

# Loading Systems

**PRODUCT CATALOGUE 2022**

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*The detail that will change your logistics*

## TECHNICAL SUPPORT HIGH QUALITY PRODUCT CUSTOMIZATION

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## Table of contents

<b>About Us</b>	<b>3-8</b>
<b>Dock levellers</b>	<b>9-34</b>
AMTRK PRO swing lip dock leveller	11-16
AMTRV PRO telescopic dock leveller	17-22
AMTRV CD hydraulic loading dock with variable load capacity	23-28
AMTRV ESS dock with energy saving system	29-34
<b>Seals</b>	<b>35-40</b>
AMTR U standard seals	37-38
AMTR P inflatable seals	39-40
<b>Loading platforms and dock</b>	<b>41-46</b>
AMTR I Loading platform mechanical bridge	43-44
AMTR J Loading plate mechanical bridge	45-46
<b>Loading houses</b>	<b>47-50</b>
AMTR D Modular loading houses	49-50
<b>Accessories for docks and loading houses</b>	<b>51-62</b>
Wheel Guides	53-54
Dock bumpers	55-57
Steel bollards	58-60
Wheel chocks	61-62
<b>Signaling and Docking System</b>	<b>63-69</b>
Dock lamps	65
Proximity Docking System	66-69





A thorough analysis is paramount at every stage of communication with the customer. From the design process through production and implementation. Over the years we have gathered a group of professionals who take care of every detail of our solutions.

The materials we use for the manufacturing of our products are of the highest quality. We take great care in selecting components and semi-finished products to increase the service life of our solutions. All elements of our docks are manufactured in Poland and are subject to detailed inspection at every stage of the production process.

The technology you can trust. We operate based on innovative solutions and proven standards. We have implemented ISO 9001:2015 Quality Management System in the company, ensuring effective procedures in all departments.

Continuous development and sustainability. We use innovative solutions and continuous control of production processes to minimize the negative impact on the environment while intensifying business operations. We think today about what the customer and society will demand from our product tomorrow.





AMTR is a company that grew out of the need to create high-quality products from Polish components applying domestic technological thought. The main pillar of our business is the production of dock levellers, loading houses, and accessories, which are tailored to individual customer needs.

We are a team with many years of experience, which allows us to select the ideal product for a specific project. We provide our business partners with customized and detailed offers according to their specific requirements.



# Why AMTR

## ► Cooperation platform

On our website you can easily and quickly get acquainted with our products, send orders and check the current promotions.

## ► Technical Support

Our engineering department will customize the products for individual implementation and advise the best solutions taking into account the specific industry for which we produce.

## ► Efficient implementation

All components are manufactured in Poland, which guarantees efficient service and short lead times.

## ► Maximum effectiveness

We have implemented an effective system of production and logistics process control, so our customers can rest assured about the quality level of the products they receive.



## ► Sales promotion materials

We provide our Business Partners a full photo database of offered products, information and technical folders.

## ► Marketing support

We help our business partners with promotional activities we prepare advertising campaigns, edit descriptions on websites and keep them up to date with the latest

## ► Full documentation

The products coming out of our production plant are CE certified and issued documents confirming their high level of workmanship.

## ► Guarantee of the highest quality

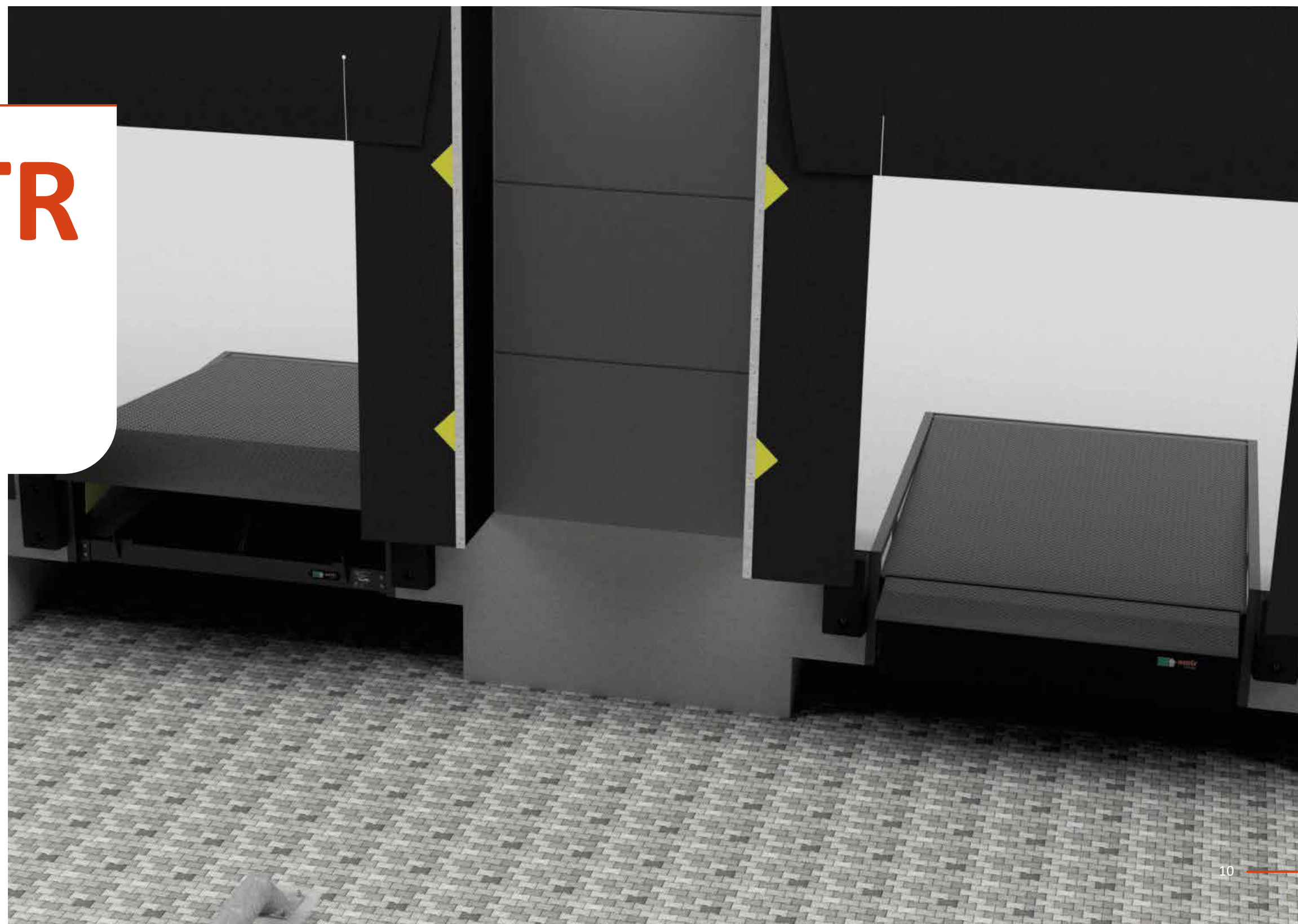
The ISO 9001 certification in accordance with the PN EN ISO 9001:2015 standard guarantees high production standards and products of the highest quality.

# AMTR

Dock levellers  
With swing or  
telescopic lip



- ▶ The highest level
- ▶ Attention to detail
- ▶ Safety



# AMTRK-PRO

## Swing lip dock leveller

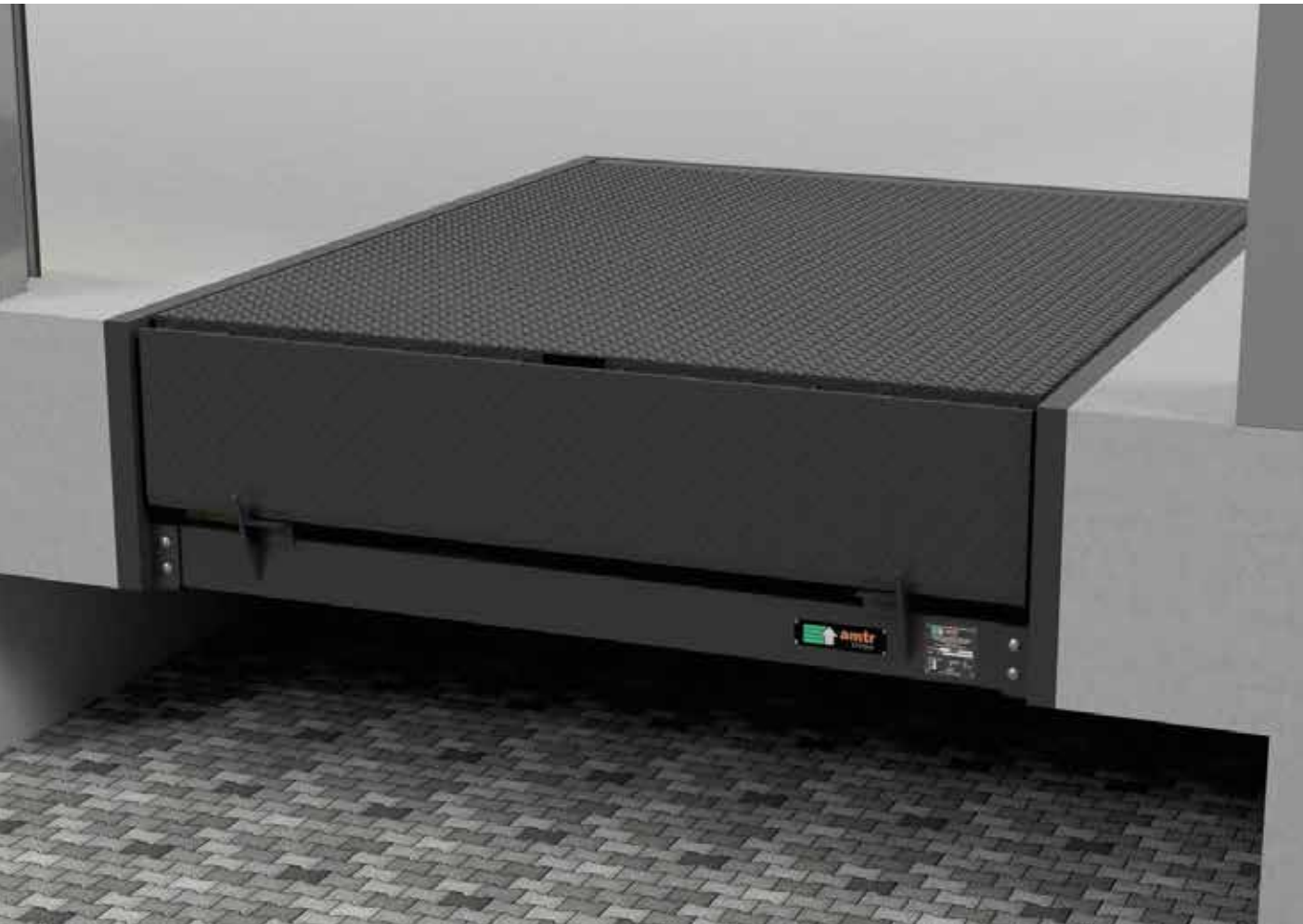


More information  
on the product page

### Purpose

A Dock with a swing lip is designed for pallet operations with a forklift for trailer trucks. The dock is equipped with a stable hinged lid, which ensures fast and safe operation. The dock is CE certified.

The platform is made of riffled steel sheet of 6/8 mm thickness. It was integrated into the service support and connected to the ramp frame at the rear with hinges. An anti-slip surface and foot protection along the entire length of the platform ensures the user's full safety. There are several possible ways of embedding the platforms in the foundation.

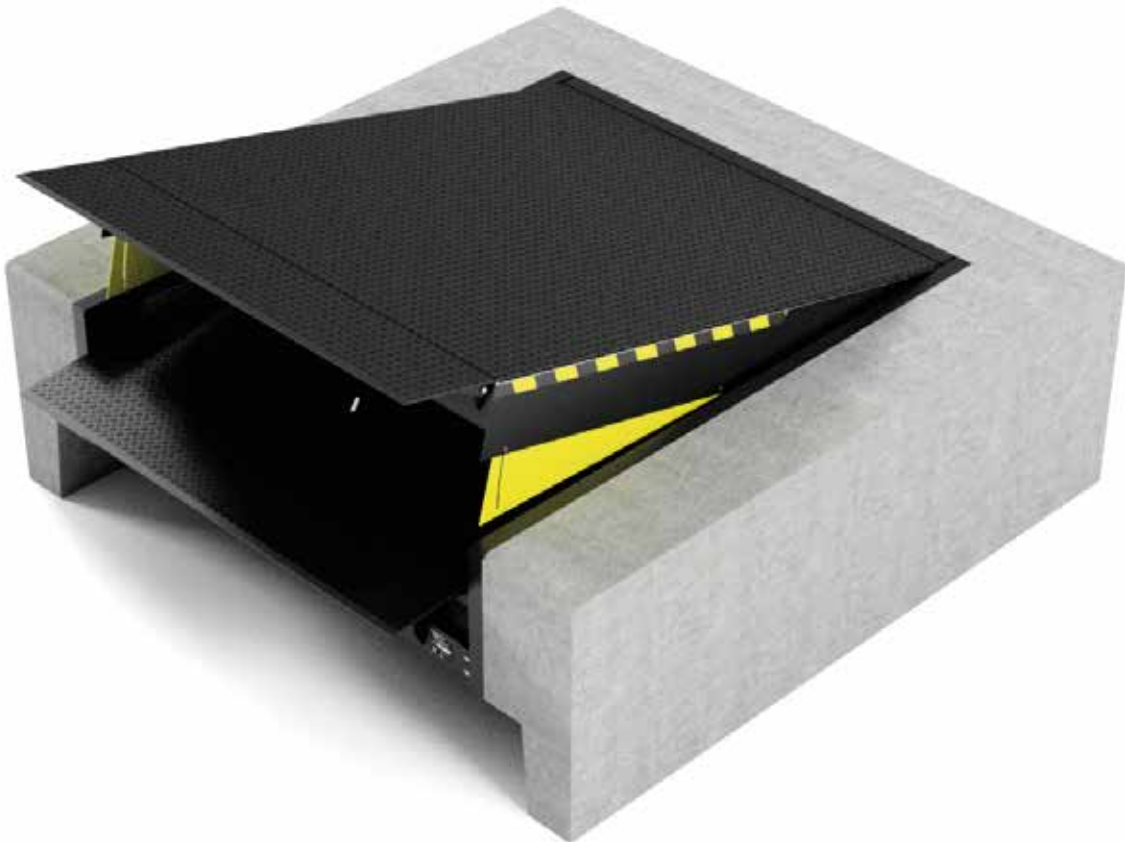


## Standard technical parameters\*

Use  
Nominal lengths  
Nominal widths  
Construction heights  
Nominal lip lengths  
Sheet metal thickness  
Nominal load capacity  
Standard color

Loading systems  
2000, **2500**, 3000, 3500, 4000 mm  
**2000**, 2250 mm  
610 mm  
**400**, 500 mm  
6/8 mm  
**6**, 10, 12 tons (**60**, 100, 120 kN)  
RAL 9005 two-component resin-based paint

\*The product may be adapted according to customer requirements



Standard leveller with a dock

Operating range (acc. to EN 1398)					
	AMTRK-PRO				
Nominal length	2000	2500	3000	3500	4000
Operating range	225	290	350	410	470
above the level	330	350	340	335	330



## Types of lips

The AMTRK PRO dock leveller lip is made of high quality, 12 mm thick riffled sheet metal and has a reliable hinge system that works even when heavily soiled.

