



RH2 and RH3

Catalogue

One need
One solution





Barcelona, Spain.



Timisoara, Romania.



Welcome to Inkema.

Inkema is a specialist in providing integrated solutions for loading and unloading processes and the management of access through industrial enclosures. Our highly qualified team, with over 25 years of experience within the sector, designs, produces, installs and provides after-sales services for our entire product range: loading bays, scissor tables, yard ramps, industrial doors and dock shelters, among others.

A high quality product and quick service are the most valued characteristics by our customers, therefore our aim is to satisfy their needs by offering a customized and quick service, that offers the most suitable solution in each specific case.

Inkema products are used in all areas, in small workshops and food or automotive industry, as well as in large logistic

centres. Each customer has his own needs and each solution has its own specific characteristics. As a manufacturer with its own **R+D+I Department**, **Inkema** is able to guarantee the production of precise, robust, and safe products that comply with all the European standards, and always from the perspective of satisfying our customers' needs, with extremely reasonable prices and products of proven quality that offer users an excellent performance and durability.

A key to our success is innovation, and developing new products is one of our main concerns. For this reason we invite you to visit **www.inkema.com** and discover all the products and services we provide in order to satisfy your needs: our solution. Welcome to **Inkema**.

Dock levellers

RH2 and RH3



Adaptable to any loading situation.

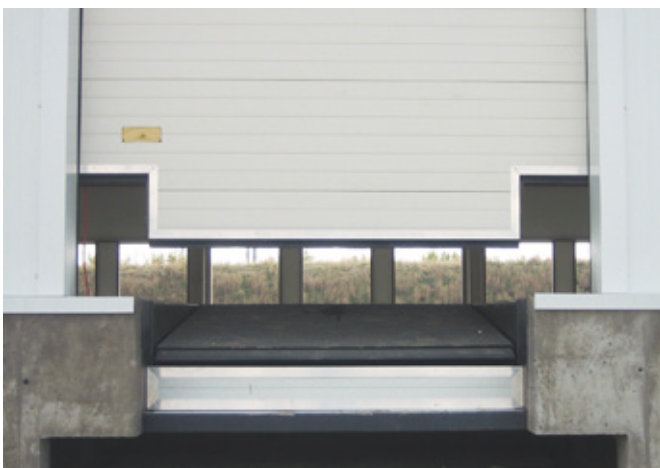
Inkema RH2 and **RH3** telescopic lip levellers are the best option due to their functionality and efficiency. The **RH2** has a retractable lip of 500 mm and the **RH3** has a retractable lip of 1000 mm. They are the perfect solution for reaching places that the **RH1** cannot access, and are particularly indicated for facilities in which interior and exterior heat insulation are relevant.

The **RH2** and **RH3** comprise:

- A **platform** formed by an upper sheet of tear plate with a thickness of 8/10 mm and laminated profiles.
- A compact, robust **lip** made of tear plate with a thickness of 13/15 mm. The lip is folded and milled at its outer end to fit perfectly onto the truck and to ease the passage of forklifts.
- An **inferior structure** formed by laminated profiles upon which the platform and hydraulic assembly are installed.

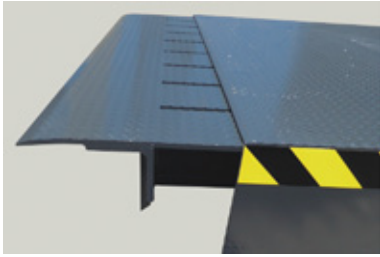
Safety is an essential requirement for any professional. For this reason, all **Inkema** levellers have different safety systems:

- An **emergency stop** activated by a section switch or zero voltage.
- An **anti-fall safety valve** inside the hydraulic cylinder.
- **Fixed and mobile side panels** that serve as a foot guard.
- A platform with an upper sheet of **anti-fall tear plate**.
- **Safety signals** fixed to moving parts.
- **Safety bar** to prevent it from closing during maintenance work.



Dock levellers

RH2 and RH3



RH2 leveller with retractable lip of 500 mm.



