



— EUROPEAN ENGINEERING DIVISION

INDUSTRIAL AUTOMATION

PREMIUM ENTRANCE AUTOMATION SOLUTIONS

COMPLETE INDUSTRIAL, COMMERCIAL & RESIDENTIAL

ARTIFACT CATALOG

EUROPEAN ENGINEERING SPECIFICATIONS • 2026 EDITION

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CORPORATE SUMMARY // 01

Leader in Perimeter System Interfaces. 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.

1,000,000+

CYCLE VALIDATION

20

ARTIFACT FAMILIES

07

PRODUCT DIVISIONS

36

MONTH COVERAGE

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

CE

SAFETY CERTIFIED

UL 325

EM COMPLIANCE

ISO 9001

QUALITY MANAGED

SYSTEM PORTFOLIO FRAMEWORK // 02

01	MOTOR DRIVES Heavy Sliding, Swing, Central Shutter & Brushless Glide Motors	03
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03	HIGH-SPEED DOORS Rapid Roll, Zip Crash-Safe, Airtight Cleanroom & Wind-Fold Gates	07
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SLIDING GATE MOTOR

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



CAD SCHEMA · 45° ELEVATION

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

● CE
CERTIFIED

● INDUSTRIAL

● WEATHERPROOF

● CONTINUOUS

Codes: IA-1500S (Standard), IA-2500HD (Heavy Freight) | Warranty: 36-Month / Germany

SWING GATE MOTOR

Prestige industrial high-pressure hydraulic ram block built to deliver immense structural torque distributions against heavy wind-loads.

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

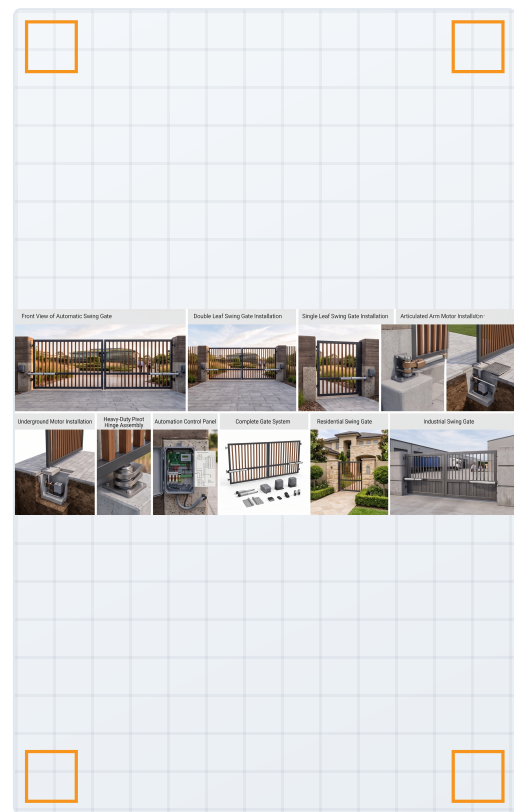
● CE
CERTIFIED

● HIGH
PRESSURE

● HYDRAULIC
CORE

● WEATHERPROOF

Codes: IA-HYDRA-40S, IA-HYDRA-50X (Extended Travel) | Warranty: 36-Month / Italy



CAD SCHEMA · ISOMETRIC

ROLLING SHUTTER MOTOR

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

CE
APPROVED

CENTRAL
TORQUE

ELECTROMAGNETIC
BRAKE

Codes: IA-C400-MID, IA-M1000-HEAVY | Warranty: 36-Month / Germany

CAD SCHEMA · CROSS-SECTION

GLASS DOOR MOTOR

Ultra-silent intelligent brushless DC transit driving mechanism designed for structural commercial glass architecture requiring fluid pedestrian sorting.

