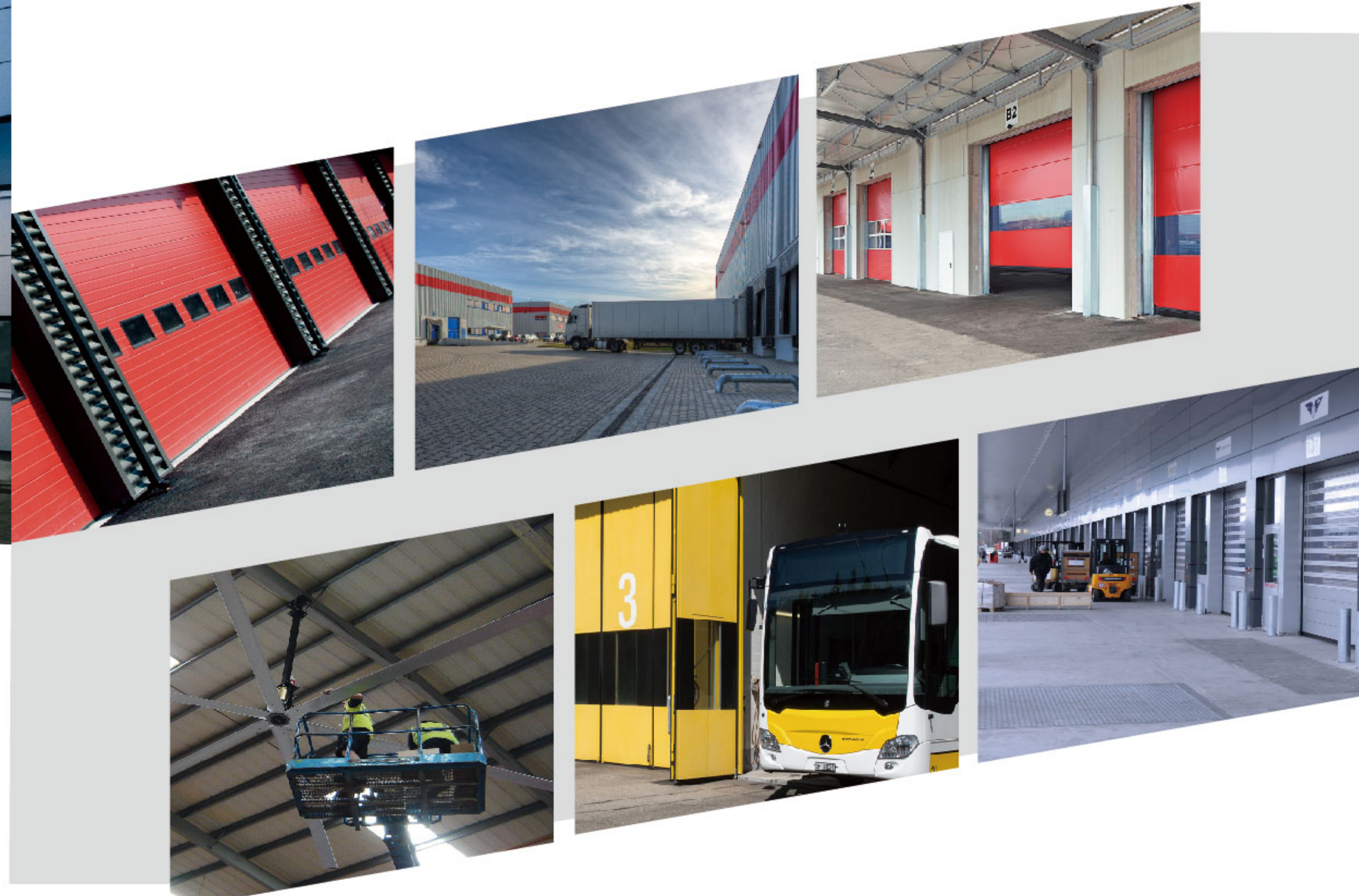




EVERBRIGHT Quality and brand you could trust



EVERBRIGHT  
The quality and brand you could trust



### Products from Everbright

#### Loading technology

- Loading technology for cold storage and logistic
- Dock leveler
- High speed roller door for cold room
- Dock seal/Dock shelter
- Cold storage door

#### Sectional Garage door

- Europe standard garage door
- America standard garage door
- Aluminum glazing garage door
- Series roller garage door

#### Industrial door

- Lifting Industrial door
- Europe standard industrial door
- Aluminum glazing commercial door
- High speed roller shutter
- Sliding/swing door

#### Sandwich panel

- Cold room panel
- Wall panel
- Decoration wall panel
- Industrial /garage door panel

### Zhengzhou Everbright Construction Material Co.ltd

Add:No.41,Dongming Road,Zhengzhou,Henan,China  
Website: www.everbrightdoor.com

E-mail:info@everbrightdoor.com  
Tel:0086 371 65359935

- DOCK LEVELERS
- DOCK SHELTERS
- INDUSTRIAL FAN
- INDUSTRIAL LIFTING DOORS
- RAPID DOORS
- FOLDING&SLIDING DOORS



## List of Contents

### Summarized product introduction /3

#### Dock equipment

- D&DL H1000 single Hydraulic Dock leveler /5
- Hydraulic miniramp /11
- Steel miniramp /12
- Rail sliding manual ramp /13
- Aluminum mobile bridge(PLQ) /15
- Aluminum mobile ramp (DPC) /16
- Heavy duty adjustable mobile bridge(PLUS) /17
- Accessories /18
- Dock seal&dock shelter /25

#### Industrial doors

- PVC high speed door /27
- PVC high speed fold up door /29
- High speed door for cold storage /30
- Aluminum spiral door /33
- Motor and control box of rapid door /36
- Industrial lifting door /38
- Aluminum glazing commercial door /41
- Hardware of industrial and commercial door /42
- Motor and control box of industrial lifting door /43
- Folding &sliding industrial door /45

#### Industrial fan

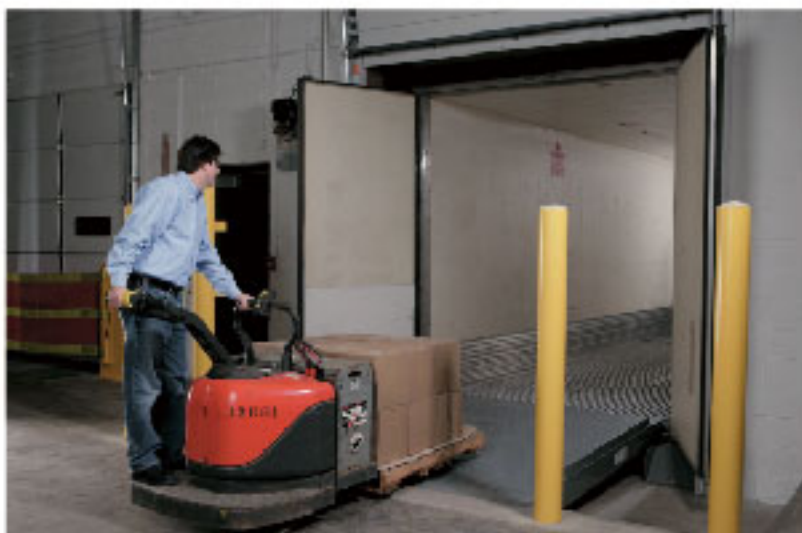
- HVLS Industrial fan /47
- HVHS Fan /50

## Summarized product introduction



Our door and Dock leveler equipment are widely used in the logistics, warehousing and cold storage industry.

### Dock leveler



Engineered to offer a smooth transition for forklift operator to load and unload goods from the warehouse facility floor to trailer with the highest efficiency and reliability. Dock levelers has two point crown control on the front lip hinge that distributes the load evenly, smooth out the transition between the leveler and the trailer bed, and extends the hinge life. Dock leveler also helps to eliminate potential hazards and reduce negative impact to employee, forklift and cargo safety. Common type of dock leveler use 'open-top' movement, however when parking space is limited an extended lip chamber would be used.

### Dock seals and Dock shelters



D&DL dock seals and dock shelters offer superior quality that can withstand high winds, heavy rains, cold weather, intense heat and sunshine exposure and any wear & tear made to D.L edges boundary by vehicle movement. It also has thermal insulation effect to keep the warehouse under controlled temperature and give employees a more comfortable working environment while keeping your cargo in the suitable better controlled atmosphere and temperature. D&DL dock seals provide safety from aggressive ingress of rodents and birds which cause costly damage to your cargo.

### Industrial lifting door



D&DL has full range of industrial doors, adopted from the Canadian made continuous panel line technology. With this state of the art technology and design our products are highly regarded and widely used in the industrial / commercial buildings and logistic warehouses. Opening and closing doors is a repetitive process which should not be a hassle, the more easy and efficient door control is the better your productive during handling cargo.

### Rapid door



High-speed doors are door systems, mainly used in industrial applications. They are technical enhancements of the generally known sectional doors, PVC high speed door or rigid spiral door. The main difference is that the durable construction provides a higher operating speed and they are able to sustain a higher number of cycles (opening and closing cycles) and require lower maintenance and repair cost. Depending on the intended field of application, we offer different operating types.

### Folding and sliding door



Folding and sliding industrial doors provide the perfect solution when space inside is limited either for side room or headroom. Folding sliding doors are generally constructed from steel or aluminum sections with optional glazing sections providing light or display of products as in vehicle sales and the like.

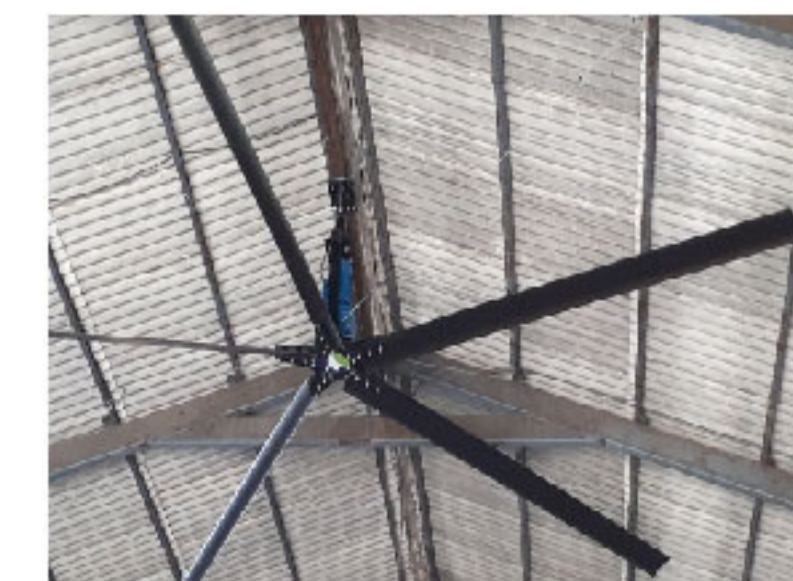
Available as a single stack to one side or bi-folding to both sides of larger openings they will provide an excellent solution for either effortless manual operation or electric operation on larger sizes. Minimal maintenance is also a positive reason for specifying folding doors with very few actual moving parts, even less of course with a one piece sliding door set.

The Everbright industrial folding doors can be installed in especially large openings measuring up to 14 m width and 7 m height.

This version can be individually adapted to the customer's needs.

### HVLS FAN

#### WHAT ARE HVLS FANS?



Technically, an HVLS — high-volume, low-speed — fan is a ceiling fan greater than 7 feet (2.1 meters) in diameter. Unlike a small, high-velocity fan that creates small, turbulent air streams that quickly disperse, an HVLS fan relies on size, not speed, to move a significant amount of air. Originally designed for large spaces such as barns and factories, HVLS fans have evolved as technology has rapidly improved. They now are found in a wide variety of industrial, commercial and residential spaces, often working in conjunction with HVAC systems for energy savings. In fact, energy-efficient HVLS fans have quickly assumed a leading role in the green building

movement.

The air from an HVLS fan moves toward the floor in a column that radiates in all directions, flowing horizontally until it reaches a wall — or airflow from another fan — at which point it turns upward and flows back toward the fan. This creates convection-like air currents that build as the fan continues to spin. The increased air circulation effectively removes hot, humid air and replaces it with drier air. The result is a silent, non-disruptive and even distribution of 3- to 5-mph breezes over large spaces, with a perceived cooling effect on occupants of up to approximately 10°F (6°C). During winter, HVLS fans effectively redistribute warm air trapped at the ceiling down to floor level.

## D&DL-H1000 Single Hydraulic Dock Leveler

Easy and Efficient Hydraulic Dock Leveler with Single Hydraulic System



### Reliable Hydraulic System Solid and Strong Structure

D&DL is committed to create the safest hydraulic dock leveler with comprehensive safety configuration consisting of the UMBRELLA supporting bar, Hydraulic check valve and interlocking control system. D&DL provides a wide variety of optional configurations, comprises of a full range of public and imperial dimensions, different types of color paints and galvanized surface treatment. D&DL Hydraulic Dock Leveler offers safety with the smoothest transition using constant radius rear hinge, dual five degree on the front lip that distribute the load evenly. D&DL dock levelers are flexible and durable to provide the smoothest ride between facility floor and trailer, significantly reducing employee injuries, less product spills and damage, lower maintenance costs and higher productivity.

### Structure and Hydraulic Quality Features

Load: Dynamic Load 10 metric tons.

Platform Plate: slip-resistant micro-rib steel plate.

Lip: slip-resistant micro-groove steel plate.

Extension: 850mm

Maximum UpLift and Down movement from horizontal zero-position:

Maximum UpLift: 660 mm

Maximum Down move: 300 mm

Hydraulic Power Unit: 1-1.5 Hp (horse Power) imported quality, inclusive of the lip operation being controlled by hydraulic power system, it gives better reliability and reduce maintenance costs.

Surface Treatment: Environment-friendly varnish with long-term corrosion protection.

Colors: Standard colors are black and grey, customers can also choose their own colors by preference.

Opening your door  
to reach wide variety of vehicle height



## D&DL-H1000 Single Hydraulic Dock Leveler

Structure features Mechanical features

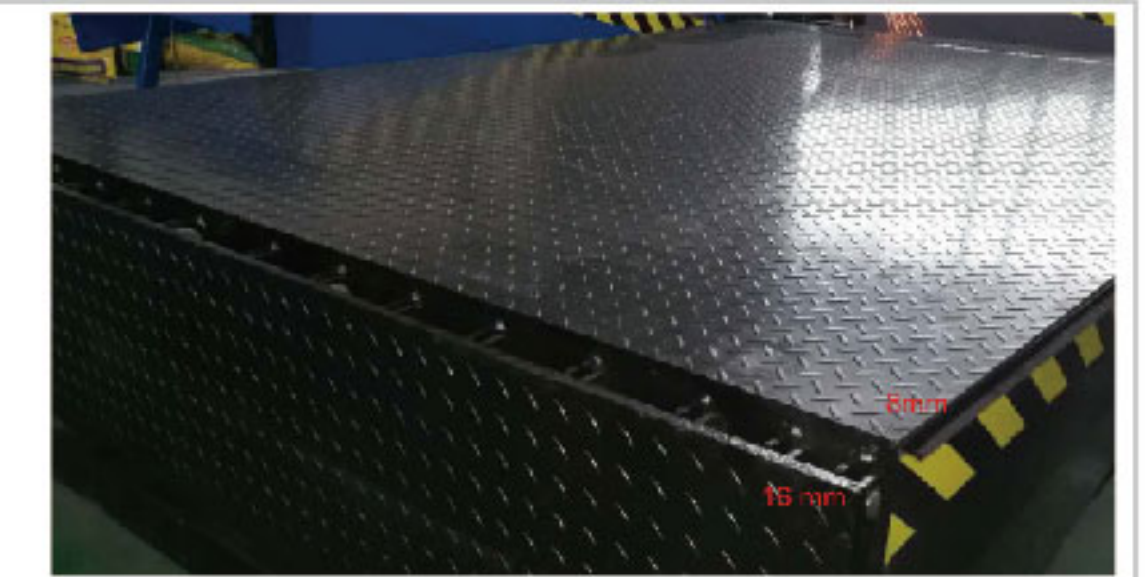
### Features

#### Lip

Thickness: 16mm ,  
one piece checkered plate, no welding

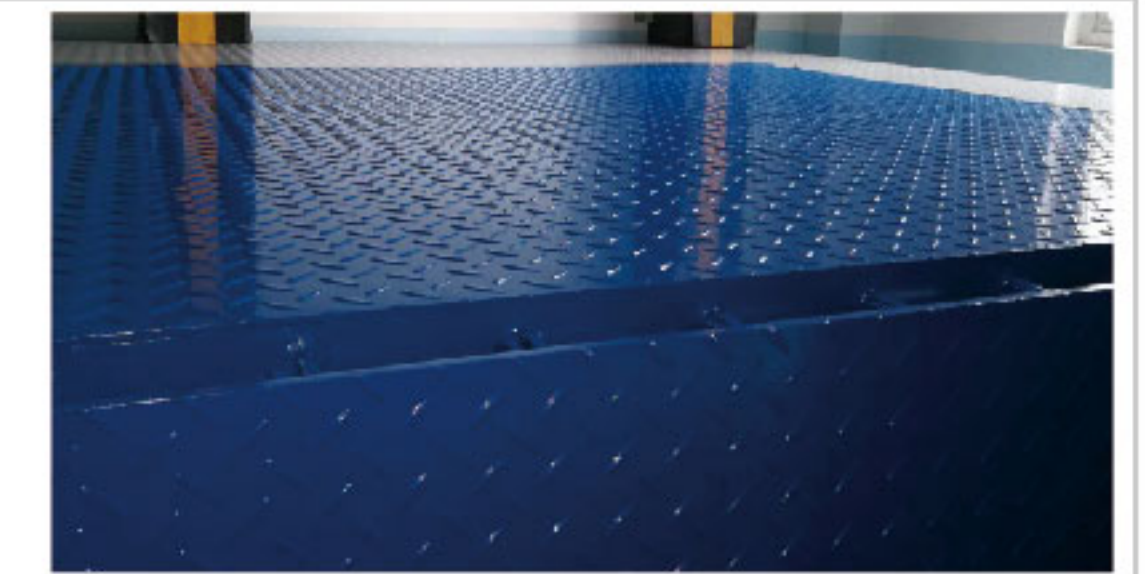
#### Top bearing plate

Thickness: 8mm , one piece checkered  
plate, no splicing welding.