In addition, the lip has a 40 mm chamfer which prevents damage to the wheels of loading devices.

### Straight lip

This standard version is designed to fit most types of vehicles with the most common sizes.

Product Features:

- ▶ slip protection,
- ▶ improved forklift traction,
- ▶ ergonomic and safe loading process.



### Bevelled lip

The symmetrically cut lip facilitates loading and reduces the risk of damage to the docked vehicle.



### Divided lip

This solution consists of the main part and two edge segments with a maximum width of 250 mm.



## Control

- ▶ the actuator system of the leveller consists of a set of cylinders for lifting the platform and swinging the lip,
- ▶ the lip is lifted with a separate actuator, separately powered from the hydraulic unit,
- ▶ closed hydraulic system,
- ▶ stepless adjustment to the vehicle height during loading,
- ▶ standard one-button control (optional automatic or gate-dock), protection in the event of power failure or use of the emergency switch, protection in the event of a power failure or the use of an emergency switch, the leveller is protected against descending, it will stop and maintain its current position,
- ▶ it is possible to couple the leveller control system with the door control system.

Tank capacity  
Working pressure  
Engine power  
Supply voltage  
Control voltage  
Protection type  
Working medium

7 dm<sup>3</sup>  
130 bar  
1,1 kW  
230/400 VAC  
24 V DC  
IP54  
Mobil DTE 10 Excel 15

## AMTRK-PRO control



STANDARD



AUTO -RETURN



GATE-LEVELLER



## Standard equipment

- ▶ electrical system,
- ▶ hydraulic system,
- ▶ control box,
- ▶ triple divided lip,
- ▶ platform painted RAL 9005,
- ▶ CE conformity declaration.

## Additional options

- ▶ loading ramp made in other dimensions and capacities,
- ▶ 500 mm long swing lip,
- ▶ an additional anti-slip layer for the leveller's driving surfaces,
- ▶ leveller structural elements painted in any RAL color or hot-dip galvanized,
- ▶ leveller structure and all hydraulic elements made of acid-resistant steel,
- ▶ the shape of the swinging lip different from standard,
- ▶ normal or reinforced impact-absorbing buffers,
- ▶ leveller in thermally insulated version,
- ▶ sealing in the case of an opening under the vehicle's tail lift,
- ▶ powder coating.

## Safety devices

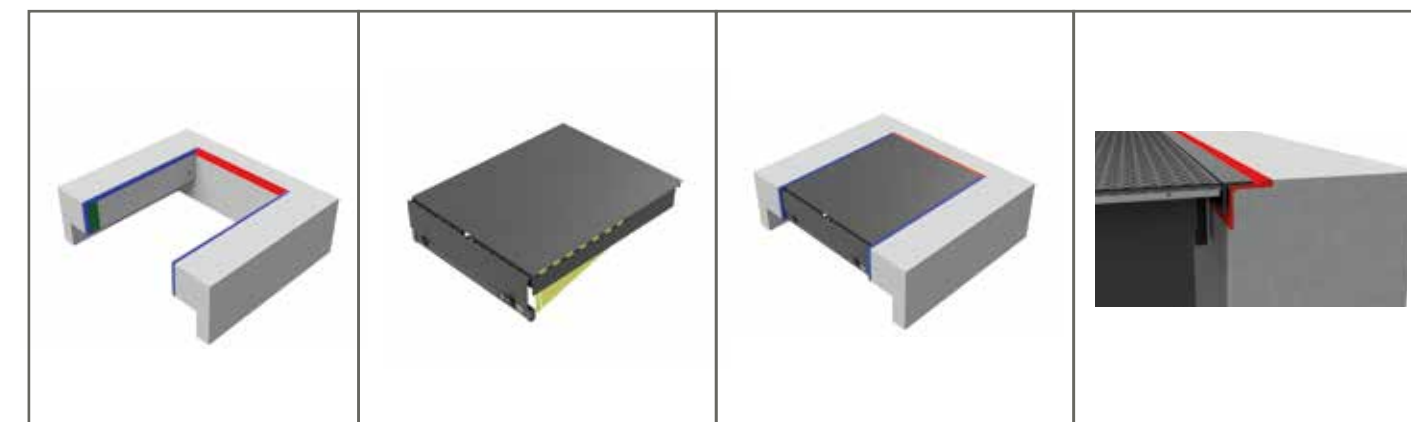
- ▶ protection in case of power failure or use of the emergency stop (will stop in the current position),
- ▶ black and yellow side marking of dangerous places,
- ▶ foot protection along the entire length of the platform.

## Dock frame system

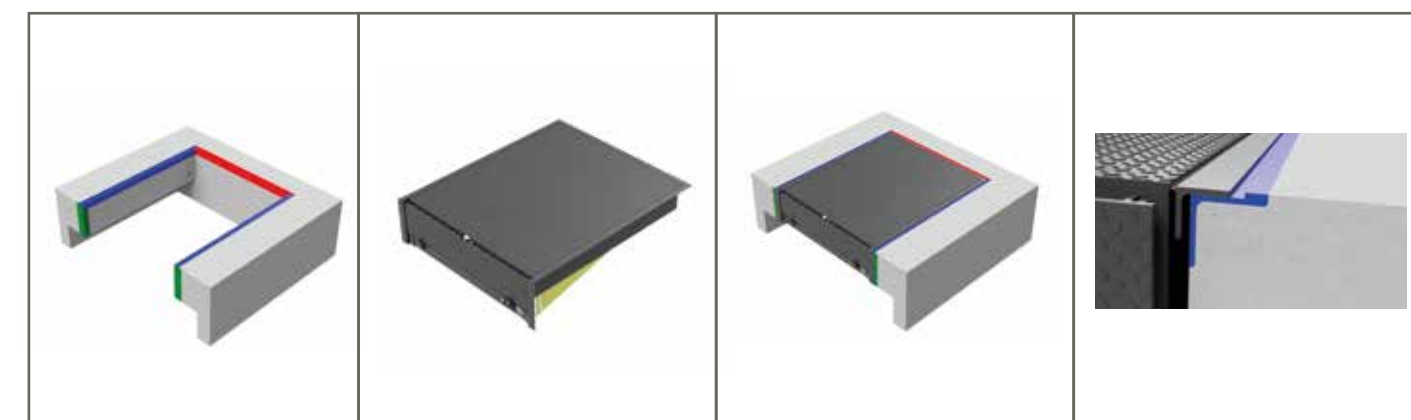
The main function of the dock frame is to connect the platform to the dock. The dock frame is directly cast in concrete.

## Dock pans (leveller installation)

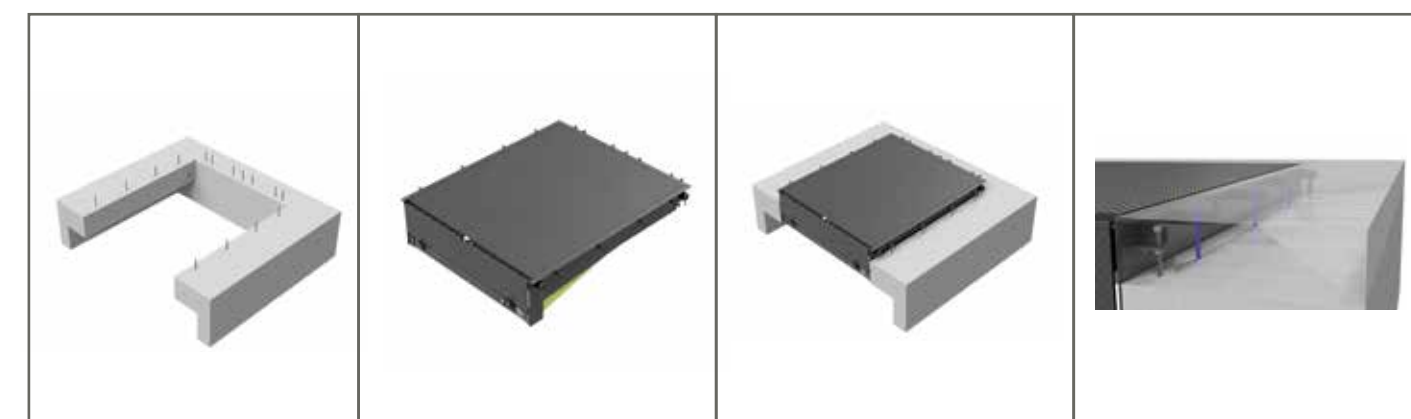
### Standard



### Frame



### Frame before concreting





# AMTRV-PRO

## Telescopic lip dock leveller



More information  
on the product page

### Purpose

The telescopic lip dock leveller is designed for loading/unloading pallets with a forklift on trailer trucks. Its characteristic feature is a retractable lip guided on bearing rollers. The dock is CE certified. The platform is made of rifled steel sheet of 8/10 mm thickness.

It is integrated with the service support and connected to the back of the leveller frame with hinges. An anti slip surface and foot protection along the entire length of the platform ensures user's full safety. Different methods of placing bridges in the foundation are possible.

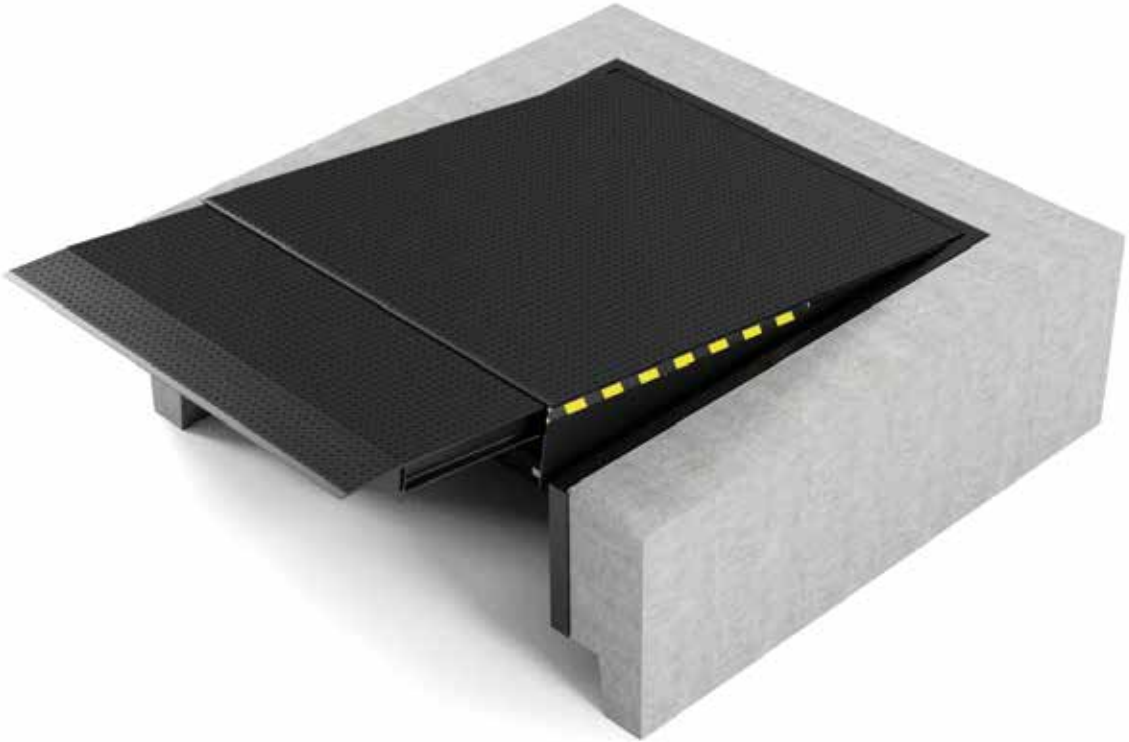


## Standard technical parameters\*

Use  
Nominal lengths  
Nominal widths  
Construction heights  
Nominal lip lengths  
Sheet metal thickness  
Nominal load capacity  
Standard color

Loading systems  
2000, **2500**, 3000, 3500, 4000 mm  
**2000**, 2250 mm  
710 mm  
**500**, 1000 mm  
8/10 mm  
**6**, 10, 12 tons (**60**, 100, 120 kN)  
RAL 9005 two-component resin-based paint

\*The product may be adapted according to customer requirements.



Telescopic lip dock leveller

Operating range (acc. to EN 1398)										
	AMTRV-PRO (J500)					AMTRV-PRO (J1000)				
Nominal length	2000	2500	3000	3500	4000	2000	2500	3000	3500	4000
Operating range	250	280	235	210	195	-	335	275	245	220
above the level	345	410	390	365	350	-	470	440	405	385



## Types of telescopic lips

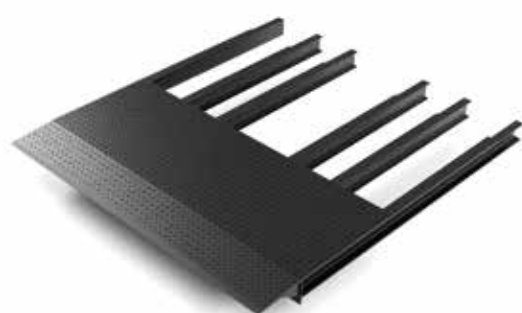
The AMTRV PRO platform lip is made of high quality 12 mm thick riffled steel sheet, equipped with a robust, reliable and maintenance free extending mechanism.

### Straight lip

This standard version is designed to fit most types of vehicles with the most common sizes.

Product Features:

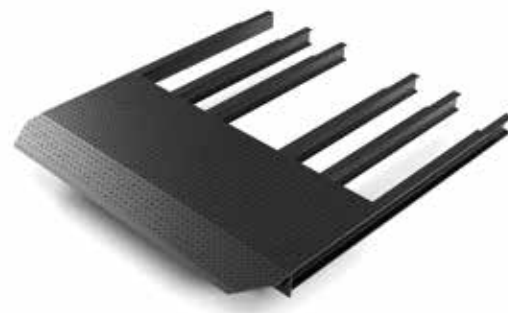
- ▶ slip protection,
- ▶ improved forklift traction,
- ▶ ergonomic and safe loading process.



In addition, the lip is beveled by 40 mm to prevent damage to the wheels of the loading equipment.

### Bevelled lip

The symmetrically cut lip facilitates loading and reduces the risk of damage to the docked vehicle.



## Control

- ▶ the actuator system of the leveller consists of a set of cylinders for lifting the platform and extending the lip,
- ▶ the lip is extended with a separate actuator,
- ▶ separately powered from the hydraulic unit,
- ▶ closed hydraulic system,
- ▶ stepless adjustment to the vehicle height during loading, one-button control,
- ▶ protection in case of power failure or pressing of the emergency button, the platform is protected against dropping down and will stop in its current position,
- ▶ it is possible to couple the leveller control system with the door control system.