CORE MECHANICAL ATTRIBUTES

- ▶ Advanced Brushless DC permanent magnet motor core
- ▶ Self-learning digital microprocessor path profiling
- ▶ Dual-redundant emergency battery cell integration ready
- ▶ High sensitivity microwave radar presence safety sensors

PARAMETER	SPECIFICATION
Configuration	Single / Synchronized Twin Leaves
Max Door Mass	1x160 kg or 2x120 kg setup
Clearance Width	900 mm to 3200 mm openings
Transit Speed	0.8 m/sec peak rate (variable)
Acoustic Level	Ultra quiet, below 40 dB output
Processor	32-Bit ARM Core Real-Time Matrix

BRUSHLESS
DC

ULTRA
QUIET

MICROPROCESSOR
CONTROLLED

Codes: IA-GLIDE20-ST, IA-GLIDE-SLIM | Warranty: 36-Month / Switzerland



CAD SCHEMA · OPERATOR SECTION

HEAVY INDUSTRIAL SLIDING GATE

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



CAD SCHEMA · CROSS-SECTION

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

EN 12424 CLASS
4

ANTI-CLIMB

GALVANIZED

Codes: IA-SG-TRACKED, IA-SG-CANTILEVER | Warranty: 36-Month / Austria

TELESCOPIC SLIDING GATE

Synchronized multi-panel linear gate assembly developed to ensure wide structural opening coverage with minimum lateral run-back clearance constraints.

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

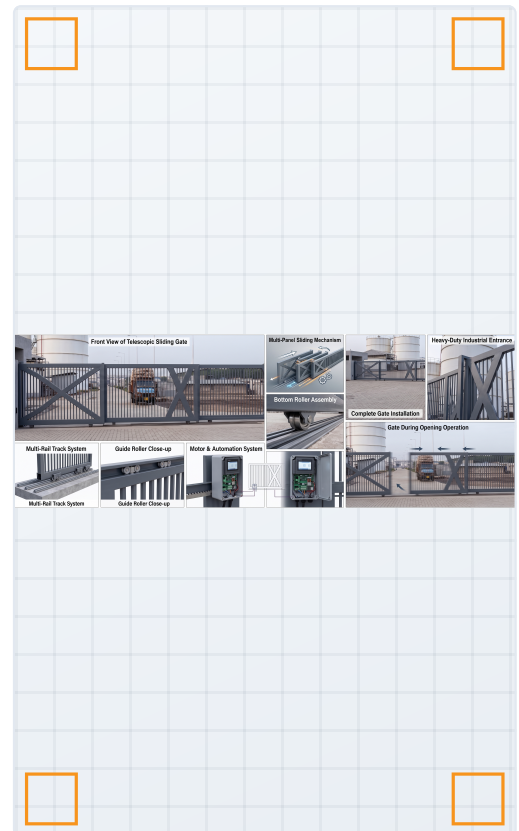
PARAMETER	SPECIFICATION
Configuration	2-Panel / 3-Panel Telescoping
Total Clear Width	Up to 24 meters operational span
Structural Thickness	80mm x 80mm steel frame
Travel Velocity	Up to 22 m/min combined speed
Perimeter Safety	Pneumatic dynamic edge sensors
Frame Compound	Hot-dip zinc-coated structural alloy

SYNCHRONOUS CABLE
DRIVE

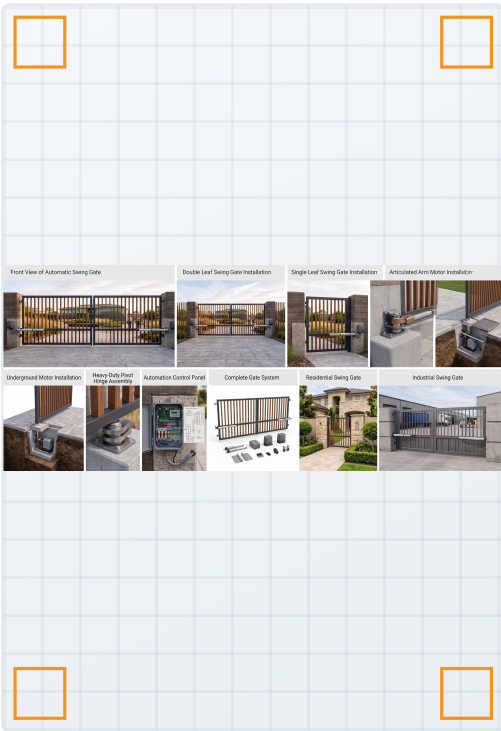
SPACE
SAVING

PNEUMATIC
EDGES

Codes: IA-TEL-2L, IA-TEL-3L | Warranty: 36-Month / Germany



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

● 1800KG CAPACITY

● MARINE GRADE PAINT

● 6000N MAGNETIC LOCK

Codes: IA-SWING-IND-S, IA-SWING-IND-D | Warranty: 36-Month / Italy

HIGH SPEED ROLL UP DOOR

High frequency rapid vertical flexible roll-up curtain door developed to optimize modern indoor warehouse climates against ambient drafts.

