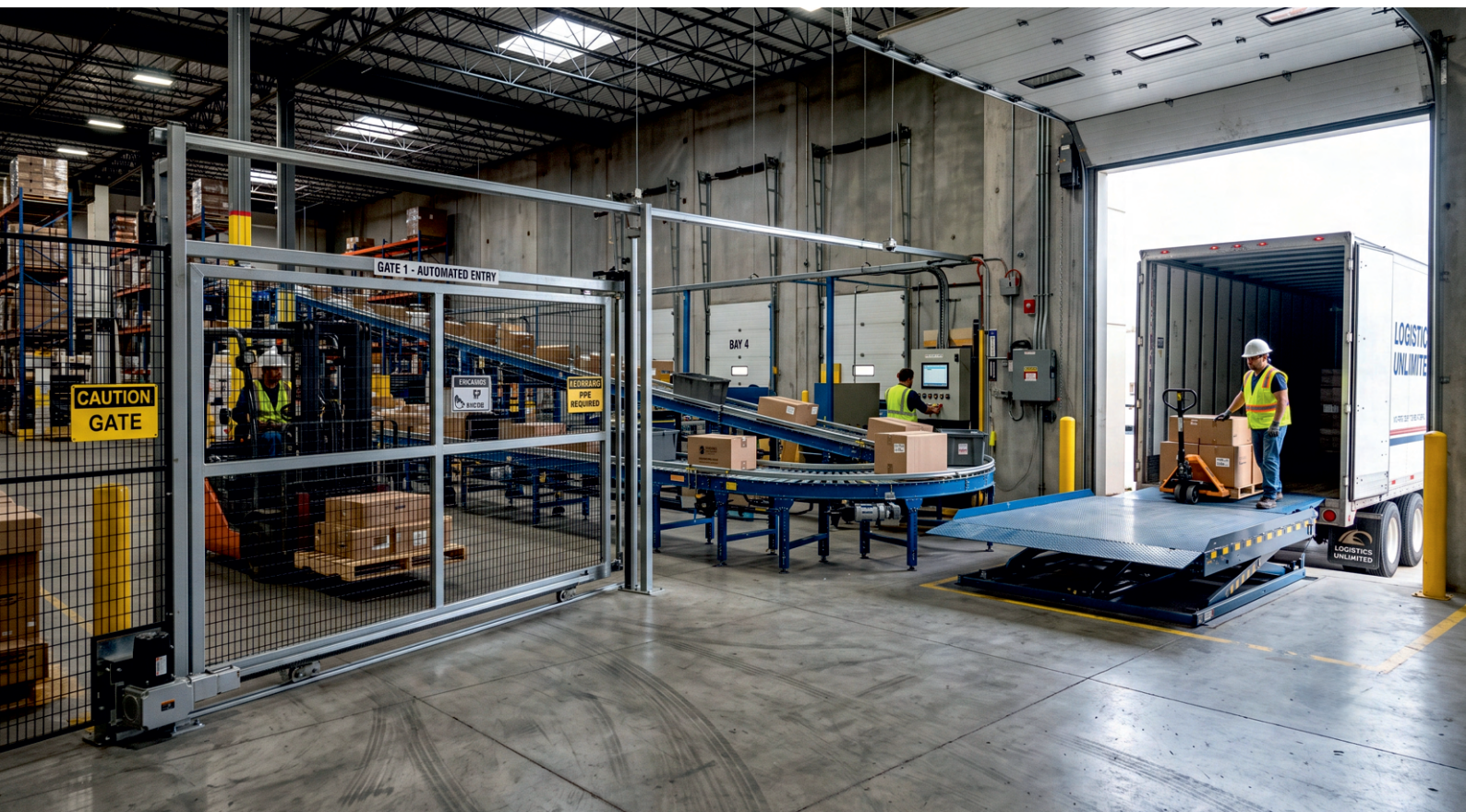




Aven Industrial Automation

by GlowMac Engineers

COMPLETE RANGE OF INDUSTRIAL EQUIPMENT



Supplier Of All Type Of Industrial Solutions

CORPORATE SUMMARY

Leader in Perimeter System Interfaces. Aven Industrial Automation delivers state-of-the-art architectural control systems and rugged structural mechanics, precision-machined to outlast industry standards under intensive thermal, mechanical, and climatic workloads. This portfolio documents twenty premium physical assets across high-speed dynamic curtain interfaces, continuous-duty hydraulic modules, explosion-proof barriers, and heavy logistics bay doors engineered for modern factories, cleanrooms, hangars, and commercial complexes.