Tank capacity  
Working pressure  
Engine power  
Supply voltage  
Control voltage  
Protection type  
Working medium

7 dm<sup>3</sup>  
200 bar  
1,5 kW  
230/400 VAC  
24 V DC  
IP54  
Mobil DTE 10 Excel 15

## AMTRV-PRO auto control



AMTRV-PRO AUTO



## Standard equipment

- ▶ electrical system,
- ▶ hydraulic system,
- ▶ control box,
- ▶ Telescopic lip in straight version,
- ▶ platform painted RAL 9005,
- ▶ CE conformity declaration.

## Additional options

- ▶ loading ramp made in other dimensions and capacities,
- ▶ 500 mm long swing lip,
- ▶ an additional anti-slip layer for the leveller's driving surfaces,
- ▶ leveller structural elements painted in any RAL color or hot-dip galvanized,
- ▶ leveller structure and all hydraulic elements made of acid-resistant steel,
- ▶ the shape of the swinging lip different from standard,
- ▶ normal or reinforced impact-absorbing buffers,
- ▶ leveller in thermally insulated version,
- ▶ sealing in the case of an opening under the vehicle's tail lift,
- ▶ powder coating.

## Safety devices

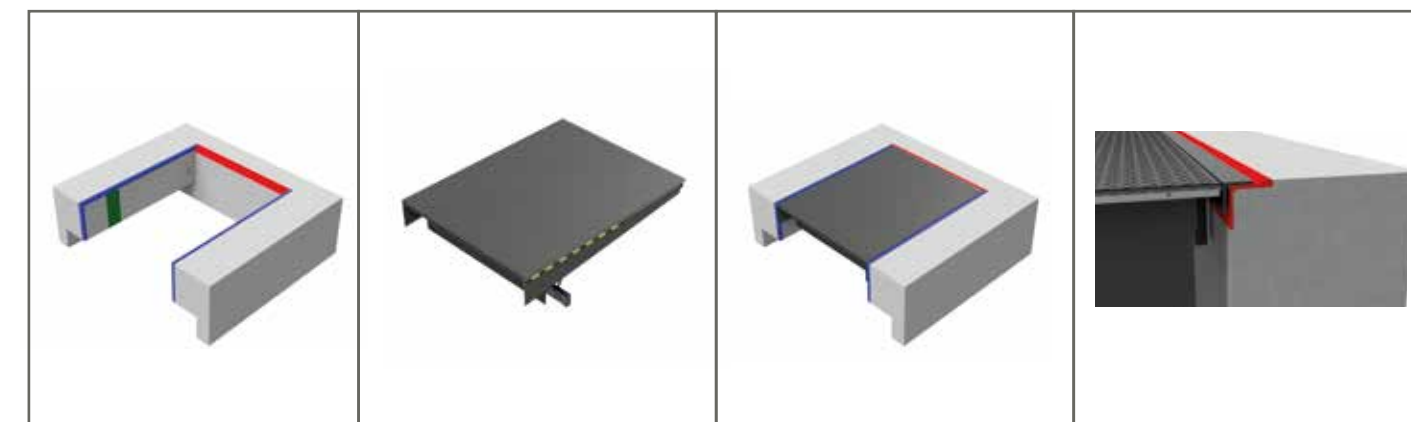
- ▶ protection in case of power failure or pressing of the emergency button (the platform will stop in its current position),
- ▶ black and yellow side marking of dangerous places,
- ▶ foot protection along the entire length of the platform.

## Dock frame system

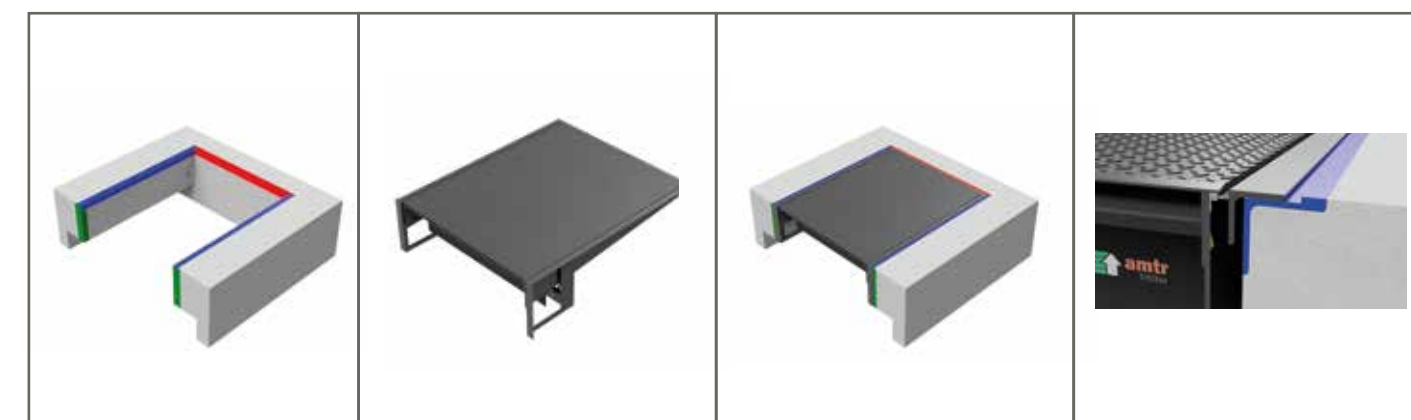
The main function of the dock frame is to connect the platform to the dock. The dock frame is directly cast in concrete.

## Dock pans (leveller installation)

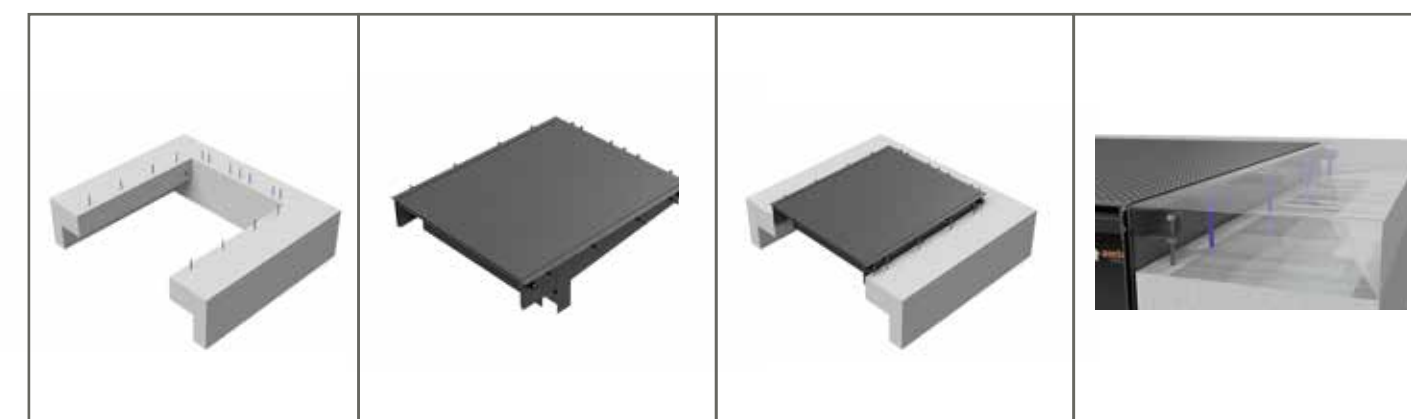
### Standard



### Frame



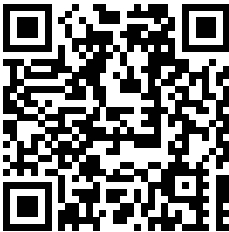
### Frame before concreting





# AMTRV-CD

Hydraulic loading platform  
with variable load capacity

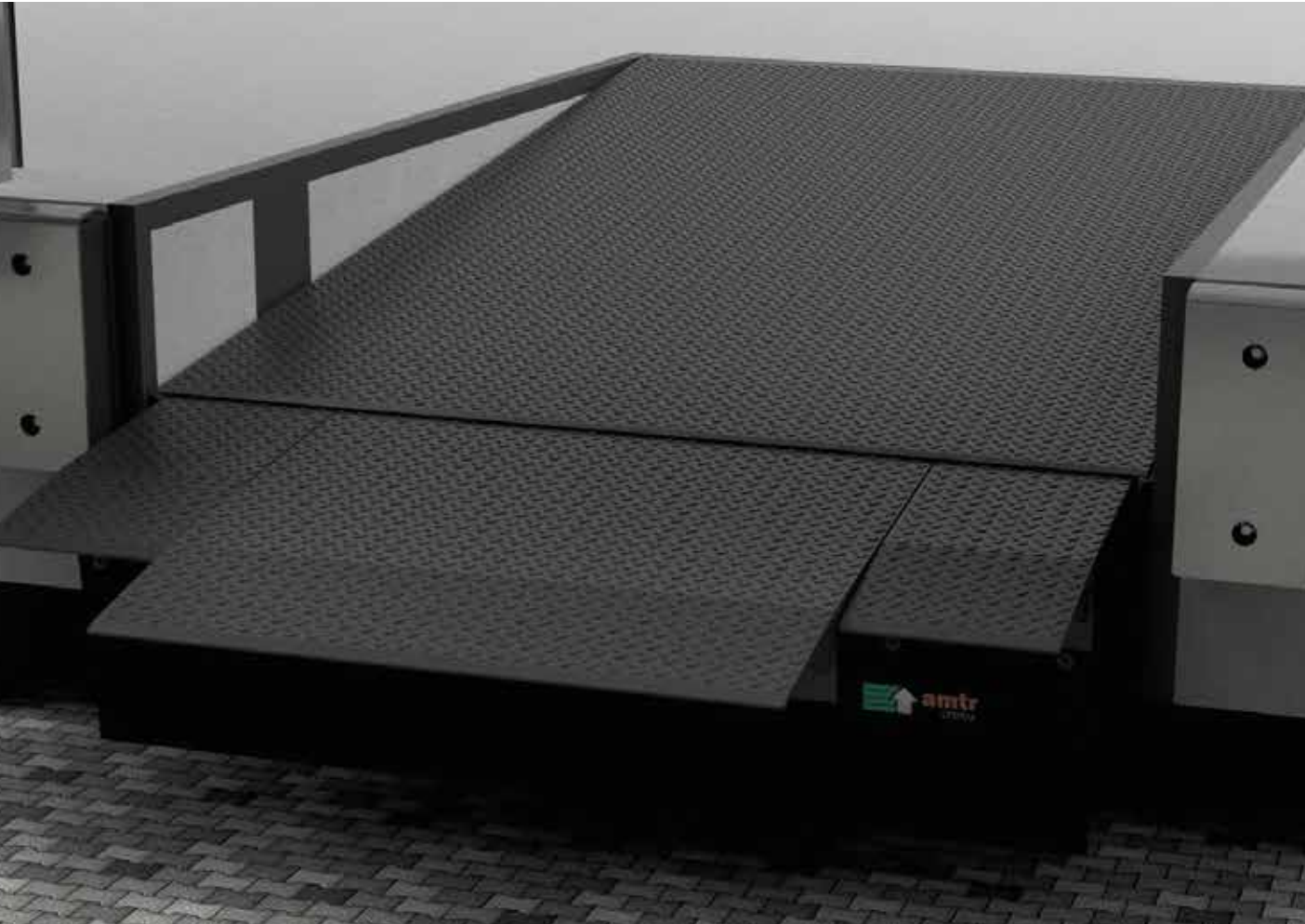


More information  
on the product page

## Purpose

The function of the hydraulic dock leveller is to connect the building to the vehicle trailer by bridging the difference in level between the two. The CD system is equipped with a telescoping, divided lip. Such a lip is designed to handle a wide range of vehicles, differing in design and dimensions of the cargo area. Using the switch on the control panel, the operator selects the type of vehicle and the appropriate platform mode.

For Vans (with smaller width of the loading area) the telescopic lip is reduced to 1200mm. The load capacity in this case equals 20 kN. When the full width of the extension is in use, the load capacity of the platform is 60 kN.



## Standard technical parameters\*

Application  
Nominal lengths  
Nominal widths  
Construction heights  
Nominal lip lengths  
Sheet metal thickness  
Load capacity  
Standard colors

Loading systems  
**3000**, 3500, 4000 mm  
**2000** mm  
800 mm  
1000 mm  
8/10 mm  
2/6 ton (20/60 kN)

RAL 9005 two-component resin-based paint

\*The product may be adapted according to customer requirements.  
The maximum platform inclination according to EN 1398 is 12.5%.



## Hydraulic platform

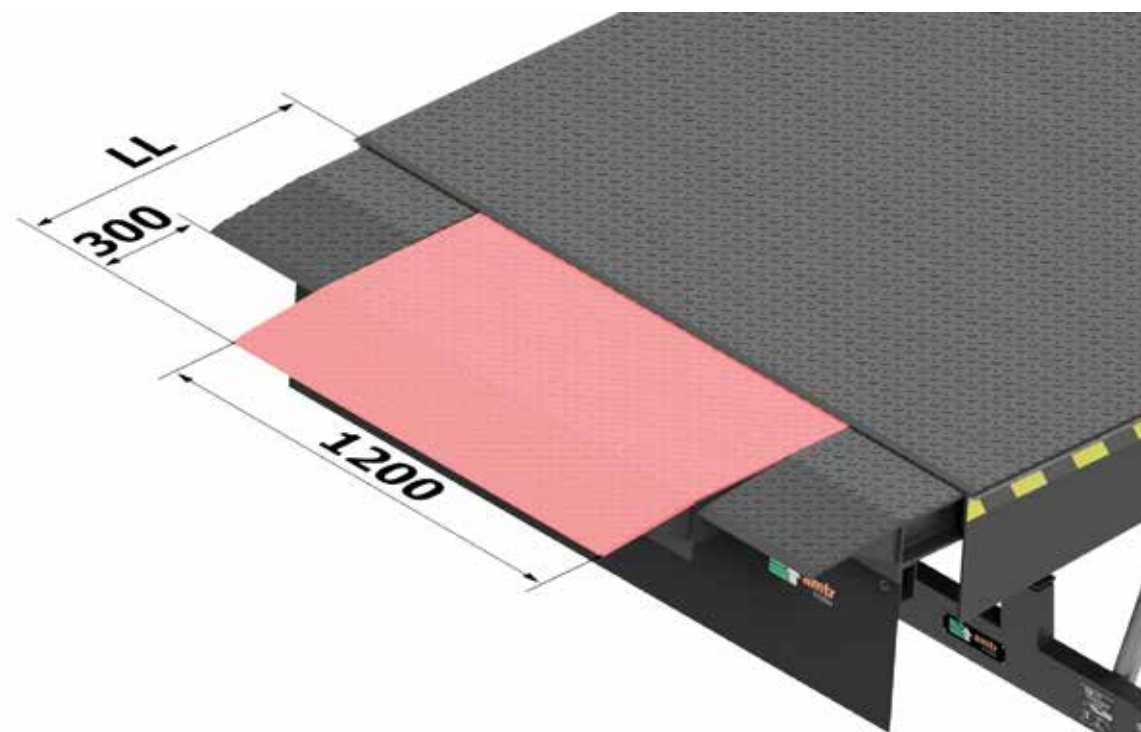
Operating range (acc. to EN 1398)			
	AMTRV-CD		
Nominal length	3000	3500	4000
Construction height	800	900	950
Working range up	415	395	455
Working range down	530	575	505

## Types of lips

The AMTRV CD dock leveller telescopic lip is made of high quality riffled sheet metal 12 mm (12/14) thick and is equipped with a special, durable, dirt resistant, and maintenance free extension mechanism.

