016), Grey (RAL7016), Brown (RAL8014), silver (RAL9006), and so on. B. wood imitation color: Golden oak, Mahogany, Dark oak, Maple and Black walnut.
Suitable for workshops, warehouse, and commercial shops	
weather stripping:	provide complete perimeter seals include flexible top seal, jamb seal and special industrial bottom seal
Opening way:	remote control, automatic, manual, chain hoist

## Hardware:

Single steel track with L-profile	Buffering( for option)
Hinges	Latch(for passing door)
Top bracket	Closer(for passing door)
Cable anti-break device	Struct(big door)
cable	sealing(side/top and bottom)
cable drum	shaft(hollow/K/soild)
spring	Spring bracket
2.5m multi-angle track	roller
screws	handle





# Rapid Auto Aluminium Spiral Roll Up Doors

## Benefits:

- Opening speed up to 2.5m/s, Closing speed up to 0.6~0.8m/s, Allow for improved traffic flow and enhanced customer perception.
- Counterbalance system, spiral design reduce wear and increase door longevity, with minimal preventative maintenance.
- No metal to metal contact reduces wear on the door panel and offers fast, quiet operation.

## Activation:

- radar sensors
- pull cord
- remote control
- loop detectors
- push button



## Specification

### Control systems

Japanese Mitsubishi Inverter, PLC and other components

### Dynamical systems

Adopt special high-speed motor reducer, 0.75-2.2KW, according to the size of the door to select the model. Two brand for choice, SEJ or NORD. Incorporating limit switches for open and close cycles, and this drive unit can be used on manual in the event of power failure.

## Construction:

- Double-wall 43mm aluminum slats.
- Integral weather seal between the aluminum slats.
- Heavy duty hinge system for the door panel assembly.
- Galvanized steel side frames and head.
- Extension springs inside column.





## Fire Rated Door

### CERTIFICADOS

- FIRE RESISTANCE according to Norm ANSI/UL 10B-2009 "Fire Tests of Door Assemblies".
- Certificate ISO 9001:2008.

### DOOR FRAME

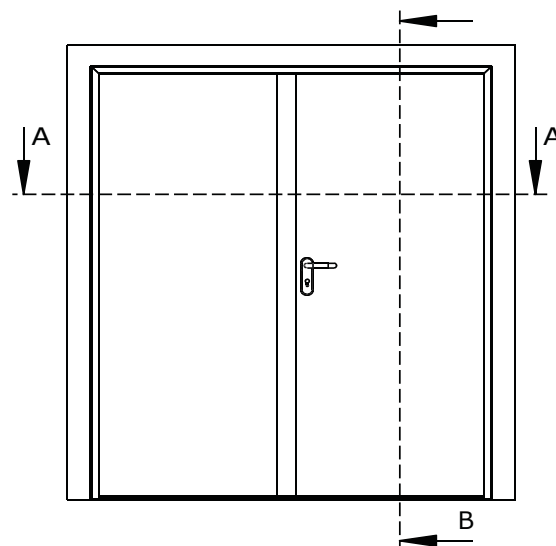
- Reduced thermal conductivity galvanized steel, 1.5 mm thick.
- Z-shaped jambs and lintels. ASTURMADI special profile.
- 230x1.5 mm cold-laminated steel plate fixing anchor, especially designed to be fitted in any kind of wall.
- 50x2.5 mm steel door threshold.
- 'U' shape frame configuration available.

### +Points

- Wide range of standard dimensions in two different heights in order to 'economize' projects. This is reflected in a great combination quality/price.
- Non-standard dimensions in order to adapt the door to any need.
- Torsional rigidity of the door leaf higher than that of traditional assembling method.
- Galvanized sheet metal and paint with a high corrosion resistance and durability.
- Thermal insulation 1.2 (W/m<sup>2</sup>k).
- Open Z frame for an easy installation.
- Excellent serial hardware.
- Includes a self-closing hinge.
- Great variety of hardware in stock (see hardware catalogue).
- Tested for up to 200.000 opening and closing cycles.
- Certified as a whole.
- Consult availability in different types of frames.



WIDTH							
CLEAR PASSAGE =				A	RECOMMENDED STRUCTURAL OPENING	TOTAL DIMENSION	
ACTIVA	PASIVA	+45					
600	600			1245	1310	1325	1370
700	600			1345	1410	1425	1470
700	700			1445	1510	1525	1570
810	700			1555	1620	1635	1680
810	810			1665	1730	1745	1790
900	810			1755	1820	1835	1880
900	900			1845	1910	1925	1970
1000	900			1945	2010	2025	2070
1000	1000			2045	2110	2125	2170
1100	1000			2145	2210	2225	2270
HEIGHT							
CLEAR PASSAGE				B	RECOMMENDED STRUCTURAL OPENING	TOTAL DIMENSION	
2000				2045	2050	2075	
2100				2145	2150	2175	



## Walkthrough Metal Detectors

- Front panel design with 4 keys management.
- Windproof, moisture proof, dustproof design.
- High performance, high sensitivity and high stability.
- Interactive detection technology.
- Super brightness SMD double district alarm indicators with multiangle display.
- Available detections zones from 6 to 33 zones.