MISSION BLUEPRINT

To supply secure, smart, and thermodynamic architectural barriers ensuring zero latency in logistics flows across global infrastructure networks.

QUALITY ACCREDITATIONS

Fully harmonized with European Standards EN 13241-1, CE Safety Directives, and UL325 electromagnetic compliance criteria.

WHY CHOOSE US

- Continuous-duty engineering, zero compromise
- Precision CAD-verified tolerances
- Full BMS & SCADA integration
- Global spare-parts logistics network

INDUSTRY APPLICATIONS

- MANUFACTURING
- LOGISTICS
- AVIATION
- CLEANROOM
- RETAIL
- RESIDENTIAL
- PORTS & MARINE
- GOVERNMENT

GLOBAL SUPPORT

- 24/7 technical hotline network
- Regional service depots, 30+ countries
- Remote PLC diagnostics platform
- Certified installer training academy

EN 13241-1

STRUCTURAL DIRECTIVE

Premium Engineering

SAFETY FOCUSED

UL 325

EM COMPLIANCE

Custom Automation

SOLUTIONS

WHY AVEN?

✓ Premium Engineering

✓ Technical Assistance

✓ Custom Automation

✓ Expert Installation

✓ Pan India Support

✓ Genuine Products



✓ Premium Engineering



✓ Custom Automation



✓ Pan India Support



✓ Genuine Products



✓ Expert Installation



✓ Technical Assistance

HEAVY INDUSTRIAL SLIDING GATE



CAD SCHEMA · CROSS-SECTION

Structural hot-dip galvanized industrial perimeter gate utilizing a tracked or cantilever design to secure manufacturing and logistics yard perimeters.

CORE MECHANICAL ATTRIBUTES	
▶ Heavy structural steel box frame, primer-sealed ▶ Internal triple-shielded anti-debris bearing layout ▶ Integrated dual optical light curtain protection bars ▶ Serrated top security anti-climb profile spikes standard	
PARAMETER	SPECIFICATION
Span Range	Clear single span up to 16 meters
Height Profiles	1.8 m to 3.5 m customizable
Infill Type	Heavy tubular bars / anti-cut mesh
Wind Structural Load	Class 4 EN 12424
Drive Interface	Mod 6 heavy industrial rack & pinion
Corrosion Finish	Duplex thermoset powder coating

TELESCOPIC SLIDING GATE

Synchronized multi-panel linear gate assembly developed to ensure wide

CORE MECHANICAL ATTRIBUTES	
▶ High-tensile continuous loop cable drive linkage ▶ Space-saving nested architectural storage track ▶ Dual surface-recessed load-bearing tracking rails ▶ Rapid synchronous multi-leaf deployment mechanics	
PARAMETER	SPECIFICATION
Configuration	2-Panel / 3-Panel Telescoping
Total Clear Width	Up to 24 meters operational span
Structural Thickness	80mm x 80mm steel frame
Travel Velocity	Up to 22 m/min combined speed
Perimeter Safety	Pneumatic dynamic edge sensors
Frame Compound	Hot-dip zinc-coated structural alloy



AUTOMATIC SWING GATE



CAD SCHEMA · CROSS-SECTION

Heavy structural automated swing gate pairs featuring heavy adjustable hinge blocks, engineered for high security and visual prominence.

CORE MECHANICAL ATTRIBUTES	
▶ Heavy duty industrial spherical shear bearings ▶ Pre-machined anchor plates for heavy hydraulic rams ▶ Magnetic locking integration points pre-configured ▶ Double reinforced perimeter bracing architecture	
PARAMETER	SPECIFICATION
Maximum Opening	Up to 12 meters (bi-parting)
Leaf Height	1.5m to 3.0m architectural limits
Chassis Profile	100mm x 100mm hollow section
Hinge Capacity	Rated up to 1800 kg shear load
Locking Force	6000 N magnetic holding power
Climatic Coating	Polyurethane marine-grade anti-salt

AUTOMATIC ROLLING SHUTTER



CAD SCHEMA · SLAT PROFILE

Heavy-duty automatic rolling shutter engineered for storefronts, warehouses, and loading bays requiring rapid closure and high cycle durability.

