

Loading Bay equipment



Quality since 1967 Reliable Doors & Docks

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EXPORTING OVER 50 COUNTRIES SINCE 1967

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The passion for the work well done, is the key of the Angel Mir growth.

For 50 years, we have manufactured industrial doors and solutions for logistics. We are present in more than 50 countries, developing doors for specific applications that are a reference in the international market.

Our exclusive and original patented systems are originated in our commitment to meet the needs of our customers to the smallest detail. Our equipment is designed to solve functional, safety, technical and aesthetic circumstances.

At Angel Mir, our range of equipment is unique because our goal is customer satisfaction; therefore, we advise and design each product according to the needs of each application and we take care of its installation. We also offer an after-sales service for maintenance and repair throughout the product's lifetime.

Ángel Mir President







Angel Mir factories with 42.000 m²

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LOADING BAYS

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Reliable Doors & Docks

Energy efficiency

Some products of **Angel Mir**^{*} have been designed to provide significant energy efficiency and reducing consumption of resources.

With our experience, we support and help our customers to carry out the projects with maximum energy savings through the most appropriate choice of our products. Also, depending on the sector, we recommend the most durable and suitable equipment for each application.

Raw Materials

For almost 50 years, **Angel Mir**[•] has always counted on local and European suppliers that provide the best raw materials, in order to achieve the best performance of its loading bay equipment and durability.

ISOPERFECT DOCK DOORS

SYSTEM

DOCK SHELTERS

SAFETY SYSTEMS

OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES

DOCK LEVELLERS

Angel Mir[®] loading dock levellers are the perfect bridge linking your warehouse and the loading vehicle. Loading and unloading operations are carried out more smoothly and risks to operators and goods are considerably reduced. Installation is simple and fast. The operation is very intuitive and easy to learn. In order to adapt it to any installation, it is manufactured in different standard sizes. EPOXY-type finish paint.

The structure is designed to withstand higher-than-usual point loads and admit up to 10 centimetres of side unevenness of the vehicle. The top plate has a non-slip chequered surface, including the lip. The front part of the lip is folded and bevelled to allow better adjustment of the vehicle on the ground. The hydraulic units are adapted to the needs of each model.

Characteristics

DOCK

LEVELLERS

- Structures designed for a standard load of 6 tn, with the option of other higher loads.
- It admits a warp of ±100 mm to adapt to unevennesses caused during use.
- Upper plate of the sheet with a 6-8 mm non-slip chequered surface.

- Load-bearing beams or high-strength sheet metal profiles.
- Lip plate with a 13-15 mm thick non-slip chequered surface.
- Two or three independent cylinders: one or two main cylinders for lifting the platform.
- Compact motor-pump equipment.
- Three-phase motor to 220-380 V 1.5 kv/1 kv.
- Pump for a maximum working pressure of 200 bar.
- Hydraulic, sequential logic block, which allows the control of all movements.
- Safety valves and speed regulation.

Safety

- Blocking solenoid valve in the event of a power failure.
- Bar for maintenance work.
- Parachute on the cylinders in case of hose breakage.
- Lateral foot protection.
- Step-marking stripes.

Permitted gradients

- In compliance with EN 1398 it is not permitted to use loading ramps outside the permitted limit for slopes of \pm 12.5% (approx. \pm 7°).

Types of **nonslip checkered surface**

Painted steel with EPOXI. RAL 5010 powder resin (blue)









HIDRA Model

Automatic devices at the service of productivity.



PVC air seals on both sides of platform.

TELESCO Model

Ideal for refrigerated installations and side loading of vehicles.



PVC air seals on both sides of platform.

Control boxes **HIDRA** MODEL







OV RS300K Electronic for ramp with auto return.



RS200L+CS250 Electromechanical combi for ramp and door.



RS300K+CS250 Electronic combi for ramp and door with auto return.



RS300V Electronic for ramp with auto return.

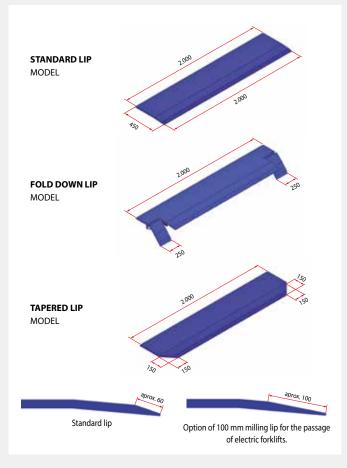
Control boxes **TELESCO** MODEL

RS300V+CS250 Electronic combi For ramp and door with telescopic auto return.

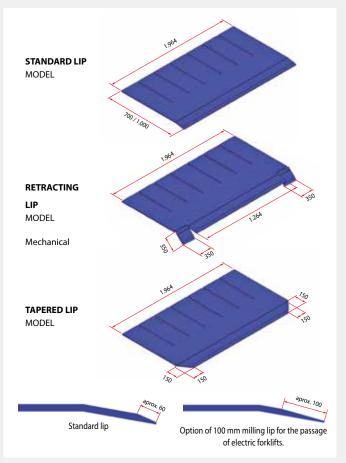
Model	Type of Ramp	Manned - open	Manned - return	Manned exit-enter chock	Automatic Return	Programmable	Door action	Impulsion door close	Overload protection	Phase inversion protection	Work temperature	Protection index	Accessory feed	Ramp feed from door	Interior traffic light	220V output / programmable
OV RS200L	HIDRA	Yes	Yes	No	No	No	Yes	No	Yes	No	de -10 +45	IP65	No	No	No	No
OV RS300K	HIDRA	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	de -10 +45	IP65	Yes	Yes	Yes	Yes
OV RS300V	TELESCO	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	de -10 +45	IP65	Yes	Yes	Yes	Yes

Mixed Panels: Panel for sectional door and panel for ramp with the same characteristics

Types of lip for HIDRA dock leveler



Types of lip for **TELESCO** dock leveler



		D	C			K			
L	Ξ	V	-	L	L	Ξ	R	S	

ISOPERFECT SYSTEM DOCK

DOORS

DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

HIDRA M Model

This model is equipped with a central unit with hydraulic logic that allows the automatic control of all movements. 450 mm folding lip folded and bevelled for greater adjustment to the vehicle. Load capacity of 6 or 10 Tn.

Optional:

- 500 mm lip. (Ideal for containers).
- Load capacity of 10 tonnes, or other load capacities.

2.000

2.000

2.000

2.000

2.000

2.000

2.000

2.000

2.000

- Hydra ME model with static load capacity of up to 15 tonnes.
- Finished in hot-dip galvanized or mixed stainless steel (stainless-galvanized.)



*PVC sealing joints on both sides of the platform.



Lip axles and hinges: electrolytic bichromate to prevent corrosion. Selfcleaning hinges (Axle Ø29 mm.)

MODEL

HIDRA 20.21

HIDRA 20.23

HIDRA 20.28

HIDRA 20.31

HIDRA 20.33

HIDRA 20.36

HIDRA 20.38

HIDRA 20.41

HIDRA 20.26 (STD)

Load 6 and 10 Tn

Load 6 Tn



Galvanized side plates for anti-trapping protection. Yellow-Black side stripes for signalling.

2.670

2.870

3.170

3.370

3.670

3.870

4.170

4.370

4.670

2.300

2.500

2.800

3.000

3.300

3.500

3.800

4.000

4.300

2.094

2.294

2.594

2.794

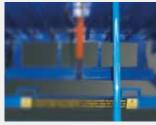
3.094

3.294

3.594

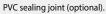
3.794

4.094



Locking bar for maintenance. Allows safe work under the plate.

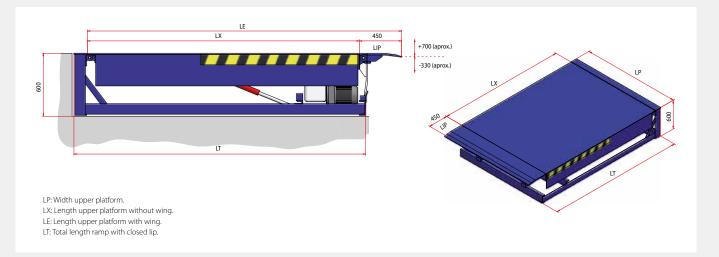






The PVC joint can be cut into different sizes.

The measurements for the HYDRA 225 ramps are the same as those in the table other than that the LP (platform width) is 2.250 mm instead of 2.000 mm.



	DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS
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HIDRA NR Model

The new Hidra NR dock leveller has more standardized sizes since its manufacturing is automated. Consequently, it is a model much cheaper. Standard static load capacity up of 6 Tn.



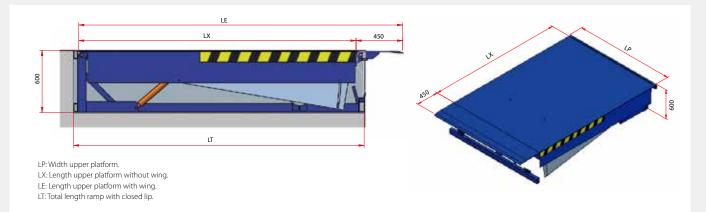
- New 450mm extended lip for a better connection truck-dock leveler.
- · IPN profile beams to make sure the platform capacity.
- Two cylinders to have a better stability.
- $\cdot\,$ Frontal hydraulic group for an easier and safer maintenance.
- \cdot Self-cleaning hinges.
- $\cdot\,$ Polyester powder coated in High temperatures for a better protection.
- · Easier and faster assembly
- $\cdot\,$ Facilitates maintenance with the control unit front

MODEL	LP	LX	LE	ן נד
HIDRA N 18.20 *	1.840	2.060	2.560	2.190
HIDRA N 20.20	2.000	1.940	2.440	2.070
HIDRA N 20.21	2.000	2.180	2.680	2.310

MODEL	LP	LX	LE	LT
HIDRA N 20.23	2.000	2.380	2.880	2.510
HIDRA N 20.26	2.000	2.680	3.180	2.810
HIDRA N 20.28	2.000	2.880	3.380	3.010

* HIDRA N 18.20 height = 500 mm.

The measurements for the ramp HIDRA NR 225 are the same as those shown in the table except for the LP (width platform) which is 2.250 instead of 2.000.



Special finishes for refrigerated, food or chemical industries



DOCK LEVELLERS ISOPERFECT SYSTEM DOCK

DOORS

DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

TELESCO Model

The Telesco dock leveller from **Angel Mir**^{*} is the perfect bridge linking the warehouse and the loading vehicle. The telescopic lip system bridges the gap between the ramp and the truck floor, even if they are far apart. It allows the door to pass in front of the ramp, perfectly isolating the interior from the exterior, eliminating temperature leaks and energy costs. Consequently, it is most suitable in refrigerated warehouses or places where perfect sealing is required. The Telesco model has PVC sealing joints on both sides of the platform.

Other important advantages of the telescopic system are:

- The smooth movement in the inlet and outlet of the lip extends the life of these levellers.
- Avoid trapping accidents with the buffer extension accessory that allows a safety space of 500 mm between the truck and the leveller.
- It allows the possibility of regulating the outward movement of the lip without damaging the loads on the edge of the truck door.
- In installations where a hatch is required, it allows the door to be lowered to the outside floor by perfectly sealing the pit of the hatch.
- Thanks to its lip length, it allows lateral loading by placing the vehicle perpendicular to the leveller or the building.
- It is ideal for loading containers since the long length of the lip allows

MODEL	LP	LX	, LE		LB	LT
			Lip 700	Lip 1.000		
TELESCO 20.21	2.000	2.250	3.000	-	1.900	2.300
TELESCO 20.23	2.000	2.450	3.200	3.500	2.100	2.500
TELESCO 20.26 (STD)	2.000	2.750	3.500	3.800	2.400	2.800
TELESCO 20.28	2.000	2.950	3.700	4.000	2.600	3.000
TELESCO 20.31	2.000	3.250	4.000	4.300	2.900	3.300
TELESCO 20.33	2.000	3.450	4.200	4.500	3.100	3.500

the container to be reached, saving the overhang of the truck or elevated guide systems, such as the case of refrigerated fruit containers.

Optional:

- Stainless steel finish. Hot-dip galvanized or mixed steel (stainless steelgalvanized). See page 4.
- Completed in stainless steel. See page 4.
- Different sized lips. See page 5.



The measurements for the TELESCO 225 ramps are the same as those in the table other than that the LP (platform width) is 2.250 mm instead of 2.000 mm.

INSTALLATION OPTIONS OF THE TELESCOPIC SYSTEM



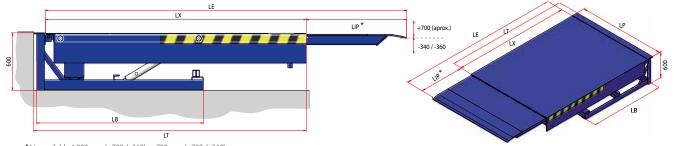
Telesco ramp covered by the sectional door for refrigerated warehouses.



Telesco ramp covered by the sectional door for refrigerated warehouses. With a hatch.



Telesco ramp in a standard non-refrigerated installation.



* Lip available 1.000 mm (+700 / -360) or 700 mm (+700 / -340)

LP: Width upper platform / LX: Length upper platform w/lip / LE: Length upper platform with lip / LB total length of ramp with closed lip / LB: Lengtth of base

DOCK LEVELLERS ISOPERFECT SYSTEM DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

NEW

KA-HIDRA Model

DOCK

DOORS

Vertical hydraulic loading bridge that saves the incline between the vehicle and the warehouse being enabling the opening of the vehicle doors inside the building. The procedure of fastening to the building by means of steel frame fixed at the pit makes easier the assembly and maintenance tasks, so it has a lower cost and involves less civil work. Movement range of more than 90° and allowed transversal incline ±100 mm. The vertical rest position allows closing the dock door from the front, ideal for refrigerated facilities.

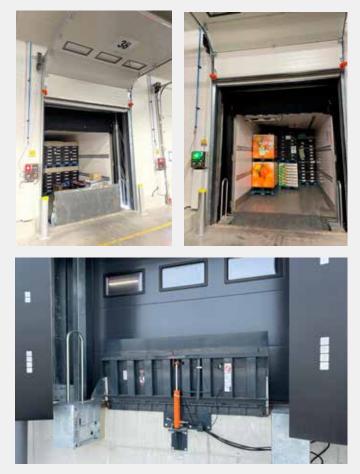
It can be combined with a sectional or rolling door, an inflatable shelter, a chock, bumpers and versalight spotlight. Platform with non-slip studded steel sheet and epoxy resin finish in polyester blue RAL 5010. Greater resistance to wear.

It incorporates safety and control systems for easy handling and risk-free functionality.

Options:

- Hot-dip galvanized steel.

Load capacity: 6 Tn



KA-HIDRA model 20.08 installed outside.

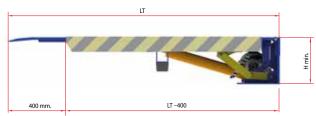


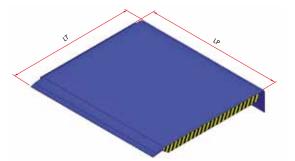






MODEL	WIDTH SHEET LP	TOTAL LENGTH LT	HEIGHT H
KA-HIDRA 20.08	2.000	800	310
KA-HIDRA 20.12	2.000	1.200	310
KA-HIDRA 20.15	2.000	1.500	310
KA-HIDRA 20.18 (STD)	2.000	1.800	310





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SAFETY

SYSTEMS

DOCK

SHELTERS

OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

TELESCO VAN Model Levelling ramp for vans

ISOPERFECT

SYSTEM

DOCK

LEVELLERS

The **Telesco VAN** dock leveller from **Angel Mir**^{*} allows the loading and unloading from different types of vehicles, whether they are heavy-duty trucks or delivery vans. Thanks to its telescopic lip system, it bridges the gap between the ramp and the vehicle floor, even if the two are far apart.