#### Stoving varnish

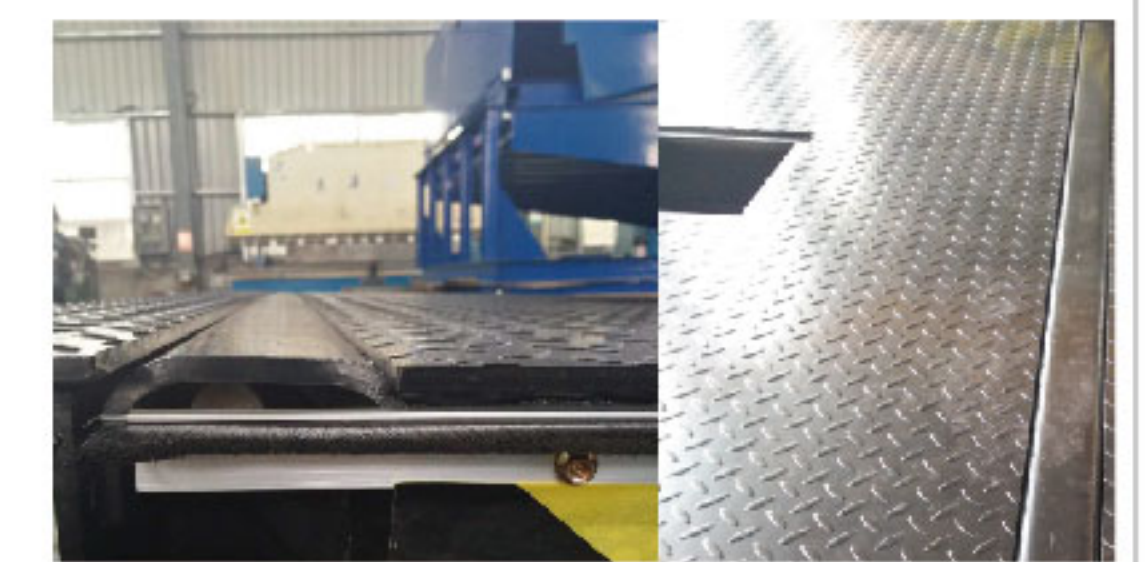
bearing for service life time , No rust .



**14 H strut** to support the top bearing plate ,  
no curve , long time service time



**Smooth transition** - Constant-radius rear  
hinge and an optimized chamfer help provide the  
smoothest transitions for your operators, forklifts  
and products as they move in and out of a trailer.



**Exclusive Safe-T-Strut** offers a unique,  
through-the-lip design that supports the  
leveler platform and lip, keeping the strut  
in place even when the leveler is raised to  
the highest position or impacted by a forklift.  
Safe-T-Strut also provides lockout/tagout  
capability.



**Opening lip hinge**

dust can not deposited there , no need to clean


**Low operating hydraulic pressure**

The use of one single chrome hardened main cylinder with double sealing ensures that the hydraulic system has an extreme low operating pressure. This reduces failures and increases durability.


**Safety facility**

solenoid valve and explosion relief valve prevent the dock leveler falling down while the forklift is working on it and protect the cylinder.


**Dimensions and specifications**

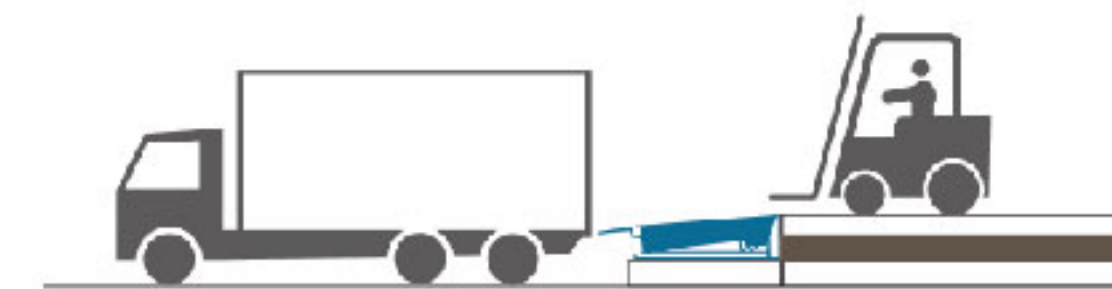
Length mm	2000/2500 /3000/3500/4500 mm	
Width mm	1800/2000/2200 mm	
Operating range mm		
Up	304	365 425
down	300	300 300
Thickness of the top sheet on the platform cover	Standard* 8/(0,8-2,4)* mm	
Thickness of the lip	16mm	
Color**	Blue RAL 5005	
Number of lift cylinders	Standard	1
	on request	2
* In the brackets is the height of the embossing.		
** Powder painting, pre-treated in shot blasting chamber.		

**Technical specifications**

Load capacity	6000 kg (60 kN)/10000 kg (100 kN)	
Maximum point load	top sheet 8 mm	6,5 N/mm <sup>2</sup>
Motor hydraulic unit	1.1KW	
Supply voltage	380V,3 phases	
Control voltage	24V	
Control unit protection class	IP54	
Working fluid	Mobil DTE10 EXCEL	
Class of surface cleaning before painting	Sa2	
Thickness of painted layer	60-90µm	
Operating temperature range	-30 -- +50°C	

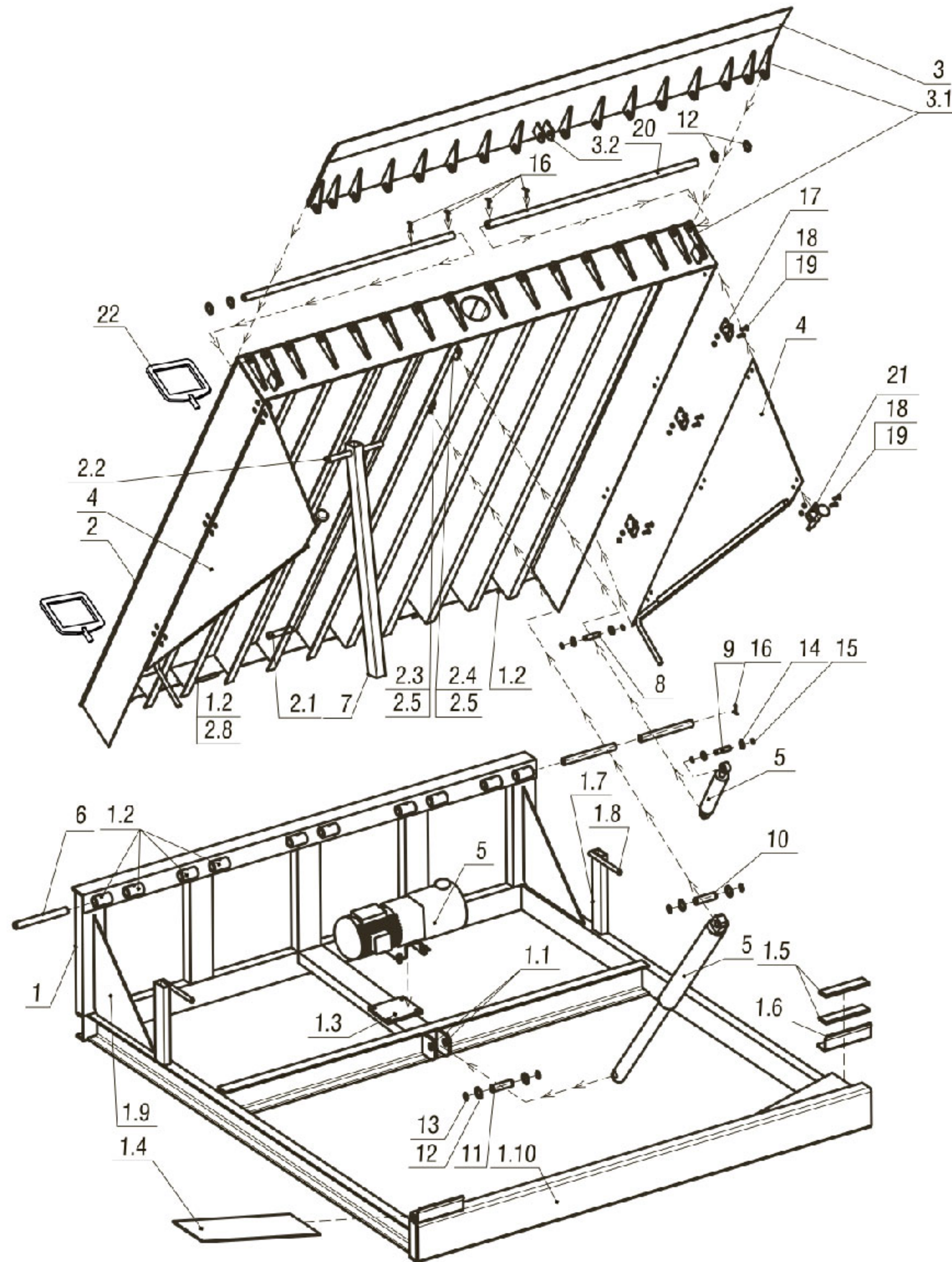
**Configuration and accessories**

	Standard	Optional
Mounting type	Embedded/suspended	Other upon request
Colour	Signal blue (RAL 5005)	Other upon request
Lip	Length — 400 mm	Length — 500 mm, segmented lip, tapered lip
Hydraulic system	1 lift cylinder, 1 control cylinder	2 lift cylinders, low temperature oil -50°C
Seal	PVC-seal along perimeter	For dock levelers > 3000 mm
Heat insulation		Polyurethane foam insulation under upper deck



With EVERBRIGHT DOCK LEVELER  
YOU COULD

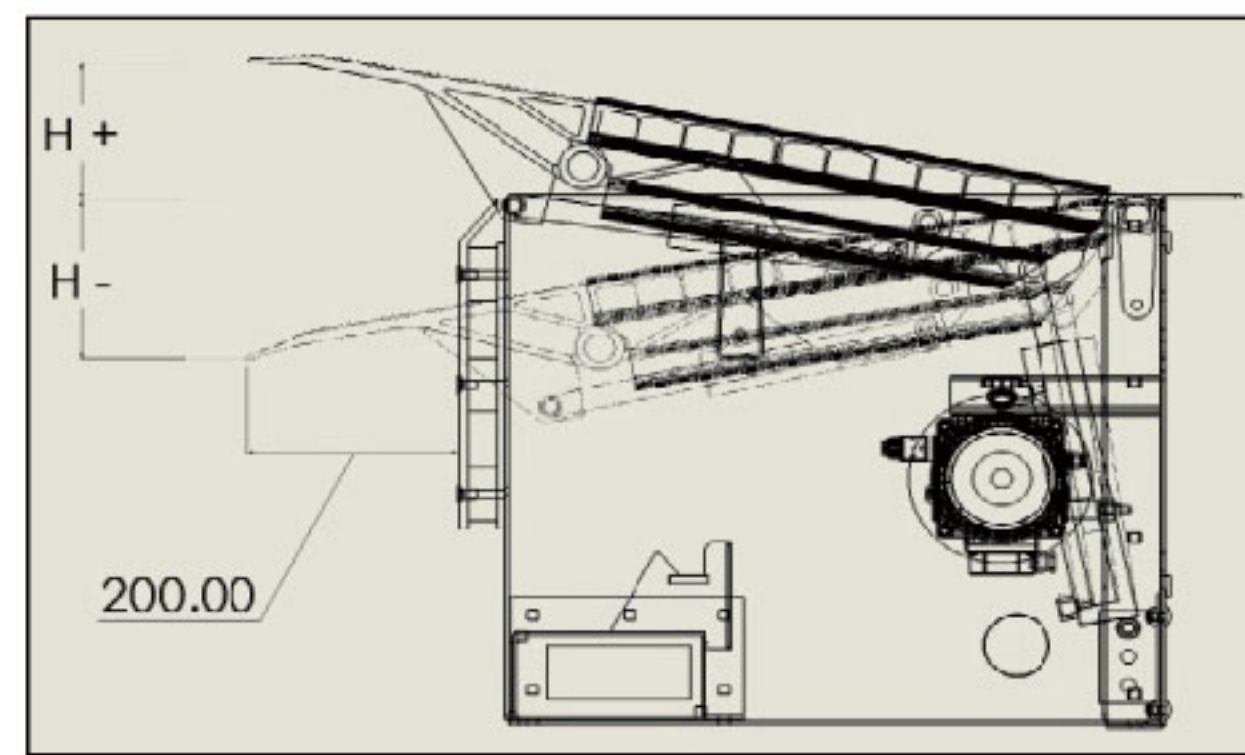
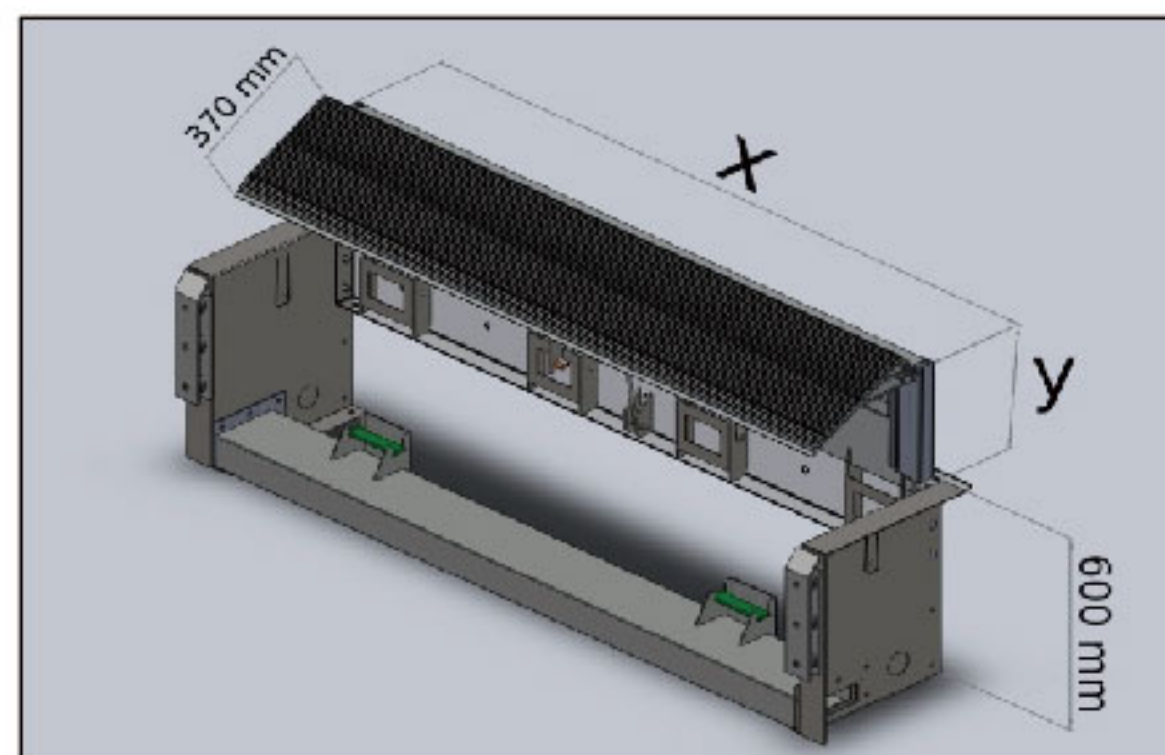
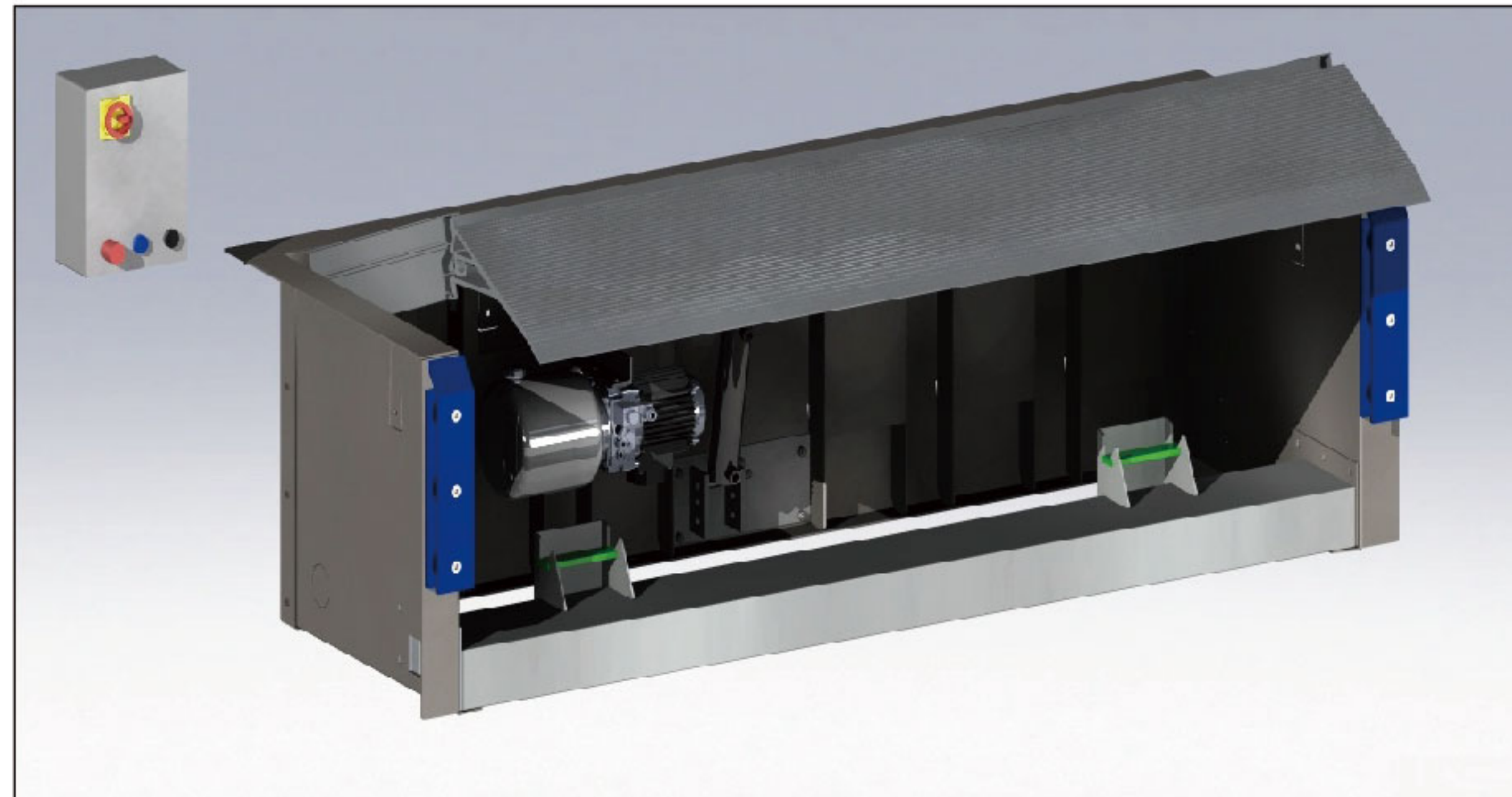