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

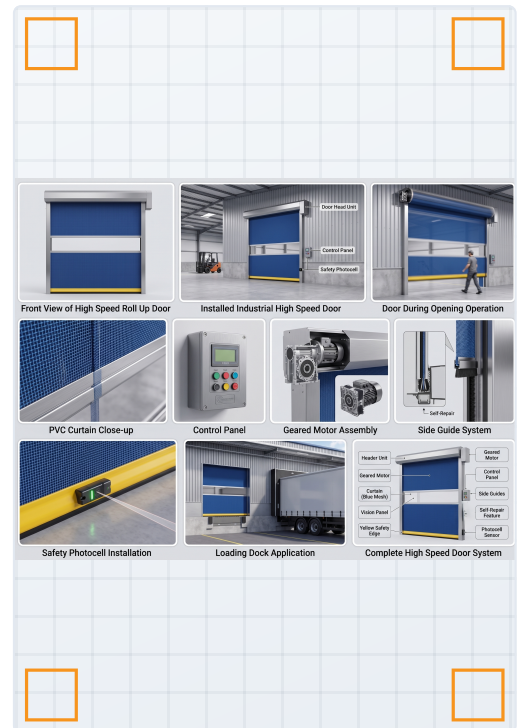
PARAMETER	SPECIFICATION
Opening Rate	Up to 2.2 m/sec (variable)
Closing Rate	0.8 m/sec safety deceleration
Envelope Max	W 6000 mm x H 6000 mm
Wind Class Index	Class 2 EN 12424
Curtain Thickness	1.5 mm industrial multi-weave
Override Module	Manual mechanical chain-hoist loop

● 2.2 M/S RATE

● SELF-REPAIRING TRACK

● VFD INVERTER

Codes: IA-RAPID-INTERNAL, IA-RAPID-EXTERNAL | Warranty: 36-Month / Netherlands



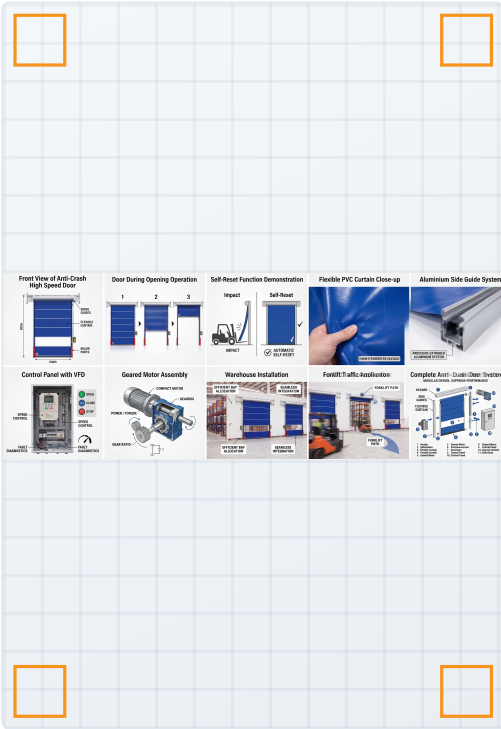
CAD SCHEMA · INVERTER DRIVE DRUM

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



CAD SCHEMA · BREAKOUT PROFILE

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

● **BREAKOUT SAFE**

● **LASER SAFETY FIELD**

● **500K CYCLES RATED**

Code: IA-CRASH-SAFE-V3 | Warranty: 36-Month / Belgium

CLEAN ROOM HIGH SPEED DOOR

Precision-sealed rapid vertical cleanroom door engineered for sterile pharmaceutical, biological laboratory, and high-tech wafer processing zones.

