

# POOL LIFT

# METALU PANTALÁN

## HYDRAULIC POOL LIFT



★ ★ ★ ★ ★  
**METALU WARRANTY**

**3 YEARS** The lift

**5 YEARS** All spare parts



# MANUAL AND CERTIFICATES

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# Manual and certificates of the lift

## 1. Manufacturer details

**Company name:** Manufacturas Metálicas Luisianeras, S.L.

**Address:** Polígono Industrial Los Motillos, C/ Madrid No. 11, units A, C, D, G, H. 41430.

**City:** La Luisiana (Sevilla) – España.

**Tax ID:** B – 41834508

**Main telephone:** +34 955 907 784

**Website:** [www.ascensoracuatico.com](http://www.ascensoracuatico.com)

**Email:** [info@ascensoracuatico.com](mailto:info@ascensoracuatico.com)

## 2. Functional characteristics

The METALU PANTALAN model is a Pool Lift designed to provide **autonomous** access to swimming areas for people with reduced mobility. The **design is fully customised** and is intended for environments with significant water level variation, such as pontoons, natural pools or harbours.

It is a lift made of **AISI 316 stainless steel** with a load **capacity of up to 120 kg**. It is operated by a **hydraulic system** requiring a water pressure between **3.5 and 5.5 bar**, and features a **dual valve control** to operate it both from outside and inside the water area. The **seat is removable** to prevent misuse.



Among the main characteristics of this product, the following points should be highlighted:

- Model designed for environments with **significant water level variation**: pontoons, natural pools, harbours, etc.
- **Fully customised design** according to customer requirements.
  - Manufacturing limit: profile with a **maximum** water level variation of **1.5 metres**.
- Fully **autonomous** user operation.
- Certified to lift **up to 120 kg**.
- Requires a **water supply between 3.5 and 5.5 bar** for operation.
- Rotation angle: **175°**.
- **Dual control valves** at different heights to ensure **user autonomy** both from outside and inside the water area.
- Made of **AISI 316 stainless steel with powder coating protection**.
- **Removable seat** to prevent misuse. The seat is also height-adjustable. Includes:
  - Folding footrest
  - Folding armrest
  - Safety belt.
- Auxiliary **shower**.
- **Pressure gauge** to measure the pressure supplied to the hydraulic system.
- The lift is delivered fully assembled and ready for installation.
- Adaptability (on request): reverse rotation or left rotation.

The technical specifications of the METALU PANTALAN model are shown below.

Technical specifications		
<b>Material</b>	Acero inoxidable AISI 316 Protección de pintura en polvo	-
<b>Maximum load capacity</b>	120	kilograms
<b>Pressure range</b>	3,5 – 5,5	bar
<b>Rotation angle</b>	170	degrees
<b>Turning radius</b>	700	milímetros
<b>Travel</b>	Depends on the design	metres
<b>Weight</b>	Depends on the design	kilograms
<b>Lifting time without load (depending on pressure)</b>	Depends on the design	seconds
<b>Lowering time without load</b>	Depends on the design	seconds
<b>Water capacity in the cylinde</b>	Depends on the design	litres

### 3. Main producto standars

- The manufacture and finishing of the lift comply with the following characteristics:
  - The entire structure and accessories are manufactured in **AISI 316 stainless steel**.
  - All metal finishes are free from edges that could **cause injury**.
  - All fasteners used **pose no risk**, as the lift is assembled with round-headed screws to prevent scratching or snagging the user.
  - Sufficient clearances have been provided in the moving parts to prevent any risk of **entrapment of limbs**.
- A standardised warning label indicating the **maximum load capacity** (150 kg) is included.
- The static coefficient has been taken into account and doubled in the calculation **of mechanical strength and tipping risk**.
- The movement speed of the moving parts is smooth and **below 0.1 m/s**, thereby preventing the risk of falling from the seat.