### Component list

Pos.	Name
1	Truss
1.1	Loop
1.2	Bushing 27×40×69 mm
1.3	Mount
1.4	Bevel
1.5	Lip installation mount
1.6	catcher
1.7	Steel tube 50×25×2,5 mm
1.8	Shutter stop
1.9	Gusset
1.10	Cross beam
2	Upper deck
2.1	Hook
2.2	Bar
2.3	Loop
2.4	Loop
2.5	Loop base
2.6	Side seal
3	Lip
3.1	Hinge
3.2	Loop
4	Right/left shutter in assembly with roller
5	Hydraulic drive in assembly
6	Elevation axis
7	Maintenance support beam
8	Axis 16×55 mm
9	Axis 16×68 mm
10	Axis 25×68 mm
11	Axis 25×91 mm
12	Washer 26×47 mm
13	Closing ring $\Phi$ 25 external
14	Washer 16×30 mm
15	Closing ring $\Phi$ 16 external
16	Cotter pin 4×40 mm
17	Internal hinge
18	Screw M6×20 DIN965
19	Stainless Nylon Insert Lock Nut M6 DIN985
20	Lip axis
21	Roller in assembly right/left
22	Mounting bracket assembly

**HYDRAULIC MINIRAMP**



CODE	X	Y	H+ / H-	WEIGHT
MR480B-OIL	2000	400+LIP	100/100	170
MR780B-OIL	2000	700+LIP	135/135	230
MR1080B-OIL	2000	1000+LIP	190/190	270

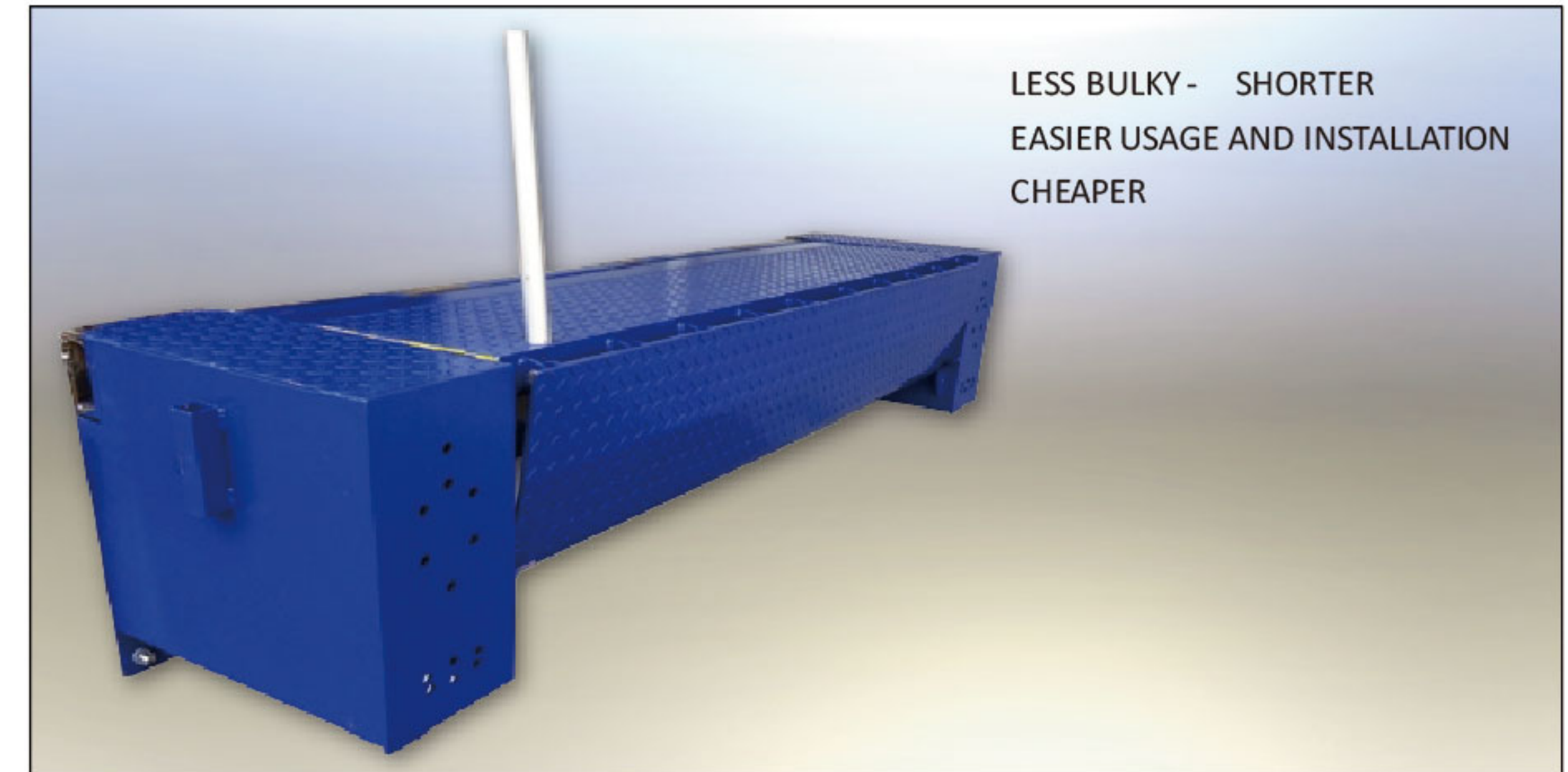
**MAX CAPACITY 6000 kg**



**DETAILS:**

- Surrounding galvanized steel boxframe (optional for INOX)
- 6000 kg capacity aluminum plate with anti-slip cross-ribbing
- Hinged lip in one piece 370 mm long with extruded joint between lip and plate.
- TAM3F standard rubber bumpers (see TAM LINE)
- Perfectly fitting with H.A.A.C.P. rules
- CE certificated model
- Double effect lip control oil piston
- Single effect plate lifting oil piston with parachute valve
- Hydraulic control unit activated by three-phase engine
- Power panel according to CEI 20/22/2 (IP55) with 7 mt long connection cable

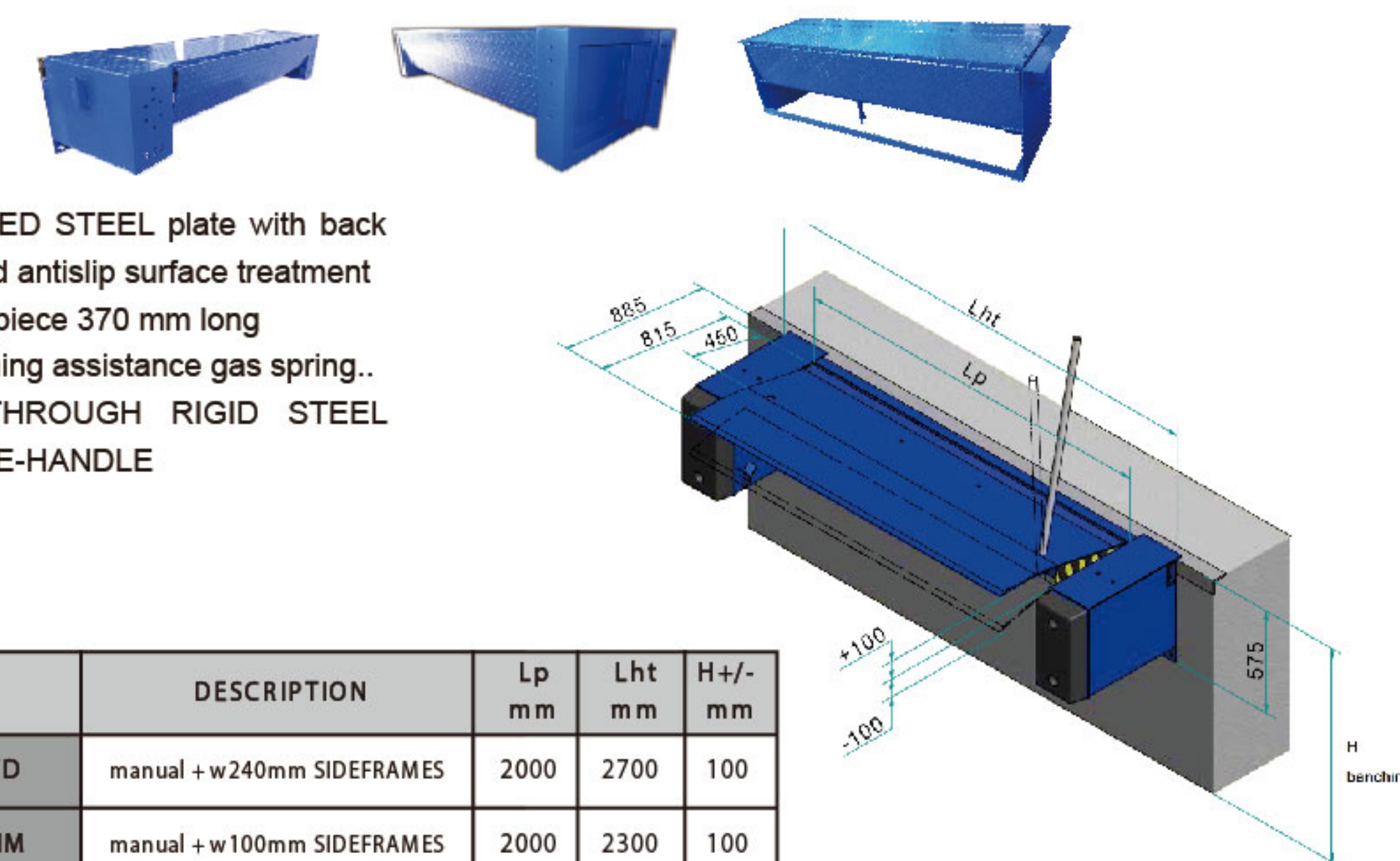
**STEEL MINIRAMP**



VERSIONS	STANDARD	SLIM	BOX
INSTALLATION	OUTSIDE CONCRETE BAY	OUTSIDE CONCRETE BAY	INSIDE CONCRETE BAY
DISTANCING STRUCTURE	BIG - 250MM WIDTH	SMALL - 100MM WIDTH	NO STRUCTURES - BOXFRAME
COMPATIBLE RUBBER BUMPERS	TAM-SPEC	TAM-2F	ALL
COMPATIBLE Metal BUMPERS	T-REX	VTM	ALL

**DETAILS:**

- 6000 kg capacity
- RAL 5010 PAINTED STEEL plate with back reinforcements and antislip surface treatment
- Hinged lip in one piece 370 mm long
- Lifting and positioning assistance gas spring..
- POSITIONING THROUGH RIGID STEEL
- REMOVABLE SIDE-HANDLE



CODE	DESCRIPTION	Lp mm	Lht mm	H+/- mm
MR-ACC.MAN.STD	manual + w240mm SIDEFRAMES	2000	2700	100
MR-ACC.MAN.SLIM	manual + w100mm SIDEFRAMES	2000	2300	100
MR-ACC.MAN.BOX	manual + BOXFRAME	2000	2050	100
MR-ACC.OIL.STD	hydraulic + w240mm SIDEFRAMES	2000	2700	100
MR-ACC.OIL.SLIM	hydraulic + w120mm SIDEFRAMES	2000	2300	100
MR-ACC.OIL.BOX	hydraulic + BOXFRAME	2000	2050	100

## Dock seal & Shelter

Save energy inside and keep dust outside

The use of dock seals and shelters is now commonplace – they are used to protect goods and employees from the elements for example or to keep a temperature controlled facility at the correct temperature while the doors are open during the necessary loading and unloading operations. There is the added bonus of reducing energy costs by reducing the loss of expensive warm or cooled air.



### Cushion seals

Cushion seals are mainly used on temperature controlled stores where the compression of the pad gives a tighter seal and maintains the tight control of temperature and energy losses that this type of facility demands.

When the vehicle reverses on to the cushion seal it compresses the foam as far as the dock buffers allow thus creating a seal between the vehicle and the building.

Commonly cushion seals are 300mm wide and the internal clear opening size is approximately 2250mm wide x 2500mm high, they are installed at warehouse floor level.



Cushion seals are made using high density closed cell foam encased in heavy duty PVC – some models also have wear plates in addition to the front material to increase the durability of the seal.

### Retractable Dock shelter

Retractable Dock Shelter is the most commonly used because they cater for a mixed vehicle fleet with curtains that extend in from the sides and head allowing a vehicle to push through and keep the worst of the elements at bay. The curtains are designed to flex but maintain contact with the rear of the vehicle to maintain the “seal”.

Usually retractable dock shelters are circa 3500 x 3500 x 600mm deep and are installed at warehouse floor level. A tolerance of approximately 400mm should be allowed above the tallest vehicle to ensure a long life for the head curtain. Special sizes are available to suit level entry doors or special size vehicles.



Retractable Dock Shelters are made from good quality materials – in fact the front curtain material started life as abrasion resistant conveyor belting!

The retractable frame is made from galvanized steel to make sure it lasts the course when exposed to the elements and just in case the shelter gets accidentally hit the arms are designed to retract out of harm’s way by moving back and up.

Retractable Dock Shelters are commonly used on ambient unheated or part heated warehouses where weathering of the opening and protection of the goods are the main criteria.

### Inflatable Dock Shelter

The Inflatable Dock Shelter is growing in popularity as more comprehensive control of vehicles and equipment becomes available.

The use of inflatable seals works very simply; the vehicle arrives at the dock usually with an external traffic light showing green, when the warehouse operative is alerted to the presence of the vehicle.

Once the fan is energised the cushions fill with high volume, low pressure air and maintain steady contact on the sides and roof of the vehicle providing a good tight seal, reducing the ingress of the elements and keeping in expensively generated warm or cooled air.

Although inflatable seals are made to standard dimensions Everbright also provides a service to make special sizes to fit to existing buildings and special applications.





## High Security, High Speed, and Architectural Style -All in One Door

High-speed doors are door systems, mainly used in industrial applications. They are technical enhancements of the generally known sectional doors, PVC high speed door or rigid spiral door. The main difference is that the durable construction provides a higher operating speed and they are able to sustain a higher number of cycles (opening and closing cycles) and require lower maintenance and repair cost. Depending on the intended field of application, we offer different operating types.

### PVC high speed door

Speed Flex-Roll up high speed door is designed for fast operation and insulation required industrial facilities which is internal applications or negative pressure area require isolation, quick operative and easily adoptable to different applications.

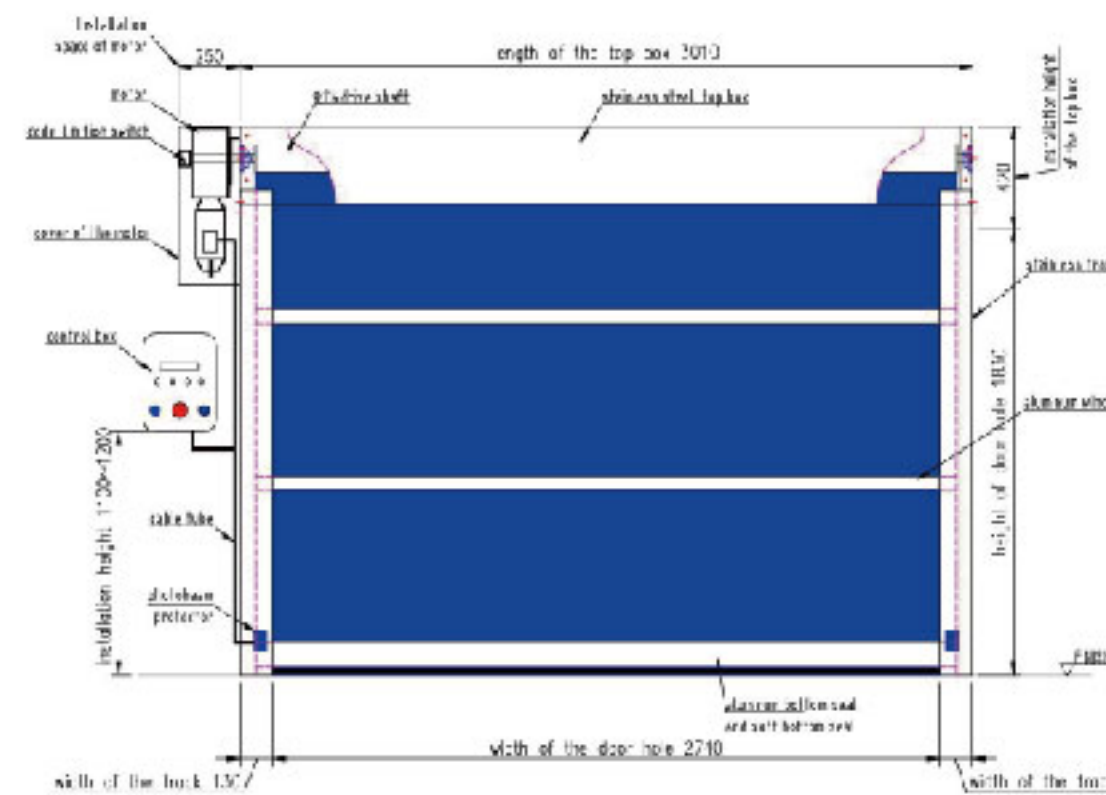
You could manage your extreme traffic for exterior or interior applications. This model high speed roll up door is our one of most successfully series doors, it has flexibility for different applications also high durability design also suitable for long-term industrial use, Flexible and reliable system that you can use for many years, it can be applied for many type industries also can be re-design for special conditions of the doors. If you need insulation at high traffic area one of our roll-up door will be your best assistance.