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

● **GMP PRESSURE SEALED**

● **316L STAINLESS STEEL**

● **TOUCHLESS WAVE**

Codes: IA-CLEAN-MED, IA-CLEAN-SEMICON | Warranty: 36-Month / Switzerland



CAD SCHEMA · PRESSURE MODULES

FOLD UP HIGH SPEED DOOR

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 mm
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

● 145 KM/H WIND LOAD

● 6500KG LOAD STRAPS

● STRUCTURAL STEEL PIPES

Code: IA-FOLD-MEGA-G4 | Warranty: 36-Month / Germany

CAD SCHEMA · HEAVY STRAPS SYSTEM

INDUSTRIAL SECTIONAL OVERHEAD DOOR

Double-skinned micro-profiled steel sandwich panel overhead doors offering high thermodynamic protection for industrial dock leveling spaces.

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	$U = 0.50 \text{ W/m}^2\text{K}$
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

● $U=0.50 \text{ W/M}^2\text{K}$

● TORSION SPRING BRAKE

● STUCCO PANEL

Codes: IA-SEC-40ST, IA-SEC-80ARCTIC | Warranty: 36-Month / Germany



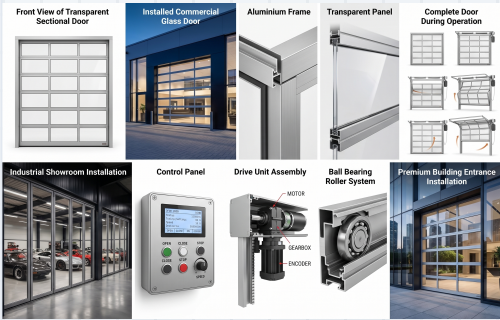
CAD SCHEMA · SANDWICH INSULATION

TRANSPARENT SECTIONAL DOOR

Architectural grade transparent aluminum frame sectional doors incorporating high-clarity scratch-resistant double glazing profiles.

CORE MECHANICAL ATTRIBUTES

- ▶ Anodized high-strength aluminum structural alloy profiles
- ▶ Double-walled Duratec scratch-resistant clear panes
- ▶ Perfect natural daylighting layout for auto showrooms
- ▶ Color matched perimeter tracking tracks and brackets



PARAMETER	SPECIFICATION
Glazing Core	Duratec double layer acrylic panel
Profile Composition	Extruded aluminum E6/EV1 framework
Light Transmittance	80% clear light indexing capability
Profile Thickness	45 mm heavy duty structural frame
Safety Threshold	Electronic bottom edge reverse logic
Standard Tone	Anodized Silver / RAL match options

● PANORAMIC DAYLIGHTING

● DURATEC PANES

● EXTRUDED ALUMINUM

Codes: IA-SEC-VISION, IA-SEC-PANORAMIC | Warranty: 36-Month / Netherlands

CAD SCHEMA · GLAZING FRAME PROFILE

GARAGE SECTIONAL DOOR

Elite residential and premium commercial multi-vehicle garage entry door blending micro-gap anti-pinch joints with integrated smart home link logic.

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

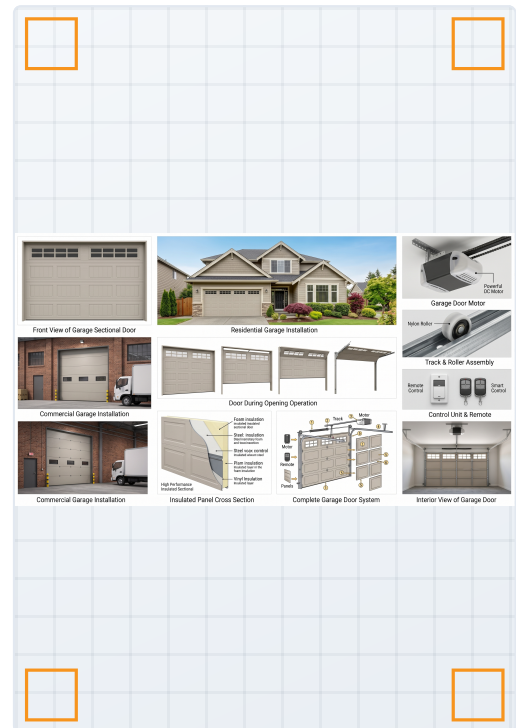
PARAMETER	SPECIFICATION
Panel Thickness	42 mm dense injected PU foam core
Acoustic Block	Rw = 26 dB acoustic mitigation
Drive Force	700 N to 1200 N digital operator
Standby Draw	Less than 0.8 W eco consumption
Locking Safety	Mechanical rotary latch motor lock
Optional Insets	Integrated flush LED path lighting