DOCK

DOORS

The selector installed on the control panel allows you to select the appropriate mode for the lip. For vans with a narrower body, the effective lip width is reduced to 1200 mm. The capacity of the leveller is 20 kN and the dead weight is limited to 2 kN.

When used for loading trucks, the lip width changes to 1950 mm and the ramp capacity is 60 kN. During the loading and unloading manoeuvre the leveller automatically adapts to the different heights.

The Telesco Van model is manufactured in steel with a painted RAL 5010 blue finish and is supplied together with a metal fixing frame, constituting a complete set that is installed in one single step. Suitable frames for this ramp are a suspended frame (embedded in concrete) or a welded frame (corner frame at the edges of the pit).

It is essential to choose the appropriate length to adapt the slope to the maintenance vehicles proposed to be used.

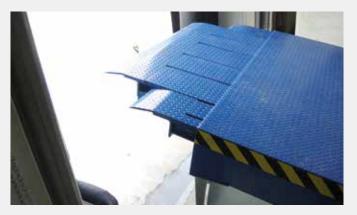
Standard Telescopic Lip: with 6° fold. It can be used when the truck platform is above of the dock.

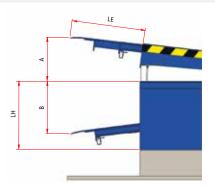
Straight lip option: no fold. Used when the loading platform is level or below level. With the long bevel, it improves the ergonomics for the passage of small and hard wheeled vehicles.

MODEL	WIDTH NW (mm)	LENGTH NL (mm)
Telesco VAN R 20.28	2.000	3.000
Telesco VAN R 20.33	2.000	3.500
Telesco VAN R 20.38	2.000	4.000
Telesco VAN R 20.43	2.000	4.500

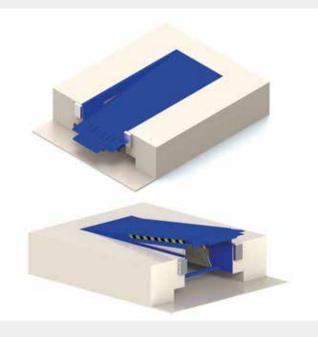
Short bevel: 40 mm. Long bevel: 100 mm. Only on straight lips.







NL	LH	LE	А	В
3.000	800		550	620
3.500	900	1.000	580	640
4.000	950	1.000	615	710
4.500	950		595	720



DOCK LEVELLERS ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY EXAMPLES OF COMPLETED PROJECTS

ISOPERFECT, the perfect solution for loading bays on freezing and cold industries

The innovative system allows the opening of the truck doors inside the refrigerated building, avoiding temperature loss and contamination (dust, fumes, insects, etc.), as well as danger for the driver.



Opening truck doors inside the building.

Advantages

1. Energy savings

Thanks to the thermal sealing of the dock and that the doors open inside the industrial unit, a considerable improvement regarding the energy consumption and the conservation of the environment is achieved.

2. Food hygiene and security

It guarantees greater control of the cold chain and prevents external agents to enter, since the opening of the dock door and

the truck one is completed when the inflatable shelter is already sealed to the entire vehicle.

LIFTING

TABLES

3. Organization

It obliges the operators to follow some rules and routines that ensure compliance with the procedure, therefore minimizing mistakes or avoiding tasks to be duplicated.

4. Time reduction

It is possible to carry out less manoeuvres with the truck than with a conventional system and the driver does not have to leave the vehicle to open the doors.

5. Safety for the staff

To install a safety wedge can prevent the truck from moving and the forklift from falling.

ISOPERFECT System is composed of:

- 1. Telescopic levelling ramp (standard model) or Vertical automatic loading bridge KA hidra (ECO model)
- 2. Roller shutter door
- 3. Inflatable dock shelter AH ISO
- 4. Dock shelter AH 4 Bags (Plus model)
- 5. Security chocks
- 6. Restrain truck doors
- 7. Dock lamp Versalight
- 8. Protection posts
- 9. A single control panel for all the loading bay equipment











Operating sequence of ISOPERFECT with telescopic dock leveller



 The external traffic light on green indicates that the dock is ready for its use, so the truck approaches the dock with no need of opening the back doors.



 Once the truck is placed, the driver must chock the wheel of the truck to allow the inflatable shelter to seal it.



3. When the truck is sealed by the inflatable shelter, the door is automatically opened and the Versalight turned on.



4. The operator must push down the bumpers.



5. The operator opens the back doors of the truck.



6. The operator locates the lip of the telescopic dock leveler over the truck.



7. Everything is ready and safe for the loading/unloading process of the truck.

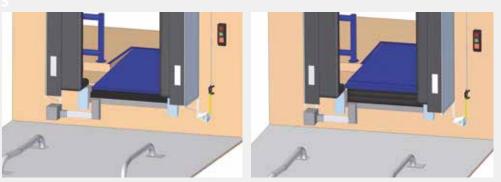


8. Everything is ready and safe for the loading/unloading process of the truck.

NEW

ISOPERFECT Plus with the new sealing cushion **AH**

Isoperfect Plus includes **AH 4BAGS** at below; the new inflatable dock shelter seals completely all around the truck with high insulation. 4Bags are inflated once the ramp is placed on the truck and it is designed to operate with the Isoperfect panel.



NEW

ISOPERFECT ECO with vertical loading bridge **KA-HIDRA**

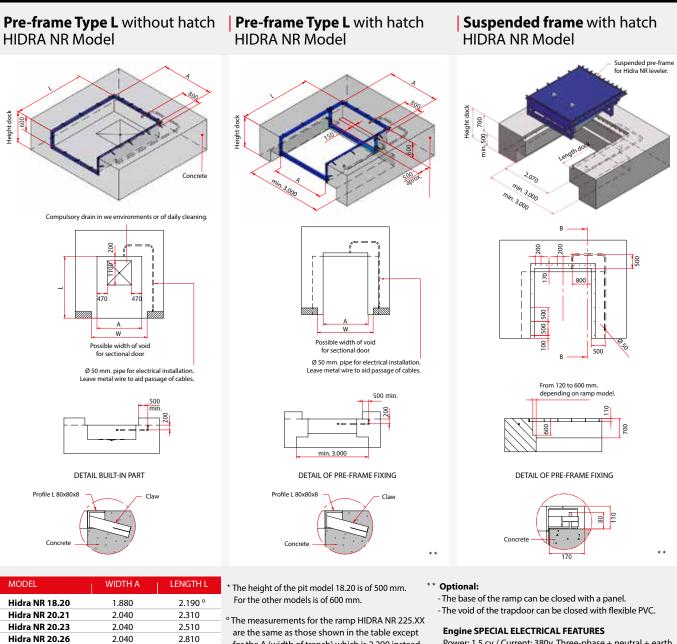
The **Isoperfect ECO** system stands up because it has an automatic vertical KA Hidra loading bridge instead of the telescopic ramp, which makes it a cheaper system requiring less civil work. This feature does not affect the efficiency of the whole since the doors of the truck also open inside the building achieving a significant energy saving. The loading bridge can have a fixed lip or a telescopic lip to better adjust the distance between the loading bridge and the truck. Adjustment up to 500 mm.





LOADING BAY EQUIPMENT EXAMPLES OF OTHER DOCK ISOPERFECT LIFTING DOCK DOCK SAFETY SOLUTIONS FOR COMPLETED DOORS SHELTERS TABLES LEVELLERS SYSTEM SYSTEMS LAODING BAY PROJECTS

PIT SYSTEMS AND PRE-FRAMES TYPES ACCORDING TO EACH MODEL OR APPLICATION

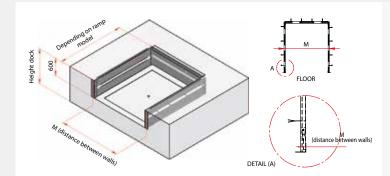


are the same as those shown in the table except for the A (width of trench) which is 2.290 instead of 2.040.

Easy Ramp Pre-frame without hatch. Box

2.040

Hidra NR 20.28

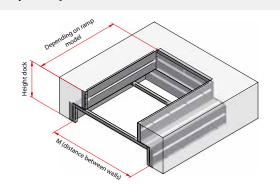


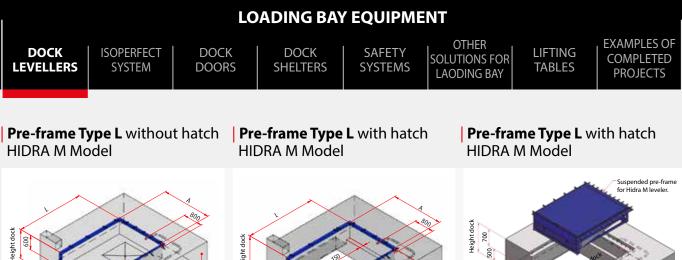
3.010

Easy Ramp HIDRA N Pre-frame with hatch

Consumption: 3A / Protection: IP55

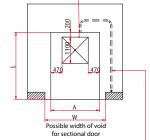
Power: 1.5 cv / Current: 380v. Three-phase + neutral + earth





Concrete

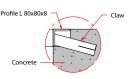
Compulsory drain in we environments or of daily cleaning.



Ø 50 mm. pipe for electrical installation Leave metal wire to aid passage of cables

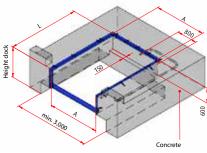


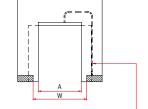
DETAIL BUILT-IN PART



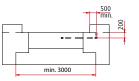
MODEL WIDTH A LENGTH L Hidra M 20.21 2.040 2.310 Hidra M 20.23 2.040 2.510 ° The measurements for the ramp HIDRA 225.XX Hidra M 20.26 2.040 2.810 Hidra M 20.28 2.040 3.010 Hidra M 20.31 2.040 3.310

Easy Ramp Pre-frame without hatch

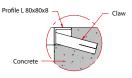




Ø 50 mm. pipe for electrical installation. Leave metal wire to aid passage of cables.



DETAIL OF PRE-FRAME FIXING



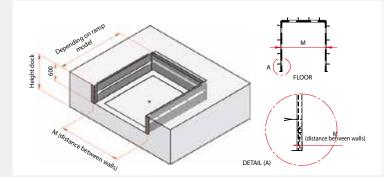
are the same as those shown in the table except

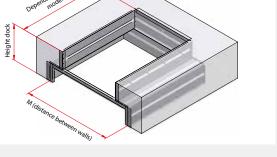
of 2.040.

- The void of the trapdoor can be closed with flexible PVC.

Engine SPECIAL ELECTRICAL FEATURES Power: 1.5 cv / Current: 380v. Three-phase + neutral + earth Consumption: 3A / Protection: IP55

Easy Ramp HIDRA M Pre-frame with hatch





** Optional: - The base of the ramp can be closed with a panel.

Hormigón armado

2.070 min. 3.000

> 200 g

> > 70

500 500 8

R

De 120 a 600 mm. según modelo de rampa

DETAIL OF PRE-FRAME FIXING

170

80

800

500

200

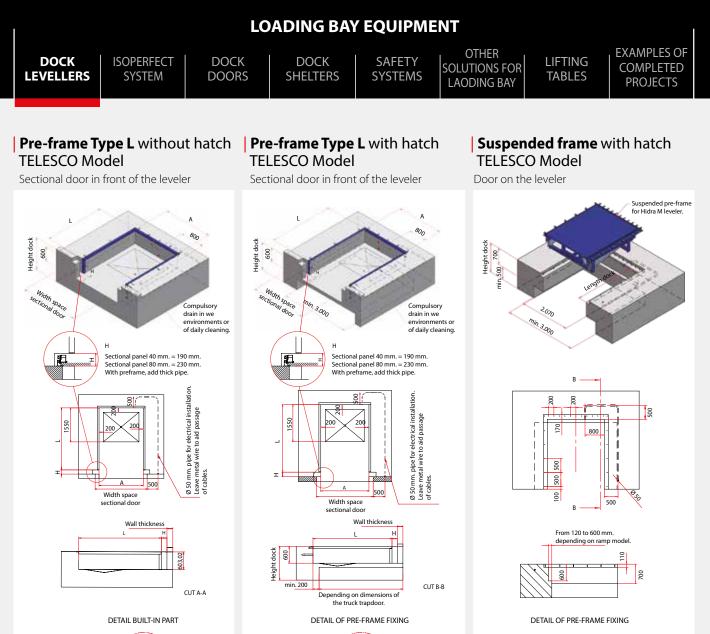
8

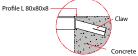
10 80

for the A (width of trench) which is 2.290 instead

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14





MODEL	WIDTH A	LENGTH L
Telesco 20.21	2.040	2.310°
Telesco 20.23	2.040	2.510
Telesco 20.26	2.040	2.810
Telesco 20.28	2.040	3.010
Telesco 20.31	2.040	3.310
Telesco 20.33	2.040	3.510

* Lip 700 mm. For the rest of sizes, lip 700 mm or 1.000 mm

Profile | 80x80x8

Concrete

^o The measurements for the ramp TELESCO 225.XX are the same as those shown in the table except for the A (width of trench) which is 2.290 instead of 2.040.

- Claw

Concrete

* * Optional:

...

The base of the ramp can be closed with a panel.
The void of the trapdoor can be closed with flexible PVC.

Engine SPECIAL ELECTRICAL FEATURES

Power: 1.5 cv / Current: 380v. Three-phase + neutral + earth Consumption: 3A / Protection: IP55

Π

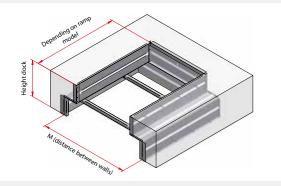
170

80

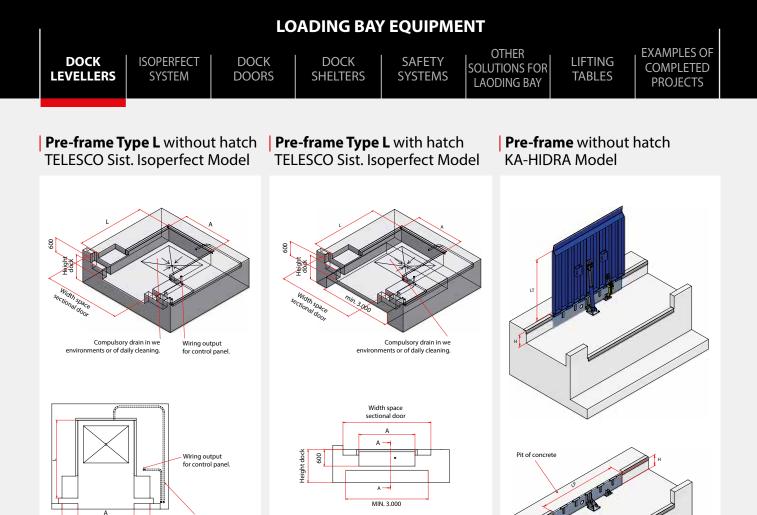
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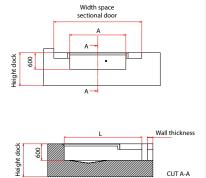
Easy Ramp TELESCO Pre-frame with hatch

(Non-valid pit for refrigerated facilities)



MODEL	LENGTH M without hatch	WIDTH N with hatch
Easy Ramp 20.21	2.180	3.130
Easy Ramp 20.23	2.180	3.130
Easy Ramp 20.26	2.180	3.130
Easy Ramp 20.28	2.180	3.130
Easy Ramp 20.31	2.180	3.130
Easy Ramp 225.21	2.430	3.430
Easy Ramp 225.23	2.430	3.430
Easy Ramp 225.26	2.430	3.430
Easy Ramp 225.28	2.430	3.430
Easy Ramp 225.31	2.430	3.430

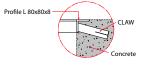




Width space sectional door Ø 50 mm. pipe for electrical installation. Leave metal wire to aid passage of cables.