### Specification

Speed	Opening: 0.8-1.2m/s Closing: 0.5m/s	Application	Indoor use
Wind load	450N/m <sup>2</sup>	Frame	Galvanized steel /Aluminum/ Stainless steel
Water proof performance	Grade 2 (50N/m <sup>2</sup> )	Max.size	6000*6000 (W*H)
Air tightness	1 levels (at 24m <sup>3</sup> /m <sup>2</sup> /h 50pa)	Color	Yellow ,orange,blue
Heat loss performance	1000000 cycles	Security	Photo beam ,soft bottom seal
Service life	1000000 cycles	Window	Transparent window
		operating types	Radar/Induction loops/manual switch

### CHARACTERISTICS



The self-bearing metal frame is made of galvanized or stainless steel or aluminum, and acts both as a frame and as a guide track for the strong PVC curtain.

The fabric curtain consists of a double layer, tear resistant PVC, self-extinguishing to class 2, with transparent vision panels, if required, allowing personnel to see through the door before transit.

You can choose among a range of colors in order to match the door with the surroundings.

The rolling shaft rotates on supports which have self-aligning bearings.

The opening system is made up of a self-braking motorized reduction group, with a limit switch and belt driver towing.

Maximum safety during use is ensured thanks to infra-red photocells supplied with every door. These work under all weather conditions. The control panel with protection level IP54, and is guaranteed for 12 months.

### Standard colors



Yellow Ral101



Orange Ral2011



Blue Ral5002



Grey 7046

### Operation methods



Radar

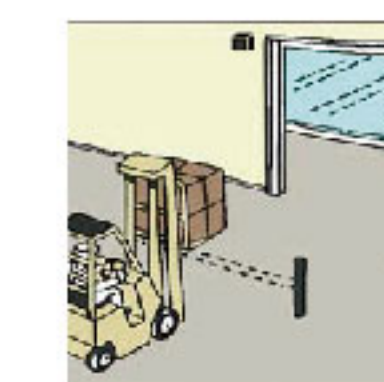
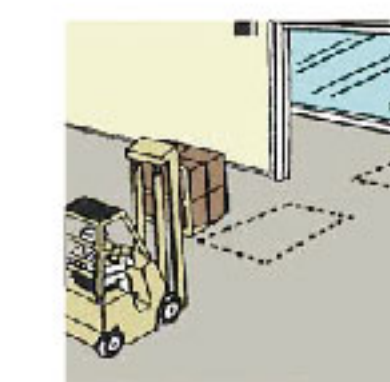


Photo cell



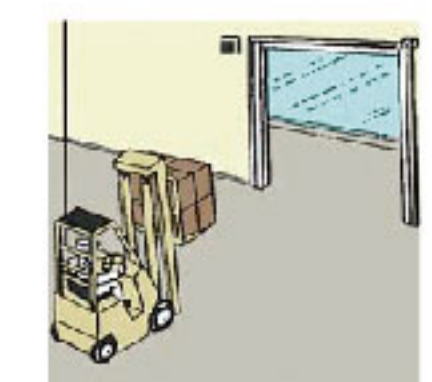
Remote control



Induction-loop



Switch button



Pull switch

## PVC High Speed Fold-up Door

Pvc High Speed Fold-up Door is one of the new generation of high speed Door manufactured by Everbright. Reinforced Aluminum or steel supports bar high density pvc fabric materials, special designate drum system serve to you every conditions. This type of door is suited for larger size openings and is designed for heavy duty application.

High-speed pvc folding doors are offered many different versions, providing individual and customized system solutions for nearly every application requirements. It is used multipurpose application for all type industries, from logistic to chemistry to manage the traffic and insulation required area. It has flexible design and can be applied for different applications, so tailor made solutions is one of our most important properties



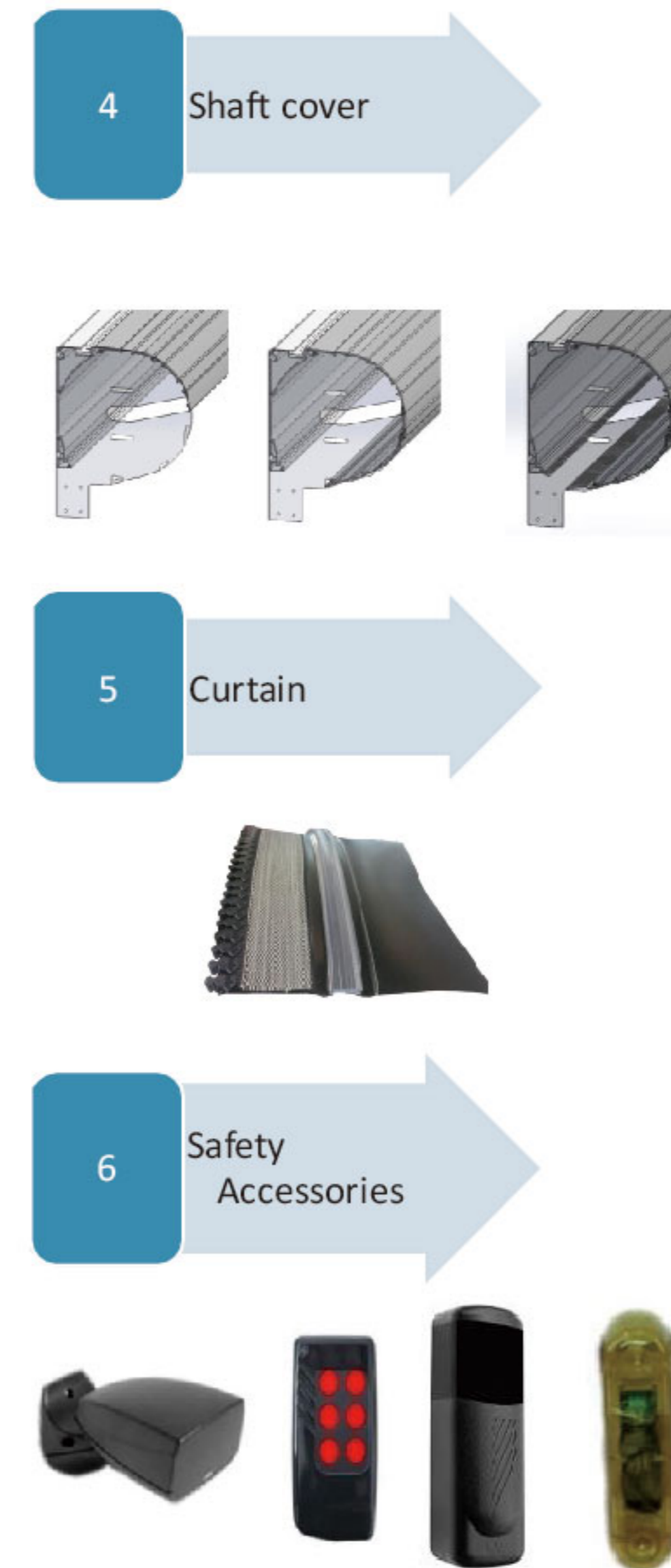
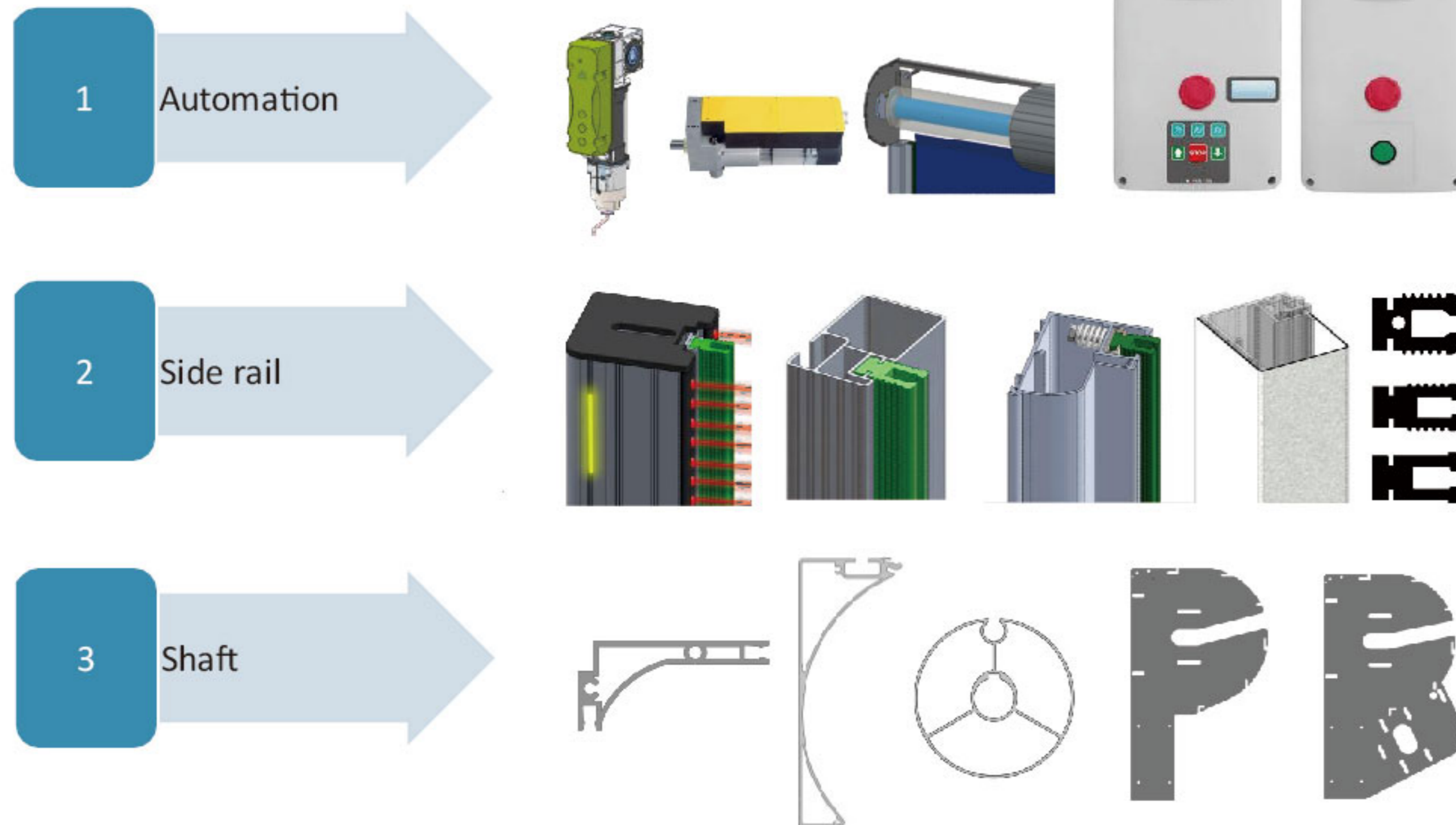
Wind resistance	Class 3	Side Guide	Galvanized Steel
Structural load	0.06kN/ m <sup>2</sup>	Avalible height	8 mt
Structure	Galvanized steel	Avalible width	6 mt (one pieces)
Intermediate beams	Galvanized steel pipe	Working Speed	90 cm/sec-(1.5 mt/sec with frequency Converter)
Bottom beam	Galvanized steel	Motor Power	1.5-3 Kw
Drum	Aluminum (no welding process)	Operation temperature	-35 oC +70oC
Water Tightness	Class 2	Bottom Safety Edge	Optional
Air Permability	Class 2	Safety Photocell	Standard
Emergency Opening	Crank Manuel (counter balance –optional)		

## High speed roll up door for cold storage



Structure completely made in anodized aluminum, with modular fixing holes for easy assembly and installation. Columns (1) hold inside polyzene rail with a special aluminum bracket, rubber gasket included\*. All is designed to fit with pvc stretching movements, granting top wind resistance. Columns have an inspectionable cover (2), holding power cables with Plug-&-play connectors. Screws are fixed inside in hidden position. The outer side can be equipped with a pair of photocells or H2000mm photosensitive barriers. Aluminum shaft is ready for pvc installation, the horizontal engine is already mounted on its bracket. All fixing plates are made in aluminum or stainless steel. 900gr pvc is welded with reinforcements and compensation elements according to dimensions and use. Zip fastener is a new concept, designed to avoid any breakdown in repairing phase. Doors are supplied in pre-assembled state, thus installation is all about fixing boxframe and vertical columns and making final collaud.

## SPECIFICATIONS



Structure	Standard Aluminium Anodized
Dimension	3000 x H 4000
Opening Speed	Up to 2 m/sec (adjustable) – Soft Start & Soft Landing
Closing Speed	0.8 m/sec (adjustable) – Soft Start & Soft Landing
Wind Load	UNI EN 12-424 Class 2
Main supply	230V AC monophase
Curtain	Polyester curtain extra strong 900 gr/sqm self extinguishing class 2. ZIP type side sliding system without rigid bar. Sliding guide with heating system
Motor	3phase 1100 Watt or 1500 Watt with integrated heating system
Insulated curtain	Optional Insulated curtain 3 mm thickness. Thermal insulation 3,7 K with condensate reduction.
Control Panel	Electronic INVERTER model "Speedy-M", speeds management, Open button on both side, 8 operating modes, Standard functions: Interlock / Pedestrian opening / Passage detection. Fully programmable with easy buttons and Display. LED flashing beacon light. UPS Battery Pack as option.
Limit switch	Optical limit switches in the curtain guide.
Safety	One pair of photocells, flexible bottom edge with anti-crush system.
Manual operation	Standard manual opening/closing with long handle. Optional UPS Battery pack for automatic opening in case on main power failure.
Certification	UNI EN 13241-1 Compliant

Really High speed. Up to 2 m/sec opening speed with heated motor for cold room application.

The flexible curtain automatically resumes or easily manually resumes its original position in the lateral tracks when the door is hit accidentally, thus reducing maintenance costs and time.

The bottom edge of the curtain is supplied with a flexible part for total safety, in case of impact with people or objects.

The sliding system of the curtain guarantees perfect isolation between the exterior and interior.

Curtain guides and motor with heating system.

Optical limit switch.

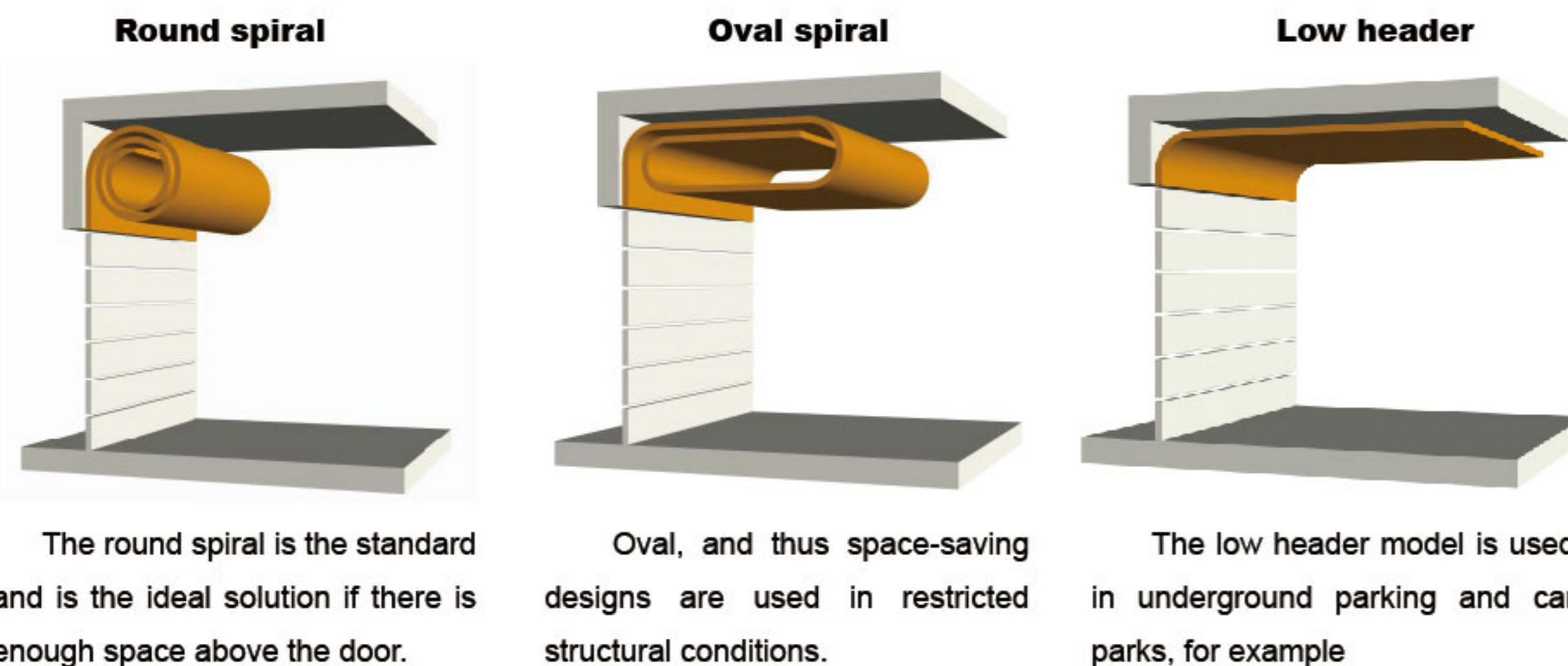


## Aluminum PU spiral door

The fast insulated door with a PU-foamed door leaf

The Spiral door offers high-speed operation for high-traffic situations and rigid aluminum slat construction that eliminates the need for a second security door. Crisp lines give the Spiral door a stylish look that's great for many types of commercial, automotive retail, government, institutional and industrial applications.