● ANTI-FINGER PINCH

● KEVLAR BELT TRACK

● SMART APP LINK

Codes: IA-GARAGE-LUX, IA-GARAGE-EVO | Warranty: 36-Month / Austria



CAD SCHEMA · INTERLOCKING LOGIC

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	SPECIFICATION
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

MEGASTRUCTURE

HURRICANE PROOF

PLC PANEL SYNC

Code: IA-HANGAR-STEEL-MEGA | Warranty: 36-Month / Finland

FABRIC HANGAR DOOR

Double-layer heavy PVC fabric vertical folding door with interior wind load aluminum lattice sections, leaving zero horizontal storage footprint.

CORE MECHANICAL ATTRIBUTES

- ▶ Double wall acoustic thermal fabric layout, wide air core
- ▶ High strength horizontal extruded structural wind trusses
- ▶ Corrosion resistant marine components suited for ports
- ▶ Rapid vertical stacking storage clearing deep pathways

PARAMETER	SPECIFICATION
Width Envelope	Up to 45 meters single clear span
Fabric Spec	1400g/m ² industrial panama vinyl
Thermal Index	U = 0.65 W/m ² K polar insulation
Lift Architecture	Synchronized multi-layer arbor belts
Working Limits	Flawless performance down to -35°C
Sensory Array	Dual laser scanners, entry grid mapping

45M CLEAR SPAN

DOUBLE VINYL WALL

MARINE COMPONENTS

Code: IA-HANGAR-FABRIC-V2 | Warranty: 36-Month / Sweden



CAD SCHEMA · PROFILE LAYOUT

AUTOMATIC RISING BOLLARD

High security anti-ram dynamic hydraulic rising bollard engineered to safeguard embassy perimeters and military storage complexes.

CORE MECHANICAL ATTRIBUTES

- ▶ Anti-crash structural grade heavy steel cylinder pipe core
- ▶ Emergency Fast Operation (EFO) hydraulic pressure booster
- ▶ High visibility top integrated continuous LED light rings
- ▶ Subterranean housing with multi-point drainage paths



PARAMETER	SPECIFICATION
Crash Certification	K12/PAS68 (7.5t truck @ 80 km/h)
Cylinder Diameter	275 mm nominal wall thickness
Extension Elevation	900 mm / 1200 mm road clearance
Material Coating	316 Grade satin brush stainless
Rise Cycle Duration	3.0s regular / EFO under 1.1s
Hydraulic Station	External standalone pressure manifold

K12/PAS68
CERTIFIED

EFO
EMERGENCY

316
STAINLESS

Codes: IA-BOLLARD-K12-HD, IA-BOLLARD-COMMERCIAL | Warranty: 36-Month / Italy

ADVERTISING BOOM BARRIER

Premium commercial parking control boom barrier incorporating integrated double sided backlit corporate advertising panel frames.

CORE MECHANICAL ATTRIBUTES

- ▶ Double-sided impact resistant media frame housings
- ▶ Sinusoidal balancing crankshaft mechanical assembly
- ▶ Modern 24V brushless motor eliminates arm shuddering
- ▶ Pre-configured channel access for vehicle scanning loops

PARAMETER	SPECIFICATION
Boom Span Max	3.5 meters rectangular lightweight arm
Media Backlight	Waterproof low-consumption LED strips
Opening Velocity	3.5 to 5.0s controlled torque curve
Housing Finish	Anti-UV weather-shield orange coating
Drivetrain	24V brushless permanent magnet planetary
Bus Networking	TCP/IP, RS485, Wiegand loop ports

BACKLIT LED
MEDIA

BRUSHLESS
24V

TCP/IP
NETWORKED

Code: IA-BARRIER-AD-MEDIA | Warranty: 36-Month / Netherlands



FOLDING BOOM BARRIER

Articulated counterbalanced automated parking boom arm designed to operate smoothly inside low clearance underground facilities.

