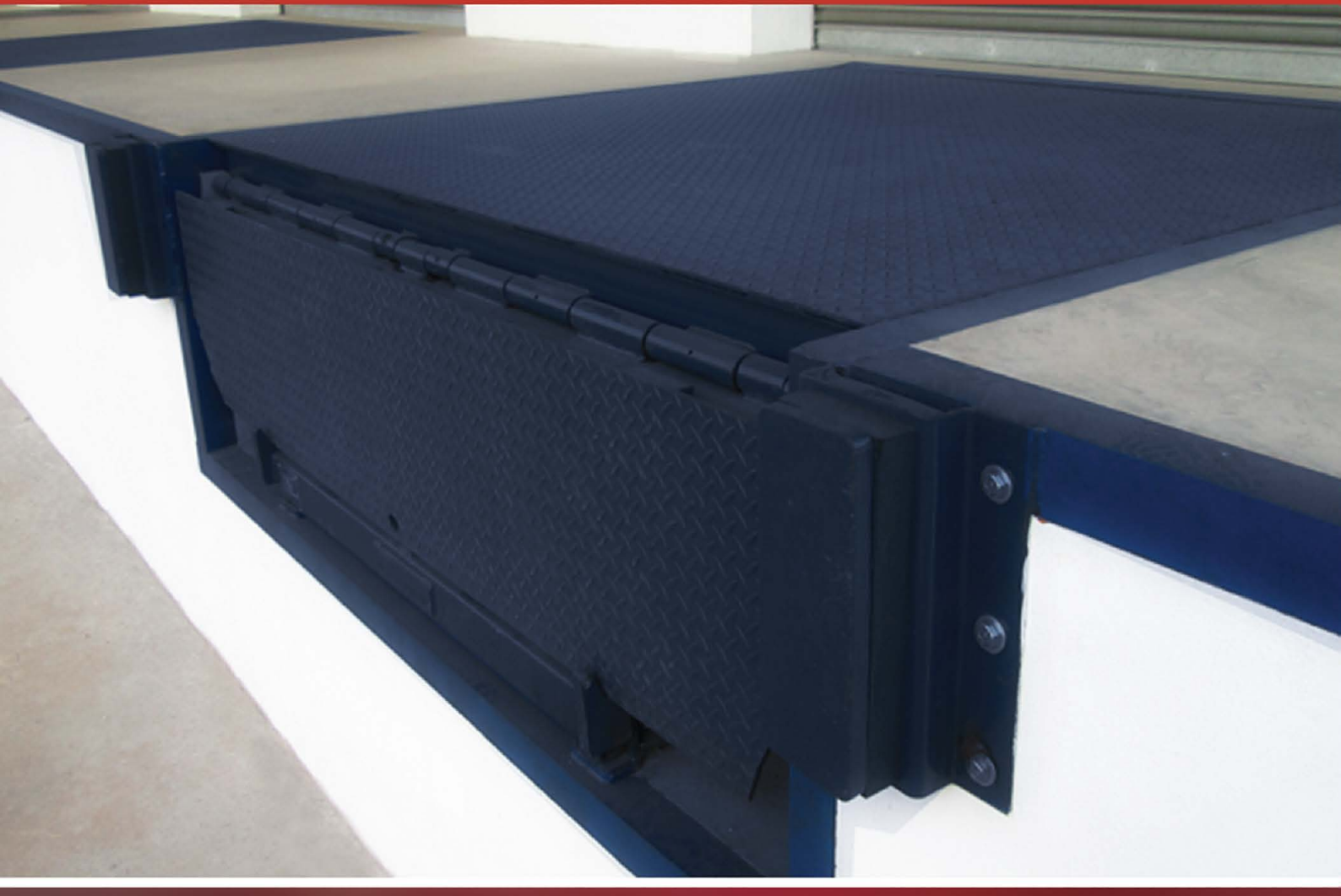
MKS

TECHNOLOGY THAT ENHANCES marksell®

Dock Leveller Fixed on Pit



Obtain greater speed, safety and cost reduction during your operations when using our Dock Leveller Fixed on Pit

MKS 6000 PNDEEW

MKS 6000 PNDEE

MKS 9000 PNDEE

MKS 12000 PNDEE

MKS 6000 PNDME

EXCLUSIVE SYSTEM BUILT TO SUIT (DOCK LEVELLERS)

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Dock Leveller Platforms Fixed on Pit

> MKS Marksell

MADE IN BRAZIL, FOR THE WORLD

MKS Marksell is a 100% Brazilian company, a pioneer and leader in the specialised area of transportation of cargo and people since 1983.