## 4. EC declaration of conformity



### EC DECLARATION OF CONFORMITY

The undersigned, representing the company:

- **Company name:** Manufacturas Metálicas Luisianeras, S.L.
- **Tax ID:** B – 41834508.
- **Address:** Polígono Industrial Los Motillos, C/ Madrid No. 11m units A, C, D, G, H. 41430.
- **City:** La Luisiana (Sevilla) – España.

Product description:

- **Model:** METALU Pantalan.
- **Type:** Pool lift with hydraulic lifting and rotation movements designed to facilitate access to and exit from swimming pools for persons with reduced mobility.
- **Capacity:** Lifting capacity 120 kg

Provisions with which the machine complies.

The machine complies with the provisions set out in Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery.

Harmonised standards and technical specifications applied.

- **UNE-EN 61310-1:2008.** Safety of machinery. Indication, marking and actuation.  
Part 1: Requirements for visual, audible and tactile signals.
- **UNE-EN 61310-2:2008.** Safety of machinery. Indication, marking and actuation.  
Part 2: Requirements for marking.
- **UNE-EN ISO 12100:2012.** Safety of machinery. General principles for design.  
Risk assessment and risk reduction.
- **UNE-EN 547-3:1997+A1:2008.** Safety of machinery. Human body measurements.  
Part 3: Anthropometric data.

Luisiana, 14 november 2014

A handwritten signature in blue ink, appearing to be 'M. Escalera Soler', is written over a faint, light blue horizontal line.

Fdo. D. Manuel Escalera Soler.

Managing director

## 5. Identification plate

The product shall bear a legible and indelible identification plate engraved with the following information:

- Name and address of the manufacturer.
- CE conformity marking.
- Year of manufacture.
- Serial number.

ASCENSOR ACUATICO	METALU	CE
AÑO DE FABRICACION	<input type="text"/>	
Nº DE SERIE	<input type="text"/>	
MANUFACTURAS METALICAS LUISIANERAS S.L.		
<a href="http://WWW.ASCENSORACUATICO.COM">WWW.ASCENSORACUATICO.COM</a>		
C/ MADRID, 11 41430 LA LUISIANA (SEVILLA) SPAIN		
TFN. (+34) 955 90 77 84		

## 6. Warranty certificate

**Manufacturer:** Manufacturas Metálicas Luisianeras, S.L.

**Product:** Pool lift "METALU Pantalan". Hydraulic assistant.

**Serial number:**

**Date of delivery:**

**General conditions:**

- **Duration and scope of warranty:** The warranty period is two years against any functional defect.

**Customer details:**

**Customer:**

**Address:**

**Contact person:**

**Telephone:**

**Company signature:**

## 7. Certificate of commissioning

Main details of the manufacturing company:

- **Company name:** Manufacturas Metálicas Luisianeras, S.L.
- **Tax ID:** B – 41834508.
- **Address:** Polígono Industrial Los Motillos, C/ Madrid No. units A, C, D, G, H. 41430.
- **City:** La Luisiana (Sevilla) – España.

Product description:

- **Model:** METALU Pantalan.
- **Type:** Pool lift with hydraulic lifting and rotation movements designed to facilitate access to and exit from swimming pools for persons with reduced mobility.
- **Capacity:** Lifting capacity 120 kg.

Technical construction file endorsed by the Association of Technical Engineers and Expert Surveyors of Seville.

This document certifies that:

1. The competent technician (Jesús León Delis, registered member No. 10061) certifies **the assembly, commissioning and entry into service of the product described above.**
2. The manufacture and assembly of the lift have been carried out in accordance with the technical project and its assembly drawings.
3. The design and manufacture have been carried out in accordance with current Spanish regulations relating to machinery safety, taking into account the following harmonised standards UNE-EN 61310-1-2008, UNE-EN 61310-2-2008, UNE-EN ISO 12100-2012, UNE-EN 547-3-1997+A1:2008.
4. The pool lift is supplied with the CE marking, and therefore its design and manufacture comply with the regulations of the European Economic Community.

La Luisiana, 14 november 2014.