The Spiral is ideal for automotive dealerships, government, parking and security.



### All models ensure the highest level of safety for people and vehicles!

Economical and efficient, the High Speed Spiral sectional door, with electromechanical drive, is designed for industrial, continuous use even under the most difficult conditions and to operate continuously with minimal maintenance.

The High Speed Spiral sectional door with, electromechanical drive, is designed for the industrial continuous use even under most difficult conditions.

The sectional door mechanism consists mainly of a self-supporting construction with lateral galvanized steel borders where the door sections move without contact in a aluminum spiral.

Due to the contact-free opening into a spiral, the door runs quietly and virtually wear-free. The side pieces have additional extension springs which ensure the weight counterbalance of the door blade.

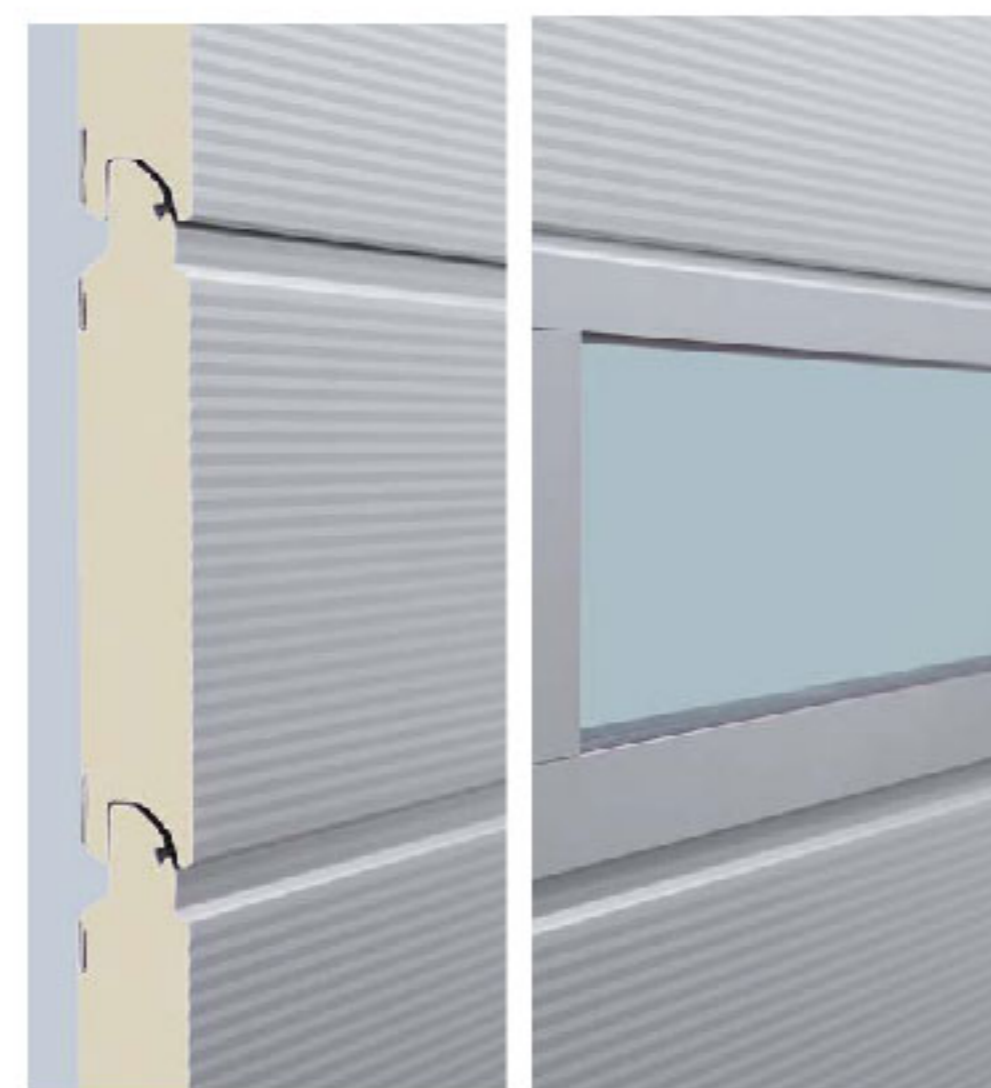
The door blade consists of reinforced structure at the hinge installation position and is supplied with either transparent or complete fillings.

The Everbright-door leaf has outstanding heat insulation features and depending on the desired amount of light, it may be equipped with completely transparent panels to ensure an optimum view.

The sections are connected by hinges and guided by cogwheels during the up-and down movement.

The aluminum spiral is constructed in such a way that the sections of the door blade move against each other without contact and therefore wear-free and silent.

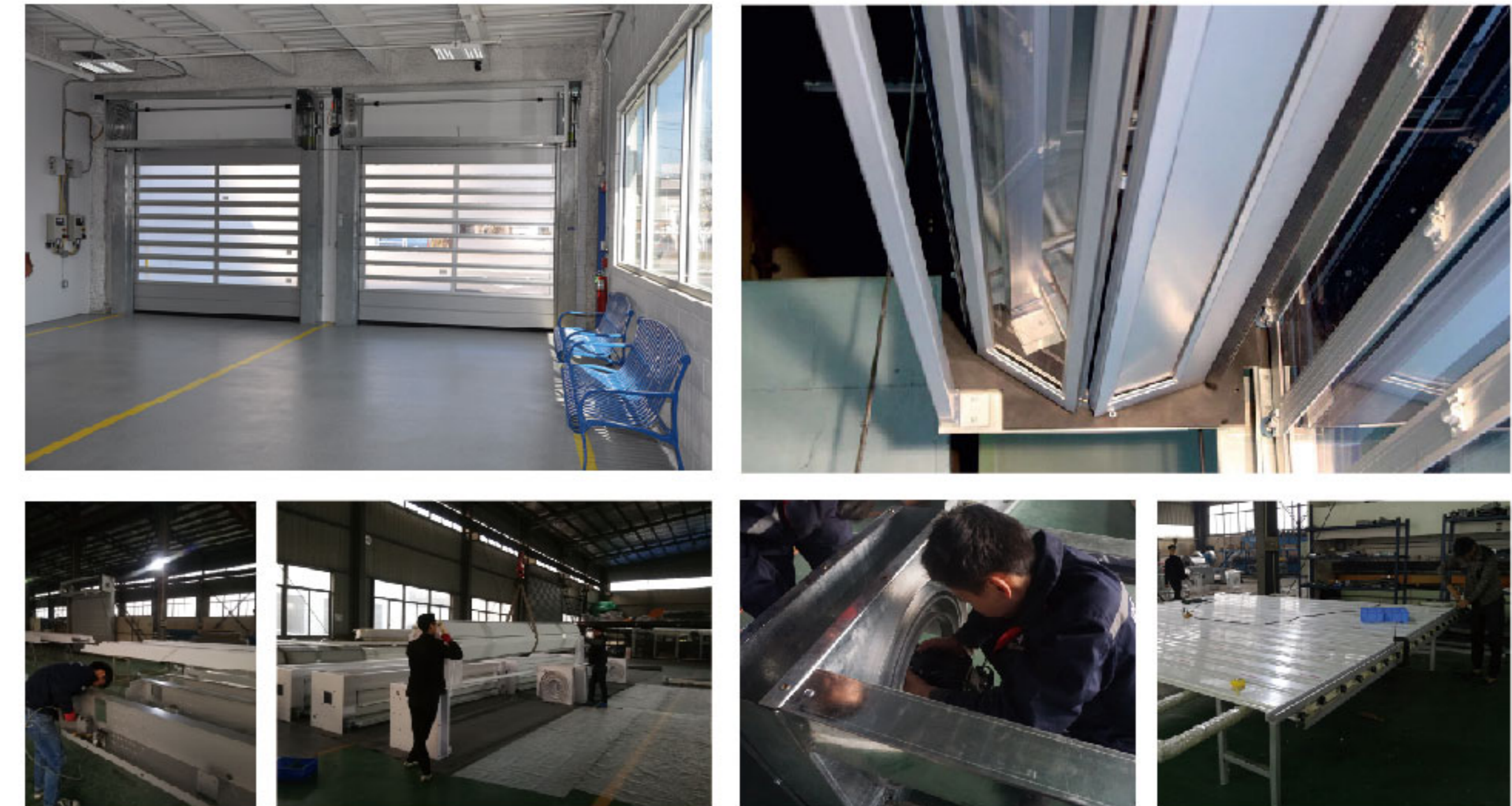
Designed to operate continuously, with minimal maintenance, the High Speed Spiral door delivers savings from the moment of installation!



- Double-walled 220mm aluminum slats
- Integral weather seal between the aluminum slats
- Heavy-duty hinge system for door panel assembly
- Galvanized steel side frames and head
- Extension springs in side column
- Dual thru-beam photo eyes and reversing edge

## Benefits

- No metal-to-metal contact reduces wear on the door panel and offers fast, quiet operation.
- Opening speeds up to 2.0m per second allow for improved traffic flow and enhanced customer perception.
- Counterbalance system, special spiral design and AC drive reduce wear and increase door longevity, with minimal preventative maintenance.



## Technical overview

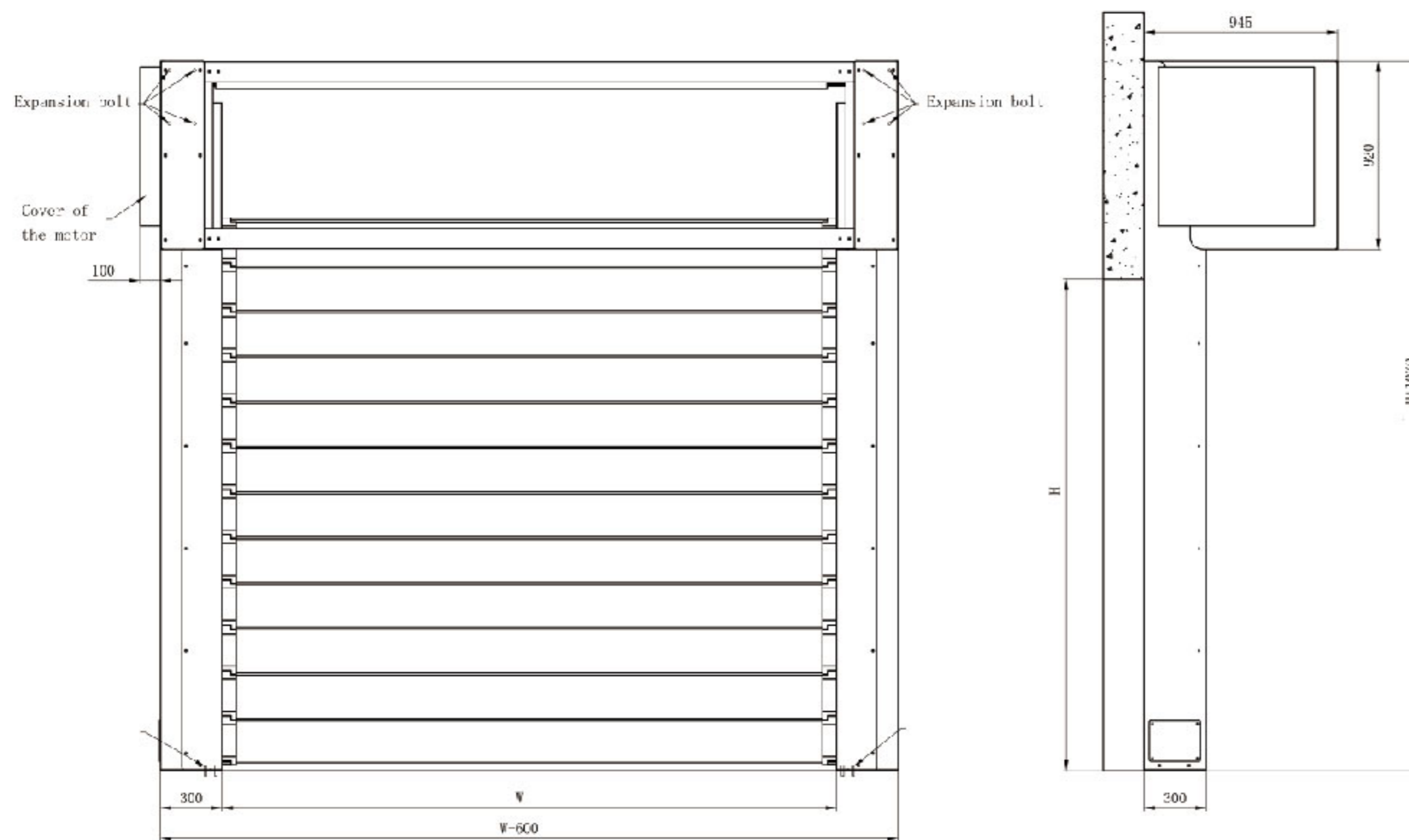
<b>External door/internal door</b>		
<b>Size range</b>		
Max. width		6500 mm
Max. height		6000 mm
<b>Speed</b>		
With standard FU control AS 500 FU E		
Max. opening speed		2.0 m/sec.
Max. closing speed		0.5 m/sec.
<b>Emergency opening and emergency closing</b>		
Hand chain with spring compensation support		
<b>Door leaf</b>		
Material	Steel sandwich construction, PU-foamed	
	Optionally glazing	
Depth		40 mm
Section height		185 mm
Hinge connections from approx. 3500 mm door width		
<b>Resistance to wind load</b>		Class 4 ~ 130 km/h
<b>Acoustic insulation</b>		R = 22 dB
<b>Thermal insulation</b>		UD = 1.95 W/( m² K )For 25 m² door size

## Motor and control box Of rapid door

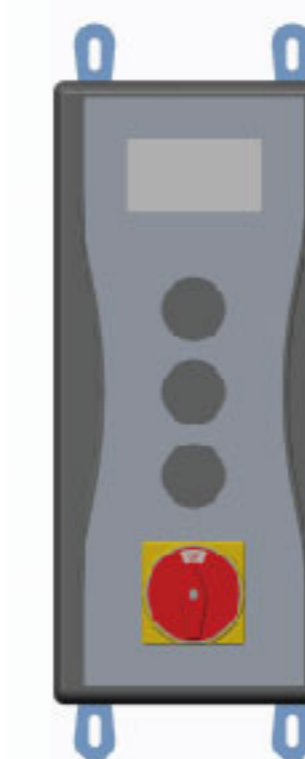
### Motor

Optimal efficiency in a compact design for high-speed doors: With integrated frequency converter, the operator system has what it takes to meet customer requirements in the rapidly growing market for PVC high-speed doors. With integrated safety catch or without this system is suitable for a wide range of applications. The speed operators can be manufactured precisely to your requirements with a range of different hollow shafts in  $\varnothing 25.4$  or  $\varnothing 30$  mm.

Of course, other rpms and tractive powers are also available.



### Frequency converter



EVERBRIGHT frequency converters are always permanently mounted on the operator and precisely adjusted for the operator.

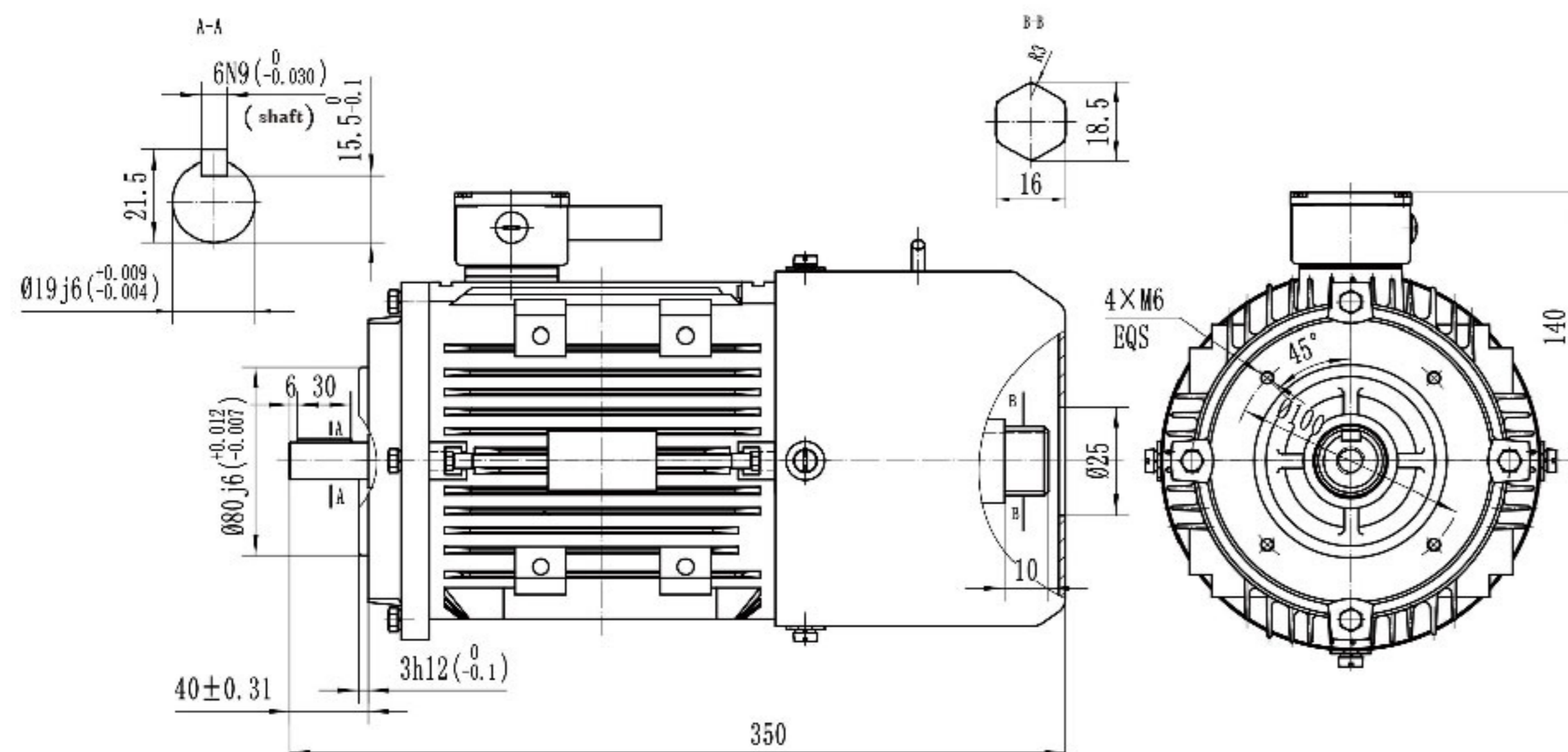
EVERBRIGHT has been able to avoid the use of complex, large and expensive extruded sections for operators up to 1.1 kW.

