



Sliding Loading Bridge Fixed Loading Bridge

PA1
PA2

Manually operated steel bridges for loading bays:
Practical, economical and easy to use.

TECHNICAL DESCRIPTION

The **PA1/PA2 loading bridge** is designed to be installed at the edge of the loading dock, either in a fixed position (PA2) or sliding, allowing it to be moved on two wheels from side to side on a rail (PA1). These loading bridges are manually operated and have a **structure made of steel and tear plate**.

This makes it quick and easy to install to any loading bay, thanks to its small size and no need for a pit. Despite its size, it is capable of withstanding a force of up to **4 dynamic tons** during the loading and unloading processes.

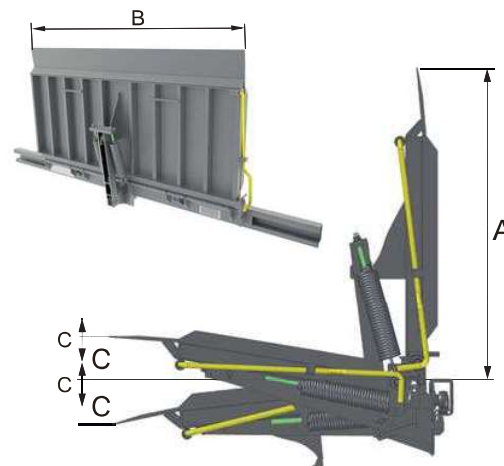


PA1 loading bridge with rail for moving.

LOADING BRIDGE DIMENSIONS

There are 5 standard sizes*, regardless of whether it is a sliding (PA1) or fixed (PA2) loading bridge.

- ✓ 1000mm high x 1200mm wide (sliding or fixed)
- ✓ 1000mm high x 1500mm wide (sliding or fixed)
- ✓ 1000mm high x 2000mm wide (sliding or fixed)
- ✓ 1500mm high x 1500mm wide (sliding or fixed)
- ✓ 1500mm high x 2000mm wide (sliding or fixed)

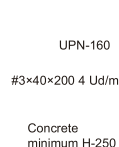


LOADING BRIDGE FRONT VIEW

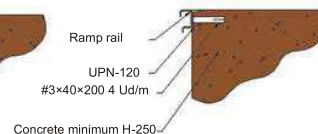


- 1 Its spring system can withstand loads of **up to 4 tons**.
- 2 The **end of the loading bridge** is 5° folded 150 mm from the end. This enables perfect adjustment to the lorry during the loading and unloading process.
- 3 The loading bridge has a lever and an anti-fall safety, making it easy to handle.

Detail profile fix type



Detail profile movable type



Types	A (mm)	B (mm)	C (mm)	Capacity(kg)	Weight (kg)
1000×1200	1000	1200	150	4000	150
1000×1500	1000	1500	150	4000	215
1000×2000	1000	2000	150	4000	225
1500×1500	1500	1500	215	4000	300
1500×2000	1500	2000	215	4000	365



Galvanised movable loading bridge PA1 with rail.

Loading Bridges



COMPONENTS

PA1/PA2 loading bridges consist of:

- **Base frame:** consists of a strong joint, which has the upper structure on top of it.
- **Upper structure:** consists of a tear plate, with a compact structure of profiles underneath it.
- **Balancing system:** The balancing system for these loading bridges is a spring-based system.
- **Manoeuvring and locking system:** consists of a handle and a pedal which, when combined, allow the bridge to be fixed in place or moved safely.



PA1 loading bridge in lowered position.

SAFETY ELEMENTS

The PA1/PA2 loading bridges features the following safety elements:

- **Safety and blocking pedal.**
- **Safety railings** at the sides.
- **Anti-slip** tear surface on deck.



They are perfect for installing as a loading dock.



Its spring system can withstand up to 4 tons.



Anti-slip tear surface on top.

FINISHES



Painted:

Highly resistant to corrosion and environmental agents. Standard colour grey RAL 7016, any other colour can be chosen according to RAL chart.



Galvanised:

Excellent resistance to corrosion and environmental agents.

STANDARDS

Inkema declares that the PA1/PA2 loading bridges conform to the following European directives:

2006/42/CE and UE 305/2011

Designed and manufactured in accordance with the following harmonised technical standards:

UNE-EN 1398 and UNE-EN ISO 12100

Compliance with the following technical standards:

UNE-EN 349, UNE-EN ISO 13857, UNE-EN ISO 4413.

Hydraulic loading bridge designed for the loading and unloading goods in any loading bay.

TECHNICAL DESCRIPTION

Inkema's Hydraulic Loading Bridge is designed to stand a nominal maximal load of **6 tons**.