> Height docl 600

DETAIL OF PRE-FRAME FIXING



MODEL	WIDTH A	LENGTH L
Telesco 20.23	2.040	2.510
Telesco 20.26	2.040	2.810
Telesco 20.28	2.040	3.010
Telesco 20.31	2.040	3.310
Telesco 20.33	2.040	3.510

° The measurements for the ramp TELESCO 225.XX are the same as those shown in the table except for the A (width of trench) which is 2.290 instead of 2.040.

ELECTRICAL FEATURES

Wall thickness

CUT A-A

Depending on dimensions of the truck trapdoor.

> Engine Power: 1.5 cv Current: 380v. Three-phase + neutral + earth Consumption: 3A Protection: IP55

MODEL

KA-HIDRA 20.12

KA-HIDRA 20.15

KA-HIDRA 20.18

WIDTH

MIN

2.040

2.040

2.040

LENGTH MAX.

LM

832

1.132

1.432

DEPTH

н

310

310

310

I		LO	ADING BA	(EQUIPME	INT		
DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS

BASE FRAMES FOR LOAIDNG DOCKS

The loading house **BOX B2** can be used as a dock leveller without needing any building work. This system allows to make the most of the interior space of the warehouse. It is also a good solution to minimize the temperatures losses when a speed door and a sectional door are combined.

The sandwich panel cover, consisting of two side walls and a roof, can be supplied with or without support and it is supplied ready to receive a shelter at the front. This box is applicable for base frames of loading dock type B-2.

The model **BOX B2 Isoperfect System** is different because it includes a 220 mm drawer in the base frame allowing the doors of the vehicle to open inside the box, and thus achieving a much higher insulation and a stable temperature.

BOX B2 ECO Model with dock box



BOX B2 Isoperfect System Model





Dock BOX B2.



Loading houses **BOX B2 ECO** at loading warehouse.



Loading house **BOX B2** with Mirtherm door and inflatable shelter.



BOX B2 docks with shelter sides in different colour.



BOX B2 dock construction with 45° incline to the industrial unit.



Set of loading houses **BOX B2** with bumpers and truck guides.

DOCK LEVELLERS ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

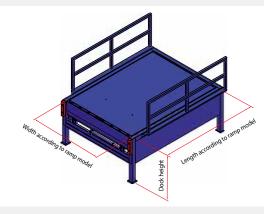
BASE FRAMES FOR LOADING DOCKS

The base frames for loading dock are custom made for each customer to guarantee the best adaptation to the installation. It is a perfect structure to expand the loading points without civil works.

* Request information about other base frames models.

BO Model

Without hatch and with handrails (optional handrails).

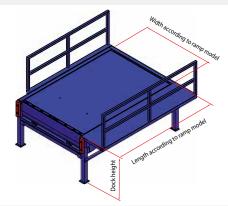


B1 Model (with one walkway) With stairs for fixed ramp RM-12.

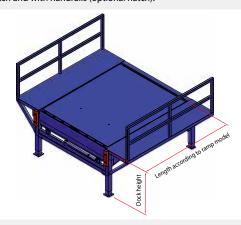


- Options:
- One or two side walkways.
- Access stairs.
- Rust proof treatment.
- Colour Ral 5010 (blue).
- Covered option with walls and ceiling.
- Different slopes: 45°, 90° etc.
- Custom sizes.
- **B1** Model (with one walkway)

Without hatch and with handrails (optional hatch).



B2 Model (with two walkways) Without hatch and with handrails (optional hatch).



B2 Model (with two walkways) With stairs for mobile ramp RM12. Suitable for fixed or mobile ramp RM12.





B0 model without side walkways but with handrails.



B2 model with walkway and handrails.

DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS

LOADING BAY DOORS (SECTIONAL OR ROLLER SHUTTERS)

Angel Mir[®] loading bays are the result of the three different types of equipment.

- **Dock leveller:** overcomes the problems of uneven ground and gap between dock and vehicle.
- **Dock shelter:** insulates and protects from weather conditions during loading and unloading.
- Dock door: seals and insulates thermally.

Eco Dock sectional doors and Mirtherm roller shutter doors are made in the same sizes and colours. Both are available with a mixed control box.

Consult our special rates for standard measurements:

Orientative measurements for door spaces (in mm.)

	WIDTH	HEIGHT	
HIDRA	2.800	3.000	
HIDRA	3.000	3.000	
TELESCO	3.000	3.600	(sectional door ahead ramp)
TELESCO (Isoperfect)	3.200	4.000	(sectional door ahead ramp)
TELESCO (Isoperfect)	3.200	4.600	(sectional door ahead ramp and to the ground)
KA-HIDRA	3.000	3.800	
	WIDTH	HEIGHT	
Shelter AC	2.100	2.200	
Adjustable AC Shelter	2.300	2.600	

ECO DOCK SECTIONAL DOORS

The sectional doors, manufactured in sandwich panels, guarantee perfect sealing with airtight joints which, also have insulation properties and can be made depending on the height of the lintel. The door can be operated manually or automatically. Different elevation types are available depending on the building features.

Options:

- Metalwork and guides in stainless steel.
- Up to 80 mm thick panels for refrigerated installations.
- Fiberglass panels for corrosive environments.
- Impact protective panels.
- Peepholes.
- Safety switch for stopping the ramp in manual mode.



Eco dock sectional doors in loading bay. High elevation model.

RAL colours for sectional doors (Inside colour white) STANDARD LACQUERS	9010 White	9002 White	9006 grey	9007 Grey	7016 Grey	5010 Blue	3000 Red
MICRO FLAT LINE	-	- 0	0	o —	0	0	o _

DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS
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Eco dock door with glass panels.

Inside view of Eco dock doors with glass panels.

INSULATED ROLLER SHUTTER MIRTHERM IST

Mirtherm IST is roller shutter insulating door perfect for limited holes. Designed for intensive use. The blades of the door are insulated with polyurethane and the guides with sliding profiles and improved sealing.

It operates very quietly thanks to the materials used in the places where there is friction against the guides allows the blade to move very smoothly between them. Also, it is virtually maintenance-free and has a long service life thanks to it has no elements liable to frequent wear, such as cables or springs.

Options:

- Peepholes.
- Motor cover.
- Reinforced guides 135 mm model.



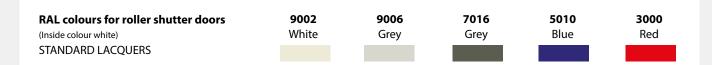




Refrigerated loading bay with **Mirthem** doors.

Mirtherm door with peepholes.

Mirtherm door with motor cover.



DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY
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R LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

DOCK SHELTERS

The flexible shelters from **Angel Mir**^{*} are the indispensable supplement to any loading dock and in some sectors (food, meat, etc.) they are compulsory. They prevent the entry of air, water and gases, protecting both the operators who perform the loading, and the goods themselves, providing great energy savings by eliminating air currents that prevent proper air

conditioning. They have been designed to fit regular transport vehicles: their segmental curtains are adapted to the bodywork. The different models of shelters can be adapted to different environments, vehicles, goods and types of storage. Its robust construction allows it to be resistant to the impacts and wear common to this type of installation.

AB Model (Retractable) and **AB-ALU** Model Folded with slight vertical movement.



AH ISO Model (Inflatable) With insulated sides.



Soft side shelter for loading dock.

ASS Model (Adjustable foam)



AH ECO Model (Inflatable)



AC Regulable Model (Foamed) Best seal for refrigerated installations.



- **4 BAGS** Model (Inflatable) To seal the leveller at the bottom.
- ACH Model (Vans) Flexible shelter with an inflatable head.





DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES O COMPLETED PROJECTS

AB RETRACTABLE Model

The external enclosures are **retractable** to absorb possible shocks. The side and top curtains are made of a semi-rigid, high-tenacity material consisting of a double polyester fabric impregnated with black PVC. The thickness of this fabric is 2.7 mm. It is extremely resistant to humidity, abrasion and the ageing caused by solar radiation. The internal chassis and structural elements are made of galvanized steel, with a higher mechanical resistance than other lighter materials. The external, non-structural profiles are made of aluminium to offer greater resistance to oxidation. The vertical displacement folding system absorbs the vertical movements produced in the vehicle during the loading and unloading operation. Easy assembly in existing installations. Optionally, a curtain for fumes can be included.

Options

- Screen-printed numbers.

- Upper front of 1.500 mm.
- Sealing pads on both sides.**
- Special coloured or translucent side canvas.
- Front canvas covered with coloured fabric.

MODEL	Н	А
AB 34	3.410	1.000 (standard)
AB 36	3.610	1.500 (optional)
AB 43	4.300	

Standard width 3.400 mm

ABF version with the same dimensions as model AB with fixed sides. With this model the installation of truck guides is mandatory.

WARNING: check the total height of the shelter according to the type of vehicle.



AB Model.



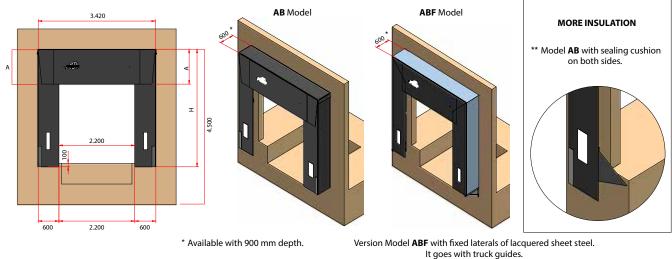
Model **AB** with 1.500 mm upper curtain.



Loading and unloading without a special colour. dock leveller.



Model AB (down to the ground). AB shelters with optional side canvas in



DOCK LEVELLERS ISOPERFECT SYSTEM DOCK

DOORS

DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

AB - ALU Model

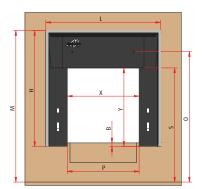
AB-ALU retractable shelter with full structure in anodized aluminium profiles expressly built for this model. The profiles are structural and have been designed with the necessary reinforcements to achieve the same resistance as with steel profiles, with the following added advantages: resistance to oxidation, channels for housing accessories, structural reinforcements and easy replacement of elements if necessary.

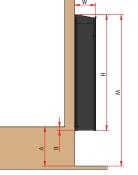
The curtains are made of a reinforced polyamide fabric covered with a thick layer of black PVC. This type of fabric resists the stresses generated in daily use (blows with the truck, water jet cleaning, gusts of wind, etc.) and the friction to which it is subjected by the movements of the vehicle during loading.

To prevent the accumulation of water on the roof, the design includes a forward slope and a channel profile, also made of aluminium, with which to drain the water off to the sides. At the back it has inserted rubber profiles that improve the tightness on the front, and help to prevent water leaks.

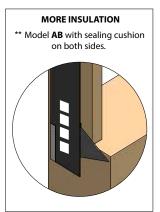


MODEL CURTAIN	AB-ALU 35 1.000	AB-ALU 35 1.500	AB-ALU 37 1.000	AB-ALU 37 1.500
н	3.550	3.550	3.750	3.750
L	3.520	3.520	3.520	3.520
w	650	650	650	650
Z	650	650	650	650
м	4.645	4.645	4.845	4.845
Y	2.410	1.910	2.610	2.110
X	2.200	2.200	2.200	2.200
Р	2.200	2.200	2.200	2.200
0	4.000	4.000	4.200	4.200
S	3.500	3.000	3.700	3.200
Α	1.200	1.200	1.200	1.200
В	110	110	110	110





Reference measurements with loading dock 1,200 mm above the ground and a shelter mounted 110 mm below the load level.



WARNING: check the total height of the shelter according to the type of vehicle.

Signal Shelter

Optionally, they can incorporate the new patented system of smart shelters with LED lighting to facilitate the manoeuvring of vehicles in the loading dock at night or in adverse weather conditions and poor visibility.

It consists of a series of linear LEDs integrated into the perimeter profiles, and can be used for various signalling, guidance and lighting functions. These, connected to the loading dock management system, can provide status information such as whether the dock is free or already reserved for loading. By adapting the necessary sensors, you can provide the driver with information on the distance to the final stop, as well as information on whether the final stop has been reached. They can be backlit (in variable colours) to highlight the building façade or to identify the loading area.





DOCK	
LEVELLERS	

ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS

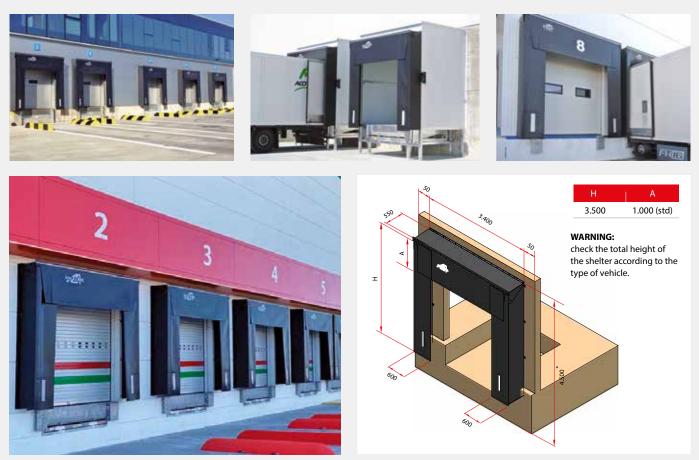
OTHER SOLUTIONS FOR LAODING BAY LIFTING EX TABLES F

EXAMPLES OF COMPLETED PROJECTS

Adjustable foam **ASS** Model

ALMOST INDESTRUCTIBLE!

Specially designed for high traffic docks and difficult accessibility. **NEW** loading dock shelter with flexible laterals. No metal supports or arms or hinges. **Flexible foam** sides lined PVC fabric of 100 mm. thick. Side curtains of 600 mm. wide. Interior clamps on both sides. Head autotuning system that absorbes the vertical elevations of high vehicles.



* Approximate dimensions which might vary depending on the type of vehicle and the height of the dock.



Option ASS / AB Model WITH MANUAL CURTAIN for small cargo vehicles



DOC	Κ
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ISOPERFECT DOORS SYSTEM

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AC Adjustable Foam Model

The AC Adjustable shelter from Angel Mir[®] represents a very good solution for a loading point with isothermal requirements and where vehicles of different heights work thanks to its design that allows the upper crossbeam to go up and down by means of a motorized system allowing its fixing at the necessary height for each vehicle (trucks, vans, etc.).