CORE MECHANICAL ATTRIBUTES

- ▶ Interlocking galvanized steel slat curtain profile
- ▶ Integrated wind-lock guides for high-wind stability
- ▶ Heavy-duty barrel shaft with corrosion-resistant coating
- ▶ Manual chain-hoist override for power-failure operation

PARAMETER

Max Width

Up to 6000 mm single span

Max Height

Up to 5000 mm structural limit

Slat Material

0.8 mm galvanized steel, powder coated

Wind Load Rating

Class 3 EN 12424

Operation Speed

8 to 10 meters/minute

Drive Options

Motorized with manual chain-hoist backup

DOCK LEVELER

CORE MECHANICAL ATTRIBUTES

- ▶ Heavy-duty hydraulic lip extension mechanism
- ▶ Anti-slip checker plate deck surface
- ▶ Automatic cross-traffic safety lip return
- ▶ Recessed pit-mounted structural steel frame

PARAMETER

Platform Size

SPECIFICATION

1800 mm x 2000 mm standard

Load Capacity

6000 kg to 10,000 kg rated

Lip Extension

400 mm hydraulic reach

Working Range

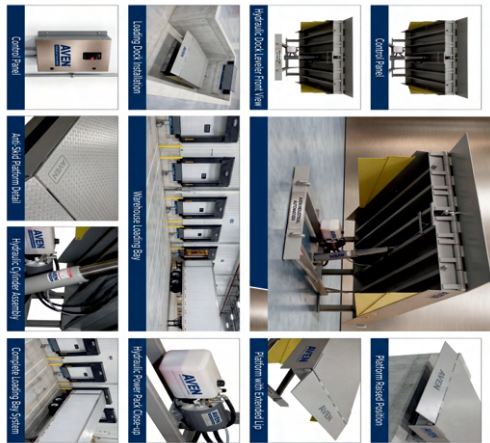
+300 mm / -300 mm from dock level

Hydraulic Power

2.2 kW pump unit, sealed system

Deck Finish

Anti-slip checker plate steel



CAD SCHEMA · HINGE & LIP ASSEMBLY

STEEL SLIDING HANGAR DOOR



CAD SCHEMA · RAIL SETUP

Bottom rolling heavy structural steel multi-track sliding megastructure engineered to secure wide-span aircraft hangars and shipbuilding yards.

CORE MECHANICAL ATTRIBUTES

- ▶ Heavy load floor railway tracking with internal heaters
- ▶ Integrated pedestrian pass-door compartments
- ▶ Continuous acoustic transit horn and strobe nodes
- ▶ Heavy polyurethane multi-stage compression buffers

PARAMETER

Sizing Capabilities

Unlimited width x up to 24 m height

Wheel Load Factor

Up to 16 metric tons per bogie

Drivetrain Type

Internal electromechanical geared heads

Wind Speed Threshold

Up to Category 5 hurricane levels

Glazing Inlays

Laminated ballistic safety glass units

Control Core

Programmable PLC synchronous tracking

· HIGH-SPEED DOORS

HIGH SPEED ROLL UP DOOR

High frequency rapid vertical flexible roll-up curtain door developed to optimize

CORE MECHANICAL ATTRIBUTES

- High-density 900g/m² multi-weave vinyl material
- Full width clear sight-line transparent vision panel
- Integrated modern variable frequency inverter module
- Automatic self-repairing guide track tracking logic

PARAMETER	SPECIFICATION
Opening Rate	Up to 2.2 m/sec (variable)
Closing Rate	0.8 m/sec safety deceleration
Envelope Max	W 6000 mm x H 6000
Wind Class Index	Class 2 EN 12424
Curtain Thickness	1.5 mm industrial multi-weave
Override Module	Manual mechanical chain-hoist loop



CAD SCHEMA · INVERTER DRIVE DRUM

· HIGH-SPEED DOORS

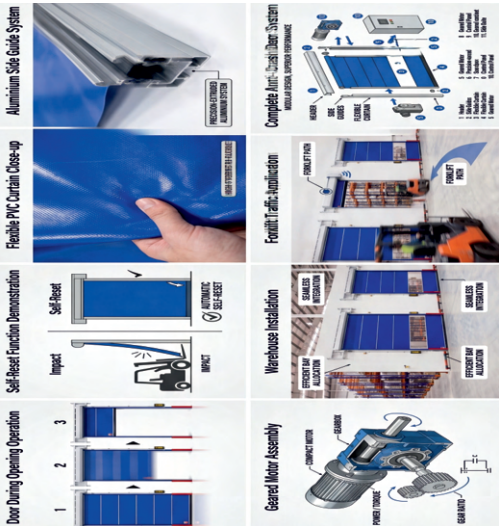
ANTI-CRASH HIGH SPEED DOOR

High speed dynamic flexible industrial roll-up door featuring a flexible breakout bottom beam preventing damage during forklift impacts.