A system of straight, high durability slides ensures its quiet and trouble free operation. The AMTRV CD leveller lip has a segmented design, allowing it to operate with vehicles of different types, depending on the mode of operation selected.

### Telescopic lip



## Control

- ▶ the actuator system consists of a set of cylinders that allows independent extension of the middle section of the lip,
- ▶ the lip is extended with a separate actuator,
- ▶ separately powered from the hydraulic unit,
- ▶ closed hydraulic system,
- ▶ stepless adjustment to the vehicle height during loading,
- ▶ four-button control with AMTRV-CD,
- ▶ intuitive control with the compulsory selection of 20 kN or 60 kN operating mode and a button for auto-return,
- ▶ it is possible to couple the ramp control to the door control,
- ▶ protection in case of power failure or pressing of the emergency button (the platform will stop in its current position).

Tank capacity  
Working pressure  
Engine power  
Supply voltage  
Control voltage  
Protection type  
Working medium

7 dm<sup>3</sup>  
150 bar  
1,5 kW  
230/400 VAC  
24 V DC  
IP54  
Mobil DTE 10 Excel 15

### AMTRV-CD control



AMTRV-CD CONTROL



## Standard equipment

- ▶ electrical system,
- ▶ hydraulic system,
- ▶ control box,
- ▶ triple divided lip,
- ▶ platform painted RAL 9005,
- ▶ CE conformity declaration.

## Additional options

- ▶ loading platform made in different dimensions,
- ▶ additional anti-slip layer of ramp driving elements,
- ▶ leveller structural elements painted in any RAL color or hot-dip galvanized,
- ▶ normal or reinforced bumpers to absorb impacts,
- ▶ sealing in the case of an opening under the vehicle's tail lift,
- ▶ powder coating.

## Safety devices

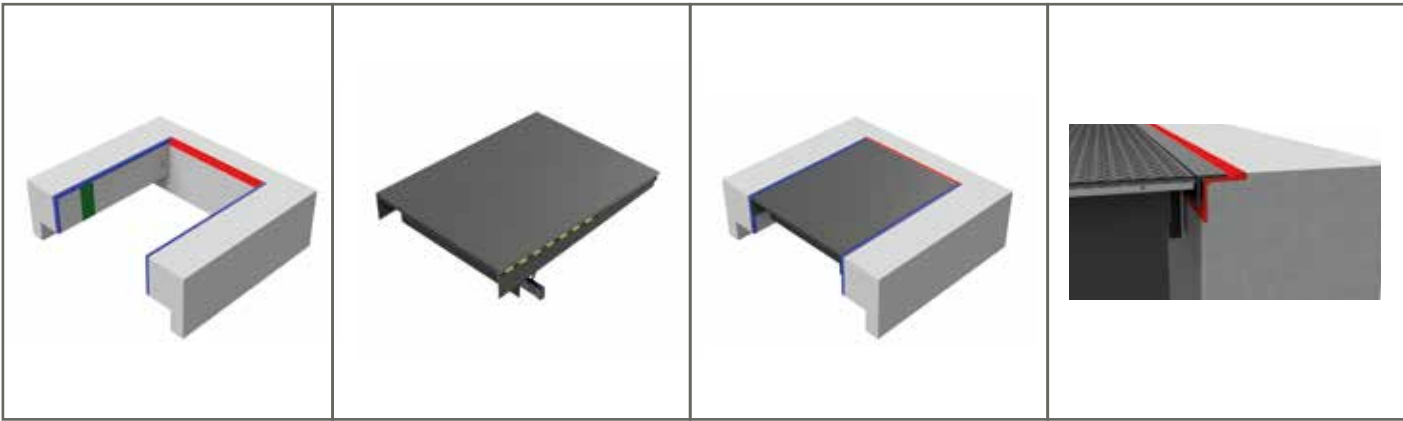
- ▶ protection in case of power failure or pressing of the emergency button (the platform will stop in its current position),
- ▶ black and yellow side marking of dangerous places,
- ▶ foot protection along the entire length of the platform.

## Dock frame system

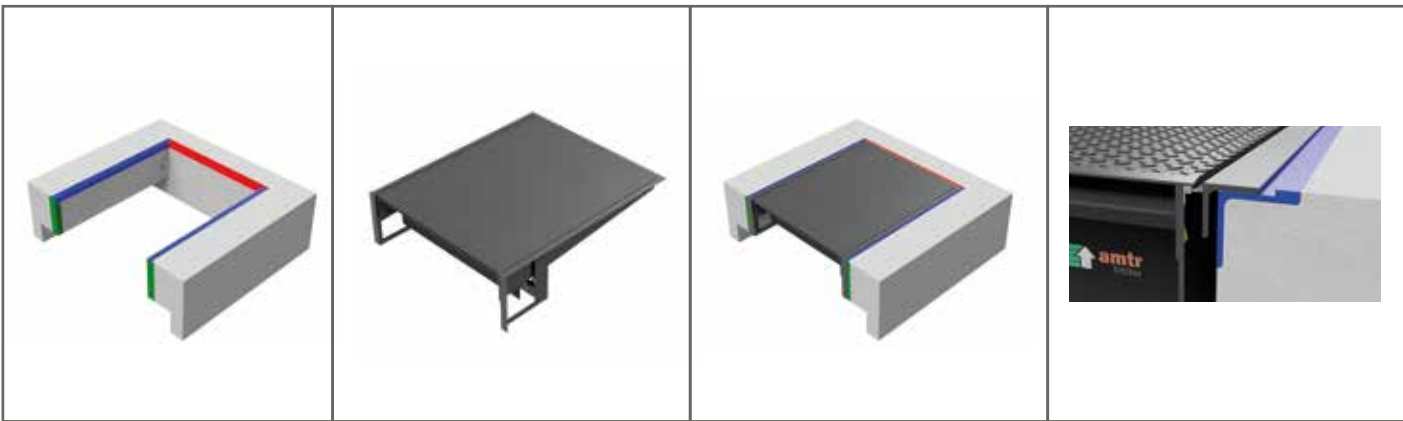
The main function of the dock frame is to connect the platform to the dock. The dock frame is directly cast in concrete.

## Dock pans (leveller installation)

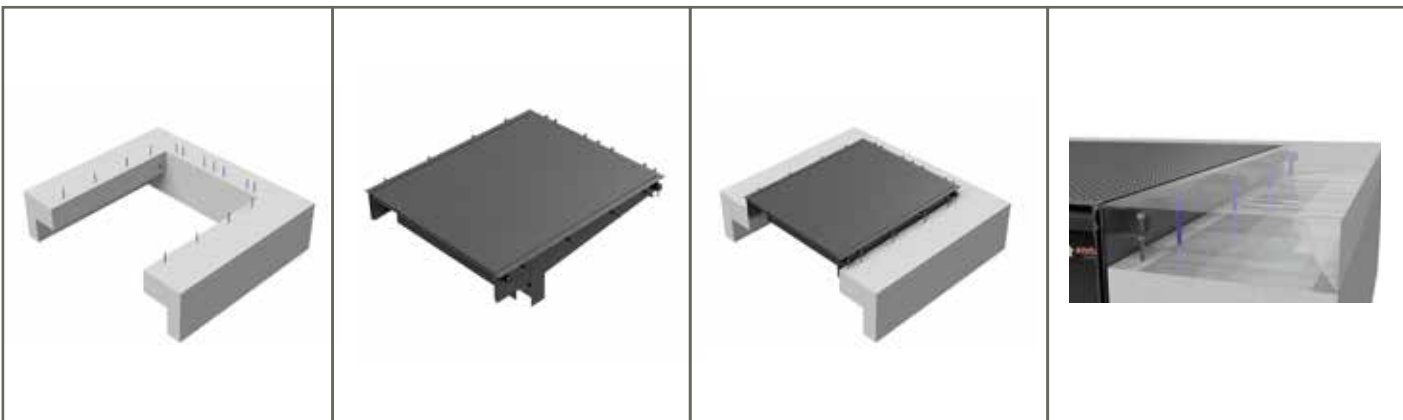
### Standard



### Frame



### Frame before concreting



# AMTRV-ESS

Loading docks with energy saving system

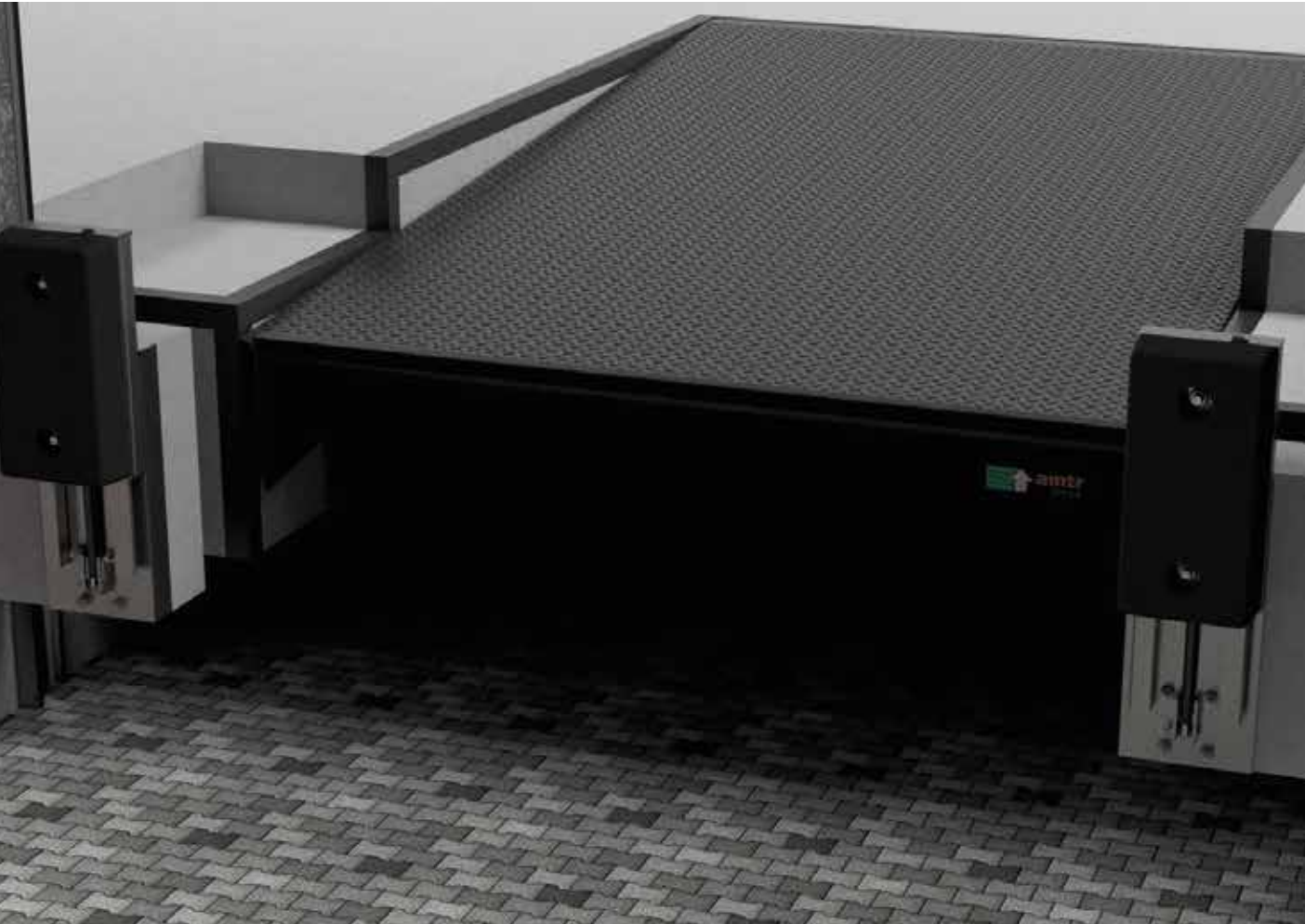
## Purpose

The ESS system is the ideal solution to ensure safety for the docking process as well as for the goods and the driver, who does not have to leave the vehicle directly in front of the dock to open the rear of the trailer. An additional advantage of the system is a significant reduction in costs associated with the loss of energy needed to heat or cool warehouses during loading, since the door opens after the vehicle is docked and sealed.

The AMTRV ESS dock leveller is not only used for internal loading docks, but also for specially developed external loading bays with doors and seals , ideally suited for use in freezer warehouses. When at rest, the platform is lowered to level 0, allowing the doors of the truck to be opened after docking.



More information  
on the product page

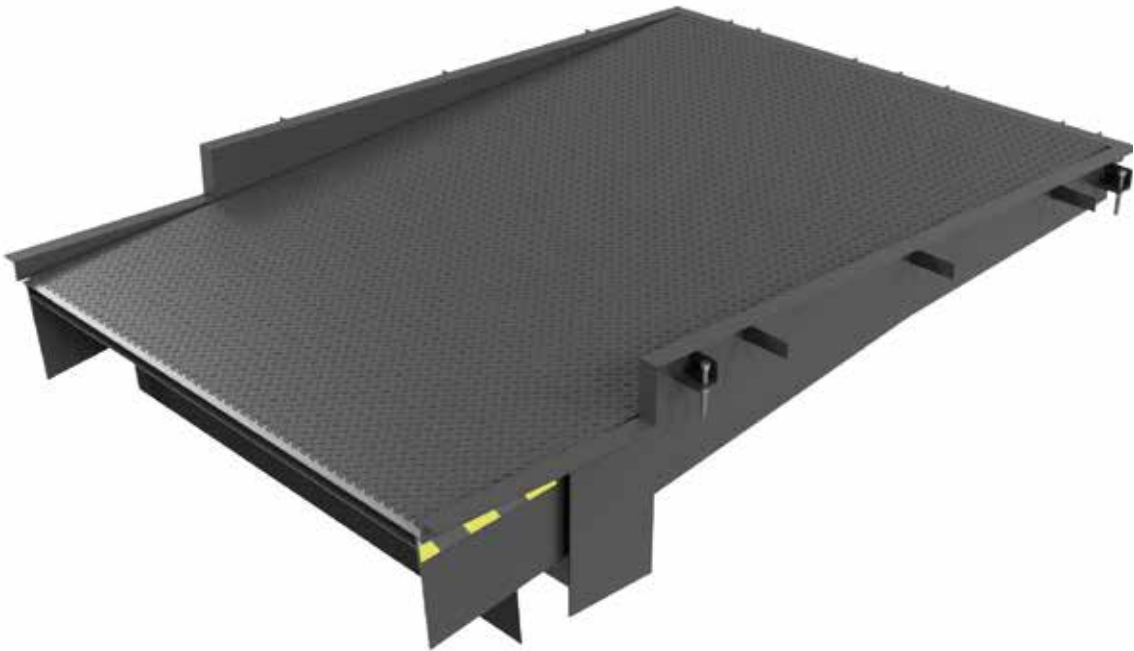


## Standard technical parameters\*

Application  
Nominal lengths  
Nominal widths  
Construction heights  
Nominal lip lengths  
Sheet metal thickness  
Load capacity  
Standard colors

Loading systems  
2000, **2500**, 3000, 3500, 4000 mm  
**2000**, 2250 mm  
710 mm  
1000 mm  
8/10 mm  
**6**, 10, 12 ton (**60**, 100, 120 kN)  
RAL 9005 two-component resin-based paint

\*The product may be adapted according to customer requirements.  
The maximum platform inclination according to EN 1398 is 12.5%.