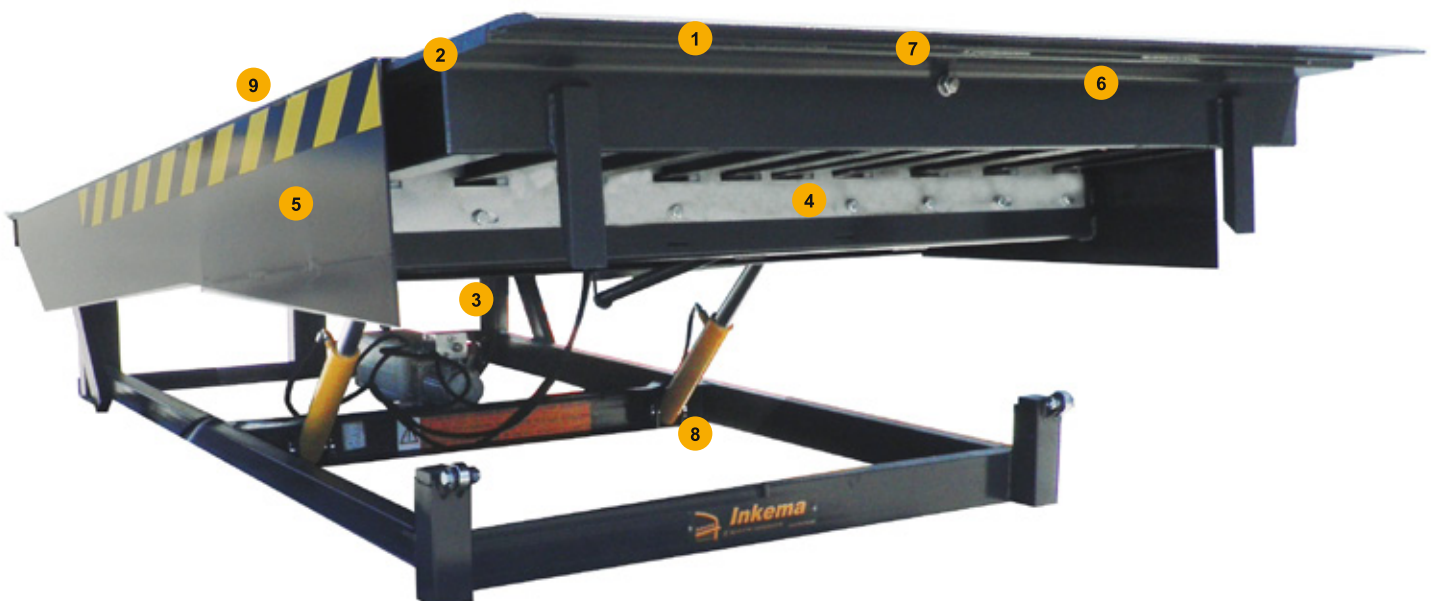
RH3 leveller with retractable lip of 1,000 mm.



The RH2 and RH3 levellers have two Inkema control panel. elevation cylinders, each with Ø50 mm rods.



- 1 They have a **hydraulic system** that is specially designed to be coupled perfectly onto the truck's platform. Simple and effective. The retractable lip can be extracted under controlled conditions using the electric control panel and fitted onto the truck's platform in optimum conditions.
- 2 Thanks to the **length of the adjustable retractable** lip it is the perfect solution for ensuring optimal insulation of the facility, as it can be sealed by installing an industrial door in front of the leveller.
- 3 The **hydraulic equipment** comprises: a 1.5 CV electric motor, hydraulic pump with a flow rate of 5 l/m and a 7-litre tank with an oil level viewer, safety electro valve, elevation cylinder with a Ø50 mm rod, lip cylinder with a Ø25 mm rod and hydraulic hoses.
- 4 The **grooved comb system** at the front of the machine transmits the stresses on the lip to the structure at multiple supporting points, thus reducing structural pressure and increasing the useful life of the machine.
- 5 **All the components** and the moving parts, lip and inferior structure are painted separately with an anti-corrosive primer followed by a coat of high-quality paint, thus ensuring a double 1+1 layer which guarantees 200% protective coating.
- 6 The **lip position** can be adjusted and optimized as it has a set of polyamide regulation skids. Those skids are responsible for guiding and sliding the lip.
- 7 The **lip** has a set of profiles and a grooved tear plate with a thickness of 13/15 mm, forming a robust, compact assembly. The tear plate 100 mm from the end is folded 5° for perfect adjustment of the truck and milled at its outer end, to ease the passage of fork lifts.
- 8 All the **shafts** are protected from corrosion by a passivated, zinc electrolytic coating.
- 9 The design developed by **Inkema**, allows the **RH2** and **RH3** levellers to be galvanized.