CORE MECHANICAL ATTRIBUTES

- Soft breakout crash-safe flexible baseline edge
- Zero-downtime zip tracking track repair mechanics
- Integrated wireless absolute sensor matrix array
- High-efficiency thermal sealing strip layout

PARAMETER	SPECIFICATION
Maximum Velocity	2.5 m/sec active transit speed
Reset Loop Mode	100% automated self-threading
Drive Placement	Reversible left/right chassis side
Control Enclosure	IP65 steel vector control cabinet
Safety Field	Continuous multi-beam laser array
Life Cycle Rating	Tested to 500,000 operations



CAD SCHEMA · BREAKOUT PROFILE

· HIGH-SPEED DOORS

CLEAN ROOM HIGH SPEED DOOR

Precision-sealed rapid vertical cleanroom door engineered for sterile

CORE MECHANICAL ATTRIBUTES

- Airtight structure maintaining delta pressure up to 50 Pa
- FDA approved anti-static antimicrobial curtain skin
- Perfect smooth surfaces preventing particulate storage
- Contactless hand-wave electronic sensory opening

PARAMETER	SPECIFICATION
Air Permeability	Class 4 EN 12207
Chassis Structure	316L marine stainless, satin polish
Opening Speed	1.6 m/sec continuous response
Side Guides	High-molecular polyethylene zips
Interlock Logic	Dual door digital airlock delay
Voltage Input	230V smart single-phase drive



CAD SCHEMA · PRESSURE MODULES

· SECTIONAL OVERHEAD BARRIERS

GARAGE SECTIONAL DOOR

Elite residential and premium commercial multi-vehicle garage entry door

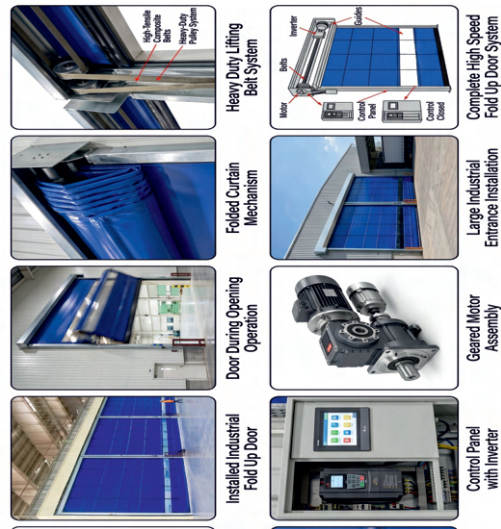
CORE MECHANICAL ATTRIBUTES	
► Patented interlocking edge geometry, finger-pinch safe ► Acoustically isolated Kevlar belt linear ceiling tracks ► Integrated secure mobile app connectivity ► Luxury texture options matching modern facades	
PARAMETER	SPECIFICATION
Panel Thickness	42 mm dense injected PU foam core
Acoustic Block	Rw = 26 dB acoustic mitigation
Drive Force	700 N to 1200 N digital operator
Standby Draw	Less than 0.8 W eco consumption
Locking Safety	Mechanical rotary latch motor lock
Optional Insets	Integrated flush LED path lighting



CAD SCHEMA · INTERLOCKING LOGIC

· HIGH-SPEED DOORS

FOLD UP HIGH SPEED DOOR



CAD SCHEMA · HEAVY STRAPS SYSTEM

Heavy vertical folding industrial textile door braced with internal horizontal steel reinforcement bars to survive extreme external gale pressures.

CORE MECHANICAL ATTRIBUTES	
► Dual high-safety-factor industrial lift straps ► Galvanized structural steel horizontal wind pipes ► Custom engineered for wide high-span hangar bays ► Integrated advanced optical safety perimeter blocks	
PARAMETER	SPECIFICATION
Maximum Size Scale	W 14,000 mm x H 12,000
Wind Force Rating	Class 4 EN 12424 (145 km/h)
Transit Speed	0.8 to 1.2 m/sec vertical travel
Strap Load Factor	6500 kg woven core break rating
Motor Frame	3-phase electromagnetic brake motor
Guide Channels	Heavy structural iron channel guides

· SECTIONAL OVERHEAD BARRIERS

INDUSTRIAL SECTIONAL OVERHEAD DOOR

Double-skinned micro-profiled steel sandwich panel overhead doors offering high

CORE MECHANICAL ATTRIBUTES	
► CFC-free dense polyurethane rigid core panels ► Airtight double-lip cold-bridge blocking seals ► Integrated cable and safety spring rupture brakes ► Standard, high-lift, and full-vertical tracks	
PARAMETER	SPECIFICATION
Panel Core Sizing	40 mm standard / 80 mm arctic
Thermal Transmittance	U = 0.50
Exterior Finish	Stucco embossed anti-scratch
Track Composition	2.0mm hot-dip zinc structural track
Spring Lifespan	50,000 to 100,000 high-torsion cycles
Drive Variant	Direct shaft-drive electromagnetic gear



CAD SCHEMA · SANDWICH INSULATION

SLIDING GATE MOTOR



CAD SCHEMA · 45° ELEVATION

Heavy continuous-duty oil-bath electromechanical operator optimized for heavy perimeter industrial gates requiring flawless braking logic.