Loading docks with energy-saving system

Operating range (acc. to EN 1398)										
	AMTRV-ESS (J500)					AMTRV-ESS (J1000)				
Nominal length	2000	2500	3000	3500	4000	2000	2500	3000	3500	4000
Working range above the level	250	280	235	210	195	-	335	275	245	220
Working range below the level	345	410	390	365	350	-	470	440	405	385



## Types of lip

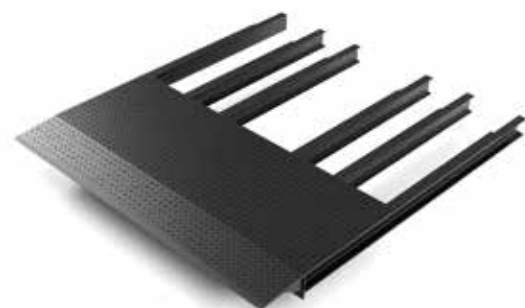
The AMTRV-ESS leveller lip is manufactured from 12 mm (12/14 mm) high quality riffled metal sheet with a robust, reliable and maintenance-free extending mechanism. The extension lip of the platform can be made in two different shapes: a straight lip and a diagonal lip.

### Straight lip

This standard version is designed to fit most types of vehicles with the most common sizes.

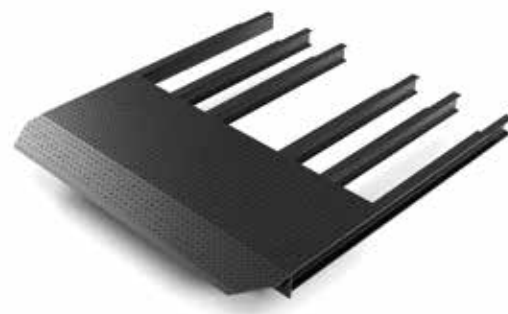
Features:

- ▶ the lip is made of 12 mm sheet metal,
- ▶ anti-slip surface,
- ▶ increased forklift traction,
- ▶ ergonomic and safe loading process.



### Bevelled lip

The symmetrically cut lip facilitates loading and reduces the risk of damage to the docked vehicle.



## Control

- ▶ the actuator system consists of a set of cylinders that allows independent extension of the lip,
- ▶ the lip is extended with a separate actuator,
- ▶ separately powered from the hydraulic unit,
- ▶ closed hydraulic system,
- ▶ stepless adjustment to the vehicle height during loading,
- ▶ the intuitive AMTRV-ESS control unit with a push button for auto-return can be combined with a door control unit.

Tank capacity  
Working pressure  
Engine power  
Supply voltage  
Control voltage  
Protection type  
Working medium

2,5 dm<sup>3</sup>  
140 bar  
0,75 kW  
230/400 VAC  
24 V DC  
IP54  
Mobil DTE 10 Excel 15

## AMTRV-ESS control



AMTRV-ESS CONTROL

## Standard equipment

- ▶ electrical system,
- ▶ hydraulic system,
- ▶ control box,
- ▶ triple divided lip,
- ▶ platform painted RAL 9005,
- ▶ CE conformity declaration.

## Additional options

- ▶ loading platform made in different dimensions,
- ▶ additional anti-slip layer of ramp driving elements,
- ▶ leveller structural elements painted in any RAL color or hot-dip galvanized,
- ▶ standard or reinforced bumpers with non-standard dimensions to absorb impacts,
- ▶ sealing in the event of an opening for a tail lift truck,
- ▶ powder coating.

## Safety devices

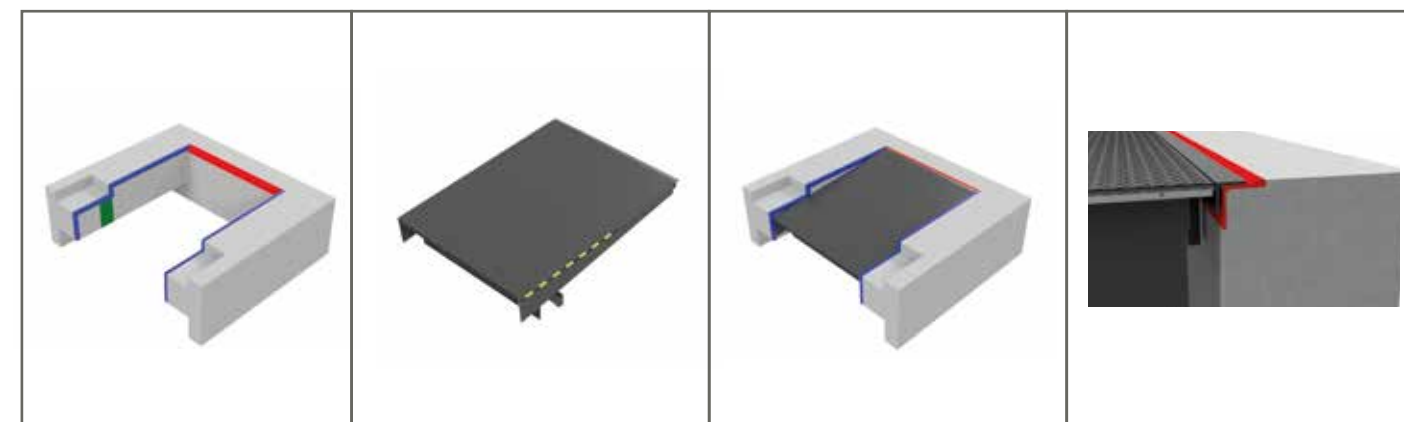
- ▶ protection in case of power failure or pressing of the emergency button (the platform will stop in its current position),
- ▶ black and yellow side marking of dangerous places,
- ▶ foot protection along the entire length of the platform.

## Dock frame system

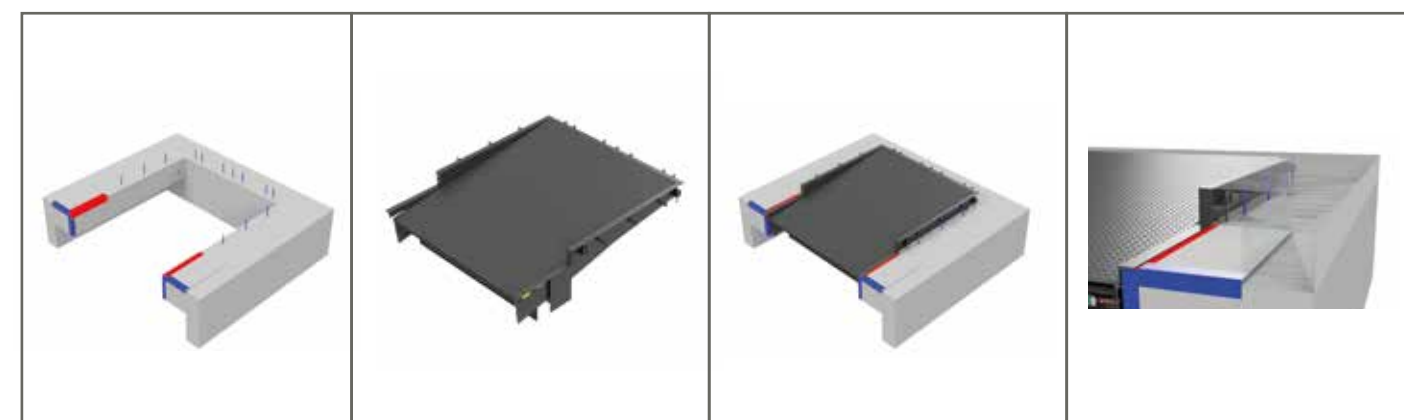
The main function of the dock frame is to connect the platform to the dock. The dock frame is directly cast in concrete.

## Dock pans (leveller installation)

### Standard



### Frame before concreting

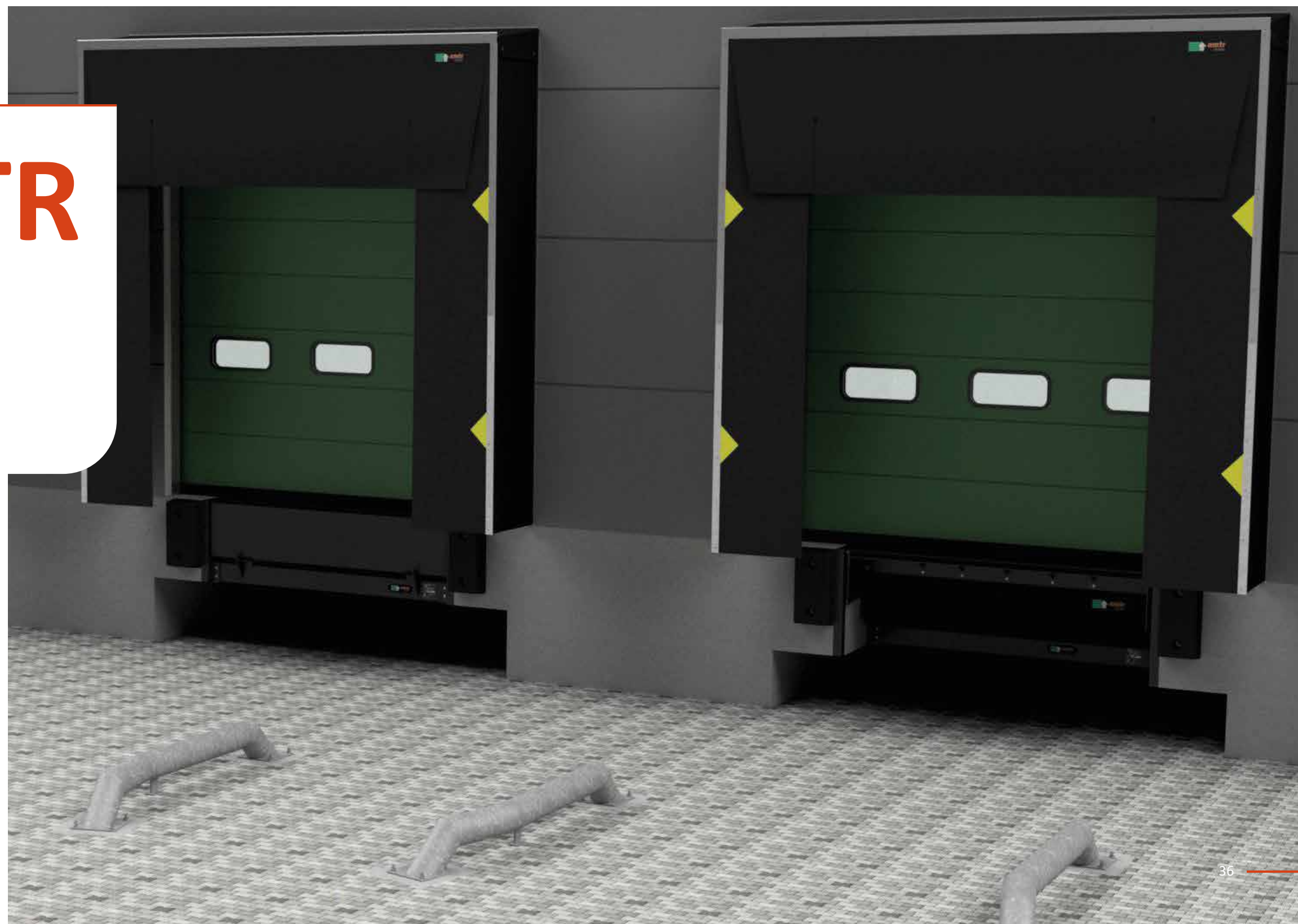




# AMTR

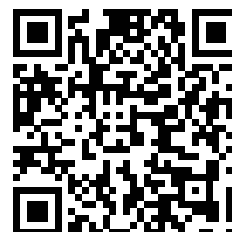
Loading  
docks  
Seals

- ▶ Thermal protection
- ▶ Easy installation
- ▶ Durability



# AMTR-U

## Standard seal



More information  
on the product page

### Purpose

The AMTR U mechanical seal is designed for sealing a truck trailer at a loading bay. Due to the integration of the dock leveller with the loading bay, no additional element is required to protect the loaded goods.

The primary task of the seal is to reduce the impact of adverse weather conditions on warehouse operations. Model AMTR- PRO has universal dimensions for truck trailers. It is possible to design seals with non standard dimensions.



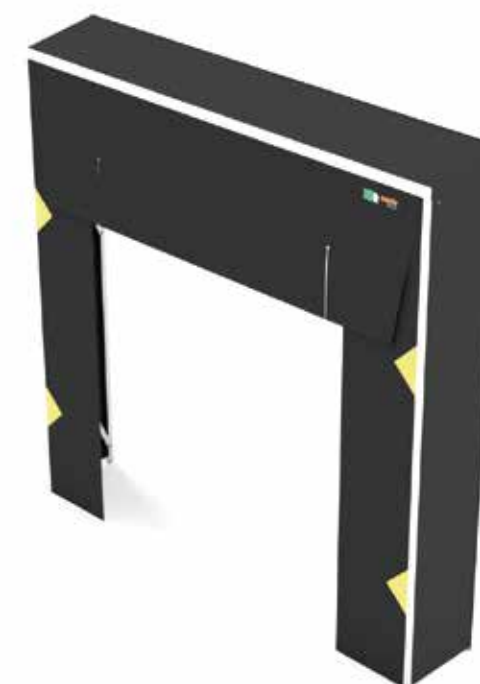
## Standard technical parameters\*

Width  
Height  
Depth  
Top flap  
Side flap  
Standard color

3400 mm  
3400 mm  
600 mm  
975 - 1000 mm  
600 - 675 mm

RAL 9005 two-component resin-based paint

\*The product may be adapted according to customer requirements.