The company is based in self-owned premises in Itapevi, in the Greater São Paulo region. MKS Marksell relies on a flexible production structure installed in an area of 12000 square meters.

MKS Marksell develops, projects and manufactures, using its own technology, equipment for the transportation of cargo and people, either placed on vehicles or stationary, with a great emphasis on hydroelectric activation.

Apart from developing equipment using state-of-the-art technology, MKS Marksell's main objective is to find solutions for your loading and unloading needs.

We listen to your requirements, and based on our wide experience, identify the practical solutions to allow you to solve your operational problems with a high degree of satisfaction.

We are the only Brazilian company that offers a wide range of equipment which will provide the best solution for your needs. We believe that to show our differentials we must do our best and offer these differentials to our customers, allowing them to make their best choice.

So that all this may become reality, we depend on a team of projects and engineering with wide experience and competence, and on the latest state-of-the-art equipment.

We test exclusively all our equipment so that our customers may have, after taking everything into account, the best cost/benefit ratio and that they can be sure of safe and smooth operations.

Performance of MKS Marksell around the World

MKS Marksell is based in São Paulo – Brazil, but the company is present in many countries around the world, especially in Latin America, Europe and Africa.

> Obtain greater speed, safety and cost reduction during your operations when using our Dock Leveller Fixed on Pit

The Marksell Dock Leveller Fixed on Pit were developed to be used in docks for loading and unloading, acting as a bridge between the concrete dock and the floor of the body of the vehicle, and oscillating in order to compensate for the variation in height of the floor of the body of the vehicle. This allows the access of pallet trucks, forklift trucks and others, in order to obtain greater speed and safety during the process of loading and unloading.

> Advantages

- Optimizes the workforce;
- Increases the speed of loading and unloading without compromising safety.

> Important

You may depend on our Engineering and Commercial Departments to guide you when making the choice of the best solution for your loading and unloading problems.

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> MKS PND EE (Hydraulic)

This model is for imbedding in the recess on the concrete dock, with a self-supporting structure. It has a reduced height for installation, requiring simplification in the installation of the recess (trench). It is fixed with screws with metal plugs or soldered on to the finishing corners of the trench. Its installation does not require specialised workmanship. Activation is by two hydraulic cylinders, one for elevating and the other for operating the flange, with a hydroelectric unit, a low consumption electric motor, and which is button operated.

Models	Traffic Cargo Capacity [kg]	Cargo Capacity per Axle (Leaning on) [kg]	Length of Plate [mm]	Width of Plate [mm]
MKS 6000 PND EEW	6000	3000	2500 / 3500	2000
MKS 6000 PND EE	6000	3000	2500 / 3000 / 3500 / 4000	2000
MKS 9000 PND EE	9000	4500	2500 / 3000 / 3500 / 4000	2000
MKS 12000 PND EE	12000	6000	2500 / 3000 / 3500 / 4000	2000

> MKS PND ME (Mechanical)

This model is for imbedding in the recess, on the concrete dock, with a self-supporting structure. It has an even more reduced height for installation (500mm) which, apart from requiring only a simplified construction of the recess (trench), also has a lower transport cost. Installation only requires soldering the structure to the finishing corners of the trench, and does not require specialised workmanship. Its construction with an articulate flange allows the vehicle to park on to the dock before the equipment is activated, leaning on the floor of the body of the vehicle. Activation is by a manually mechanised movement aided by helical springs for balancing the plate and an automatic system for opening and closing the flange, allowing the plate to oscillate when leaning on the body of the vehicle. Only a simple trench needs to be built, with a flat bottom (it does not require any drainage pipes) and reduced measurements. It has a lower maintenance cost when compared to the counterweight systems.