It prevents the exchange of environments, the entry of air, water or gases and maintains a good seal between the doorway and the vehicle. When the truck backs up to position itself on the dock leveller, it rests on the shelter, which, due to its construction with foam pads, adapts to the shape of the vehicle's loading mouth, preventing external contamination.

The AC Adjustable shelter is designed and built with PVC sheets reinforced with polyester fabric in order to resist the wear and tear produced during the normal operation of the logistic loading dock.



Adjustable AC Model

Standard measures

- Depth: 280 mm.

- Width side cushions: 300 mm. - Height upper cushion: 300 mm.
- Adaptability upper cushion: approx. 1.200 mm. - Colour: black.

light widtl

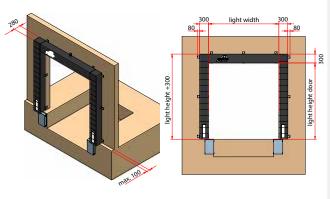
50

350

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50

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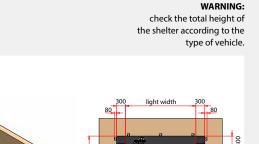


AC Model

Formed by foam pads covered with PVC canvas. Front reinforced with PVC canvas sheets. Lateral valves for the evacuation of the compressed air. Special for places that need a high level of tightness.

Available in an AC ECO version with the same features as the AC Model. The upper pad is replaced with PVC canvas.





DOCK LEVELLERS ISOPERFECT DOCK DOORS SYSTEM

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AH ISO ALU Inflatable Model

The shelter is the indispensable element for achieving better tightness in the sealing of a loading dock.

In general, conventional shelters make it difficult for outside air to enter, but sometimes the seal is not perfect due to the irregularities of the surface of the vehicles. The inflatable shelter improves watertightness because the seals that rest on the vehicle are flexible bags made of extremely resistant textile material, and are inflated by high-performance fans that maintain pressure throughout the loading and unloading manoeuvres.

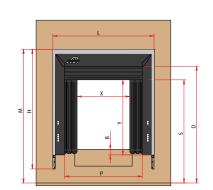
The flexibility of the material allows it to adapt to the shapes and irregularities of the bodywork. The inflatable bags have been designed to fill, as much as possible, the gaps that form between the vehicle and the loading point, and to adapt to the widths and heights of the different vehicles. In the lower part, the side bags extend to the wall, blocking the lower passage of air.

The sealing of the passage of air is much better than in other systems and, in addition, thanks to the air chambers that form the bags and the insulating material with which they are made, they minimize temperature leaks inside the work space. They are perfect for loading docks in controlled environment warehouses where it is necessary to maintain a constant temperature and minimum contact with the outside environment to avoid contamination of the product, or in places where good protection against the entry of dust, insects, gases etc., is necessary. In the event of rain, the upper bag, when pressed against the truck roof, prevents water from entering the interior of the dock.

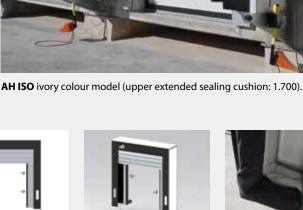
The structure of the AH ISO ALU models is made of anodized aluminium profiles specially designed to achieve the same resistance as steel profiles, and with the added advantages of resistance to oxidation, channels for housing panels and accessories, structural reinforcements and the easy replacement of elements if necessary. The sandwich panels on the sides

MODEL CURTAIN	AH-ISO 36/37 1.050	AH-ISO 36/37 1.700	AH-ISO 36/40 1.050	AH-ISO 36/40 1.700
н	4.260	4.260	4.560	4.560
L	3.610	3.610	3.610	3.610
w	1.060	1.060	1.060	1.060
Z	1.210	1.210	1.210	1.210
м	4.760	4.760	5.060	5.060
Y	2.700	2.050	3.000	2.350
Х	1.900	1.900	1.900	1.900
Р	2.760	2.760	2.760	2.760
0	4.160	4.160	4.460	4.460
S	3.700	3.050	4.000	3.350
Α	1.200	1.200	1.200	1.200
В	200	200	200	200

Reference measurements with loading dock 1,200 mm above the ground and a shelter mounted 200 mm below the load level.



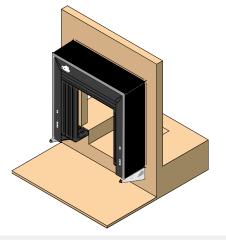
WARNING: check the total height of the shelter according to the type of vehicle.



Option: additional removable reinforcement with Velcro system.



Detail of bottom sealing cushion.



and roof guarantee better insulation and protection of the bags, which are made of Cordura® polyamide yarn fabric, an ultra-moisture resistant and abrasion-resistant material commonly used in high-performance military and sports clothing and accessories.

The modular construction system facilitates assembly and maintenance. To prevent possible impacts caused by deviant vehicles, the use of truck guides is mandatory. On the other hand, to achieve a perfect operating sequence and longer durability, it is advisable to use a truck wheel chock with automatic signalling, drive and disconnection of the shelter.



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EXAMPLES OF COMPLETED PROJECTS

Signal Shelter

Optionally, they can incorporate the new patented system of smart shelters with LED lighting to facilitate the manoeuvring of vehicles in the loading dock at night or in adverse weather conditions and poor visibility.

It consists of a series of linear LEDs integrated into the perimeter profiles, and can be used for various signalling, guidance and lighting functions. These, connected to the loading dock management system, can provide status information such as whether the dock is free or already reserved for loading. By adapting the necessary sensors, you can provide the driver with information on the distance to the final stop, as well as information on whether the final stop has been reached. They can be backlit (in variable colours) to highlight the building façade or to identify the loading area.





Inflatable **AH ECO** Model

Shelter AH ECO has the same features as model ISO. It is a shelter with inflatable cushions but without the side insulation panels. Available in black or ivory cordura depending on the location of the work. For those docks that are exposed to the sun for many hours, the use of ivory colour is recommended.





Detail of the lower seal.



Check total height of assembling of dock shelter according to vehicle types.

Ability to regulate the height depending on the truck size.

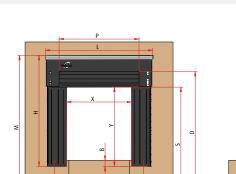




Option of removable additional reinforcement with velcro system.

MODEL CURTAIN	AH-ECO 36/37 1.050	AH-ECO 36/37 1.700	AH-ECO 36/40 1.050	AH-ECO 36/40 1.700
н	3.745	3.745	4.045	4.045
L	3.625	3.625	3.625	3.625
w	800	800	800	800
Z	570	570	570	570
м	4.745	4.745	5.045	5.045
Y	2.700	2.050	3.000	2.350
X	2.200	2.200	2.200	2.200
Р	2.700	2.700	2.700	2.700
0	4.200	4.200	4.500	4.500
S	3.700	3.050	4.000	3.350
Α	1.200	1.200	1.200	1.200
В	200	200	200	200

Reference measurements with loading dock 1,200 mm above the ground and a shelter mounted 200 mm below the load level.



light door max. 3000

DOCK

ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY LIFTING EXAMPLES OF COMPLETED TABLES PROJECTS

NEW

ACH Model For vans

The **ACH flexible dock shelter** is manufactured with an inflatable head to adapt to the different heights of transport vehicles such as vans or delivery trucks. It allows the vehicle to be attached to the dock without problems and the loading or unloading of the goods can take place inside the facilities. This makes it ideal for loading docks of e-commerce logistics platforms or parcel distribution centres.

The structure is in anodized aluminium profiles, incorporates hidden sealing joints, and has a new front lighting system around the whole contour of the shelter.

Detail of the inflatable and height-adjustable upper curtain of the vehicle.

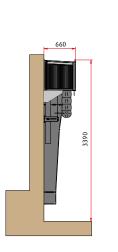
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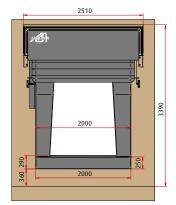
- It can be fitted with double-lip sealing joints all around the side of the wall.
- Signposting.
- Backlight on the side of the wall.
- Interior lighting on the loading door.
- It can be equipped with the new **Signal Shelter LED** lighting system (see page 27).



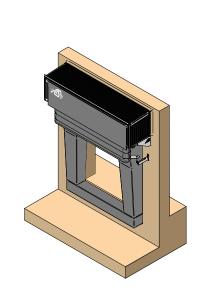


ACH Model









DOCK	ISOPERFECT	DOCK
LEVELLERS	SYSTEM	DOORS

DOCK SHELTERS SAFETY SYSTEMS

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NEW

AH 4BAGS Inflatable model for Isoperfect Plus

Isoperfect Plus includes AH 4BAGS at below; the new inflatable dock shelter seals completely all around the truck with high insulation. It also represents a significant reduction in energy costs and greatly saving energy costs.







Detail of fourth shelter at below of telescopic ramp lsoperfect.



ACCESSORIES TO IMPROVE THE THERMAL INSULATION



PVC tail for hatch



Sealing cushion for AB or ASS shelters

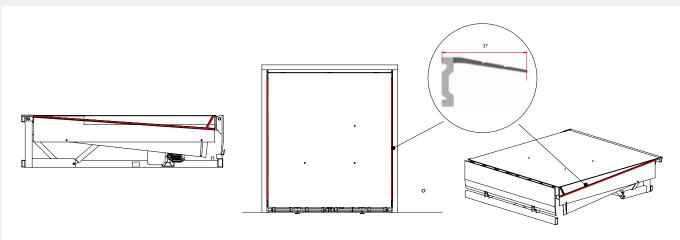


PVC air seals for Hidra dock leveller.

L length profiles are supplied for facilities of docks belonging to other manufacturers.

PVC rubber profiles for the sealing of the leveller ramp side.

L= 3 m./ud Colour: black



DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS

TUNNEL AND EXTENDABLE SHELTERS

The **extendable shelters** are front structures that cover doors or facades protruding outwards. Ideal for loading points at ground level and having reduced space for manoeuvres. Option of model with rotating extendable shelter at 90° for loads in parallel to the building. The **extendable loading tunnels** are designed to cover spaces between industrial units or loading areas. They are flexible and can be folded or permanent depending on each case.



Extendable tunnel.



Bendable dock shelter.



Automatic extensible shelters in container inspection warehouse.



Extendable tunnel as warehouse.



Extensible shelter in loading bay.



Extendable shelter.



Extensible shelter in loading dock.

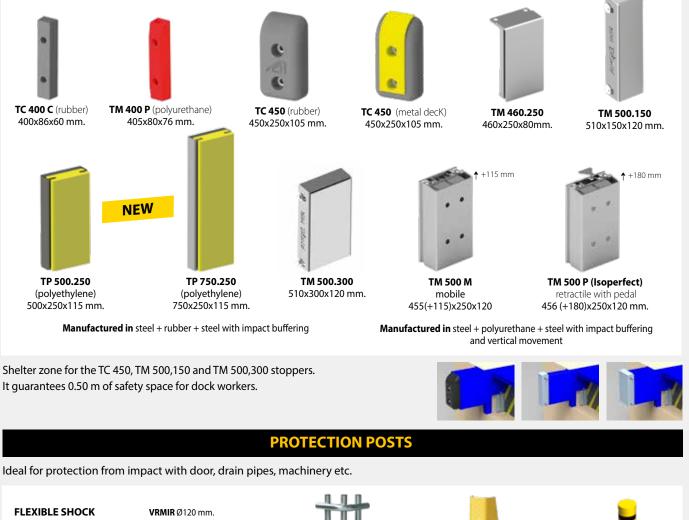


Temporary storage tent with complete loading dock.

LOADING BAY EQUIPMENT EXAMPLES OF OTHER LIFTING DOCK ISOPERFECT DOCK DOCK SAFETY SOLUTIONS FOR COMPLETED DOORS LEVELLERS SHELTERS SYSTEMS TABLES SYSTEM LAODING BAY PROJECTS

BUMPERS

The bumpers prevent the truck from colliding with the levelling ramp and keep the distance between the truck and the ramp, guaranteeing the correct functioning of the levelling ramp in the loading and unloading process.







WHEEL GUIDES FOR TRUCKS

The truck guides allow the driver to conveniently position the truck against the dock, thus avoiding damage to the shelters, docks or other facilities due to an incorrect truck approach.

GH-3000 Model (CONCRETE)

Straight. Fastening by means of rods built into the pavement.

Length: 3.000 mm. Weight: 450 Kg/u.

* It is recommended to paint the guides in yellow and black.

Painting is not supplied.





G-25 Model (STEEL)

With off-centre angle. To embed or screw to the ground.

Length: 2.500 mm. Options: Steel galvanized (STD), steel painted yellow, steel painted yellow and black.

Steel painted yellow and black.



Steel painted yellow.



Steel galvanized.

G-15 Model (STEEL)

Straight. To embed or screw to the ground.

Length: 1.500 mm. Options: Steel galvanized (STD), steel painted yellow.





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SAFETY CHOCKS TO BLOCK THE TRUCKS

Why to use safety chocks at the logistic loading and unloading docks?

The safety chocks from Angel Mir*, also known as wheel lock systems for trucks or lock systems for trailers, have been designed to ensure optimum safety for workers and to reduce potential damage to the loading dock equipment.

The safety chocks avoid the truck to leave too early or the trailers to move back and forward during the process, keeping the wheels of the vehicle blocked and preventing the truck from accidentally separating during the loading and unloading operation. They are the best prevention against possible accidents that could have very serious consequences.

We have several models that adapt to multiple vehicles and application, ranging from simple and inexpensive locking systems, more complex systems with built-in safety signs, to others that need civil work and automatically block the truck's wheels. They all include:

- Very simple and intuitive operation speeding up its use.

- Easy installation on most surfaces.
- They have been designed for intensive use under extreme working conditions.







SMART CHOCK Model



CALEMATIC Model







NUESTROS MODELOS DE CALZOS

POLY CHOCK Model

SUPER CHOCK Model



NEW

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POLY CHOCK PREMIUM Model

Manual polyurethane wheel chock with positioning sensor that detects the vehicle wheel, and a control panel connects it to the existing doors and ramps.

Resistant, light and easy to handle, the chock blocks the truck's exit once parked at the loading point, while a set of traffic lights and indicators inform the operators from both the inside and outside. The connection between the sensor and the control panel is made by cables protected by a flexible polyester pole that prevents them from being dragged on the ground.

Polychock Premium includes:

- Polyurethane chock
- Sensor for detecting the wheel
- A flexible polyester pole to prevent cables from dragging on the ground
- Heavy-duty fibreglass arm and handle

Models:

Polychock Premium P3: with basic control box Polychock Premium P4: with smart box Polychock Premium P5: for integration with the Isoperfect system

POLY CHOCK BASIC Model

Polyurethane chocks to block the truck when it is in the loading and unloading area. It is made of non-corrodible material. Its extreme hardness makes it indestructible. It is very economical and lightweight and incorporates an anti-theft security chain and a wall bracket.







NEW CALZO STEELCHOCK Model

SteelChock Wireless is a manual chock that consists of a metal wedge with a positioning sensor that is manually placed under the wheel of the vehicle once it is positioned on the loading dock and prevents it from moving.

- Wireless.

- Set of traffic lights and audible alarms to warn operators.
- Made of steel sheet and finished painted in yellow and red.
- Interconnection with the door, the dock leveller and the dock shelter.
- Steel floor plate with longitudinal grooves for the fitting of the chock teeth.
- Synchronization with the new Signal Shelter system (page 27) to warn the driver of the status of the load.