Standard seal

### Features

- ▶ the front tarpaulins (top and side) are made of 3 mm thick three layer PVC, resistant to weather and mechanical damage,
- ▶ the supporting structure of the seal consists of two frames articulated together by means of four arms and fabric,
- ▶ the supporting structure is made of light,
- ▶ hot dip galvanized steel profiles,
- ▶ the edges of the seals are protected with aluminum profiles
- ▶ the whole protected with a sloping roof that rises up under pressure from the front,
- ▶ the seal is marked with a warning yellow color on the front tarpaulins.

### Gate seal

The gate seal is a hanging galvanized steel structure encased with fabric. The sealing elements are approx. 3 mm thick, additionally reinforced with several layers of polyester fiber and covered with PVC on both sides.



# AMTR-P

## Inflatable seal



More information  
on the product page

### Purpose

The AMTR P inflatable dock seal is the most effective and durable of all dock seals. The construction of the air pockets harmonica shaped to create an optimal seal. Therefore, this type of sealing is particularly suitable for

large temperature differences between inside and outside, for example in air conditioned or refrigerated storage areas. It is possible to design seals with non standard dimensions.



## Standard technical parameters\*

Application  
Height  
Width  
Construction depth  
Installation height  
Cushion material  
Side width of curtains (inflated)  
Height of top curtain (inflated)  
Inflation time  
Deflation time

Loading systems  
3700 mm  
3500 mm  
800 mm  
4700 mm  
670 gr/m2  
600 mm  
1000 mm  
ok.30 seconds  
ok.40 seconds

\*The product may be adapted according to customer requirements.



Inflatable seal

### Features

- ▶ The AMTR-P inflatable seal is made of durable and weather-resistant components:
- ▶ the air pockets are made of polyester interlacing covered with PVC on both sides,
- ▶ flexible and extremely stable protective belts, made of 3500 gr/m2 double-layer interlaced polyester,
- ▶ the seal is covered on both sides with abrasion-resistant, anti-static, hard PVC coating,
- ▶ the front of the seal is made of galvanized steel, finished with a synthetic coating in grey (RAL 7042),
- ▶ reinforcement profiles are made of anodized aluminum,
- ▶ the seal is equipped with hot-dip galvanized consoles to ensure complete safety.

### Control

Both the tubular and blower seal motor are operated with one button. When a truck is docking for unloading, the two motors seal the space between the open gate and the vehicle within 30 seconds.



### Drive

The upper seal is extended through the shaft of the tube motor. During expansion, a blower motor ensures that the air pockets are filled with air.

Maximum capacity  
Maximum compression  
Noise  
Power consumption  
Rotation speed  
voltage  
Weight

610 m3/h  
500 Pa  
70 dB  
240 W 50 Hz  
2100 [1/min]  
230 V  
4 kg

# AMTR

Loading bridges  
and loading  
platforms

- ▶ Mobility Work
- ▶ Comfort
- ▶ Quick loading





# AMTR-I

## Loading plate - mechanical bridge

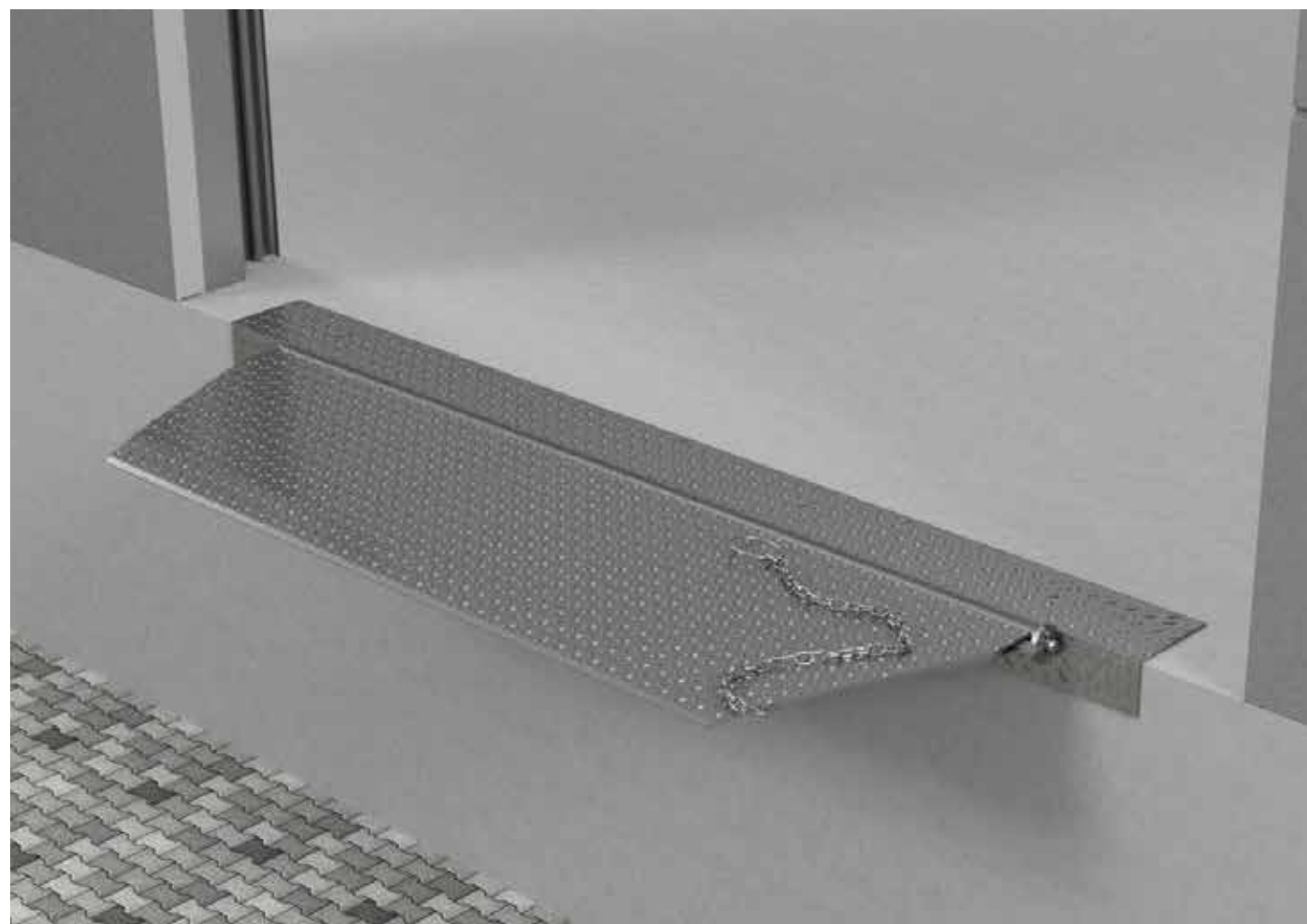


More information  
on the product page

### Purpose

The AMTR I mechanical bridge is designed for use in all types of industrial facilities where an additional docking system is required.

It is primarily recommended for logistics facilities with continuous flow of goods.

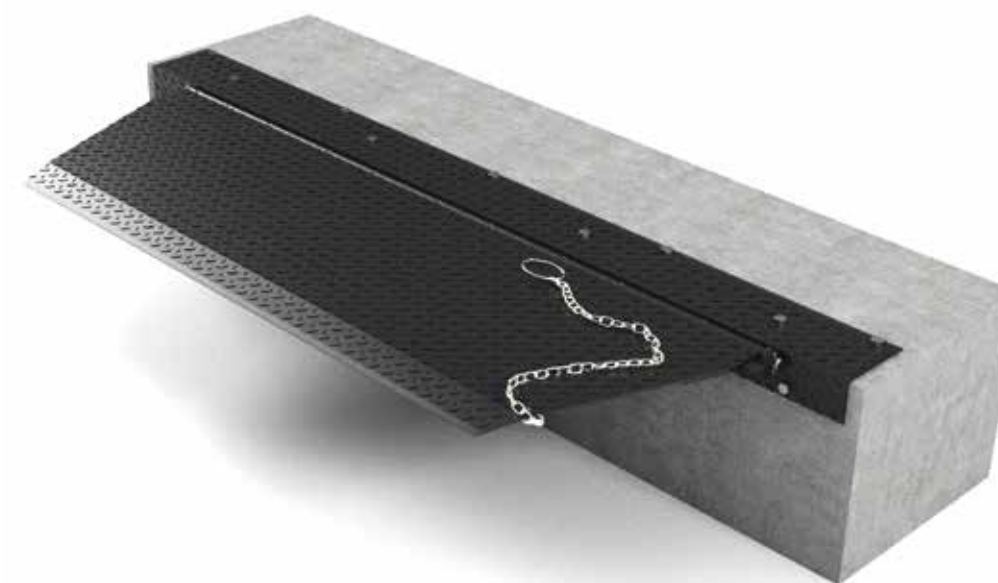


## Standard technical parameters\*

Width  
Height  
Standard color

1200-2600 mm  
550-650 mm  
Zinc-plated

\*The product may be adapted according to customer requirements.



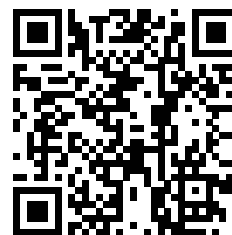
Loading plate

## Features

- ▶ mechanical bridge is made of galvanized steel elements,
- ▶ footbridge is 6 7 kN,
- ▶ the platform is opened/closed by driving the platform plate with a lever,
- ▶ the operation range of the footbridge is restricted by appropriate safeguard s which protect the bridge plate against breaking,
- ▶ a supporting steel angle with a vertical flap is fixed to the end of the platform (edge of dock frame),
- ▶ steel plates of the bridge are protected with hot dip zinc coating.

# AMTR-J

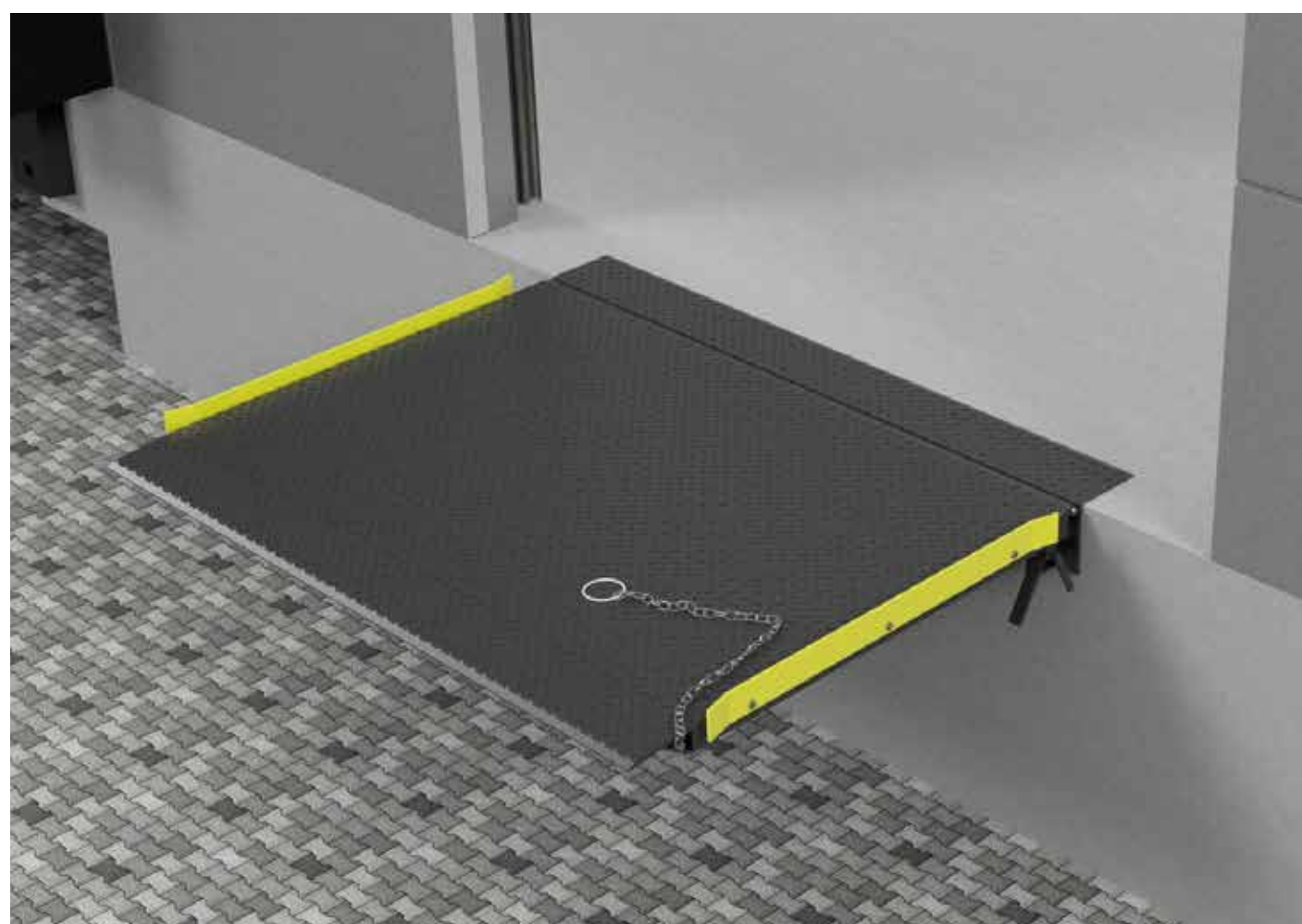
## Loading plate - mechanical bridge



More information  
on the product page

### Purpose

The AMTR J mechanical bridge is designed for use in all types of industrial facilities where an additional docking system is required.



### Standard technical parameters\*

AMTR-J 1000x1500  
AMTR-J 1500x1000  
AMTR-J 1500x1200  
AMTR-J 1500x1500  
AMTR-J 2000x1200  
AMTR-J 2000x1500  
Standard color

Width 1000 mm | Length 1500 mm  
Width 1500 mm | Length 1000 mm  
Width 1500 mm | Length 1200 mm  
Width 1500 mm | Length 1500 mm  
Width 2000 mm | Length 1200 mm  
Width 2000 mm | Length 1500 mm  
RAL 9005 two-component resin-based paint

\*The product may be adapted according to customer requirements.



Loading plate

### Features

- ▶ the crossing plate is made of steel sheet,
- ▶ the frame which is the backbone of the bridge is made of steel profiles,
- ▶ opening/closing of the platform is done by lever action, the platform's working range is blocked by safety devices, which protects the bridge against breaking,
- ▶ the weight of the bridge is balanced by a spring mechanism, which ensures that the bridge is launched with minimum energy consumption and prevents rapid descent.