This saves space and simplifies installation of the operator. EVERBRIGHT frequency converters can be adjusted and programmed with the plain-text display. In addition, customers can set up to 10 preset frequency converter profiles in the controller.



## Technical data

Three-phase operator	EJ080M2-4	EJ080M2-4
Output torque	38Nm	50Nm
Safety catch ***		
Output speed	140rpm	93rpm
Motor performance	0.75	0.75
Operating Voltage	3~230/400V	3~230/400V
Frequency	50Hz	50Hz
Rated current	4.01/2.32A	4.01/2.32A
Motor duty cycle DC		
Limit switch range	32/64	32/64
IP code	IP54	IP54
Insulation class	F	F
Control Voltage	24V	24V
Temperature range **	-30°C to 65	-30°C to 65
Continuous sound pressure level	<65	<65
Hollow shaft	25MM	25MM
Supplies fuse	10 A slow-blow	10 A slow-blow
Supplies feed		
Weight (approx.)	16.7KG	16.7KG
* operatal		
** <5°C with electric heating on request		
*** Inspection number : 776504-5/083/1		



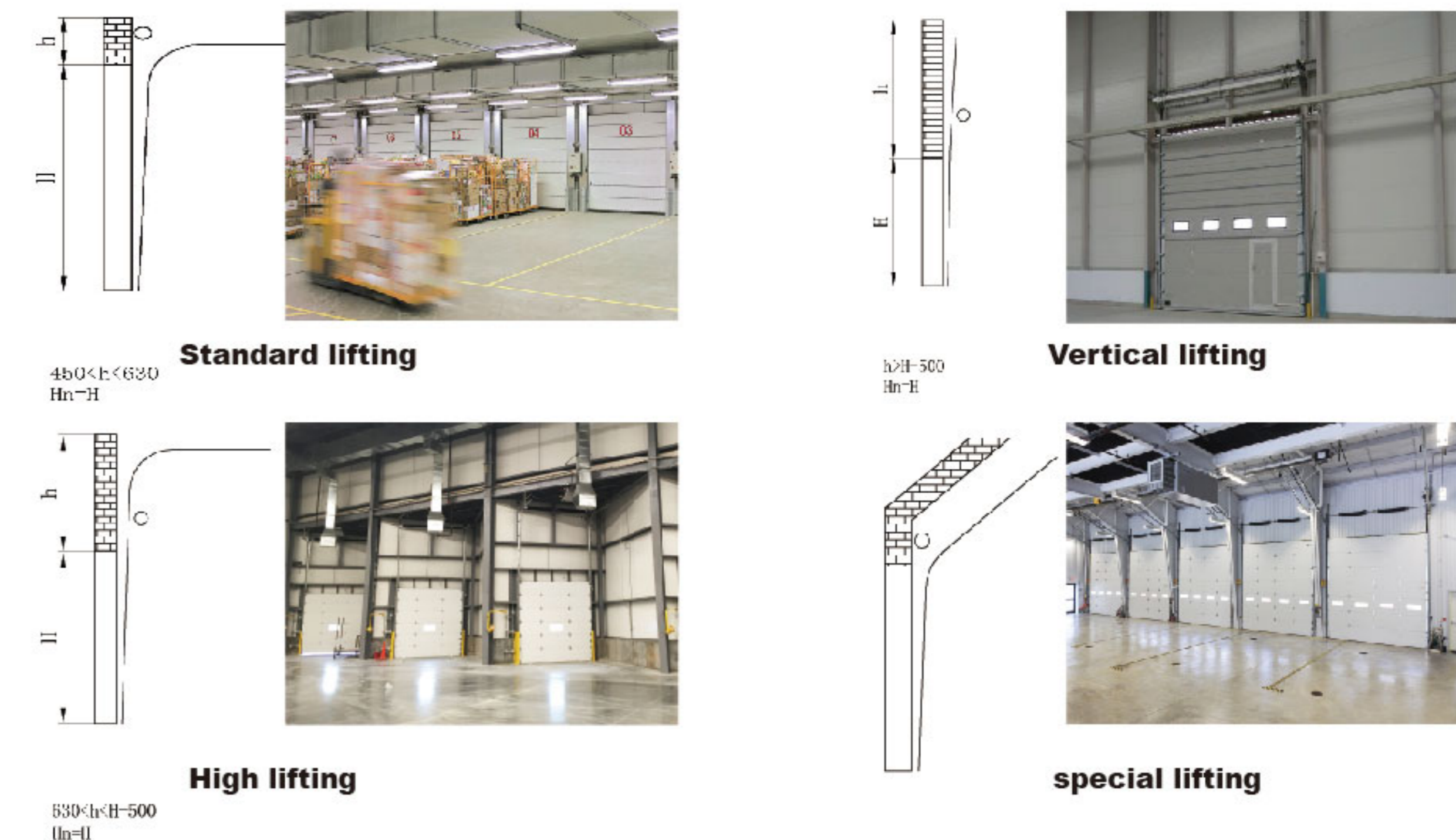
## Industrial lifting doors

These space-saving door systems can be adapted to different industrial facilities using various track applications. This gives you planning reliability when building a new facility or renovating.

Everbright offers you customized solutions for every application: from doors with wicket doors with trip-free thresholds as a convenient passage to fully glazed doors with scratch-resistant glazing.



## FPU industrial door



## Pu panel

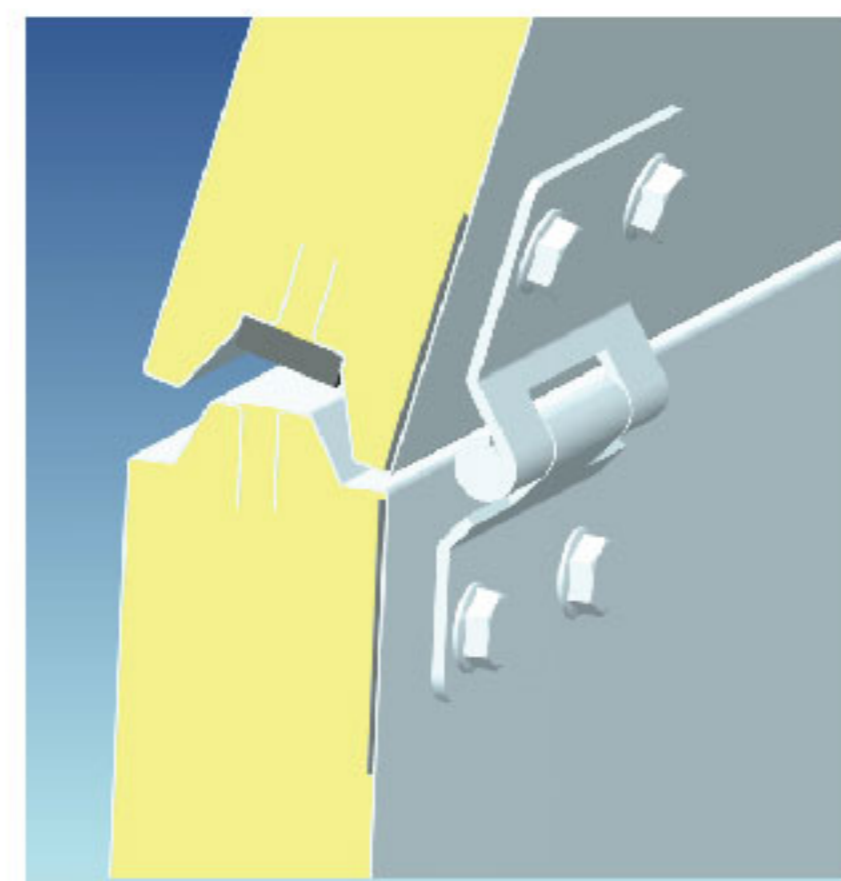
The thickness is 40/50mm, which makes the door panel have excellent mechanical properties, the size is stable, even under low temperature the panels' strength will not change; the panels' long-term heat resistance temperatures are between  $-50^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ .

There are internal steel reinforce steel plate (1.0mm thick, and 16mm/40mm width) pre-laid along the panel at the joints, so the hinges could be fastened strongly on the panel to ensure the long-time service life. And also because of that the panel could be cut at any size to assemble doors with different sizes.

The external skins of our panel are PPGI steel which resist rust, and the stability of their painting colors meeting 25-30 years using life.



40mm finger safe door panel



50mm non finger safe door panel

## Technical data

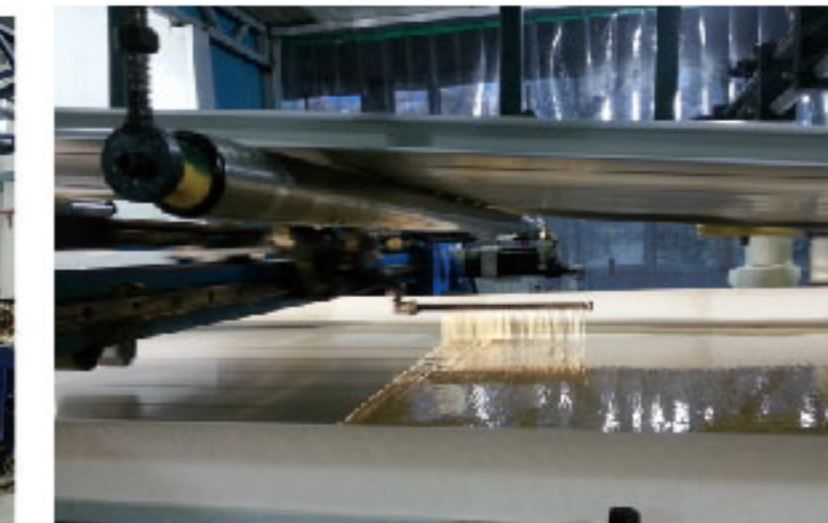
structure	Pinch resistant	Non pinch resistant
Panel's height	435mm 485mm 535mm	530mm 610mm
panel's thickness	40mm	50mm
material	external/internal skins	PPGI steel made of hot-dipped galvanized steel
	insulation	Polyurethane foam (Free of Freon)
Surface textures	front side	Wood rain
	back side	orange peel
patterns	front side	stripe, H-line, micro-wave
	back side	stripe

## Process flow of the garage door panel

There are eight steps to make the garage door panel by the automatic continuous production line. They are uncoiling – film laminating – roll forming – PU foaming and solidifying – fly cutting – cooling – stacking and wrap packing. After these eight steps every panel will be checked by the QC staff, then high quality panels could be loaded and sent out.



Roll forming



PU foaming



Pu solidifying



Fly cutting



Panel Cooling



Wrapping package

## Glazed aluminum garage door with steel bottom section



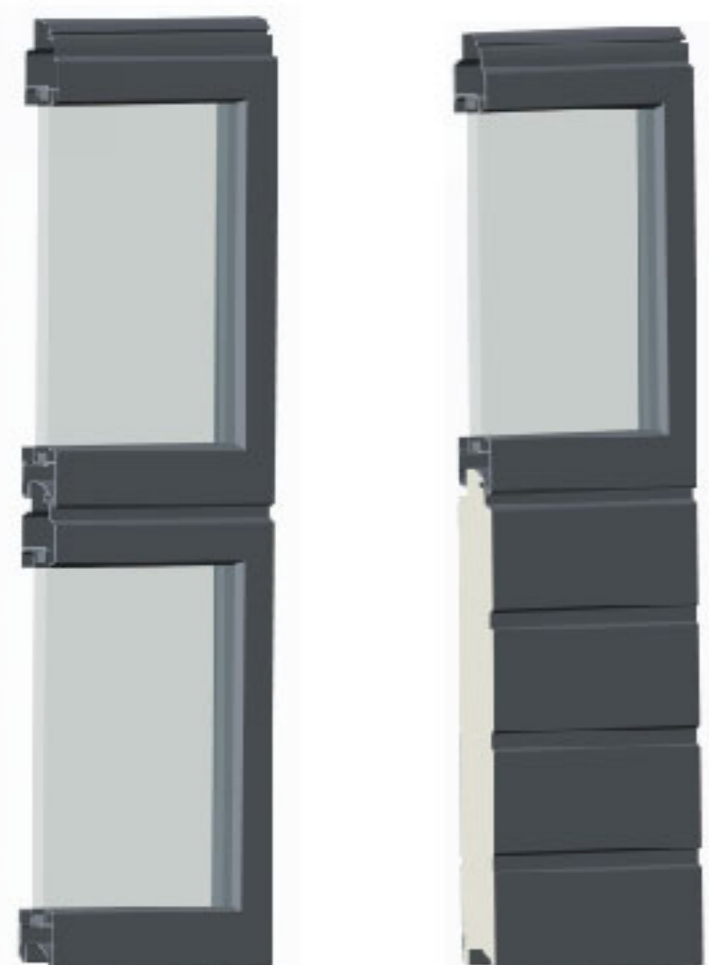
### Stable and good daylighting performance

Thanks to the perfect combination of robust bottom section and large glazing, the door is especially stable and lets a lot of light into the building.

The robust steel section is easy to service and repair if damaged.

### Flexible options

The PU bottom section is particularly robust and offers good thermal insulation. You could choose between wood grain stripe pattern and smooth microwave pattern, both without a surcharge.

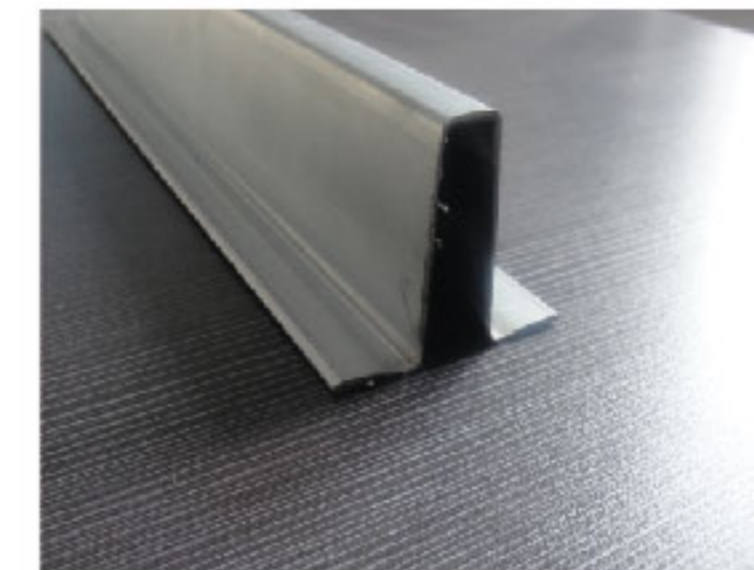


## Hardware of the industrial and commercial door



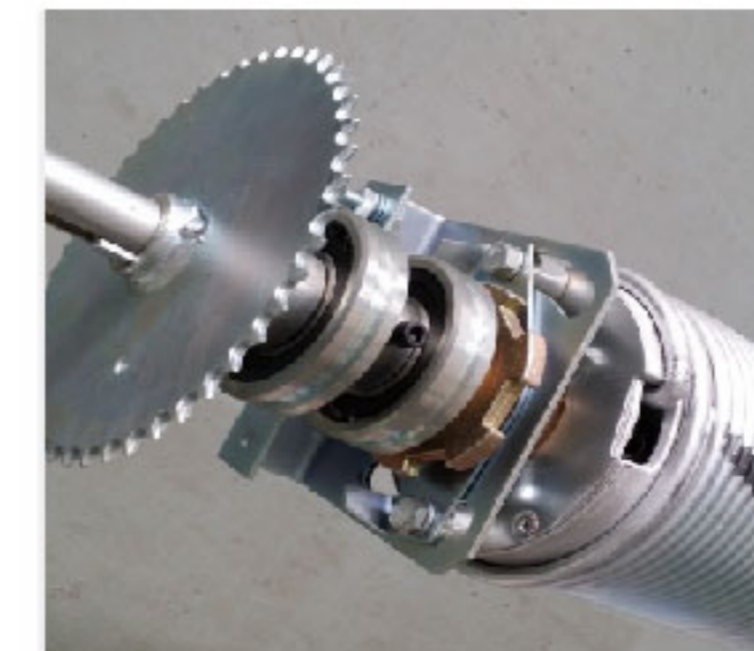
### 1. Quiet door travel

Hinged roller holders made of galvanized steel with plastic rollers on ball bearings ensure precise, quiet door travel.



### 2. Wind strut

For the door over 5000 meter wide, the wind strut will be installed on the inside surface of the door to make it strong enough to resist the wind.