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SMART CHOCK Model

The Smart Chock integrates the signal lights and enables the operation of the door through an aluminum wedge equipped with optical sensors that detect the wheel of the truck.

Placement and operation

The chock is placed under the wheel and the interior control panel enables the opening of the door and the exterior panel indicates its correct placement.

A converging optical sensor, activated by the door, changes the signal from green to red and vice versa on the outer and inner panels, enabling the loading and unloading process.

Once the loading and unloading operation has been carried out, the door closes and the interior and exterior panels change state, allowing the driver to dislodge the chock and drive the truck.

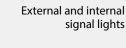
The interior control panel and exterior communication panel contain low voltage, long life diodes, safe for drivers and operators.

The blinking diodes focused on the rearview mirror of the truck, always communicate to the driver the situation of the door.

The signals from the interior control panel always communicate the situation of the chock to the internal operators. It can be integrated with the Versalight dock lighting system to increase security.



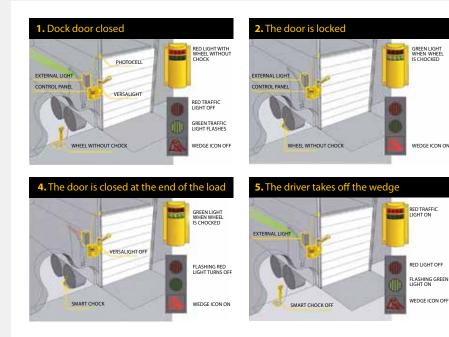




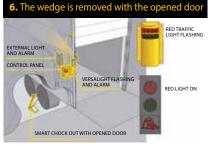


Aluminum wedge

SMART CHOCK Sequence of operations







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SUPER CHOCK PREMIUM Model Semi-automatic wedge

This semi-automatic chock resists up to 25 tons of extraction force thanks to its high-strength steel and its exclusive retention system with teeth installed on the ground. The articulated arm makes precise placement of the chock on the retaining plate almost effortless.

It is equipped with 3 sensors (arm, wheel and base) that are linked to an audiovisual communication system (traffic lights and external alarm). The optical sensor on the wheel confirms the correct placement of the wedge. A complete control, detection and communication system that allows interconnection with the door and the dock leveller.

It is compatible with 100% of vehicles, has a low maintenance cost and is very effective in winter as it works even in snow. It is very easy and practical to use. It is a durable wedge of maximum resistance made of galvanized steel and powder-lacquered finish, arm and retaining plate in hot-dip galvanized steel.

Premium model 5 without lock Premium model 7 with lock



lock system detail

SUPER CHOCK BASIC Model Manual wedge

It is a simple, effective, and easy to install vehicle locking system ideal for any loading dock. It is made up of a flexible rod that works in conjunction with a high-strength steel wedge and a retaining plate fixed in the ground. It comes equipped with an optical sensor on the wheel to confirm correct placement and includes a traffic light warning and alarm. It has manual operation and is compatible with 100% of vehicles. Optionally it allows connection with the dock door. It is a maximum resistance chock made of galvanized steel and powder-lacquered finish.





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CALEMATIC Model Automatic wedge

The **automatic chocks** are an innovative safety system that prevents the loading vehicle from moving if the ramp is not in its rest position.

A simple system of use

Automatic chocks are easy to use and guarantee maximum safety. When the leveling ramp is open, the chocks are raised, completely immobilizing the vehicle, so loading or unloading can start safely. When the leveling ramp is closed, the wedges descend, leaving the vehicle free to move.

A robust system

They are made of steel sheet with an average thickness of 10mm and subsequently hot dip galvanized. The chocks are positioned in a prefabricated concrete pit.

An adaptable system

The **automatic chocks** adapt to the position of the axles, whatever the vehicle. The vehicle's wheels are automatically blocked by various chocks that make up the system.

1. Clear Docks

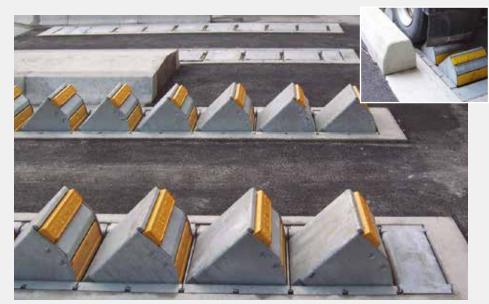
The loading and circulation areas remain clear without interrupting maneuvers. Automatic chocks can be installed along a wall or in conjunction with truck guides.

2. Simple maintenance

The modular assembly of the different elements favors quick and easy maintenance. The disassembly of the modules does not require any specific tool.

3. Installation and commissioning

The assembly of the automatic chocks is extremely simple without large or expensive masonry work. A reinforced concrete frame is supplied, which is installed in the planned opening. The chocks are easily adapted to the housings designed for this purpose. It is necessary to provide a channel for the installation of compressed air pipes, as well as a drain to evacuate the accumulation of rainwater.



Double Calematic wedge.



Double Calematic wedge.





Mini wedge for lateral unloading point in patios.





Duo Calematic option.

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AEROTECH Air Renovator Model

Aerotech's aerodynamic design allows new air to be pushed into the interior by creating a virtual tube that recirculates the air along the entire length of the truck. Aerotech allows you to take full advantage of the moving air and at the same time consume less energy. This renews the air and creates a pleasant and productive working environment inside the truck.

It takes up 75% less space than conventional fans. The detachable plastic drive tube is located in a corner of the dock door and all mechanical components are mounted outside the door passage area, reducing the risk of accidental impacts. 0.33cv motor with thermal relay to prevent overheating. Easy to assemble and adjustable for different models and door sizes.

VERSALIGHT Spotlight Model For docks

It is the leading product in truck unit lighting with LED lighting technology (standard). This model incorporates a fan for cooling, a flexible stainless steel hose, approved for the food sector, as well as a multi-directional stainless steel hose resistant to the impact of doors and trolleys and easy to adjust to any position. Versalight guarantees a lifetime of 70,000 hours and up to two-thirds energy savings compared to other conventional systems. Correct lighting increases safety and minimises damage to the load and the trailer.

Consumption: 57 W Light output: 2.640 LM



VERSALIGHT MINI Model

Versalight Mini is the new model with LED lighting technology (standard) is smaller and do not have a ventilator.

It is supplied with a flexible multidirectional stainless steel tube, it is resistant to impacts and easily adjusted to any position. Total dimensions:

Consumption: 39 W Light output: 3.850 LM

Inexpensive lamp for docks **DOCKLIGHT**

Spotlight with articulated arm to light up the interior of trailers and trucks. It easily adjusts to any position and it is possible to change its orientation. It is made with steel tube and yellow paint finish. It incorporates a safety device that prevents the door hitting the arm, because this last folds in half avoiding damage. LED lighting technology.

Consumption: 25W Light output: 2.654 LM

AERO-DOCKLIGHT Model Fan with built-in LED light

Fan with built-in LED light bulb to provide more safety and comfort in the loading dock. It illuminates and exchanges the air inside the vehicle, facilitating the work of the operators and minimizing possible damage to the load or the vehicle. Ideal for manual loading with telescopic conveyor belts with personnel working inside the truck.

It is a design that includes two devices in one: the high flow fan and the powerful led light source. A **Duo version** with double focus is available. Easily adjusts to any position using an articulated arm and two handles. High hardness materials. Orange painted finish.







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GUIDE LED Model Truck navigation system by led

The system provides a useful reference point for the driver of the trailer in assisting with the parking operation and avoiding misalignment due to conditions such as adverse weather or inexperienced drivers.

Product design allows to easily adapt to the characteristics of the load bay and, depending on the model, it can emit the signal light in different colours. LED technology allows energy savings not only dissipates heat but prevents the need to replace bulbs. It has been designed to resist outdoors. Easy installation at any loading dock.

The GUIDE LED 50 and GUIDE LED 220 systems have a position sensor for detecting the truck and, therefore, in addition to guiding the truck, also acts as a traffic light to indicate when to stop the truck, thus avoiding heavy blows by vehicle against the loading point and ensuring that no damages occur.

GUIDE LED Model

This model uses **two orange LEDs** used to guide the truck driver in aligning with the dock correctly.

GUIDE LED 50 Model

This model utilizes the **two orange LEDs** for alignment and additionally have a **red LED** on the driver's side which is activated by sensor detecting up to 500mm from the dock wall and warning the driver when to brake. Additionally, it allows interconnection to lock the door if no truck is at the loading dock.

GUIDE LED 220 Model

This model uses **two white LEDs** to indicate whether the dock is free to use. **Two Orange LEDs** are used to help the driver align into the loading point centrally. **One Red LED** indicates the breaking point by performing a flash sequence with varying frequencies as the truck nears the dock wall. It allows interconnection to the dock door to lock if no vehicle is present at the loading dock.



SAFETY BENCH TRAILER

Safety system for loading and unloading the semi-trailer without a tractor unit, preventing it from tipping during the process.

- Prevents broken foot support when loading and unloading the trailer without a tractor.
- Lift the trailer load.
- Tilting bracket with rubber.
- 2-speed drive (fast and slow).
- Sturdy wheels for easy handling.
- Great support base to the ground.
- Designed for Outdoor use

AVOID ACCIDENTS! CHARGE SAFETY! PROTECT THE TRUCK SUPPORTS!



Situation to avoid.

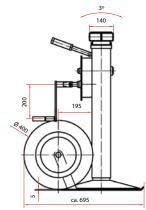


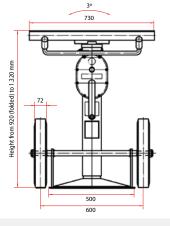
Security with the bench.

LIFTING SPEED (mm.			AD Kg.	WEIGHT in Kg.
SLOW	FAST	STATIC	DYNAMIC	
0,6	10	15.000	10.000	84









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NEW

Vertical doors AVANTGATES Model For dock access and security

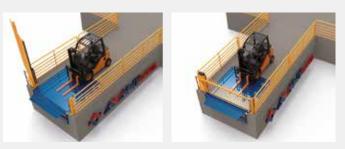
Avantgates vertical doors have a double function: they are doors for intensive use that offer quick access to logistics platforms, restricting the passage of possible intrusions, and they also function as a safety barrier on the loading dock.

Vertical opening by means of a hydraulic mechanism capable of lifting one leaf up to 10 meters or two leaves up to 20 meters in total. The Avantgates door does not occupy lateral spaces, does not have a lower guide, and practically does not require civil works.

It is the only closure system capable of providing certification for loading points in all logistics and storage centers. Avoid any risk of the forklift falling from inside the dock.

Options:

- Ability to transform into billboards through a logo sticker on the bars of the door.
- Design suitable for food industries or that require certifications such as the BRC.



LIFTING

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Protection barrier function to prevent the possible fall of the forklifts on the docks.



External barrier function for dock access without occupying side spaces.

NEW SAFETY BARRIER Model

The safety barriers have the function of preventing possible falls, of both operators and pallet trucks and forklifts, in the loading dock when the door is open, and the truck is not yet in place. Given the unevenness between the dock and the ground, a physical barrier is the best solution as form of safety containment. In addition, it also protects other equipment from possible impacts.

Suitable for any type of loading point, the barrier is installed in front of the lifting ramp to protect the outer dock space. Depending on the available height of the dock, it will have a vertical or horizontal lift. It is motorized and made of steel with a yellow RAL lacquered finish.

In those cases where the work of loading and unloading goods is done from a considerable height and by means of forklifts, a double safety barrier is the most effective solution to keep personnel protected during the whole process. It acts as a guardrail by creating a secure closed area. The double barrier can be either manual or automatic.



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MOBIL RAMP RM12

Easy mobility ramps for facilities that do not have loading docks and specific loads in places where conventional dock work cannot be carried out (warehouses for rent, sporadic work or places where there is no electricity supply). Ideal for rear loads and containers. It has side protections that prevent the loading vehicles from falling in case they lose control. Upper platform with non-slip galvanized Tramex. Vertical movement by means of two hydraulic pistons driven by a manual pump (optionally automatic).

Possibility of installing an automatic or manual dock leveller with a base frame (mod. B0, B1 or B2, see page 18) in its front part and the possibility of a security system like our smart chock or our automatic chock. Consult the commercial department for the option of renting.

Capacity: 6.000 kg.

Standard model in permanent stock (fast delivery).

Technical specifications:

- Overall length: 11.600 mm. (aprox.)
- Supporting lip: 260 mm.
- Useful width: 2.005 mm.
- Maximum height: 1.600 mm. (aprox.)

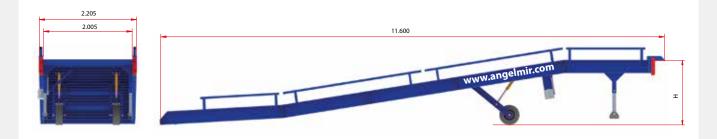
Dimensions for transport:

- Maximum length: 11.600 mm. (aprox.)
- Width: 2.205 mm.
- It can be made to specification.
- Minimum height: 900 mm. (aprox.)

Options:

- Width: 2.000 or 2.300 mm.
- Load of 10,12 y 15 tonnes.
- Automatic / Manual.
- Automatic with battery.
- Fixed with base frame and hydraulic ramp
- With PVC canvas cover.
- Combined with levelling ramps and base frames.





OTHER DOCK SAFETY SHELTERS SYSTEMS

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ISOPERFECT

SYSTEM

Protection post and chain attachment.

DOCK

LEVELLERS



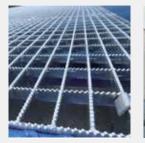
Manual pump drive.

DOCK

DOORS



Accomodation ramp and transport support.



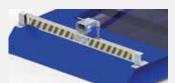
Anti-slip galvanized surface.



Support and safety feet (rest position). Larger wheels to ensure greater stability.



Option in galvanized steel.



Safety barrier option and support for movement.

Options

Option fixed ramp



Angled ramp with self-supporting base frame and Hidra dock leveller.



Fixed ramp with base frame and Hidra leveller.

Option mobile ramp



Mobile ramp with PVC cover.



Mobile ramp for loading and unloading trains.

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LOADING BRIDGES

SKBS / SKBV Models (ALUMINIUM)

Loading bridge with folding and sliding loading bridge built to overcome medium height differences of up to 215 mm. The platform made of special aluminium profiles is installed on a sliding ball bearing wheel support that serves for very slight lateral movement. The bridge can be moved downwards within a steel guide rail with an open profile, which means it can be stepped on from above and dirt is prevented from accumulating. When not in use, its position is vertically upwards, secured by a fall arrest mechanism that closes automatically when the bridge is lifted. From a platform length of 1.065 mm, the bridges are equipped with a compensation spring system, integrated in the sliding support.

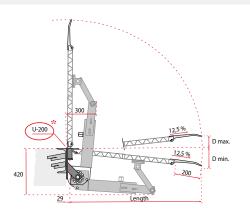
SKBV guide in bichrome steel.