Models	Traffic Cargo Capacity [kg]	Cargo Capacity per Axle (Leaning on) [kg]	Length of Plate [mm]	Width of Plate [mm]
MKS 6000 PND ME	6000	3000	2500	2000

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Dock Leveller Platforms Fixed on Pit

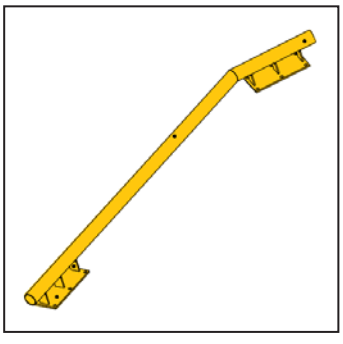
> Accessories and Optionals

In order to obtain more details, please contact our sales team.

Lamp for the dock, with an articulated arm and reflector

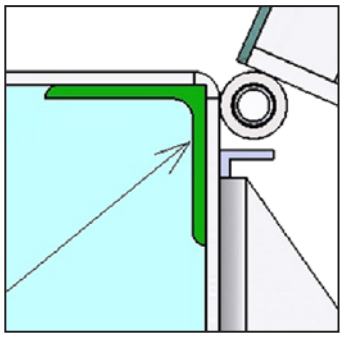
Wheel Blocks

Operational Sound Alarm (linked to the main switch)



Wheel Guide for Positioning

Buffer set



Finishing Corners for the Trench

Button Control (patented product)

Pedestal for the Button Control

> Colours

Finishing Background in BLACK (standard)

Synthetic Primer LIGHT GREY

Extra-quick synthetic enamel ROYAL BLUE

Enamel OPALESCENT GREY

Synthetic Enamel MKS YELLOW

> MKS Marksell Customers

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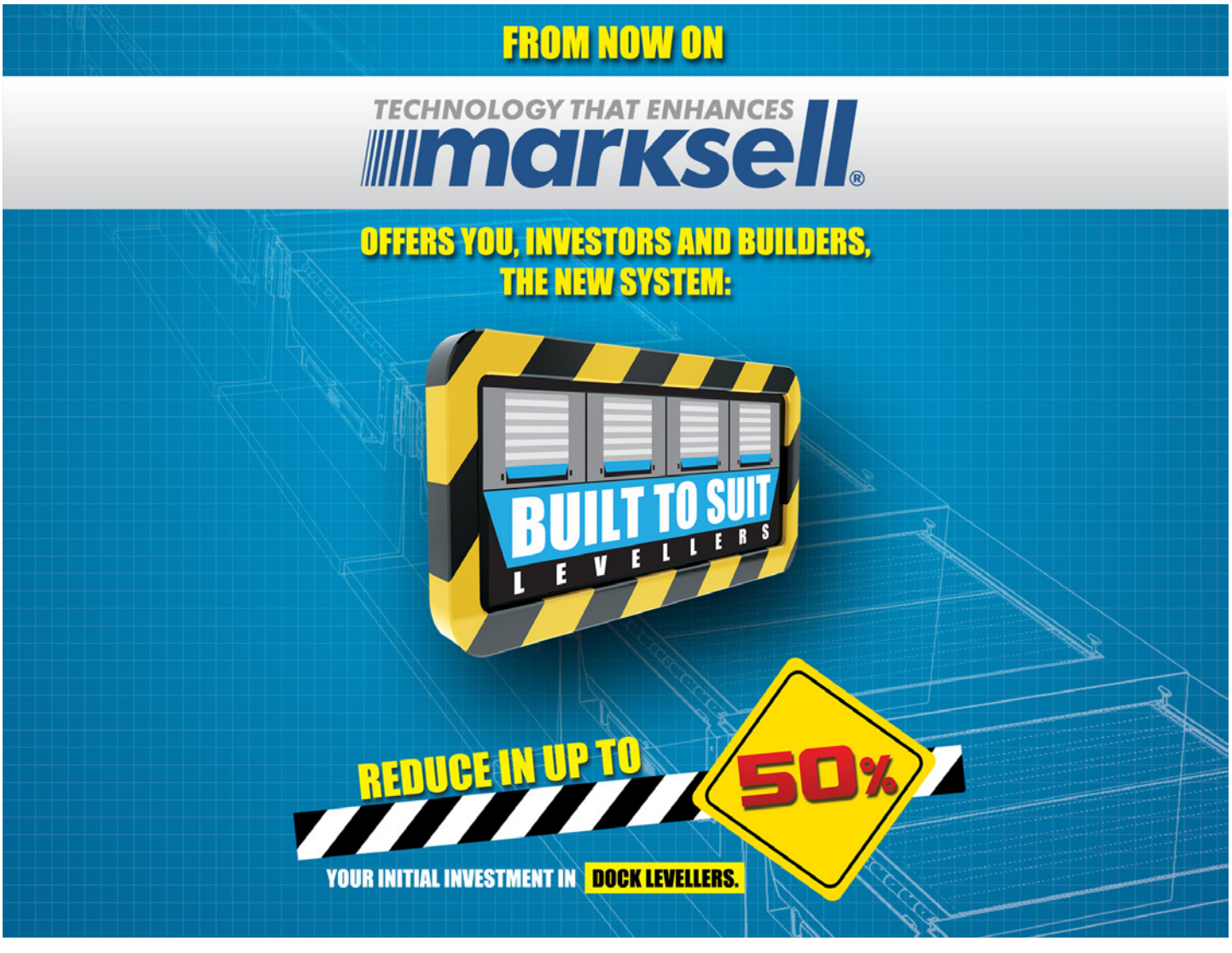
Dock Leveller Platforms Fixed on Pit