### Application

- **Airport**
- **Bank**
- **Government office**
- **Shopping Mall**
- **Exhibition center**
- **Prison**
- **Hotel**
- **Corporate Offices**

### Specification

Power Supply	AC85 V-264 V
Working temperature	-20°C--+50°C
Working Frequency	4KHZ—8KHZ
Standard External size	2200mm(H)X800mm(W)X580mm(D)
Standard Internal size	2010mm(H)X700mm(W)X500mm(D)
Package size for door panels	2260*650*260mm *1ctn
Package size for control unit	780*390*250 mm*1ctn
Gross weight	70KG





# Baggage Scanner

Product Model: ZAM- AT5030A

ZAM-AT5030A is a compact and versatile X-ray screening system with exceptional image quality and excellent detection capabilities.

The ZAM-AT5030A is designed for rapid relocation and can be wheeled through narrow doorways, making it an excellent system for schools, hotels, convention centers and event-based security environments.



## General specifications:

- Tunnel Size: 500(w) \* 300(H) mm
- Conveyor Sped: 0.22m/s
- Conveyor Max Load: 100kg
- L-Shaped array detector, 24bit;
- Single inspection dosage: <1.32μGy
- Wire Resolution: 40AWG
- Steel Penetration: 10mm
- Film Safety: For ISO 1600

## Application AND Certification

- Used for scenic sports, gymnasium, expo center, left baggage counter, supermarket, hotel, court, prison. etc.
- Machine parts safeguard measures.
- High performance network function.
- EU CE certification.
- ISO9001 Certification
- Iso14001 Environmental Management.

# LED Street Light

## Areas of Application :

- Local roads
- Express roads
- Town roads
- Residential area roads
- Pedestrian crossings
- Parking areas

## Product Benefits

- 70% energy saving, short ROI period
- Up to 100, 000hrs @ L70, low maintenance cost
- Wide choice of optics for different applications
- Smart design, low transportation costs
- Smooth back of fixture is designed to prevent dust accumulation
- 5 years warranty



## Product Features

- Luminaire efficacy: Up to 140 lm /w
- Lifetime more than 100, 000 hours
- Impact resistance: IK10
- Type of protection: IP66



## ⚙️ Led Traffic Signal Lights:

### Features:

1. Low power consumption
2. Conform to AS/NZS 2144
3. Operating at the temperature of -40degree C to +74degree C
4. Retrofit design & UV stabilized shell
5. Wide viewing angles
6. Made as per requirements for AS2144-2002
7. Even brightness & standard chromatogram
8. Less than 1% light loss with signal LED failure
9. Up to 10 times longer lifetime than incandescent
10. Compatibility with most traffic housings and controllers



## ⚙️ NG Series Hi-Flux LED Traffic Lights

- Highly efficient LEDs enhance power savings
- Available in 100, 200 and 300mm diameter specification
- The separate system controller is fully-SCATS compatible
- Available in 12 / 24V DC & 42 / 230V AC working voltages
- Modular, Vandal-proof design
- Suitable for inductive loop sensors
- Dust-proof, IP65 rated
- Architecturally robust design





# LED High Bay Light

## Areas of application

- Warehouse
- Garages
- Workshop
- Commercial Facilities
- Aisles (Open & Stock)
- Field Houses & Gymnasiums

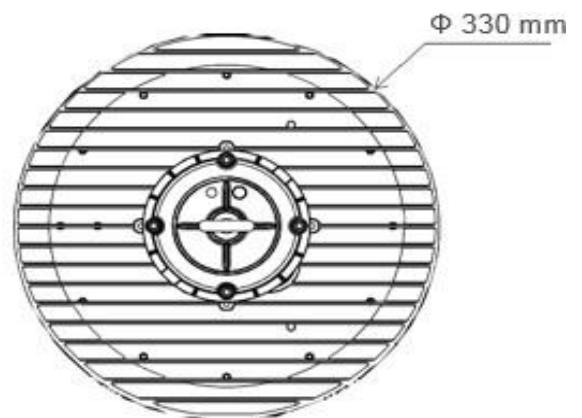
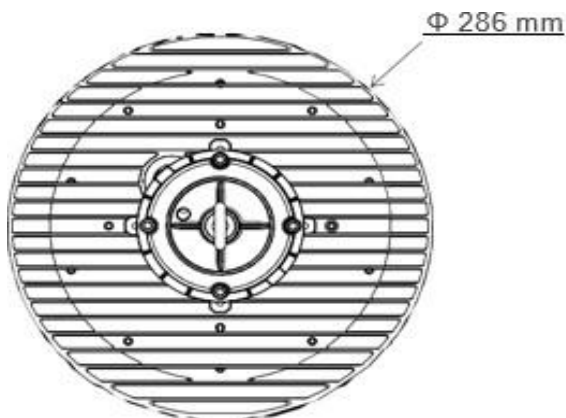