MODEL SKBS	WIDTH mm.	LENGTH D mm.		SLOPE D mm.		WEIGHT in Kg.
			min.	max.		
SKBS 01	1.250	815	-120	+80	4.000	57
SKBS 02*	1.250	1.315	-185	+140	2.500	99
SKBS 03*	1.250	1.565	-215	+175	1.750	110
SKBS 10	1.500	565	-90	+50	4.000	56
SKBS 11	1.500	815	-120	+80	4.000	66
SKBS 12*	1.500	1.065	-155	+110	4.000	99
SKBS 13*	1.500	1.315	-185	+140	4.000	110
SKBS 14*	1.500	1.565	-215	+175	4.000	124

* Models with spring

SKBS Model



SKBV Model

MODEL

SKBV 01

SKBV 02*

SKBV 03*

SKBV 10

SKBV 11

SKBV 12*

SKBV 13

SKBV 14*

* Models with spring

SKBV

WIDTH

1.250

1.250

1.250

1.500

1.500

1.500

1.500

1.500

LENGTH D

mm.

815

1.315

1.565

565

815

1.065

1.315

1.565

SLOPE D

max

+80

+140

+175

+50

+80

+110

+140

+175

min

-120

-185

-215

-90

-120

-155

-185

-215

LOAD

in Kg.

4.000

2.500

1.750

4.000

4.000

4.000

4 0 0 0

4.000

WEIGHT

in Kg.

67

102

113

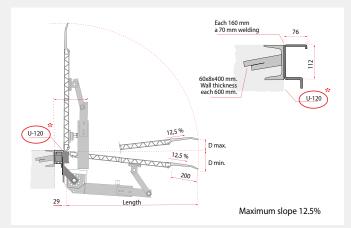
67

77

103

114

128



DOCK LEVELLERS ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

FIXED PPF-S AND MOBILE PPF-V LOADING BRIDGES (ALUMINIZED STEEL)

Steel loading bridges for external and internal docks and used when small and medium height differences between the edge of the dock and the vehicle must be bridged.

The loading bridge is mounted at the tip of the dock with a steel hinge and is lowered onto the vehicle body during the loading/ unloading process with the operating rod. The pressure springs compensate the weight of the loading bridge so that it can be easily used by one person. From the width of 2.000 mm, we recommend the use of two rods (levers) to allow the operation of two people.

In the resting position, the loading bridge is placed vertically on the

WIDTH mm.	LENGTH D mm.			LOAD in Kg.
1.500	1.250	-245	+175	6.000
				6.000
2.000	2.000*	-340	+265	6.000
	mm.	mm. mm. 1.500 1.250 1.750* 1.500 2.000 1.750	mm. mm. r 1.500 1.250 -245 1.750* 1.500 -295 2.000 1.750 -340	mm. mm. min. mm. max. 1.500 1.250 -245 +175 1.750* 1.500 -295 +225 2.000 1.750 -340 +265

* STD model (1.750 mm width x 2.000 mm length) in permanent stock. **PPF-SA** model (aluminized steel)



Loading bridge with rail and fixed lip in steel. (STD stock)

edge of the platform and fixed in this position by the automatic fall protection function.

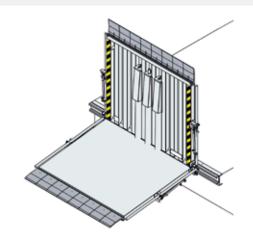
Two models are available. On the one hand, the **PPF-S** model, which remains fixed in the loading dock. On the other hand, the **PPF-V** model is moved by means of a rail. This loading bridge is supplied in line with the dimensions used by other companies, so there is no need for an expensive change to an already installed guide section. All models comply with the new European standard EN 1398.

	WIDTH mm.			OPE D nm.	LOAD in Kg.
			min.	max.	Ŭ
MOVABLE	1.500	1.250	-245	+175	6.000
Model	1.750*	1.500	-295	+225	6.000
PPF-V	2.000	1.750	-340	+265	6.000
		2.000*	-390	+310	6.000

* STD model (1.750 mm width x 2.000 mm length) in permanent stock. The rails are supplied with sections of 3 meters PPF-VA model (aluminized steel)



Half-lip in aluminium (optional, no STD).



For details of the civil work preparation for both models, request to Technical Office.

		LC	DADING BAY	Y EQUIPM	ENT		
DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS

- Anti-fall safety lock system.

- The aluminium guide is necessary even with the fixed model.

KBS Model (ALUMINIUM)

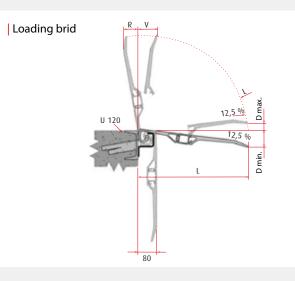
Common characteristics:

- Movement along the guide.
- They do not need civil works for their installation.
- Once installed, it is impossible for the loading bridge to leave its guide.

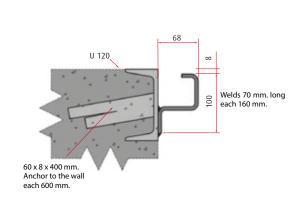
MODEL	LENGTH D mm.	WIDTH mm.	SLOPE E		LOAD in Kg.	WEIGHT in Kg.
			min.	max.		
KBS 0	410	1.250	-70	+30	4.000	19
KBS 12	535	1.250	-90	+45	4.000	24
KBS 1	660	1.250	-105	+60	4.000	28
KBS 13	785	1.250	-120	+75	4.000	31
KBS 2	910	1.250	-135	+90	4.000	36
KBS 3	1.160	1.250	-165	+120	4.000	44
KBS 4	410	1.500	-70	+30	4.000	23
KBS 14	535	1.500	-90	+45	4.000	28
KBS 5	660	1.500	-105	+60	4.000	33
KBS 15	785	1.500	-120	+75	4.000	38
KBS 6	910	1.500	-135	+90	4.000	44
KBS 7	1.160	1.500	-165	+120	4.000	53



Models in permanent stock



Guide rail



DOCK	
LEVELLERS	

ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

HF Model (ALUMINIUM)

The **HF** transportable loading bridge model is made of 40 mm thick hollow aluminium honeycomb plates with a non-slip grooved surface. The heavy-duty platforms are reinforced underneath with additional ribbing. A movable lip at the entrance, supported by a rubber strip, ensures smooth access for rollers and small wheels without the risk of unintentional movement.

Optional: safety side arms.



Reinforced transportable loading bridge

MODEL	LENGTH mm.	WIDTH mm.	SLOPE min.	(mm) max.	LOAD in Kg.	WEIGHT in Kg.
HF 15.12	1.485	1.250	+75	+14	4.000	65
HF 15.15	1.485	1.500	+75	+140	4.000	76
HF 17.12	1.735	1.250	+90	+170	4.000	75
HF 17.15	1.735	1.500	+90	+170	4.000	88
HF 20.12	1.985	1.250	+110	+200	4.000	91
HF 20.15	1.985	1.500	+110	+200	4.000	105
HF 22.12	2.235	1.250	+125	+235	4.000	101
HF 22.15	2.235	1.500	+125	+235	4.000	117
HF 25.12	2.485	1.250	+145	+265	4.000	116
HF 25.15	2.485	1.500	+145	+265	4.000	134

Transportable loading bridge with mobile lip (HF mobile lip)

MODEL	LENGTH mm.	WIDTH mm.	SLOPE min.	(mm) max.	LOAD in Kg.	WEIGHT in Kg.
HF 12.12	1.235	1.250	0	+110	4.000	52
HF 12.15	1.235	1.500	0	+110	4.000	61
HF 15.12	1.485	1.250	0	+140	3.500	61
HF 15.15	1.485	1.500	0	+140	3.500	72
HF 17.12	1.735	1.250	0	+170	3.000	70
HF 17.15	1.735	1.500	0	+170	3.000	83
HF 20.12	1.985	1.250	0	+200	2.000	82
HF 20.15	1.985	1.500	0	+200	2.000	96
HF 22.12	2.235	1.250	0	+235	1.800	91
HF 22.15	2.235	1.500	0	+235	1.800	107
HF 25.12	2.485	1.250	0	+265	1.600	100
HF 25.15	2.485	1.500	0	+265	1.600	118

KVAN Model (ALUMINIUM) Loading bridge for vans

Loading bridge designed for loading and unloading light products, it is non-slip and is manufactured in an aluminium profile. By means of a safety chain, it can be put in rest or working position. The fall arrest system is released with the foot and automatically secures the bridge in an upright position.

Capacity: 300 kg. Option: 700 kg.





MODEL	ARTICLE	WIDTH	WIDTH SUP	LENGTH	HIGHT	mm	CAPACITY	(Kg / Piece)	WEIGHT
	mm.	mm.	mm.	mm.	Min.	Max.	Punctual.	Shaft load	(Kg / piece)
KVAN 01	302.24.020	1.250	870	570	126	70	150	300	11
KVAN 02	302.24.022	1.250	750	570	126	70	150	300	11
KVAN 03	302.24.021	1.250	1.250	660	126	95	350	700	16

DOCK	
LEVELLERS	

SOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

C Model Aluminium levellers

For easy movement to their place of employment, they are equipped with a central wheel for handling by one person. As standard, each chock is fitted with a safety (anti-roll) stop for the wheel. Made of robust, corrosion-resistant aluminium with hollow honeycomb profiles, the chocks are very strong and light at the same time. With their very high load capacity they meet the high requirements of modern freight traffic for vehicles up to 12 tonnes.

MODEL	LENGTH	WIDTH	HEIGHT	Slop up	Standing platform	LOAD in Kg.	STEEL WEIGHT in Kg.	ALUMINIUM WEIGHT in Kg.
C 14.15	1.440	500	145	950	500	12.000	125	31
C 14.19	1.440	500	190	950	500	12.000	158	32
C 14.29	1.440	500	290	950	500	12.000	190	38
C 20.39	2.030	500	390	1.300	750	12.000	255	65



C model in aluminium.

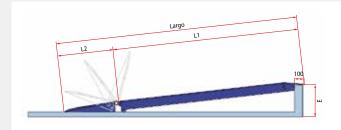
M Model (STEEL) To unload containers

The mobile loading bridge model **M** is used for loading and unloading containers at ground level where forklifts have to enter that weigh up to 6 tonnes. Integrated fork sockets allow easy and fast transport from the loading bridge to the loading bays. To secure the platform in the container, it has 1 mooring chain on each side. The construction is extremely robust and ensures that heavy forklifts can use it without any problem.



MODEL	LENGTH L	LENGTH L1	LENGTH L2	WIDTH	SLOPE E (mm)		LOAD	WEIGHT
	mm.	mm.	mm.	mm.	min.	max.	in Kg.	in Kg.
M 21.20	2.130	1.605	480	2.000	+60	+235	6.000	505
M 23.20	2.380	1.855	480	2.000	+60	+265	6.000	550
M 23.23	2.380	1.855	480	2.300	+60	+265	6.000	630
M 26.20	2.680	2.105	480	2.000	+60	+295	6.000	600

M Model STEEL





Detail of the access lip.



Transport detail.

DOCK LEVELLERS ISOPERFECT SYSTEM DOCK

DOORS

DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

KA-V / KA-S Models (STEEL)

This manually operated loading bridge is made of chequered, non-slip plate, reinforced with tubes on the underside. A set of compensating springs ensures upward and downward movement without major effort. It has an arm to be able to position it manually on the truck. The inclination of the lip and its milled front end ensure undisturbed load circulation.

It has a safety lock system that prevents unwanted movement of the platform (wind, shocks, etc.). The side guards prevent the forklifts from accidentally falling.

No civil works are required for its installation. The guide for lateral movement is welded to the protective profile of the loading dock.

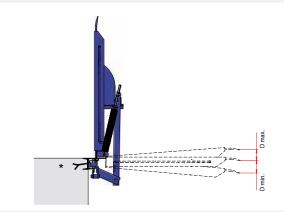




MODEL Sliding KA-V	WIDTH mm.	LENGTH D mm.		OPE D nm. max.	LOAD in Kg.
KA-V 12-10	1.200	1.000	-135	+113	4.000
KA-V 15-10	1.500	1.000	-135	+113	4.000
KA-V 20-10	2.000	1.000	-135	+113	4.000
KA-V 15-15	1.500	1.500	-135	+174	4.000
KA-V 18-15	1.800	1.500	-135	+174	4.000



KA-V Model Sliding with rail



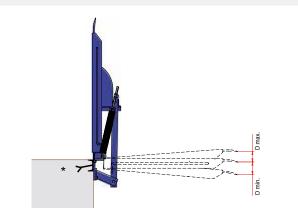
* Requires UPN 200 type profile (recommended), set into the concrete (not included).



MODEL Fixed KA-S	WIDTH mm.	LENGTH D mm.		OPE D mm. max.	LOAD in Kg.
KA-S 10-12	1.200	1.000	-135	+113	4.000
KA-S 15-10	1.500	1.000	-135	+113	4.000
KA-S 20-10	2.000	1.000	-135	+113	4.000
KA-S 15-15	1.500	1.500	-135	+174	4.000
KA-S 18-15	1.800	1.500	-135	+174	4.000

No steel guide rail is required.

KA-S Model Static / Fixed



DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS

PFV / PFB Models (FIBERGLASS)

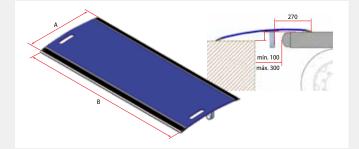
Anti-slip surface with chequered relief, reinforced with aluminium profile and rubber on the entry edges.

- Galvanized steel bottom space between supports.
- Standard colours: green, blue or orange.

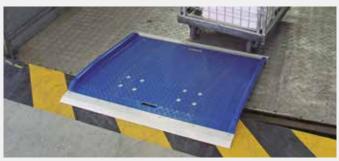
PFV Model



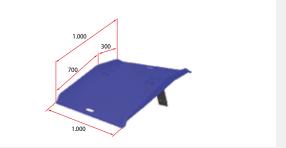
MODEL LENGTH A LENGTH B DISTANCE SLOPE LOAD WEIGH1 in Kg. mm min. (mm.) max. (mm.) in Kg. mm PFV 12.80 800 1.265 100/250 100 4.000 25 PFV 15.80 800 1.515 100 4.000 29 100/250 PFV 18.80 800 1.835 100/250 100 4.000 33 PFV 12.102 1.025 1.215 100/250 120 4.000 28



PFB Model



MODEL			DISTANCE			
	mm.	mm.	min. (mm.)	max. (mm.)	in Kg.	In Kg.
PFB 100.10	0 1.000	1.000	100/250	120	4.000	28



PFB-V Model (WITH GUIDES)

Our new folding loading bridges are ideal for bridging small gaps between the platform and the vehicle, to facilitate the passage of light machinery and/or for loading and unloading.

They can be moved laterally within their guide, which allows them to be positioned exactly where they are to be used. In addition, they can be raised and lowered very comfortably, as they have a lever on the side that allows them to be moved safely and effortlessly. For greater safety, they have a fall protection device to ensure that they do not fall when they are in an upright position.



NEW

PFB-V KVAN Fiberglass loading bridges



Fiberglass folding cargo loading bridge designed for loading and unloading vans. Equipped with safety chain to avoid possible falls in resting mode. **Capacity:** 1.000 kg. **Dimensions:** 1250 mm x 790 mm x 850 mm (widht)



DOCK LEVELLERS ISOPERFECT SYSTEM DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

NEW

DOCKS LEVELLERS

DOCK

DOORS

Dock levellers are used to adapt the height of the dock to vans or delivery trucks without the need for any civil works such as a sloping ramp. They lift the vans to the same height as the semi-trailers and move to the sides according to the width of the transport vehicle.