CORE MECHANICAL ATTRIBUTES

- ▶ Heavy interior articulating mechanical link joints
- ▶ Customizable fold points configured to ceiling profiles
- ▶ Soft foam rubber lower profile impact mitigation zone
- ▶ High cycle motor drive balancing vehicle turnover



PARAMETER	SPECIFICATION
Arm Articulation	90° or 180° mechanical fold joint
Ceiling Clearance	From 2000 mm to 3200 mm
Opening Pace	1.6 to 2.5s rapid response indexing
Spring Integration	Dual high-cycle tension springs
Logic Interfaces	Programmable countdown closing delay
MTBF Operations	Evaluated for 5,000,000 operations

90°/180°
ARTICULATION

BASEMENT
SAFE

5 MILLION
MTBF

Codes: IA-BARRIER-FOLD90, IA-BARRIER-FOLD180 | Warranty: 36-Month / Italy

CAD SCHEMA · KNUCKLE MODULE

AUTOMATIC SWING BARRIER GATE

High speed prestige entrance pedestrian speed lane barriers designed for smart corporate lobbies, banks, and secure airport transit terminals.

CORE MECHANICAL ATTRIBUTES

- ▶ Ultra slim geometric brushed stainless steel cabinets
- ▶ Impact resistant clear tempered glass barrier panels
- ▶ Multi-zone horizontal safety infrared matrix arrays
- ▶ Direct link to fire safety circuits, fail-open logic

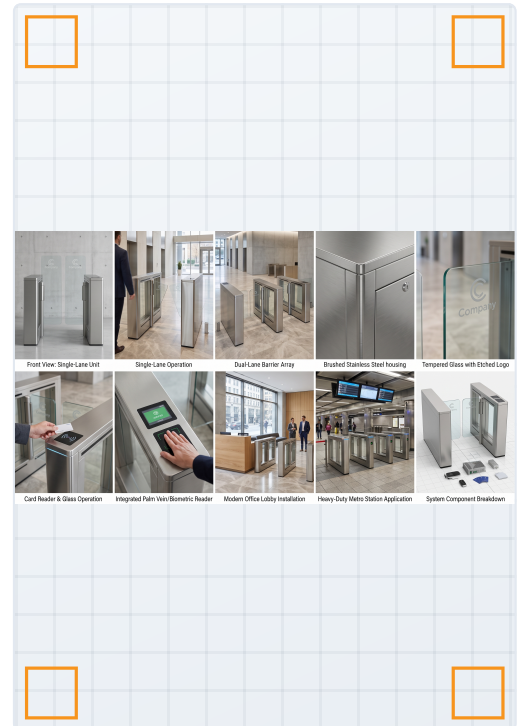
PARAMETER	SPECIFICATION
Passage Width	600 mm standard / 900 mm ADA lane
Cabinet Length	1400 mm elongated tracking profile
Glass Elevations	900 mm waist / 1800 mm high security
Transit Sorting Rate	Up to 45 persons/minute lane flow
Reader Bays	Flush mounts for RFID, Face ID, QR
Drive Core Type	Digital servo, absolute angle encoders

SLIM
DESIGN

BIOMETRIC
MODULAR

FAIL-OPEN FIRE
LINK

Codes: IA-SPEEDGATE-SLIM, IA-SPEEDGATE-WIDE | Warranty: 36-Month / Switzerland



CAD SCHEMA · ACCESS PROFILE



Thank You.

Durable perimeter logic systems engineered for global infrastructure. Our technical team is ready to support tenders, custom specifications, and large-scale procurement programs.

TECHNICAL INQUIRY & COMMERCIAL TENDERS

Industrial Automation Systems
Pune, Maharashtra, India

GLOBAL PROCUREMENT MATRIX

Email — procurement@industrialautomation.global
Web — www.industrialautomation.global

SCAN · VISIT PORTAL