* All the RH2 and RH3 levellers comply with EU standards.

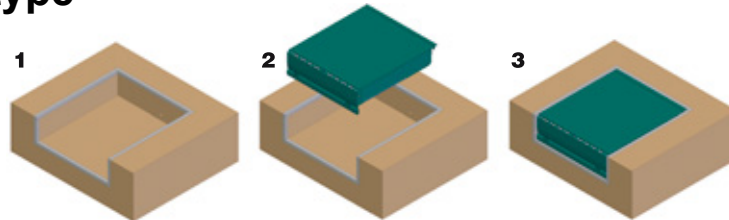
Construction systems

A solid base for unlimited possibilities.

The **Inkema** construction system concept is easy to explain: these systems are designed to satisfy anyone's needs. For those who want to start with a pit and a sub-frame: **Embedded Pit type**. For those who prefer to install the leveller in a pit

without a sub-frame: **Self-hanging type**. For those who do not want a pit: **Box Model without letter box**. And for those who do not want a pit, but need an opening for the truck letter box: **Box Model with Precast for letter box**.

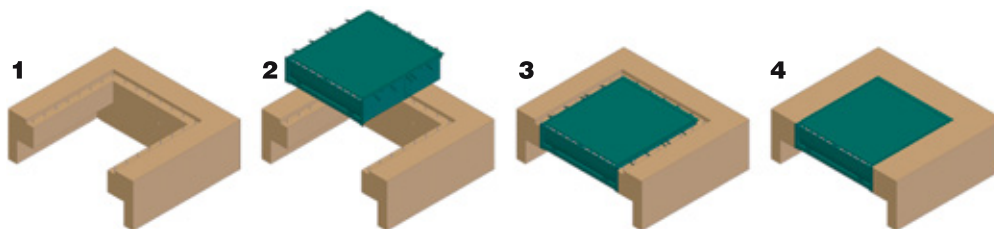
Embedded Pit type



The **Embedded Pit type** levellers require a sub-frame for them to be secured to the pit. The sub-frame is installed when the pit precast is created. It has the great advantage of only being joined to the pit by welding, which makes it extremely easy to replace, move and/or change it by another machine.



Self-hanging Pit type

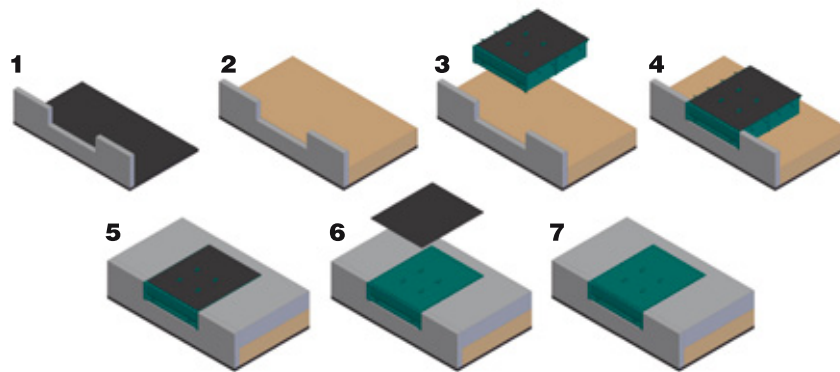


The **Self-hanging Pit type** levellers require no frame for securing them to the pit, as the machine already has one. Its main advantage is that the frame and leveller can be installed at the same time, as the frame is integrated to the leveller. Another advantage is that no bottom support is needed as all the pressure is transmitted to the superior edge of the pre-frame of the leveller, leaving a free space underneath the leveller to allow trucks with their own rear loading bridge to fit inside this space.