## Product Benefits

- 70% energy saving, short ROI period
- Up to 50, 000hrs @ L70, low maintenance cost
- Durability, suitable for dry and wet applications
- Versatile in mounting with wall mounted, loop hanging, steel chain hanging
- RoHS compliant, environmental friendly, no mercury or lead, 100% recyclable
- 5 years warranty

## Product Features

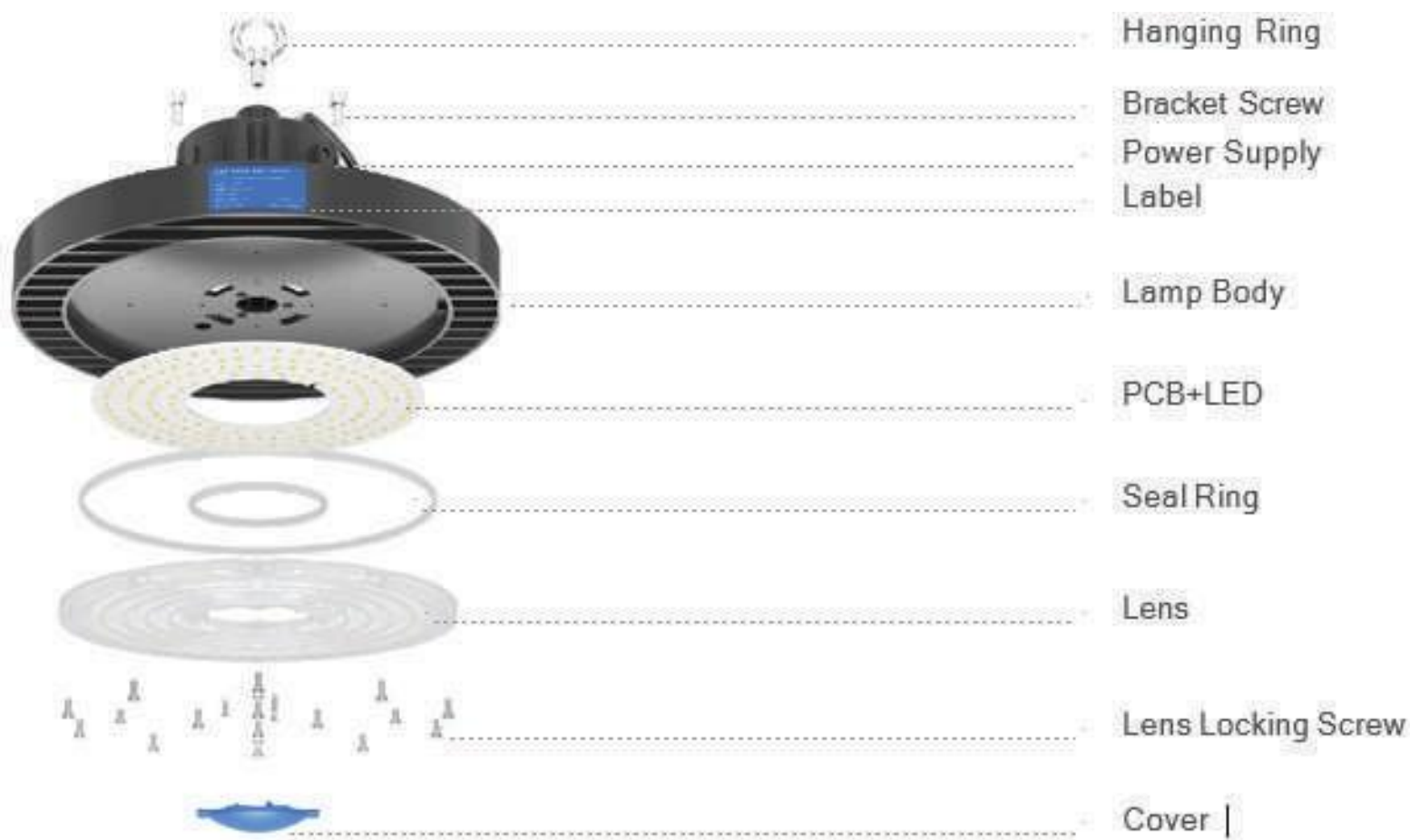
- Luminaire efficacy: Up to 190 lm /w
- Symmetrical beam angle: 60°, 90°, 110°
- Impact resistance: IK10
- Type of protection: IP65
- Available from 3000K, 4000K 5000K, 5700K
- Available with Motion /PIR Sensor



## Electrical Specifications:

Product Model	ZAM-HB09-100S	ZAM-HB09-150S	ZAM-HB09-150M	ZAM-HB09-200M
Nominal Wattage	100W	150W	150W	200W
Nominal Voltage	AC 100-240V /277V			
Mains Frequency	50 /60Hz			
LED	Lumileds 2835 /3030	Lumileds 3030	Lumileds 2835	Lumileds 2835 /3030
Driver Brand	SOSEN			
Power Factor (PF)	> 0.95			
THD	< 10			
SPD	4KV line-line, 6KV line-earth			

## Structure Drawing:



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