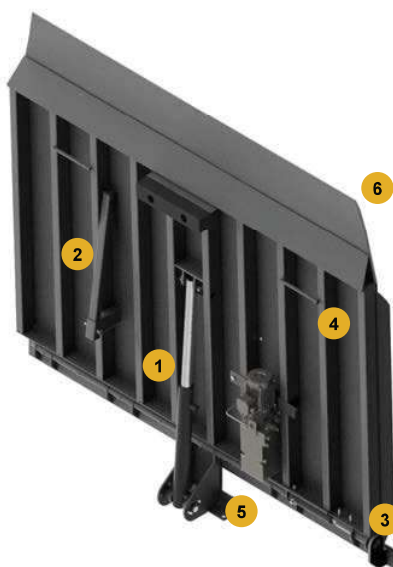
Its structure is made of teared upper plate (thickness 6/8mm) with side brackets and cold rolled steel U-type profiles. The base of loading bridge is composed of a set of hinges and lifting cylinder supports.

The dimensions of the hydraulic loading bridge are as follows: **length 1775mm, width 2200mm**.



COMPONENTS

The Hydraulic Loading Bridge - PAHI is composed of base, structure, hydraulic system and electrical system.



- 1 Elevation cylinder
- 2 Maintenance bar
- 3 Lock cylinder
- 4 Anchor points for installation
- 5 Flotation detector
- 6 Bevelled lip

OTHER USES FOR LOADING BRIDGE - PAHI

The PAHI - Hydraulic Loading Bridge is an excellent solution for Cold Storage Systems, if a dock leveller can't be installed in the loading bay.

** For more information, you can consult the Cold Storage product category of our website.*

TECHNICAL DATA

- Nominal load capacity 6 tons.
- Weight of the loading bridge: 460kg
- Noise level produced <70dB.
- Maximum speed of crossing 10km/h.
- Maximum working slope $\pm 12.5\%$ ($\pm 7^\circ$).
- Temperature range -20°C $+50^\circ\text{C}$.

SAFETY ELEMENTS

The PAHI has the following safety systems:

- Non-slip surface.
- Maintenance bar.
- Anti-fall valves.
- Side railings.
- Warning signal to not operate the loading bridge with personnel in the pit.
- Buzzer for warning that the loading bridge is in motion in area of possible risk.
- Mechanical lock in vertical position.

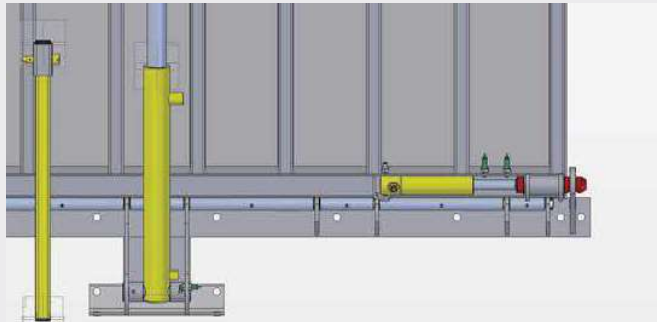




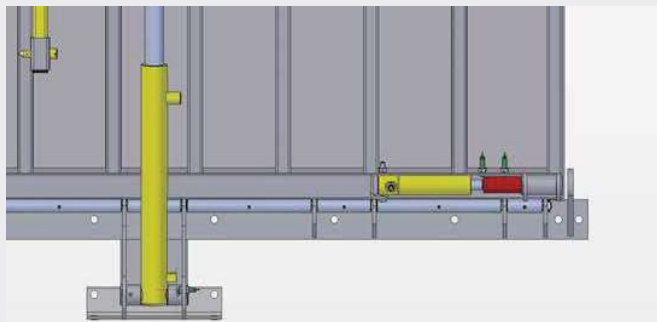
LOADING BRIDGE LOCKING SYSTEM

The PAHI loading bridge has an **exclusive locking system** that makes it unique compared to the other loading bridges on the market.

It consists in the **activation of a safety device** when the loading bridge is in resting mode (red device in the graphic). It mechanically locks the loading bridge safely in its upright position.



Loading bridge in resting position, with the safety device activated to prevent its accidental fall.



Loading bridge unlocked ready to descend for loading and unloading goods.

HYDRAULIC EQUIPMENT DETAILS

The PAHI loading bridge has a hydraulic control unit with the following characteristics:

- Voltage: 230/400V
- Frequency: 50/60Hz
- Power: 1.1kW (1.5 metric HP)
- Revolutions: 1500rpm
- Flow rate: 1.0cc/v
- Deposit capacity: 3.5 Lit.
- Maneuvering voltage: Coils 24v AC.



PAHI hydraulic loading bridge in lowered position.



Locking system activated using safety device.

FINISHES



Painted:

Highly resistant to corrosion and environmental agents. Standard colour grey RAL 7016, any other colour can be chosen according to RAL chart.



Galvanised:

Excellent resistance to corrosion and environmental agents.

STANDARDS

Inkema declares that the PAHI hydraulic loading bridge conforms to the following European directives:

2006/42/CE, 2014/35/UE, 2014/30/UE and UE 305/2011

Designed and manufactured in accordance with the following harmonised technical standards:

UNE-EN 1398 and UNE-EN ISO 12100

Complies with the following technical standards:

UNE-EN 349, UNE-EN ISO 13857, UNE-EN ISO 4413, UNE-EN 60204-1, UNE-EN 61000-6-2, UNE-EN 61000-6-3 and UNE-EN 61000-6-4