- CORE MECHANICAL ATTRIBUTES
- ▶ Continuous oil-bath lubrication configuration
 - ▶ Dynamic deceleration encoder tracking
 - ▶ Integrated smart diagnostic display motherboard
 - ▶ Integrated keyed mechanical override mechanism

PARAMETER	SPECIFICATION
Max Gate Weight	1500 kg – 2500 kg
Power Input	230V Single-Phase / 400V Triphase
Absorbed Power	600 W
Duty Cycle	100% Continuous Intensive Use
Protection Index	IP56 High Weatherproof
Travel Velocity	12 meters/minute

SWING GATE MOTOR

Prestige industrial high-pressure hydraulic ram block built to deliver

- CORE MECHANICAL ATTRIBUTES
- ▶ Anodized structural grade aluminum cylinder body
 - ▶ Dual internal hydraulic locks for rigid anchoring
 - ▶ Integrated micro-bypass valve soft cushioning
 - ▶ Sleek rear pivot mounting brackets included

PARAMETER	SPECIFICATION
Max Gate Leaf	4.0 meters / leaf span
Max Leaf Weight	800 kg structural limit
Piston Stroke	400 mm travel length
Operating Pressure	30 Bar high output pump
Fluid Grade	IA-Aero Premium Synthetic Hydro
Opening Angle	90° to 110° field adjustable



CAD SCHEMA · ISOMETRIC

ROLLING SHUTTER MOTOR



CAD SCHEMA · CROSS-SECTION

Heavy central torque flange block module optimized for storefront steel slats and automated industrial rolling shutter assemblies.

- CORE MECHANICAL ATTRIBUTES
- ▶ High-grade die-cast metal alloy electromagnetic brake
 - ▶ Precision mechanical limit switches with manual fine tuning
 - ▶ Internal thermal overload heat cut-off configuration
 - ▶ Integrated split-coupling structural ring framework

PARAMETER	SPECIFICATION
Lifting Capability	400 kg to 1000 kg capacity
Torque Rating	120 Nm to 450 Nm continuous
Shaft Adaptability	60 mm / 76 mm standard industrial sizes
Input Voltage	220V Single-Phase 50Hz
Drive Speed	10 RPM output velocity
Continuous Rating	Maximum 4 minutes safe runtime limit

Aven Industrial Automation

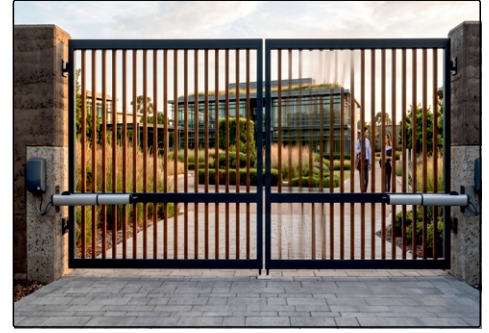
A Brand of GlowMac Engineers



Automatic Sliding Gate



Automatic Rolling Shutter



Automatic Swing Gate



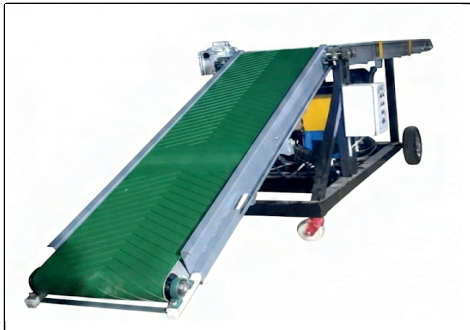
Automatic Telescopic Gate



Boom Barriers



Sliding Gate Motor



Incline Conveyors



Horizontal Conveyors



L Shape Conveyors



Aven Industrial Automation

A Brand of GlowMac Engineers

Manufacturer, Supplier & Service Provider of Industrial Entrance Automation, Automatic Gates, Industrial Doors, Conveyor Systems & Material Handling Equipment

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