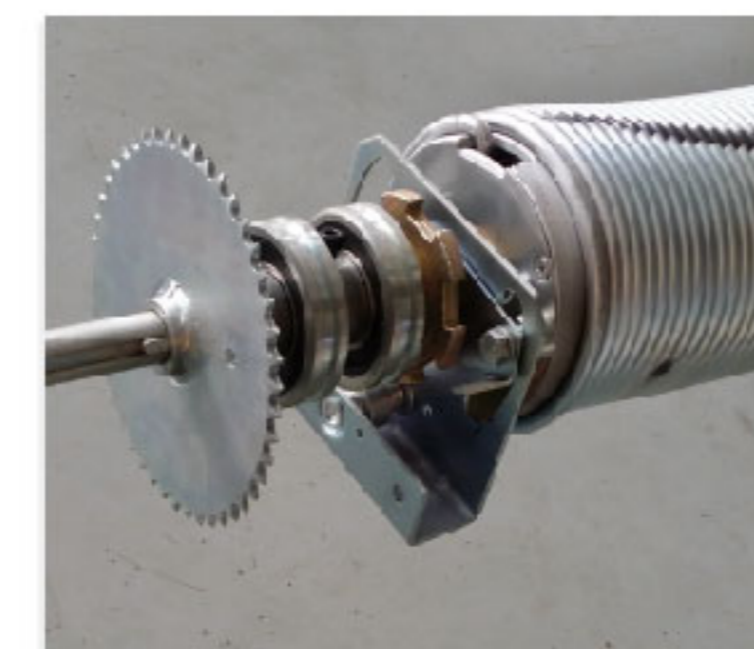
### 3. Delicate torsion spring balance system

The specification of the spring is calculated according to the weight of the door, which will offer an excellent balance. The door even could be operated manually.



### 4. Cable break device

In case the cable is broken, the safety device will act immediately to hold the track and prevent the door to fall down to protect the passenger or track who is passing the door.



### 5. Spring break device

In case the spring is broken, the safety device will act immediately to hold the shaft and prevent the door to fall down to protect the passenger or track who is passing the door.





#### Photo beam protector

When the invisible beam is broken by passengers, the closing door will reverse back to the opening position to issue the safety of the passengers.



#### Airbag

When the closing touches the passengers or the others, the airbag will send a signal to the motor, then the motor will take the door back to opening position immediately.

## Motor and control box Of Industrial lifting door

Industrial lifting door motors from Everbright, provide an integrated door system that comes with our guarantee for reliable performance when you need it most — every day. Built with convenience in mind, our automatic door operators also make it safer and easier to perform daily job duties so you can improve efficiency and close the door on your competition.

### Industrial door motor with mechanical limitation journey

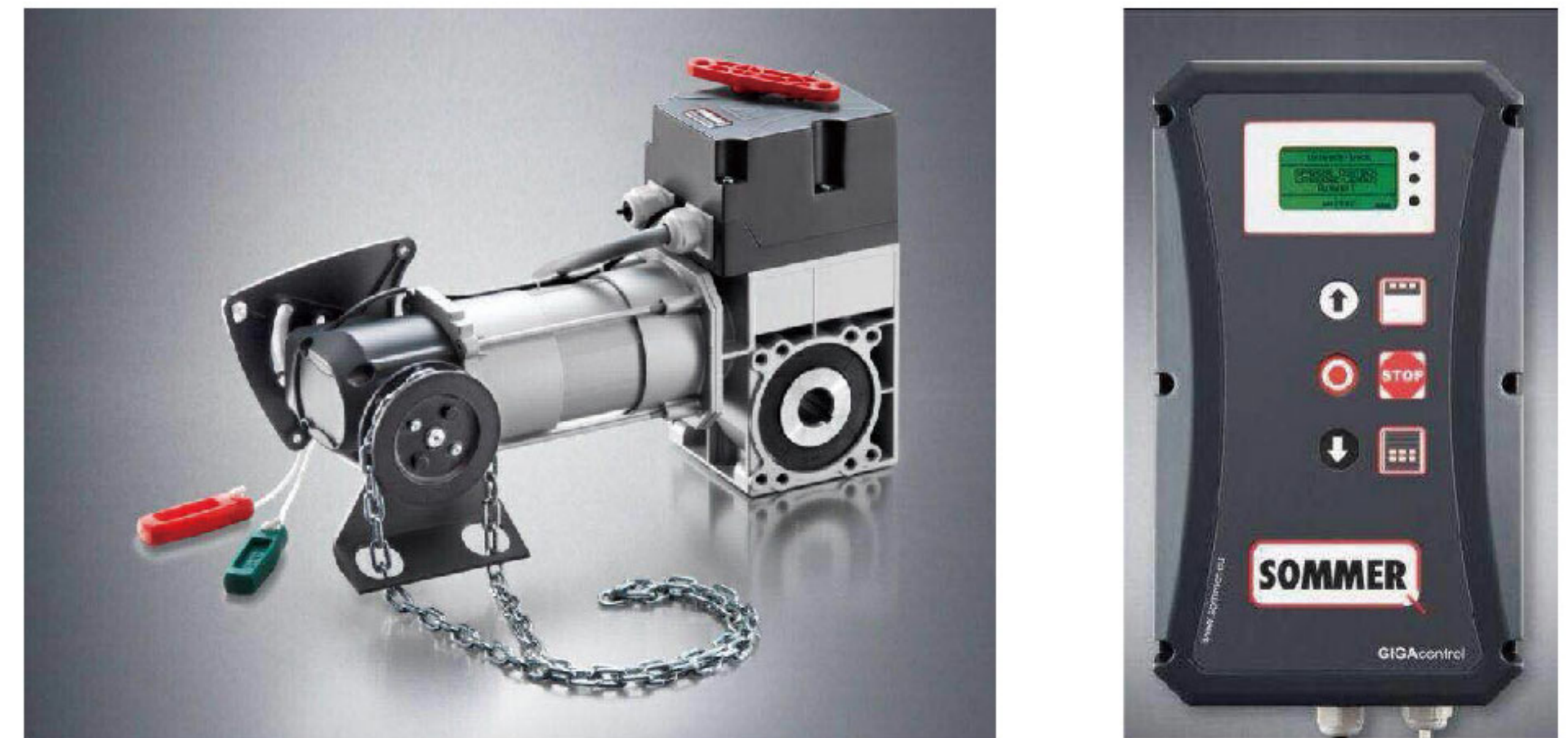


- Self-locking operator with built-in limit switches
  - 220V single-phase or 380V three-phase models
  - Can be installed on shafts Ø25 mm
- Models with manual unlocking device by cable or device for emergency manual maneuver by chain

#### Technical data

	IDO50-2	IDO70-2	IDO60S-2	IDO100S-2	IDO100S-3
Input voltage	AC220V	AC220V	AC380V	AC380V	Three phases 220V
Rated power	300W	370W	300W	450W	450W
Torque	35N.m	60N.m	60N.m	100N.m	60N.m
Max.lifting SQM	20 m <sup>2</sup>	25 m <sup>2</sup>	35 m <sup>2</sup>	50 m <sup>2</sup>	25 m <sup>2</sup>

### Industrial door motor with electrical limitation journey



Our GIGAsedo was specially developed for doors with a low requirements specification. Smooth operation, power and durability are the hallmarks of this operator.

The standard electronic limit switch system can be set using the controller integrated into the operator by means of any conventional triplex sensing device. The innovative controlling technology means no logic is required in the sensing device. The door can either be moved by a dead man's switch or by impulse operation/AUF.

The one-piece gear housing made of die-cast aluminum is fitted with special bronze worm wheels. The life-long lubrication is achieved by using a specially selected lubricant. The electric motor ensures long life and a low vibration and noise operation in all assembly positions.

Our operators can be manufactured with hollow shafts of 25.4 or 31.75 mm depending on your requirements.

GIGAsedo operators are available in versions with an emergency hand crank (H), an emergency hand chain operation (C) or an emergency release (D).

Optionally, the operators of the GIGAsedo range can also be supplied with an additional service release.

#### Technical data

Three-phase operation	24.10x	18.14x
Output torque	100 Nm	140 Nm
Output speed	24 min <sup>-1</sup>	18 min <sup>-1</sup>
Motor performance	0.37 kW	0.55 kW
Operating voltage	3 x 230/400 V	3 x 230/400 V
Frequency	50 Hz	50 Hz
Control voltage	24 V	24 V
Motor duty cycle	S3-60 %	S3-60 %
Building fuse	10 Amps (inert)	10 Amps (inert)
Protection type	IP54	IP54
Weight (approx.)	13 kg	14 kg
Limit switch range	14	14

## Folding and sliding industrial door

Folding and sliding industrial doors provide the perfect solution when space inside is limited either for side room or headroom. Folding sliding doors are generally constructed from steel or aluminium sections with optional glazing sections providing light or display of products as in vehicle sales and the like.



Available as a single stack to one side or bi-folding to both sides of larger openings they will provide an excellent solution for either effortless manual operation or electric operation on larger sizes. Minimal maintenance is also a positive reason for specifying folding doors with very few actual moving parts, even less of course with a one piece sliding door set.

The industrial folding doors can be installed in especially large openings measuring up to 14 m width and 7 m height.

we can offer 3 to 12 door leaves, in accordance with the operative requirements. This version can be individually adapted to the customer's needs.

### Folding and Sliding Door solutions for any application

The FPU double-skinned folding doors filled with PUR rigid foam are ideal for use in workshops and halls that are heated or require acoustic insulation.

The door version with numerous infill variations and extensive glazing options are particularly suited for unheated buildings.

They can also be combined with matching aluminum doors. Featuring profiles with thermal breaks and exceptional thermal insulation values make these doors a good choice for showrooms and the like. Every door can be equipped with individual glazing and infill options. An extensive folding door programme is rounded out with wicket doors with and without thresholds and divided traffic leaves.



Whether the door is sliding or folding the glazing options are endless with single or double glazed units in sizes ranging from a round port hole to fully glazed sections in extruded aluminium.

### Low risk of collision damage

Door leaves parked open on the sides substantially reduce the risk of collisions in a working environment. The leaves are in the field of vision of the lorry driver. Fitting the door with door leaves that open 180° and sufficient space next to the door also result in a maximum drive through passage width and height.

### Low-maintenance construction

The Samson industrial folding doors have been designed to have a long service life and operate smoothly. This reliable construction is based on just a few individual hard wearing quality components. As a result requirements for maintenance and care are very low and the doors only entail minor consequential costs over time.

### Standard and protection

Safety takes top priority when it comes to Everbright's industrial folding doors. Finger trap protection devices made of high-quality EPDM multi-chamber profiles are fitted to all vertical closing edges, making the folding industrial door safe from the inside and outside.

## Technical data

Size range	Width of opening / wall up to 8200 mm	CE mark	EN 13241-1
	Height up to 6000 mm	Wind resistance class	Class 3
Track applications	On the wall, opening inwards or outwards	Acoustic insulation	DIN EN 717-1 R = 28 dB
	In the opening, opening inwards or outwards	Fire behavior (DIN 4102)	Leaf: Material class B (self-extinguishing)
Space requirement for folding	Between 150 mm (one leaf) and 350 mm (three leaves) with 90° leaves	Insulation	Foam density 43 – 45 kg/m <sup>3</sup>
Door transmission of heat	According to standard 13241-1U = 1.7 W/ (m <sup>2</sup> -K)		

## HVLS Industrial fan



If you're on a budget but still want to make your staff satisfy with you .  
 HVLS from Everbright is the fan for you.  
 Cost savings at every turn

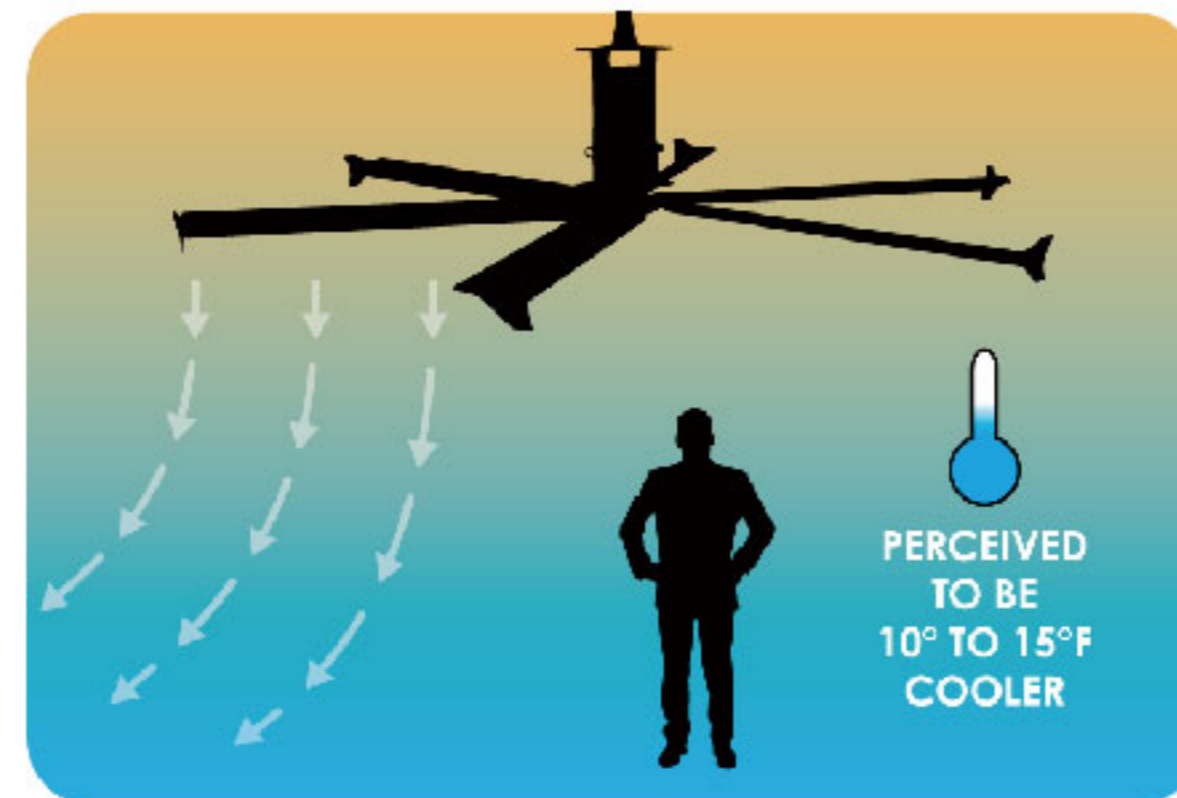
The high volume, low speed (HVLS) fan is designed to circulate the air in your facility more efficiently and effectively.

Rotating at an optimized low speed, HVLS fan moves the most air over the largest area at the lowest cost.

This allows for maximum cooling and "destratification" (the process of keeping the temperature consistent from floor to ceiling), reducing a facility's energy consumption by up to thirty percent.

Consult Rite-Hite for specific fan applications including

- |                      |                                |
|----------------------|--------------------------------|
| Distribution Centers | Manufacturing Facilities       |
| Warehouses           | Athletic Facilities            |
| Airports             | Convention Centers             |
| Health Clubs         | Schools/Universities           |
| Retail               | Stadiums                       |
| Arenas               | Auto Dealers                   |
| Lobbies/Atriums      | Libraries                      |
| Religious Facilities | Hotels                         |
| Theaters             | Bars/Restaurants               |
| Hospitals            | Hundreds of Other Applications |



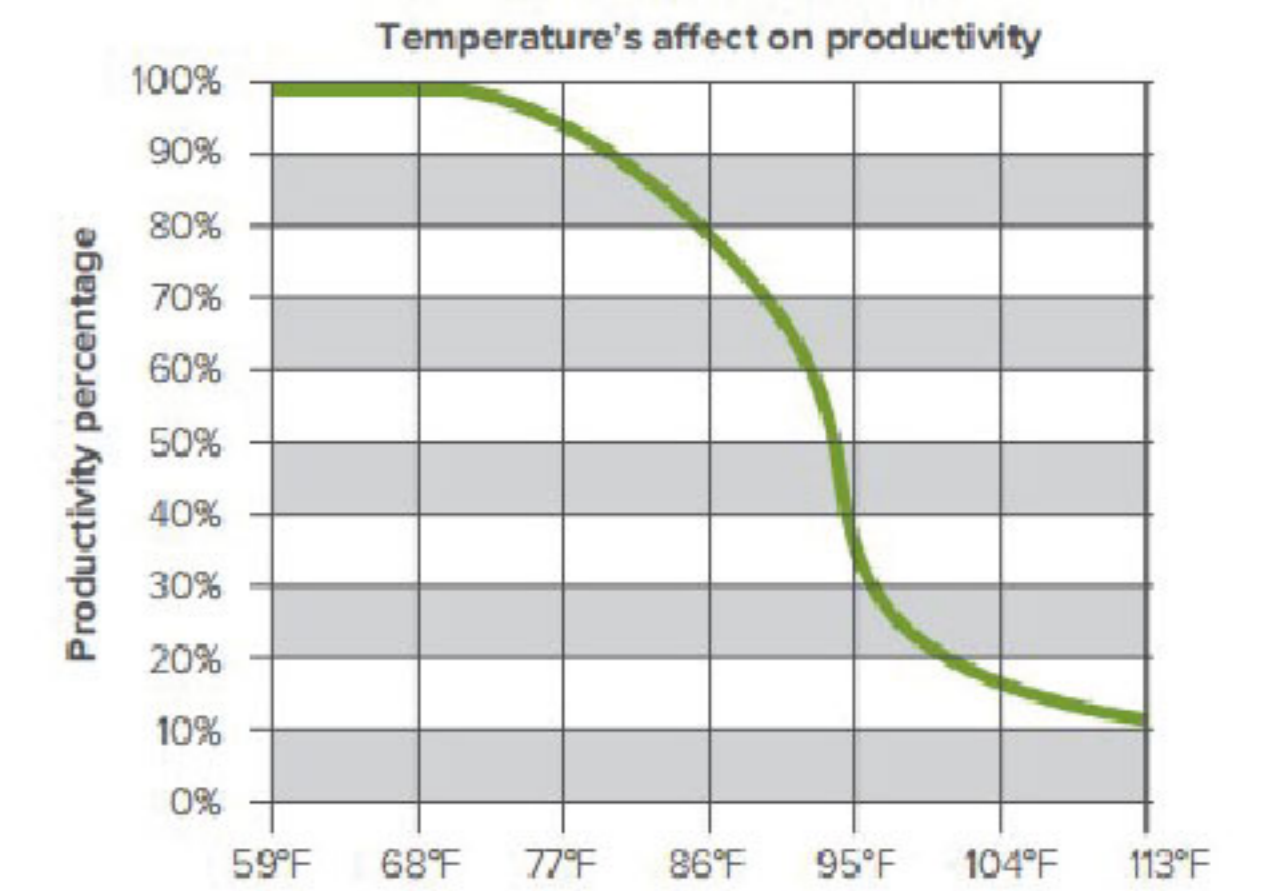
## Benefits Of High Volume Low Speed Ceiling Fans

### Performance

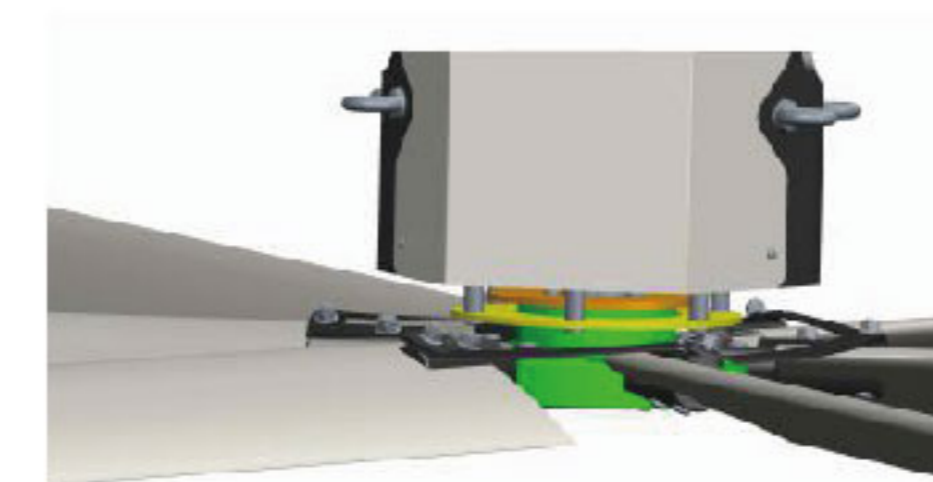
Rite-Hite's fans provide the greatest airflow of all HVLS fans on the market.