Construction systems

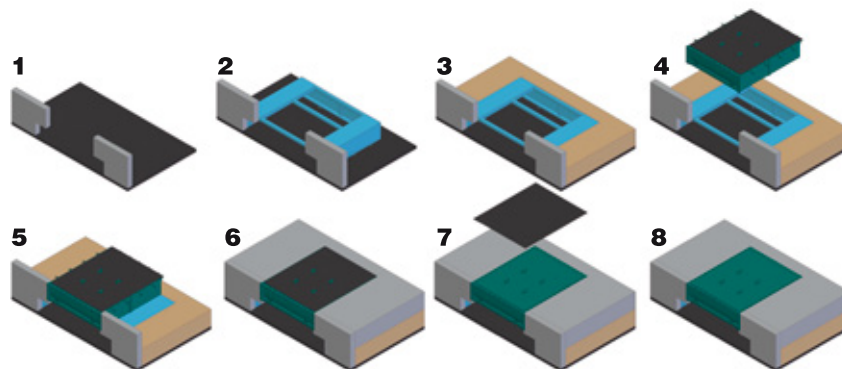
Box Model without letter box



The **Box Model without letter box** uses the leveller as a precast element. This system saves costs and time in installing the leveller, as no pit is required. The work involved in preparing the pit beforehand is not necessary, thus making civil work easier and less complicated, and maintaining the same functions and operability as the other systems, such as the **Embedded** or **Self-hanging** type.



Box Model with Precast structure for letter box



Often it is necessary to consider that trucks have their own loading bridge. For this reason **Inkema** has also designed the **Box Model** with a space for the own back bridge of a truck during the loading and unloading of the goods, using a hollow precast element structure. The **Precast** structure is installed before the floor in the industrial building is completed. A space is left underneath the structure of the **Box Model** leveller. This allows you to obtain the benefits of the **Self-hanging** model and the functionality of the **Embedded** model, as well as simplifying civil engineering work.



Finishing

Taking care of every detail.

The choice of finish is one of the most important decisions when choosing a loading bay. For this reason Inkema offers its customers different finishings.

Painted

Carbon steel coated with a polyurethane (PU) base coat. The material to be painted is washed and degreased before applying the paint. Double-coat treatment, consisting of a base coat of primer and a finishing top coat. High resistance to corrosion and environmental agents. The standard colour used by Inkema is 7016 grey, based on the RAL colour chart. Obviously, customers have the option of other colours.



Finishing

Galvanized

Carbon steel immersed in a high temperature zinc bath. The material to be treated is washed and degreased beforehand and immersed in an acid bath for thorough cleaning of impurities and to enhance the black steel reactivity, and afterwards it is immersed in a liquid zinc bath at a temperature of about 450° C, to achieve the chemical adherence of the zinc to the steel. A homogeneous coating on all material is obtained as well as an excellent resistance to corrosion and environmental agents.



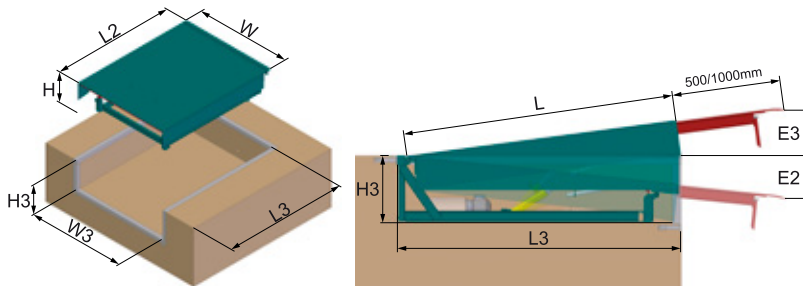
Stainless steel

AISI-304 stainless steel. The product is entirely made of stainless steel, including the welding made with the appropriate flux material. The most resistant option for any aggressive environment. The material itself is rust-proof under normal environmental conditions and is an excellent option for food and pharmaceutical sector and for extrem weather conditions. Furthermore the product can also be made of AISI-316 stainless steel, which is of better quality and the best for the food sector.



Technical specifications

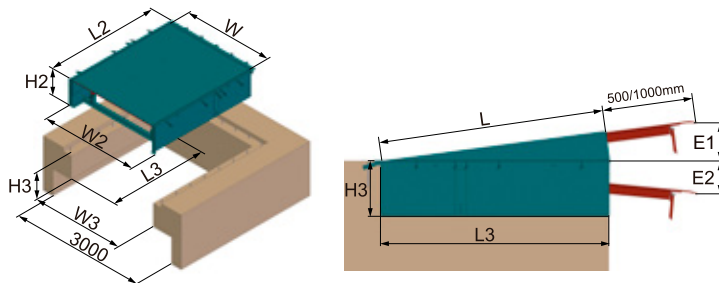
RH2 and RH3 Embedded



RH2										
	LIP	L	W	H	L2	L3	W3	H3	E1	E2
2000	500	1970	2000	600	2060	2080	2040	610	310	310
2500		2470		800	2560	2580		810	340	340
3000		2970			3060	3080			440	390
3500		3470			3560	3580			480	390