The dock levellers are manufactured in steel to guarantee their resistance and, for more safety, they have an automatic blockage system.



Three leveller models are available:

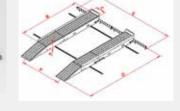
NAC

Levellers with system fixed to the loading dock, which moves and adjusts itself according to the width of the vehicle. It can have different lengths to lift the whole truck or van, or only the rear part.



NAC-300-1000 Model

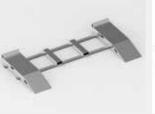
NAC-300-4000 Model Step option.

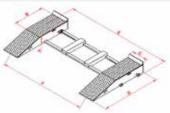


MODEL	Height platform	Length platform	Width platform	Total length	Total width	Fitting between wheel centres	Load capacity	Weight
	A mm.	B mm.	C mm.	D mm.	E mm.	F mm.	G Kg.	H Kg.
NAC 200 1000	200	1000	500	2040	4000	800-3400	6000	255
NAC 200 2000	200	2000	500	3040	4000	800-3400	6000	365
NAC 200 3000	200	3000	500	4040	4000	800-3400	6000	480
NAC 200 4000	200	4000	500	5040	4000	800-3400	6000	580
NAC 200 5000	200	5000	500	6040	4000	800-3400	6000	695
NAC 250 1000	250	1000	500	2030	4000	800-3400	6000	270
NAC 250 2000	250	2000	500	3030	4000	800-3400	6000	390
NAC 250 3000	250	3000	500	4030	4000	800-3400	6000	510
NAC 250 4000	250	4000	500	5030	4000	800-3400	6000	625
NAC 250 5000	250	5000	500	6030	4000	800-3400	6000	750
NAC 300 1000	300	1000	500	2280	4000	800-3400	6000	308
NAC 300 2000	300	2000	500	3280	4000	800-3400	6000	435
NAC 300 3000	300	3000	500	4280	4000	800-3400	6000	575
NAC 300 4000	300	4000	500	5280	4000	800-3400	6000	700
NAC 300 5000	300	5000	500	6280	4000	800-3400	6000	835

NP

Levellers with portable system with forklift. Its width can be adjusted depending on the vehicle and it lifts only the rear of the truck or parcel van.





NP-200-1000

MODEL	Height platform A mm.	Length platform B mm.	Width platform C mm.	Total length D mm.	Total width E mm.	Fitting between wheel centres F mm.	Load capacity G Kg.	Weight H Kg.
NP 150 1000	150	950	500	1620	3300	1820-2720	6000	205
NP 200 1000	200	950	500	1625	3300	1820-2720	6000	215
NP 250 1000	250	950	500	1820	3300	1820-2720	6000	245
NP 300 1000	300	950	500	2010	3300	1820-2720	6000	275

	LOADING BAY EQUIPMENT									
DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS			

NMR

Mobile levellers with manual system by wheels.



NMR_200_1000

MODEL	Height platform A mm.	Length platform B mm.	Width platform C mm.	Total Length D mm.	Load capacity G Kg.	Weight H Kg.
NMR 150 1000	150	950	500	1725	6000	62,5
NMR 200 1000	200	950	500	1730	6000	67,5
NMR 250 1000	250	950	500	1925	6000	85
NMR300 1000	300	950	500	2115	6000	97,5
NMR 150 1000_10T	150	950	500	1725	10000	80
NMR 200 1000_10T	200	950	500	1730	10000	90
NMR 250 1000_10T	250	950	500	1925	10000	105
NMR 300 1000_10T	300	950	500	2115	10000	125
NMR 150 2000	150	1950	500	2725	6000	107,5
NMR 200 2000	200	1950	500	2730	6000	117,5
NMR 250 2000	250	1950	500	2925	6000	140
NMR 300 2000	300	1950	500	3115	6000	157,5

MANUAL MINI RAMP Model

The most economical with a maximum capacity of 6 tonnes. The **Mini Ramp** from **Angel Mir**[®] is a good solution for places where the integration of a classic leveller is not possible and where there is very little difference in height between the truck floor and the platform.

The method of fixing directly to the cornice angle on the construction site allows easy adaptation and very fast assembly even in places where no levellers are to be installed.

It is a completely manual mechanism, compensated by a gas cylinder and can be easily used by one person.

The system adapts to the movement of the truck's suspensions. It

WIDTH	LENGTH	WIDTH TOTAL	ADJUNTABLE	LOAD
mm.	mm.	mm.	HEIGHT mm.	en Kg.
2.000	680	2.510	-60/+120	6.000

automatically remains in the rest position in case the truck leaves the dock.

Attention!

According to the UNE-EN 1398 standard, the working gradient cannot exceed 12.5% (7°).



Lacquered Mini ramp.

Galvanised Mini Ramp.

- Weight compensation mechanism: pressurized gas cylinder.
- Finish: blue Ral 5010
- Vehicle positioning side stops made of galvanized steel plate and polyurethane or rubber bumpers.



In the case of the AB shelter, the model with a depth of 900 mm must be ordered.

DOC	.K
LEVELL	ERS

ISOPERFECT SYSTEM DOCK

DOORS

DOCK SHELTERS SAFETY SYSTEMS LAODING BAY

OR LIFTING

EXAMPLES OF COMPLETED PROJECTS

LIFTING TABLES

The lifting tables from **Angel Mir**[°] have a remarkable place in the areas of goods production and manipulation, where it is necessary to make a difference at all levels, either fixed or mobile. The lifting tables are mainly in charge of motionless, bulky and uncomfortable loads, as well as the different types of goods and carriers. The lifting tables increase productivity, rationalize the manufacture activities and supply all the necessary environmental comfort as well as bringing ergonomic solutions to avoid damages. The lifting tables from **Angel Mir**[°] can be included in the automated logistic systems.

Furthermore, they can be independent units within the production system. They can be ready-made to satisfy your needs and special requirements. At the moment of investing in lifting platforms, it is recommended to perform a detailed analysis of the tasks to avoid future limitations concerning the several applications and to make sure the expectations at hand are fulfilled. All the **Angel Mir**[®] products are in a constant development, pointing to the attainment of higher applications and the improvement of safety. The objective is to consider the lifting platform as an essential equipment of performance and production. Besides its wide standard equipment, the lifting tables from **Angel Mir**[®] can be supplied with an additional equipment to simplify its use and enhance its safety and versatility.

SINGLE SCISSOR TABLE Model

The single scissor lift table by **Angel Mir**^{*} consists of a lift platform based on a simple scissor movement. This is the basic model from our range of elevating scissor platforms.

It has a multi-function application and is mainly used to solve problems related to uneven ground in production and logistics areas. Its use allows these areas to be evened out.

Features:

- Load capacity up to 10,000 kg.
- Lift stroke of 500-2000 mm.
- Dimensions of platform (see table).











The steel structure of the main support is a square shaped steel platform to ensure greater stability and strength.

Customized solutions can be provided.

Economic range

MODEL	CAPACITY in Kg.	PLATFORM (L x A)	LENGTH (max.)	WIDTH (max.)	LIFT (mm.)	FOLDING (mm.)	TIME lift. (sec.)	ENGINE (Kw)	WEIGHT in Kg.
M0-005050-D1	500	800x600	1.100	1.100	500	180	9	0,75	130
M1-005090-D1	500	1.350x800	1.700	1.300	900	180	20	0,75	210
M1-005090-D1B	500	1.350x1.000	1.700	1.500	900	180	20	0,75	220
M1-005125-D1	500	1.800x800	2.150	1.300	1.250	220	19	0,75	255
M2-005160-D1	500	2.250x800	2.650	1.300	1.600	220	33	0,75	430
M1-0100065-D1	1.000	1.000x800	1.300	1.300	650	180	12	0,75	170
M1-010090-D1	1.000	1.350x800	1.600	1.300	900	180	20	0,75	210
M1-010090-D1B	1.000	1.350x1.000	1.600	1.500	900	180	20	0,75	220
M1-010125-D1	1.000	1.800x800	2.050	1.300	1.250	220	33	0,75	255
M2-010125-D2B	1.000	1.800x1.200	2.200	1.700	1.250	235	27	1,1	410
M0-005080-D1 *	500	1.280x800	1.160	600	800	200	19	0,72	150
M0-010080-D1 *	1.000	1.280x800	1.160	600	800	200	19	0,72	160
M0-020080-D2 *	2.000	1.350x800	1.335	600	800	220	25	1,43	210

* Economic range; only supplied in colour blue RAL 5019.

DOCK LEVELLERS ISOPERFECT SYSTEM DOCK

DOORS

DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

LOW-BUILT TABLES Model

The **low-built** tables from **Angel Mir**^{*} are the rational and economic solution for handling equipment in the production line that is subordinate to logistic systems. They are also a stand-alone workstation for off-line tasks.

The extra-flat tables have a totally vertical lifting stroke. This is an important requirement when installing the platform lift on a production line that is subordinate to logistics systems.

Thanks to their low weight they do not require a floor pit to be built. This allows the equipment to be used efficiently in various areas. The operator is always at the right height to carry out their work. They allow the workspace to be ergonomically comfortable.

The power supply unit for the extra-flat platform and the U-shaped platform is preferably positioned separately from the lifting platforms, allowing the full flexibility of the equipment to be used.

Stainless steel option: extra flat lifting table supplied in stainless steel available in U-shape, extra flat and MLUFLAT extra flat and folding flush with the floor, with the option to incorporate an accommodation ramp.





Stainless steel option.



Low-profile with rollers.



ML Model



MLU Model



MLU Model tip up



MLE Model

MODEL	CAPACITY in Kg.	PLATFORM (L x A)	LENGTH (max.)	WIDTH (max.)	LIFT (mm.)	FOLDING (mm.)	TIME lift. (sec)	ENGINE (Kw)	WEIGHT in Kg.
ML-005080-D2	500	1.350x600	2.000	800	800	80	19	0,48	180
ML-005080-D2	500	1.350x800	2.000	1.050	800	80	19	0,48	190
ML-005080-D2	500	1.350x1.050	2.000	1.400	800	80	19	0,48	210
ML-010080-D2	1.000	1.350x600	2.000	800	800	80	19	0,72	185
ML-010080-D2	1.000	1.350x800	2.000	1.050	800	80	19	0,72	200
ML-010080-D2	1.000	1.350x1.050	2.000	1.400	800	80	19	0,72	220
ML-020080-D2	2.000	1.400x800	2.100	1.050	800	95	30	0,72	270
ML-020080-D2	2.000	1.400x1.200	2.100	1.500	800	95	30	0,72	300
MLU-005080-D2	500	1.350x1.050	1.350	1.050	800	80	19	0,48	185
MLU-010080-D2	1.000	1.350x1.050	1.350	1.050	800	80	19	0,72	200
MLU-020080-D2	2.000	1.400x1.200	1.400	1.200	800	95	30	0,72	300
MLU-015080-D2	1.500	1.380x1.590			800	85	14	0,72	530
MLU-015080-D2/B	1.500	1.380x1.790			800	85	14	0,72	530

DOCK ISOPERFECT DOCK DOCK SAFETY SOLUTIONS FOR LEVELLERS SYSTEM DOORS SHELTERS SYSTEMS LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS
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HIGH-LIFT TABLES Model

Single movement scissor tables have a limited stroke. In most cases, the maximum stroke is equal to the platform length divided by 1.5. Higher strokes are achieved by designing the lift table with a multiple set of vertically mounted scissors. High-lift tables can be used as work platforms, pallet loaders, elevators, disabled persons lifts and pallet stackers.

Angel Mir[°] standard high lift tables have the following characteristics:

Features:

- Load capacity of up to 4,000 kg.
- Lift stroke 800-4300 mm.
- For models and sizes see table below.

Customized solutions can be provided.









MODEL	CAPACITY in Kg.	PLATFORM (L x A)	LENGTH (max.)	WIDTH (max.)	LIFT (mm.)	FOLDING (mm.)	TIME lift (sec)	ENGINE (Kw)	WEIGHT in Kg.
MO-004080-D12H	400	800x600	1.150	850	800	200	19	0,55	120
M2-005180-D12H	500	1.350x1.000	1.700	1.200	1.800	350	19	1,43	450
M2-005320-D22H	500	2.250x1.000	2.600	1.500	3.200	400	37	2,2	650
M2-010180-D22H	1.000	1.350x1.000	1.700	1.500	1.800	350	21	2,2	450
M2-010200-D22H	1.000	1.500x1.000	1.850	1.500	2.000	350	21	2,2	490
M2-010250-D22H	1.000	1.800x1.000	2.150	1.500	2.500	350	30	2,2	540
M3-010320-D22H	1.000	2.250x1.000	2.600	1.500	3.200	500	43	2,2	870
M2-010330-D23H	1.000	1.650x1.200	1.950	1.700	3.300	530	34	2,2	665
M2-015180-D22H	1.500	1.350x1.000	1.600	1.500	1.800	400	21	2,2	450
M3-020200-D22H	2.000	1.500x1.000	1.900	1.500	2.000	500	25	2,2	645
M3-020200-D22H	2.000	1.500x1.800	1.900	2.000	2.000	500	25	2,2	900
M3-020320-D22H	2.000	2.250x1.000	2.650	1.500	3.200	530	40	4,6	870
M3-020380-D23H	2.000	2.250x1.200	2.650	1.700	3.800	800	41	4,6	1.150
M3-020380-D23HB	2.000	2.250x1.800	2.650	2.000	3.800	800	41	4,6	1.250
M3-020430-D22H	2.000	3.000x1.200	3.300	1.700	1.700	650	43	4,6	1.140
M3,5-025320-D22H	2.000	2.500x1.200	2.900	1.700	1.700	530	40	4,6	1.350
M4-030300-D22H	3.000	2.500x1.300	2.900	1.800	1.800	700	33	4,6	1.580
M4-040300-D22H	4.000	2.500x1.500	2.900	3.000	3.000	700	46	4,6	1.650

DOCK LEVELLERS ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

TWIN SCISSOR LIFT Model

The twin scissor lift table by **Angel Mir**^{*} comes with two or more sets of scissors, placed in line to reach the required platform length, as well as the desired load capacity. Basically, it consists of a combination of several single scissor tables.

The lift stroke of the set of scissors is controlled by synchronization in order to carry out a movement which is parallel to that of lifting.

Features:

- Load capacity up to 8.000 kg.
- Lift stroke 900-2000 mm.
- For models and sizes see table below.

Customized solutions can be provided.