# AMTR

## Modular loading houses

- ▶ Extra protection
- ▶ Precision
- ▶ Ergonomics



# AMTR-D

## Modular loading houses



More information  
on the product page

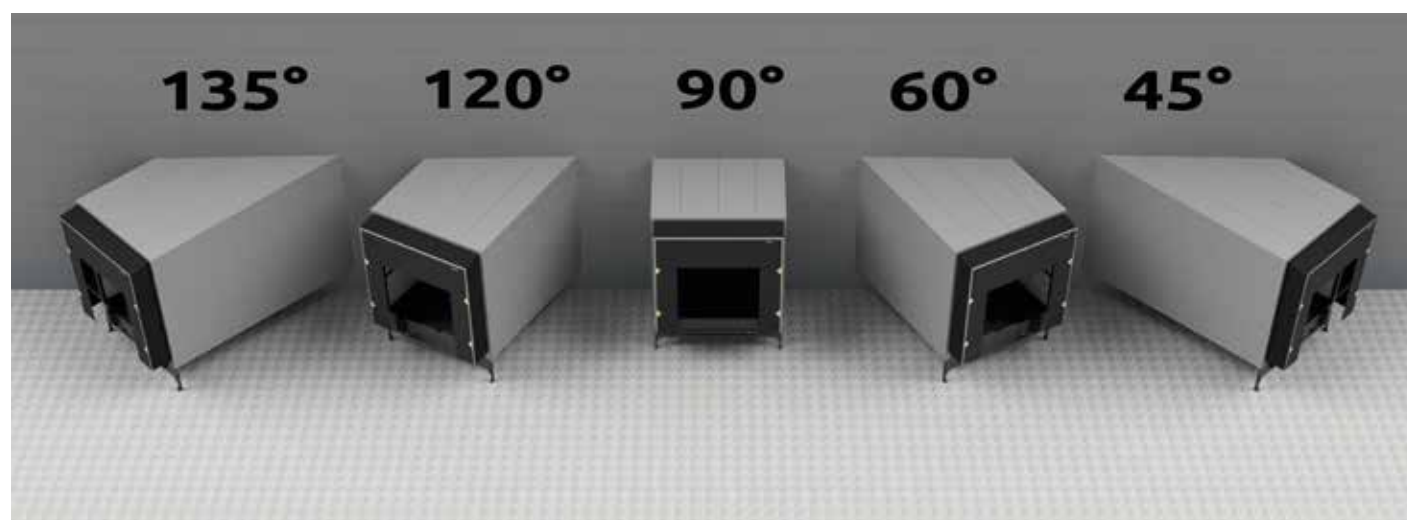
### Purpose

AMTR loading houses are an economical and ergonomic alternative to conventional loading bays inside a warehouse. This versatile solution can be used with all types of gates and seals. It is possible to adapt the loading house to different types of thermal insulation of the loading

house, serial arrangement of several loading houses with common structural elements, or angled to the building. The loading houses are designed to equip new developments as well as retrofit existing facilities.

### Features

AMTR-D PRO loading houses are an economical and ergonomic alternative to conventional loading bays inside a warehouse. The structure is assembled by bolting together ready made components, without welding. This versatile solution is applicable to all types of loading bridges and inflatable seals. It is possible to adapt the loading house to different types of thermal insulation of the loading house, to line up several loading houses with common structural elements, or to install at an angle to the building. The loading houses are designed to be installed with new investments as well as to modernize existing facilities. Loading houses also allow the use of loading platforms in the absence of the possibility of installation in the building. The AMTRD PRO loading house consists of a support frame with adjustable feet and a superstructure. It has two immovable side platforms covered with ribbed 6/8 sheet metal. Integrated additional brackets allow for easy installation of any platform of your choice.



## Standard technical parameters\*

Application  
Nominal lengths  
Nominal widths  
Construction heights  
Load capacity  
Drainage  
Maximum wind resistance  
Maximum resistance to snow pressure  
Standard colors:

Loading systems  
**2500**, 3400 mm  
**3400**, 3500 mm  
1065- 1360 mm  
**6**, 10 ton (**60**, 100 kN)  
over the front edge  
(Eurocode 3) 0,84 kN/m<sup>2</sup>  
(Eurocode 3) 2,00 kN/m<sup>2</sup>  
RAL 9005 two-component resin-based paint

\*The product may be adapted according to customer requirements.

## Additional options

- ▶ the loading house can be customized according to the individual needs of the investment,
- ▶ the entire structure or its individual elements can be painted in a non-standard RAL color or hot-dip zinc-plated,
- ▶ Installation of the loading house at an angle of 30, 45, 60, 90, 120, 135, 150 degrees,
- ▶ whole range of regular or reinforced bumpers to cushion the impacts of docking vehicles,
- ▶ construction of house adapted to installation of standard or pneumatic seal,
- ▶ powder coating.



Loading house



# AMTR

Accessories  
for levellers  
and docks

- ▶ Details
- ▶ Precision
- ▶ Quick loading



# AMTR-N

## Wheel Guides



More information  
on the product page

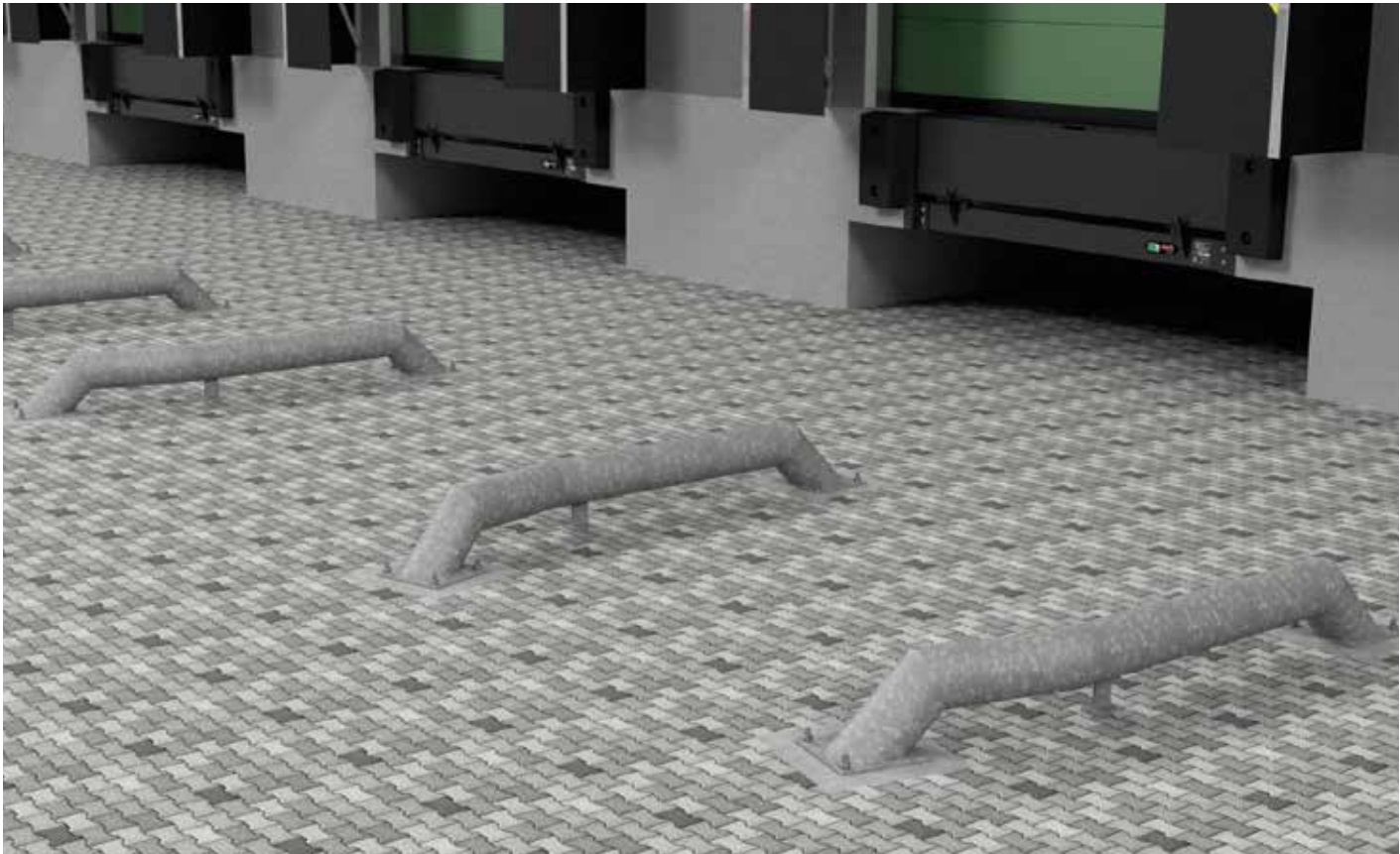
### Purpose

Guides are additional components of the loading system for the precise positioning of the vehicle in relation to the loading bay.

This optimizes the handling process and helps avoid accidental damage to the docking system structure.

### Features

- ▶ the installation is extremely important in the proper functioning of the wheel guides,
- ▶ the wheel guide must be fixed in the ground in a permanent way by pouring a foundation for its brackets, the fixing ring
- ▶ anchors are included in the fixing kit.



## Types of wheel guides



### AMTR N STRAIGHT guide

The AMTR N STRAIGHT guide is approx. 1840 mm long. Its frame is made of a 160 mm diameter round steel profile. The structure is equipped with square mounting brackets made of flat sheet metal.



### AMTR N ANGLED guide

The AMTR N ANGLED guide is approximately 2000 mm long and opens at an angle of 15 degrees. Its frame is made of a 160 mm diameter round steel profile. The structure is equipped with square mounting brackets made of flat sheet metal.

## Technical data\*

Application	Loading systems
Length	1840 mm
Height	250 mm
Bracket dimensions	250x250 mm
Tube diameter	159 mm
Finish	Zinc-plated

Application	Loading systems
Length	2000 mm
Height	250 mm
Bracket dimensions	250x250 mm
Tube diameter	159 mm
Finish	Zinc-plated + coating

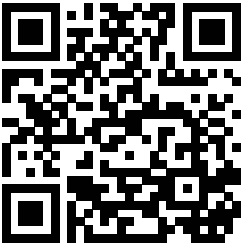
The set includes a right and a left wheel guide and a mounting kit.

\*The product may be adapted according to customer requirements



# AMTR

## Bumpers



More information  
on the product page

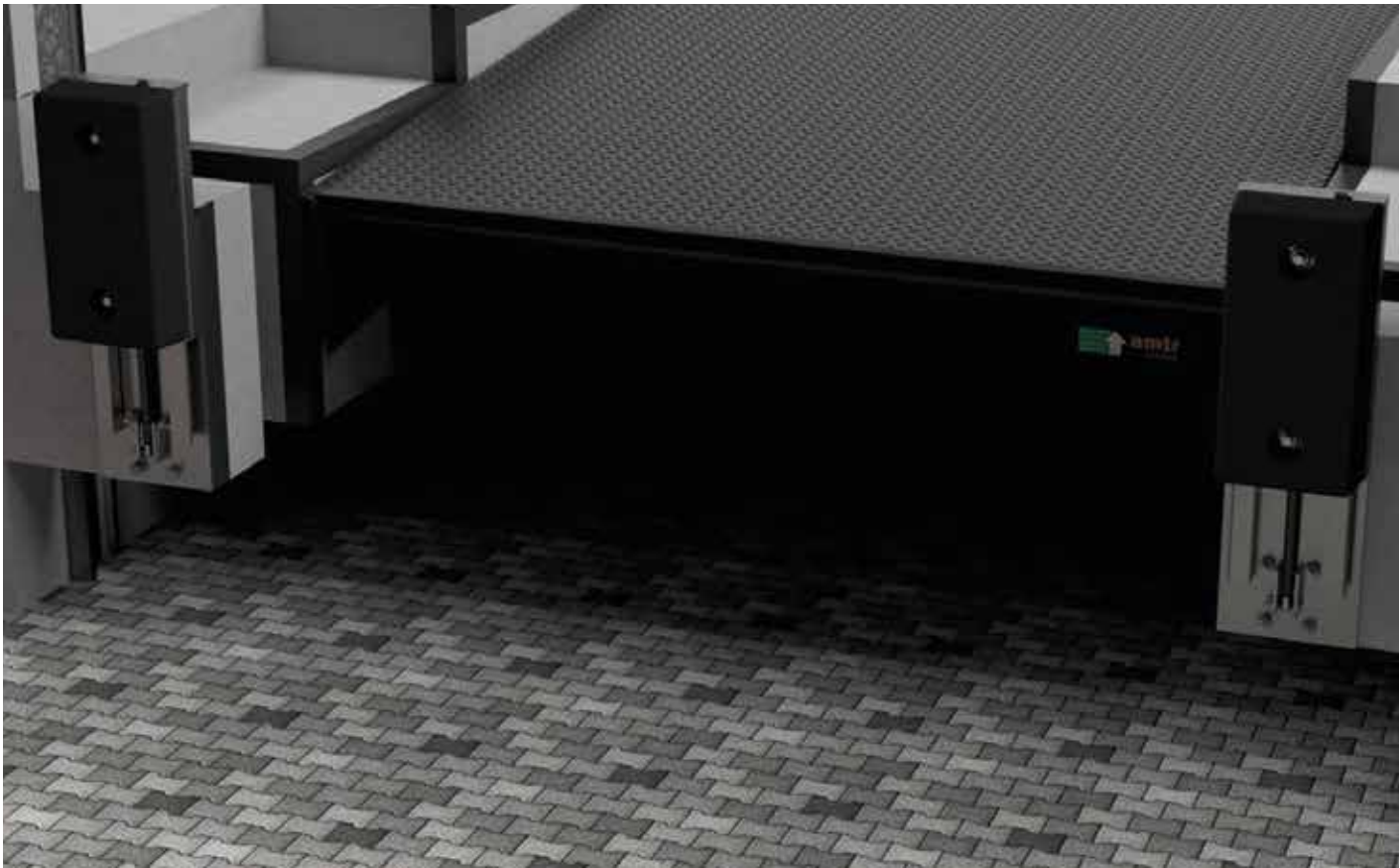
### Purpose

The basic function of the bumpers is to protect the loading system from direct contact with the docking vehicles. The ergonomic design of the bumper allows it to absorb the load during The docking process, providing

a safe distance between the object and the approaching vehicle and preventing damage.

### Charakterystyka

- ▶ the primary function of the bumper is to absorb the forces generated when a truck comes into contact with the loading bay,
- ▶ depending on the docking system, different types of bumpers can be selected to ensure the highest possible level of safety.



### Fixed bumper

#### Standard bumper

A standard size bumper with a design that ensures resilience for maximum safety when docking vehicles.

Dimensions  
Materials  
Installation

450x70x80 mm  
Rubber high quality  
expansion anchors



#### JUMBO PRO bumper with bracket

JUMBO PRO bumper with steel bracket is fixed with steel anchors through the bracket plate. This type of mounting increases the bumper's strength and durability.

Dimensions  
Materials  
Installation  
Bracket finish

250x500x100mm  
High-quality rubber, steel  
expansion anchors  
RAL 9005



#### JUMBO PRO bumper with steel bracket and front reinforcement

With this option, the front cover plate protects the bumper rubber from mechanical wear, extending the life of the bumper.

Dimensions  
Materials  
Installation

250x500x100mm  
High-quality rubber, steel  
expansion anchors



## Adjustable bumpers

### Adjustable bumper

The adjustable bumper is made of heavy duty rubber and a steel bracket containing the elements responsible for vertical movement. The bumper is equipped with a mechanism that allows the rubber to adjust to the vehicle level during loading/unloading.