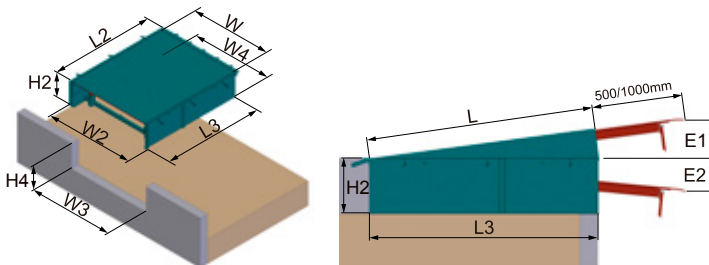
RH3										
	LIP	L	W	H	L2	L3	W3	H3	E1	E2
2500	1000	2470	2000	600	2560	2580	2040	610	410	395
3000		2970		800	3060	3080		810	510	460
3500		3470			3560	3580			550	430

RH2 and RH3 Self-hanging



RH2															
	LIP	L	W	H	L2	W2	H2	L3	W3	H3	W4	H4	E1	E2	
2000	500	1970	2000	600	2070	2190	605	2000	2080	610	2050	620	310	310	
2500		2470		800	2570		805	2500		810		620	340	310	
3000		2970			3070			3000				820	440	390	
3500		3470			3570			3500				820	480	380	

RH2 and RH3 Box



RH3														
	LIP	L	W	H	L2	W2	H2	L3	W3	H3	W4	H4	E1	E2
2500	1000	2470	2000	600	2570	2190	605	2500	2080	610	2050	620	410	395
3000		2970		800	3070		805	3000		810		820	510	460
3500		3470			3570			3500				820	550	430

Safety directives and standards

All the levellers and loading bridges have been calculated and designed pursuant to the following European directives and standards:

Directives:

2006 / 42 / EC
2004 / 108 / EC
2006 / 95 / EC

Machine safety.
Electromagnetic compatibility.
Low voltage.

European Standards:

EN 1398:2010
EN ISO 12100-1:2010
EN 61000-6-2:2006
EN 61000-6-4:2011
EN 60204-1:2010

Levelling ramps.
Machine safety. Basic concepts. General design principles.
Electromagnetic compatibility. Basic immunity concepts for industrial environments.
Electromagnetic compatibility. Basic emissions concepts in industrial environments.
Machine safety – Electrical equipment – General provisions.



Warranty and safety

As calm as on the first day.

Some firms manufacture their products without offering a full guarantee, in order to save costs. Unfortunately, some firms prefer to cut down on safety systems. Others prefer to make their products with poor-quality materials. **Inkema** is well aware

of this, and for this reason, we declare that our products are safe and that they are of the highest quality and completely guaranteed. In all cases with the aim to satisfy the needs of our customers and at the fairest price. But without affecting the safety and guaranteed quality of its products and systems.



Inkema Range

A wide range of products to meet all your needs.

Inkema is not just a specialist in **dock levellers**. More than 25 years of experience in its sector have led Inkema to extend its product range, to fully satisfy all the needs of its customers, which are from more than 42 countries.

The **Inkema** range combines variety, innovation, functionality, quality, price and service. This is the result of the ceaseless efforts of its different departments. In addition, **Inkema** has a varied range of dimensions, finishes and accessories that can be adapted to suit the requirements of each customer.

Below there is a list of the different types in each product family of the **Inkema Range**:

- **Loading bays:** swing lip levellers, telescopic lip levellers, yard ramp...
- **Loading bridges:** loading bridges iron, aluminum, galvanized...
- **Free standing frames and dock houses:** free standing frames with or without walkway, tunnels isothermal or normal...
- **Scissor tables:** single scissor, double scissor, special scissor tables, etc.
- **Dock shelters:** retractable, fix, foam seal and inflatable.
- **Industrial doors:** industrial (normal and glazed) and residential doors.
- **High-speed doors:** folding, rolling, self-repairable and cold storage.
- **Fire doors:** vertical, sliding, rolling and pedestrian doors.

Loading bays



Loading bridges



Inkema Range

Free standing frames and dock houses



Scissor tables



Dock shelters



Inkema Range

Industrial doors



High-speed doors



Fire doors





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- The information included in this catalogue is of informative nature and in no case should be construed as a contractual commitment.