Everbright's fans help to improve productivity by reducing effective temperatures.

The upward tilt of the blades creates uniform airflow while the blade taper eliminates pockets of stagnant air under the center of the fan for comfortable climate throughout the space.



Source: NASA Report CR-1205-1 "A compendium of Human Responses to the Aerospace Environment"



### Construction

Each Everbright HVLS fan features an extruded, precision-milled aluminum hub and bolt.

Vibration-dampening material is incorporated to reduce stress to the hub by fifty to seventy-five percent.

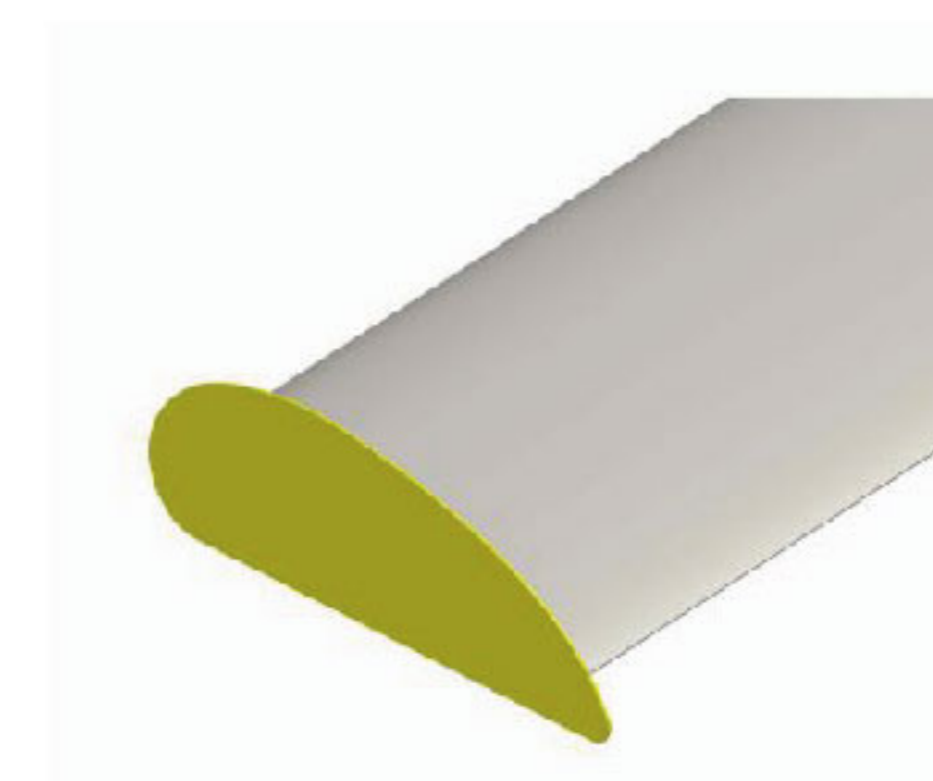
The blade and hub are rotationally balanced for smooth, efficient performance.



### Safety

All fans feature a three-way motor-to-hub safety connection, as well as stabilizing cables, a beam clamp and motor housing.

A unique safety ring is provided for back-up security for the motor to hub connection. Each hub "blade arm" is connected to the safety ring.



### Design

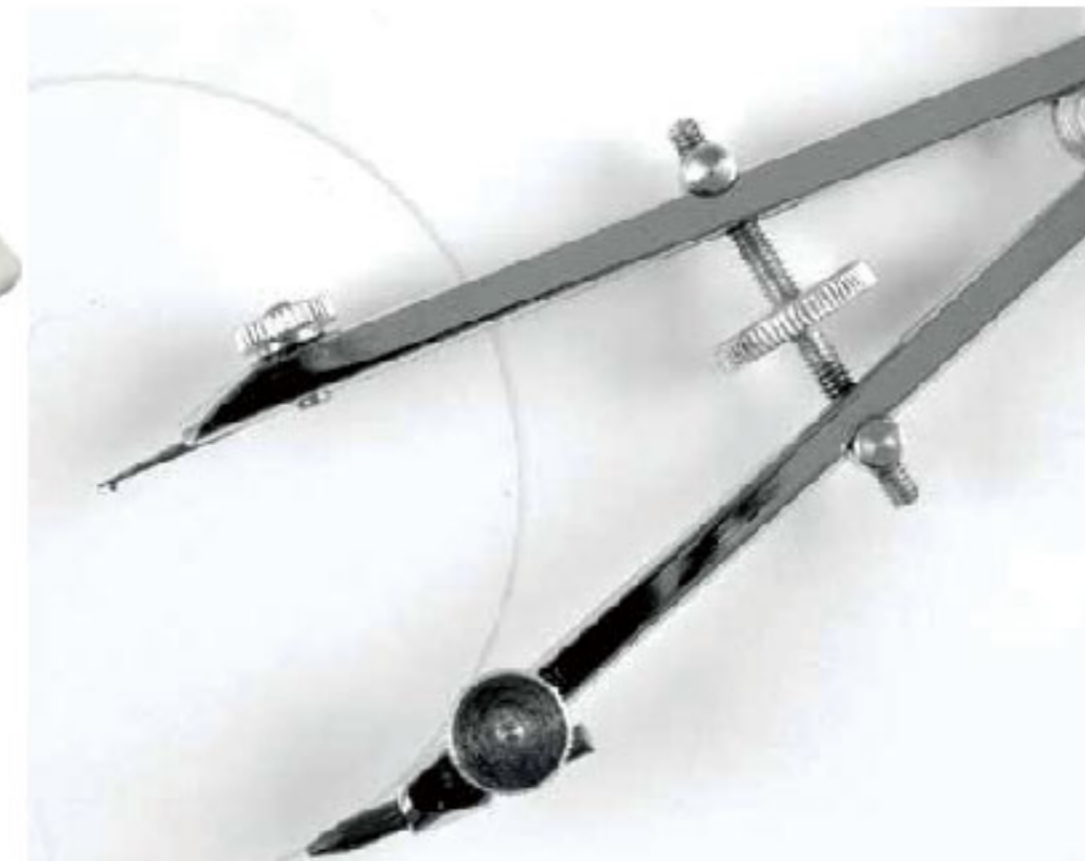
Everbright's patent aluminum blade incorporates tilt, taper and twist to produce consistent airflow across the entire length of the blade.

Everbright fans are available in 8-foot to 24-foot diameters.

Custom colors and logos are available.

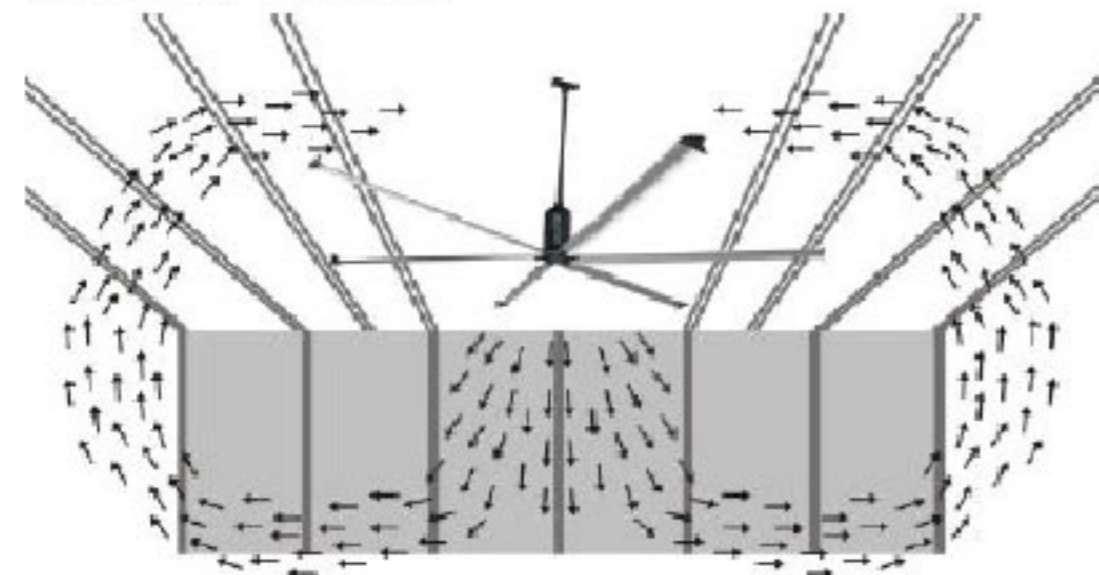
### Parameter

Diameters	8', 12', 16', 20', 24'
Blades	Aluminum
Blade Finish	Mill-finish standard, custom colors optional 4
# of Blades	4
Motor	2.0 hp
Voltages	230, 400, 460, 575
Phase	1 or 3
Motor FLA*	3.0 @ 460V
Watts	100 – 1700
Watts Frequency	50 or 60 Hz
Coverage	Up to 22,000 sq ft, 85' from the fan's center in all directions
Decibels	Less than 63 dBA depending on fan speed (measured 20' below and 20' from the fan's center)
Air Speed	Up to 7 mph at full speed
Controls	Variable speed
Mounting Heights	15' to 80' from finished floor to bottom of blade
Weight	300 lbs

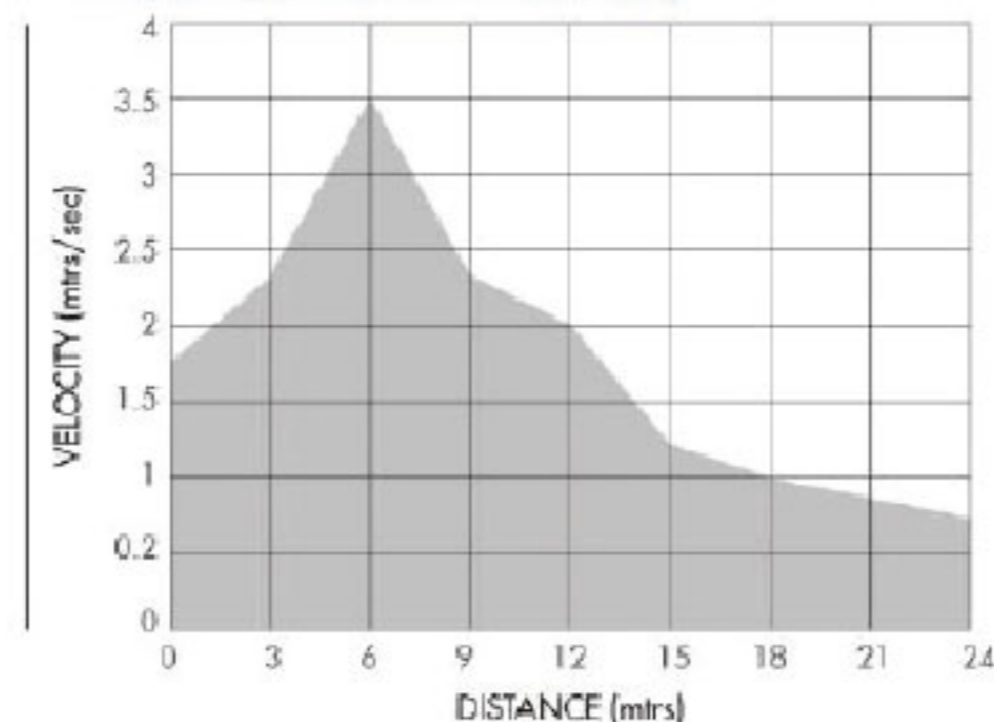


#### HVLS Fans Concept

##### Air Flow Pattern

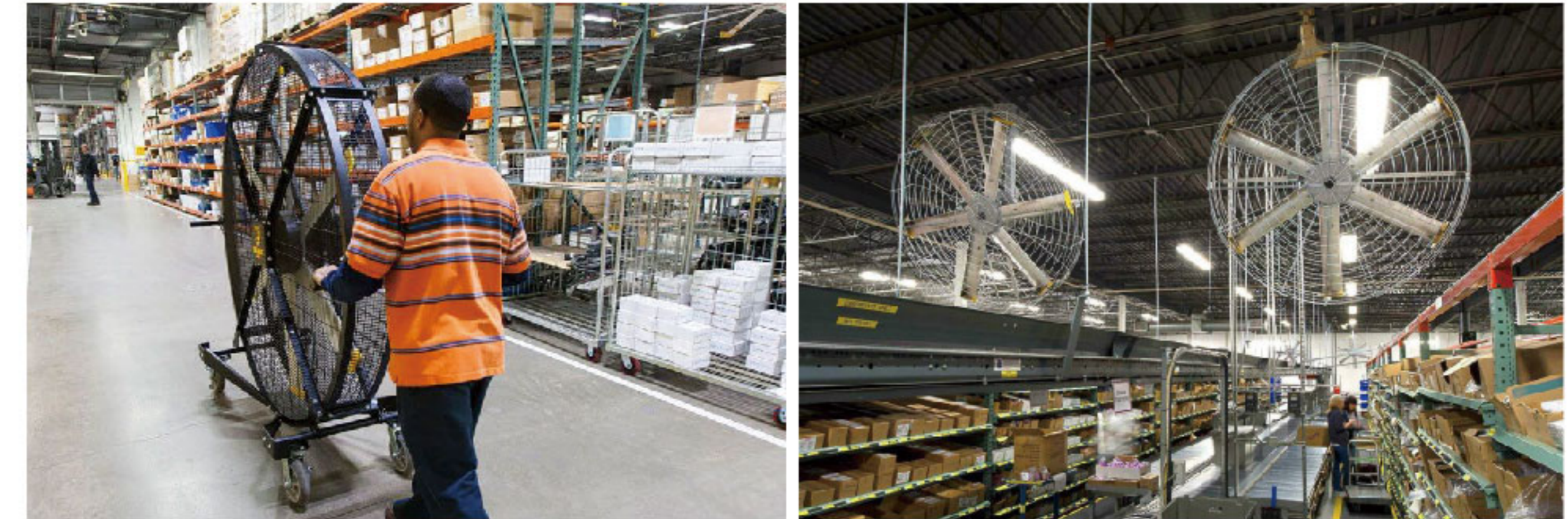


#### Distance vs Air Velocity



Following reading are taken for 24' dia HVLS Fans and approx value

## High-Volume/High-Speed (HVHS) Fan



#### Performance

Improve productivity by reducing effective temperatures

HVHS fans are commonly used to spot cool, warehouses, assembly lines, loading docks, machine shops, bakeries, laundries, gymnasiums, and auto repair facilities.

#### Construction

Available as Portable Floor Fan, Portable Floor Fan with 90° Tilt, and Ceiling Column Mount with 90° Tilt and 360° Swivel.

Durable 18-22 gauge steel barrel, with polyester powder coat bronze finish

Diameters from 36" to 48".

Also available in 60" diameter.

Four red blades engineered with an airfoil design featuring tilt, taper, and twist.

Electrical plug-in design, with 10' grounded 3 conductor cord.

115 volt, 60 hertz, single phase, single or two speed motor.

Switches, handles, and knobs all conveniently located for easy positioning.

Supportive, heavy gauge steel tube.

Distance from Fan	Air Speed (mph)	36"			42"				48"	60"
		Single	Two		Single	Two		Single	Single	
			High	Low		High	Low			
		0.5HP	0.5HP		0.5HP	0.75HP	0.5HP		1.0HP	1.5HP
30'-0"	Zone 1	3.6	3.6	1.4	4.1	5.3	4.1	2.0	5.8	7.7
50'-0"	Zone 2	2.8	2.8	NM	3.0	3.3	3.0	11	3.6	5.4
70'-0"	Zone 3	2.3	2.3	NM	2.3	2.5	2.3	NM	3.0	4.4
90'-0"	Zone 4	2.0	2.0	NM	2.0	2.1	2.0	NM	2.4	3.3