Dimensions  
Materials  
Mounting  
Finish

510x250x152 mm  
High-quality rubber, steel, adjusting mechanism  
expansion anchors  
zinc-plated or painted



### Reinforced bumper

The reinforced bumper has been developed for customers who appreciate the highest strength and durability even under the most demanding conditions. Galvanic coating of the steel part provides weather resistance.

Dimensions  
Materials  
Mounting  
Finish

500x200x100mm  
High-quality rubber, steel  
expansion anchors  
Zinc-plated



### ESS bumper

The ESS bumper is made of heavy duty rubber and a steel bracket containing the components responsible for vertical movement. The bumper is equipped with a mechanism enabling it to be extended to a height of 250mm.

Dimensions  
Materials  
Mounting

250x500x100 mm  
High-quality rubber,  
steel expansion anchors



# AMTR-S

## Steel bollards



More information  
on the product page

### Purpose

The primary function of heavy duty bollards is to protect loading and unloading areas, doors, walls and everything in their vicinity.

Suitable for heavy loads and work area protection.

### Features

- ▶ as standard they are galvanized and powder coated in RAL 1023 color,
- ▶ optionally they can be painted with two black 100 mm wide stripes, all
- ▶ bumpers are delivered with mounting kit.





## Types of bollards

### AMTR-S M1 bollard

A model with a diameter of 134 mm and wall thickness of 4 mm. It is a suitable solution for the use with dry trailer vehicles. This type of bollard works well near walkways and openings at ramps or gates.



### AMTR-S M2 bollard

A model with a diameter of 159 mm and wall thickness of 4.5 mm. It is a suitable solution for protection against forklifts. This type of bollard works well near openings where loading bays are used.



### AMTR-S M3 bollard

A model with a diameter of 219 mm and wall thickness of 5 mm. It is suitable for cars gates into buildings. This type of bollard works well near openings where loading bays are not used.



## Standard technical parameters\*

AMTR-S-800-M1  
AMTR-S-1000-M1  
AMTR-S-1200-M1  
AMTR-S-1500-M1

Nominal height 800 mm | Diameter 134 mm | Wall thickness 3,2 mm  
Nominal height 1000 mm | Diameter 134 mm | Wall thickness 3,2 mm  
Nominal height 1200 mm | Diameter 134 mm | Wall thickness 3,2 mm  
Nominal height 1500 mm | Diameter 134 mm | Wall thickness 3,2 mm

AMTR-S-800-M2  
AMTR-S-1000-M2  
AMTR-S-1200-M2  
AMTR-S-1500-M2

Nominal height 800 mm | Diameter 159 mm | Wall thickness 4 mm  
Nominal height 1000 mm | Diameter 159 mm | Wall thickness 4 mm  
Nominal height 1200 mm | Diameter 159 mm | Wall thickness 4 mm  
Nominal height 1500 mm | Diameter 159 mm | Wall thickness 4 mm

AMTR-S-800-M3  
AMTR-S-1000-M3  
AMTR-S-1200-M3  
AMTR-S-1500-M3

Nominal height 800 mm | Diameter 219 mm | Wall thickness 5 mm  
Nominal height 1000 mm | Diameter 219 mm | Wall thickness 5 mm  
Nominal height 1200 mm | Diameter 219 mm | Wall thickness 5 mm  
Nominal height 1500 mm | Diameter 219 mm | Wall thickness 5 mm

## Types of barriers

### AMTR-O1 standard barrier

Standard barrier brackets have a thickness of 8 mm. The standard barrier is used to protect walls and passageways in warehouses and underground parking lots.



## Standard technical parameters\*

AMTR-S-800-M2  
AMTR-S-1000-M2

Height 800 mm  
Height 1000 mm

\*The product may be adapted according to customer requirements.

### AMTR-B1 Industrial barrier

Standard industrial barrier brackets are 8 mm thick. The barrier is used to protect the walls And passageways wherever the regular barrier proves insufficient, including in warehouses and underground parking lots.



## Standard technical parameters\*

AMTR-S-800-M2  
AMTR-S-1000-M2

Height 800 mm  
Height 1000 mm

\*The product may be adapted according to customer requirements.

# AMTR-K

## Wheel chock



*More information  
on the product page*

### Purpose

The basic function of the safety chock is to protect the loading operation of the vehicle by placing them against the wheels of the vehicle.

### Features

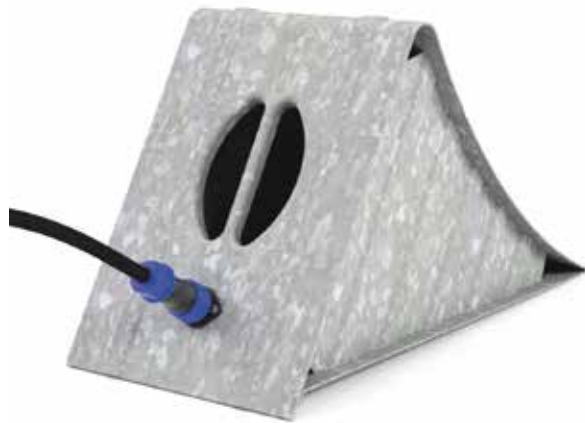
- ▶ Wheel chocks can be used together with other dock accessories: dock control panel, industrial gates and traffic lights,
- ▶ they are extremely durable and equipped with a sensor to detect the truck wheel when the chock is placed.



### AMTR-K wheel chock

The AMTR-K wheel chock secures vehicles against accidental rolling. By placing it against the wheels of the vehicle, safety during loading is increased and it can be used together with the ZSD system (Proximity

Docking System). It is a galvanized steel chock with a radius of curvature of 560



### Standard technical parameters\*

Application  
Length  
Width  
Height  
Radius  
Wheel load per chock  
Material  
Weight

Loading systems  
470 mm  
200 mm  
230 mm  
560 mm  
6500 kg  
Galvanized steel  
4,5 kg

\*The product may be adapted according to customer requirements.



# AMTR

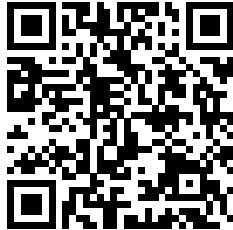
Lighting  
and docking  
system

- ▶ Comfort
- ▶ Safety
- ▶ Security



# AMTR

## LED Dock Light



More information  
on the product page

### Purpose

Dock lights are energy efficient replacements for outdoor halogen lights. They are IP65 rated, meaning full protection from dust and water, so they can be used in harsh

storage environments. dust and water, so they can be used in harsh storage environments.

### Standard technical parameters

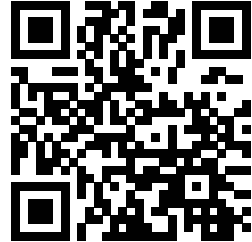
Lamp power  
Power supply  
Power consumption  
Light color  
Lighting angle  
Dimensions  
Lifetime  
Cycles  
Starting time  
Lamp power factor

10 W  
AC 230 V  
10 W  
Warm  
120 degrees  
75x115x85  
30 000 h  
50 000  
1,1 s  
> 0,5



# AMTR-ZSD

## Proximity Docking System



More information  
on the product page

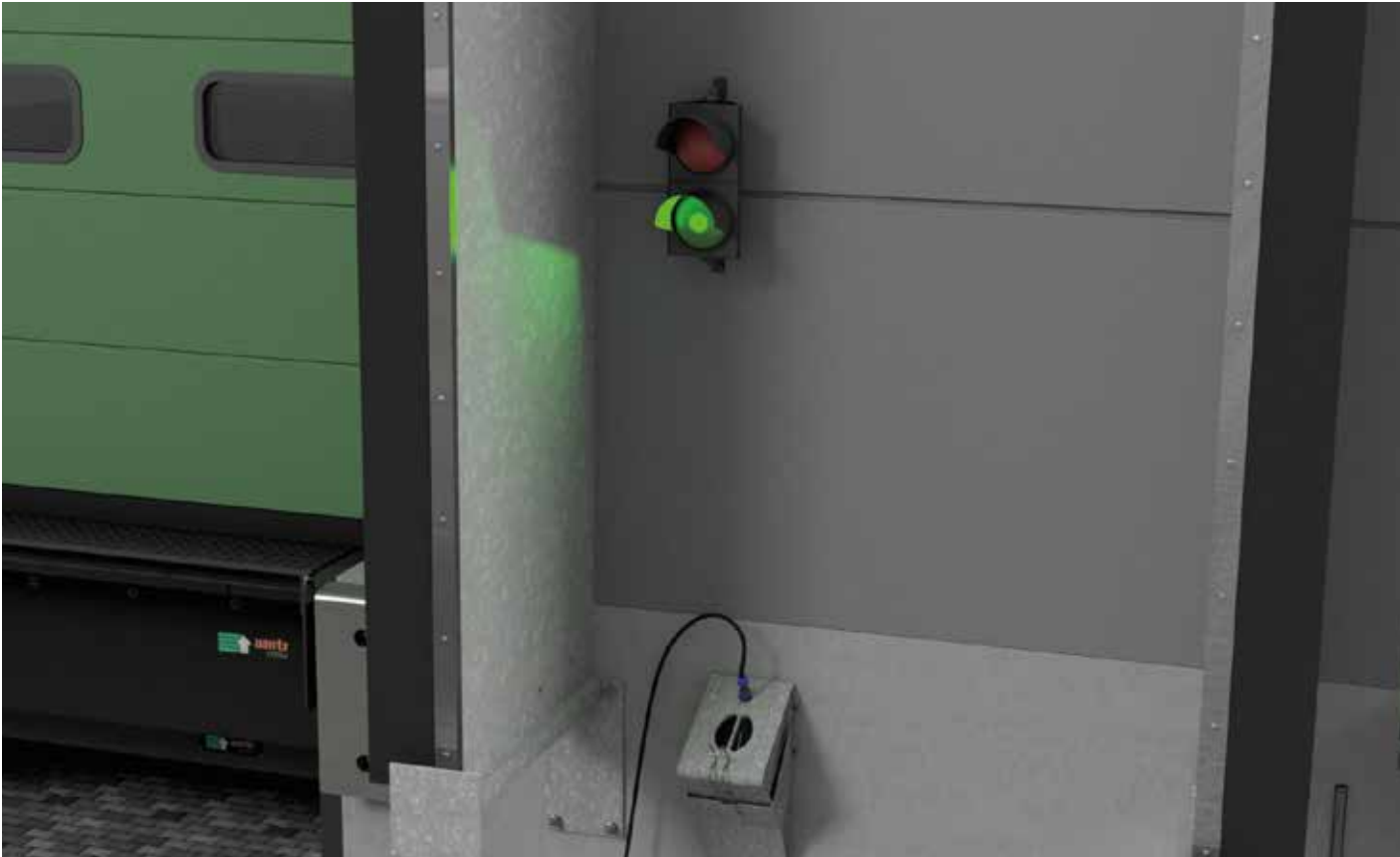
### Purpose

The proximity docking system is an electronic system based on a proximity sensor connected to traffic lights that improves the logistics of loading/unloading and improves safety. Allows for efficient cargo handling and

assists drivers in docking of their vehicles. The system automatically informs the driver of the docked vehicle and the operating personnel inside the dock that the vehicle is ready for operation.

### Features

- ▶ external lights inform the driver of the distance to the dock, and internal lights inform that the vehicle is at the dock and operation may begin,
- ▶ the signaling system is based on a proximity sensor that is mounted at the front of the platform and signal lights (red and green) located outside and inside the dock.













AMTR ZSD V1 Docking System

ZSD V1 signaling light system is based on a proximity sensor, external signalization consisting of green and red light informing the driver about reaching designated place and necessity of stopping the vehicle.

It is possible to couple the system with the gate, which gives feedback on the beginning of the operation.

STAGE	DESCRIPTION OF ACTIVITY	EXTERNAL LIGHT	INTERNAL LIGHT
1	Dock is free - ready for docking		
2	The vehicle has arrived at the designated location*		
3	Closing the gate at the end of vehicle operation		
4	Vehicle departure from the dock		

\* If vehicle operation does not begin within 3 minutes after docking of the vehicle, the program automatically proceeds to step 3.

Technical data

Application  
Power supply  
Sensor type  
Adjustable sensor range  
Lamp power  
Protection rating

Loading systems  
230 VAC  
Ultrasonic PNP  
10 – 1000 mm  
40 W  
IP67

The kit includes:

















- ▶ box Proximity
- ▶ sensor
- ▶ Signal light with red and green light Installation
- ▶ cable set



AMTR ZSD V2 Docking System

The ZSD V2 signaling light system is based on 2 proximity sensors and external signalization consisting of green, yellow and red lights informing the driver about the approach and then about the arrival at the designated place and the necessity of stopping the vehicle. There is a possibility of coupling the system with the gate, which provides feedback about the beginning of operation.

The ZSD V2 system offers full compatibility with the AMTR K optical sensor chock and inflatable sealing, resulting in greater safety during vehicle operation and reduced risk of damage to docking systems.

STAGE	DESCRIPTION OF ACTIVITY	EXTERNAL LIGHT	INTERNAL LIGHT	UP
1	Dock is free - ready for docking			OFF
2	The vehicle is approaching the stopping point			OFF
3	The vehicle arrived at the designated location			OFF
4	Placing of chock			OFF
5	Pressing the START button			ON
6	Closing the door and folding UP			ON
7	Waiting for the chock to be removed from the wheel			OFF
8	Vehicle departure from the dock			OFF

Technical data

Application  
Power supply  
Sensor type  
Adjustable sensor range  
Lamp power  
Protection rating

Loading systems  
230 VAC  
Ultrasonic PNP  
10 – 1000 mm  
40 W  
IP67

The kit includes:















- ▶ Control box Proximity
- ▶ sensor 2 pcs
- ▶ Signal lights with red, yellow and green lights
- ▶ Installation cable set



Docking System AMTR-ZSD V3 (Light Guidance)

The ZSD V3 system is based on a system of LED lights to assist the driver because they are positioned at the optimum height for the driver so that he does not have to constantly observe both the position of the wheels in relation to the wheel guides and the distance from the dock wall. The use of ZSD V3 allows the complete elimination of traditional guiding systems, this provides more

space in the yard without obstacles, which makes the removal of snow easier in winter conditions. The ZSD V3 system features long life and low power consumption.

SITUATION	EXTERNAL LIGHT	INTERNAL LIGHT
No truck		
Truck docked		
Opening the gate		
Loading/Unloading		
Closing the gate		
After pressing the button		
Truck departed		

Flashing light  
 

Technical data

Application  
Power supply  
Sensor type  
Sensor range  
LED strip power  
Protection rating

Loading systems  
230 VAC  
Reflective PNP  
10 – 2000 mm  
0,7 W  
IP67

- The kit includes:
- ▶ Control box
  - ▶ Reflective sensor
  - ▶ sensor holder
  - ▶ LED strip white 2 pcs.
  - ▶ LED strip red 1 pc.
  - ▶ Installation cable set



”  
With us, you will build  
your Logistics center  
without compromises”  
”







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