> Built to Suit Dock Levellers



MKS Marksell, a 100% Brazilian Company, which is the leader in the segment of the market of loading and unloading cargo, now innovates with its new system of supply of dock levellers.

With this supply system you, who are the investors, builders and users of dock levellers, can reduce in up to 50% your initial investment in dock levellers.

In order to deliver to its customers what is most modern and safe in that which relates to the building of Distribution Centres, Logistics Groupings, Leasing Operations and other projects, and for which the Built to Suit model could be put to use, large investors require a substantial volume of capital and, depending on the type of enterprise involved, the definition of the type and nature of the business will only occur after the projects have been completed, delaying even further the return on investment.

The supply system of the exclusive and patented "Built to Suit Dock Levellers", allows the investor/builder to acquire only the structure of the equipment "Structural Metal Box of the Leveller", thus reducing the initial investment cost in the following ways: 1) Transferring the option of automation or mechanization of the equipment to the end of the project; 2) Or only after the leasing of the module/warehouse; 3) Transferring to the final users of the equipment the best solution for their business (the mechanical option is only valid for equipment that has a length of 2.5 m and a cargo capacity of 6000 kg).

PLEASE GET IN TOUCH WITH US FOR FURTHER INFORMATION: +55 11 4772 1100

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> General information

The Marksell Dock Leveller were developed for loading and unloading in dock, acting as a bridge between the concrete dock and the floor of the body of the vehicle, allowing oscillation to compensate for the variation in height of the floor of the body of the vehicle during the operation, permitting the access of hand trucks, pallet trucks, forklift trucks and others, both speeding up and making the operation of loading and unloading much safer.

We give below the recommendations for use in loading the MKS Marksell Dock Levellers providing the limits of inclination, that is to say, the maximum unevenness advisable between the floor of the dock and the floor of the body of the vehicle, positive or negative, which are to be respected in the use and application of the equipment.

Operations	Inclination [%]	Inclination [degrees]
Manual Operation	5	2,85
Operation with pallet trucks	7	4,00
Operation with electric forklift	10	5,75
Operation with combustion forklift	12,5	7,10

It is fundamental to follow these recommendations to guarantee the safety of the operation of loading and unloading, including that of the operator, apart from preserving the MKS Marksell Dock Levellers and the equipment used in this operation.

You may rely on our Engineering and Commercial Departments to guide you in your choice of the best operational equipment for the solution to your loading and unloading problems on your dock.

> More on Marksell

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