MODEL	CAPACITY in Kg.	PLATFORM (L x A)	LENGTH (max.)	WIDTH (max.)	LIFT (mm.)	FOLDING (mm.)	TIME lift (sec)	ENGINE (Kw)	WEIGHT in Kg.
M2 020000 D4/21									
M2-020090-D4/2L	2.000	2.700x1.000	4.500	1.500	900	240	18	2,2	610
M2-020125-D4/2L	2.000	3.600x1.000	5.600	1.500	1.250	260	28	2,2	740
M2-020125-D4/2L	2.000	4.000x2.000	5.600	2.500	1.250	250	27	2,2	1.300
M2-020160-D4/2L	2.000	4.500x1.000	6.000	1.500	1.600	300	29	2,2	875
M2-020160-D4/2L	2.000	4.500x1.500	6.000	2.000	1.600	300	29	2,2	1.080
M3-020200-D4/2L	2.000	6.000x1.500	7.500	2.000	2.000	300	45	4,6	1.800
M3-020200-D4/2LB	2.000	6.000x2.000	7.500	2.200	2.000	300	45	4,6	2.150
M3-040110-D4/2L	4.000	3.600x1.000	5.600	1.500	1.100	300	33	2,2	980
M3-040130-D4/2L	4.000	4.000x1.200	6.200	1.700	1.300	340	29	4,6	1.100
M3-040160-D4/2L	4.000	4.500x1.200	6.800	1.700	1.600	340	34	4,6	1.200
M3-040160-D4/2LB	4.000	4.500x2.000	6.800	2.500	1.600	340	34	4,6	1.600
M3-040200-D4/2L	4.000	6.000x1.500	7.500	2.000	2.000	340	45	4,6	1.800
M3,5-040200-D4/2L	4.000	6.000x2.000	7.500	2.200	2.000	340	45	4,6	2.270



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ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS

OTHER SOLUTIONS FOR LAODING BAY

LIFTING

EXAMPLES OF COMPLETED PROJECTS

CAR LIFT TABLES Model

Angel Mir^{*} vehicle lifts can be used to transporting vehicles from one floor of a building to another, for example, in sales facilities, showrooms and car parks.

This vehicle lift was designed for transporting vehicles, not people.

It can only be used for equally distributed loads and not as a conventional lift platform.

Special training is required for operation and use of these lifts. Installation should be carried out in accordance with current safety regulations.

Features:

- Load capacity up to 2,500 kg.
- Lift stroke up to 7,000 mm.
- For models and sizes see table below.
- Can be customized by weight and size.







Safety rails are standard.

MODEL	CAPACITY in Kg.	PLATFORM (L x A)	LENGTH (max.)	WIDTH (max.)	LIFT (mm.)	FOLDING (mm.)	TIME lift (sec.)	ENGINE (Kw)	WEIGHT in Kg.
M4,5-020350-D2	2.000	5.000x2.500	5.000	2,500	3.500	450	46	4,6	2.600
M5-025400-D2	2.500	6.000x2.500	6.000	2.500	4.000	650	80	4,6	3.500
M6-025450-D2	2.500	6.100x2.500	6.100	2.500	4.500	650	80	4,6	3.500
M5-020500-D2/2H	2.000	5.000x2.500	5.000	2.500	5.000	1.200	65	4,6	4.500

DOCK	
LEVELLERS	

ISOPERFECT DOCK DOORS SYSTEM

DOCK SHELTERS

SAFETY SOLUTIONS FOR SYSTEMS LAODING BAY

OTHER

LIFTING TABLES **EXAMPLES OF** COMPLETED PROJECTS

LOADING DOCK TABLES Model

The load platform compensates for the difference in height between the loading/unloading vehicle and the loading bay.

It has been mainly designed for use outdoors in difficult weather conditions.

Loading bay lift tables by Angel Mir[®] are designed and equipped to withstand load and weather condition difficulties, which usually occurs when vehicles cross the lift platform.

Features:

- Load capacity up to 10,000 kg.
- Lift stroke 1,600 2,000 mm.
- For models and sizes see table below.



MODEL	CAPACITY in Kg.	PLATFORM (L X A)	MAXIMUM LENGTH (mm.)	MAXIMUM WIDTH (mm.)	LIFT (mm.)	FOLDING (mm.)	ENGINE (Kw)	WEIGHT in Kg.
T1-M1-C2	2.000	2.000 x 1.500	2.300	1.950	1.300	305	1,10	950
T1-M2-C2	2.000	2.000 x 2.000	2.300	2.350	1.300	305	1,10	1.100
T2-M3-C2	2.000	2.500 x 1.500	2.800	1.950	1.600	305	2,20	1.000
T2-M4-C2	2.000	2.500 x 2.000	2.800	2.350	1.600	305	2,20	1.170
T2-M5-C2	2.000	2.500 x 2.400	2.800	2.500	1.600	305	2,20	1.320
T2-M6-C2	2.000	3.000 x 2.000	3.000	2.350	1.600	305	2,20	1.300
T2-M7-C2	2.000	3.000 x 2.400	3.000	2.500	1.600	305	2,20	1.575
T3-M8-C4	4.000	2.000 x 1.500	2.300	1.950	1.300	305	2,20	1.000
T3-M9-C4	4.000	2.000 x 2.000	2.300	2.350	1.300	305	2,20	1.150
T4-M10-C4	4.000	2.500 x 1.500	2.800	1.950	1.600	450	2,20	1.300
T4-M11-C4	4.000	2.500 x 2.000	2.800	2.350	1.600	450	2,20	1.500
T4-M12-C4	4.000	2.500 x 2.400	2.800	2.500	1.600	450	2,20	1.700
T4-M13-C4	4.000	3.000 x 2.000	3.000	2.350	1.600	450	2,20	1.650
T4-M14-C4	4.000	3.000 x 2.400	3.000	2.500	1.600	450	2,20	1.830
T5-M15-C6	6.000	2.250 x 1.500	2.500	1.950	1.300	450	3,00	1.300
T5-M16-C6	6.000	2.250 x 2.000	2.500	2.350	1.300	450	3,00	1.500
T6-M17-C6	6.000	2.500 x 1.500	3.000	1.950	1.600	450	4,00	1.400
T6-M18-C6	6.000	2.500 x 2.000	3.000	2.350	1.600	450	4,00	1.600
T6-M19-C6	6.000	2.500 x 2.400	3.000	2.500	1.600	450	4,00	1.600
T6-M20-C6	6.000	3.000 x 2.000	3.000	2.350	1.600	450	4,00	1.750
T6-M21-C6	6.000	3.000 x 2.400	3.000	2.500	1.600	450	4,00	1.930

Note: Please consult for other loads (over or low), dimensions, fold height and lift stroke.





DOCK	ISOPERFECT
LEVELLERS	SYSTEM

DOCK DOORS DOCK SHELTERS

SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

09

Lifting table with front curtain.





aluminium loading bridge.

Lifting table with folding half-lip.

DOCKLIFT Model

Docklift is a mixed system consisting of a lifting table and a loading dock leveller. It allows each element to be used separately or together, providing great versatility in the loading and unloading of goods.

As a dock **leveller**, it compensates for the difference in level between the loading dock and the vehicle. The lip is extended and supported on the truck, at which time it can be moved over it with a maximum load of up to 6.000 kg, acting as a perfect link between the warehouse and the vehicle. The loading and unloading operations are carried out more smoothly and risks to operators and goods are considerably reduced.

As a **lifting table**, it can be used as a platform to raise or lower maintenance vehicles in areas with different levels, or to load and unload vehicles of heights that cannot be reached with the levelling ramp. In this way, they can be loaded or unloaded with fork-lift trucks or pallet trucks (both electric and manual), thus adapting to multiple situations and needs.

Optional: fold down lip.



MODEL	LP	LX	LE	LT
DOCKLIFT 20.23	2.000	2.300	2.700	2.500
DOCKLIFT 20.26	2.000	2.600	3.000	2.800
DOCKLIFT 20.28	2.000	2.800	3.200	3.000



For trucks.



For repairing or raising/ lowering fork-lift trucks.



For loading/unloading medium-height trucks.



Docklift with 3-part lip for transit vans.

EXAMPLES COMPLETE PROJECT	
LIFTING TABLES	
OTHER SOLUTIONS FOR LAODING BAY	
SAFETY SYSTEMS	
DOCK SHELTERS	
DOCK DOORS	
ISOPERFECT SYSTEM	
DOCK LEVELLERS	

OPTIONAL FITTINGS

In addition to the general standard fittings, **Angel Mir**[®] lift tables can be supplied with additional features to simplify handling and enhance safety and versatility.

1 Trolley frame

Places the table in a frame with wheels to provide mobility and stability to your goods. You can opt for two fixed and two castered wheels or two wheels and a front carriage

2 Boggie frame

The easiest way to overcome problems of uneven ground in rail transport is to provide the table with flanged wheels. The base can be either a non propelled carriage or can be fitted with a self propulsion drive unit.

3 Roll- off guard

Prevents goods placed on the platform from rolling off the table; used mainly in loading docks and smilar applications.

4 Loading flap

An effective way to bridge the gap between the lifting table and a loading dock.

5 Circular turn table

Circular turntable fitted on the top surface of a scissor lift.

6 Rectangular turn table

Rectangular surface bolted to the basic scissor lift platform. The unit is gapped and electro-interlocked to the lift travel to reduce the risk of trapping an operator.

7 Mechanical shotbolts

For installations where the platform is flush with the floor or ground in the raised position, the table can be equipped with heavy-duty bolts capable of withstanding severe loading.

8 Pallet truck frame

Allows the table to be moved easily with the aid of a forklift or hand pallet truck.

9 Side barrier rails

1,100 mm. high, complete with a mid-rail and 150 mm high toe kick-plate guards for personnel protection up to a maximum lift height of 2 m.

10 Goal Post barrier

Forms an upper level barrier. In fully raised position the goal post is sized to allow for a 2 m clear headroom for personnel.

11 Self latching Hinged Swing gate

The door has a self locking system which provides a safety zone. Maximum elevation between levels is 2 m.

12 Raise and tilt platform

Hydraulic actuated hinged tilt platform. Complete with safety edge.

13 Stack Height control system

A photocell. Transmitter/reflector supplied, loose or post mounted for remote siting to suit the application.

14 Roller bed

A roller bed or other conveyor top (e.g. chain or belt) is often used in multilevel conveyor systems.

15/16 Bellows/chain mesh/roller Curtain

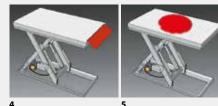
Protects the table from dust and dirt in exposed environments. Bellows can also be fitted for weather-proofing of outdoor lifting tables. Chain mesh can be fitted to the underside of lift platform which prevents access to scissor mechanism and other working parts of the machine.



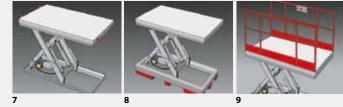


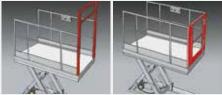


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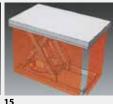






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DOCK LEVELLERS ISOPERFECT DOCK SYSTEM DOORS DOCK SHELTERS SAFETY SYSTEMS

OTHER SOLUTIONS FOR LAODING BAY

LIFTING TABLES EXAMPLES OF COMPLETED PROJECTS

ERGOMIR Model

The manual rotating tables Ergomir from **Angel Mir**^{*} automatically adjust to the height of pallet loads while boxes are added or removed, avoiding workers flexing, reaching and stretching. By maintaining loads at a constant height, workers can build and decompose pallet loads in a quick and easy manner, while at the same time making minimal effort and avoiding risk of injuries. A built-in rotating platform allows operators to rotate the load and to stay in the same place during the loading and unloading process.

The fastest, easiest and safest way to load and unload pallets.

Features:

- Heavy-duty springs automatically adjust themselves as boxes are added or removed and hold loads at a comfortable working height.
- Low friction rotating platform.
- Extremely stable base does not require be fixed.
- Integral forking holes to make easier the relocation.
- Multiple configurations of springs for loads of 180 kg to 2040 kg.
- Spring replacement (if necessary) are quick and easy no tools required.



Ergomir 360 comes with a full programme of accessories. Its versatility makes it the ideal solution for a wide range of advanced needs:

- 1. Portability kit / Wheelframe
- 2. Adjustable feet
- 3. Bellow
- 4. Solid circular top plate
- 5. Solid rectangular top plate
- 6. Footstep



MODELS	CAPACITIES	COMPRESSED HEIGHT	EXTENDED HEIGHT	TURNTABLE DIAMETER	BASE DIMENSION*	Shipping Weight
Ergomir	180-2040 kg.	241 mm.	711 mm.	1.108 mm.	915 x 915 mm.	186 kg.

* Includes fork pockets.

DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS
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EXAMPLES OF COMPLETED PROJECTS



Hidra ramp with AB dock shelter and sectional door.



Loading bay with aluminium loading bridges.



Loading bay with **Hidra** ramps in Colombia.



Refrigerated loading docks with Isoperfect System.



Isoperfect Plus system in loading house.

DOCK LEVELLERS

SAFETY SYSTEMS

OTHER SOLUTIONS FOR LAODING BAY

ISOPERFECT System

SYSTEM



AH ISO inflatable white shelter, Eco dock door and Poly Chock Premium.



Outside view of Isoperfect loading bay.



TELESCOPIC leveler and retractile bumper with pedal



Loading bay with **Isoperfect System.**



Inside view of **Isoperfect** loading bay.



Double lifting table.



HIDRA leveller and simple lifting table.

LEVELLERS SYSTEM DOORS SHELTERS SYSTEMS LAODING BAY TABLES PROJECTS	DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS
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HIDRA leveller and sectional door. Inside view.



Security chocks and HIDRA levellers.



HIDRA ECO leveller, sectional door and Versalight.

DOCK	ISOPERFECT	DOCK	DO
LEVELLERS	SYSTEM	DOORS	SHEL

DOCK SHELTERS SAFETY SYSTEMS OTHER SOLUTIONS FOR LAODING BAY

EXAMPLES OF COMPLETED PROJECTS



Loading bay with **HIDRA** leveller and glassed sectional door.



TELESCOPIC leveller.



HIDRA leveller with EASYRAMP pit.



HIDRA leveller galvanized.

DOCK		DOCK	DOCK		OTHER		EXAMPLES OF
DOCK	ISOPERFECT	DOCK	DOCK	SAFETY	SOLUTIONS FOR	LIFTING	COMPLETED
LEVELLERS	SYSTEM	DOORS	SHELTERS	SYSTEMS	LAODING BAY	TABLES	PROJECTS



HIDRA leveller with hatchs.



HIDRA leveller galvanized Steel.



HIDRA leveller with dock shelter AB and truck guides G25.



TELESCOPIC leveller with opening below.



HIDRA leveller with dock shelter AB.

DOCK LEVELLERS	ISOPERFECT SYSTEM	DOCK DOORS	DOCK SHELTERS	SAFETY SYSTEMS	OTHER SOLUTIONS FOR LAODING BAY	LIFTING TABLES	EXAMPLES OF COMPLETED PROJECTS
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HIDRA leveller and roller shutter doors with peepholes.



Autodocks B2 BOX.



HIDRA leveller with EASYRAMP pit.



HIDRA galvanized with autodock B2 BOX.



HIDRA leveller with hatch and PVC tail.



Aluminium **loading bridges** in loading bay.

LOADING BAY EQUIPMENT **EXAMPLES OF** OTHER DOCK ISOPERFECT DOCK SAFETY LIFTING DOCK SOLUTIONS FOR COMPLETED PROJECTS DOORS TABLES LEVELLERS SYSTEM SHELTERS SYSTEMS LAODING BAY



Loading dock table, HIDRA dock leveller and aluminium loading bridges.





HIDRA leveller.

TELESCO leveller with AB dock shelter.



HIDRA levellers and EasyRamp pits.



GENERAL CATALOGUE





HIGH SPEED DOORS



SECTIONAL DOORS



ROLLER SHUTTER DOORS

We are present in more than 50 countries EUROPE, AFRICA, LATIN AMERICA, MIDDLE EAST, ASIA



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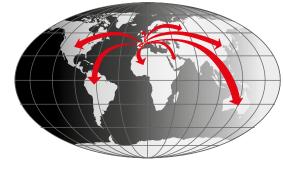


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