The competent technician:



Jesús León Delis

Registered No. 10061

The manufacturing company:



Manuel Escalera Soler

## 8. Certificado de instalación.

**Installing company:**

**Declares:** that the lift has been installed in accordance with the instructions provided by the manufacturer.

**Product:** Pool lift "METALU Pantalan". Hydraulic assistant.

**Serial number:**

**Date of installation:**

**Place of installation:**

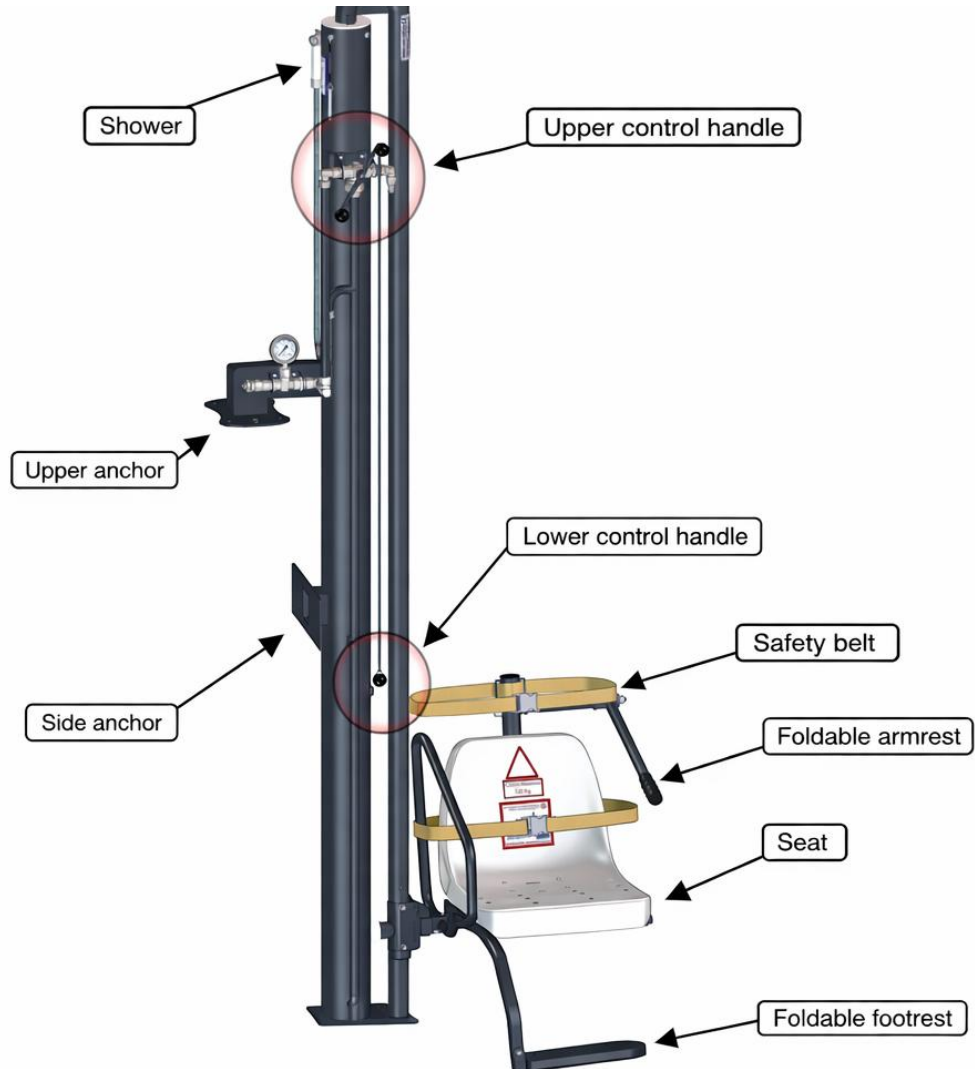
**Name of installer:**

**Installer's ID number:**

**Installer's signature:**

## 9. Standard package components

The standard package of the METALU Pantalan model consists of the components shown in the following figure.



*General components of the METALU PANTALAN model.*

## 10. Shipping components

The shipping components of the METALU PANTALAN lift are as follows:

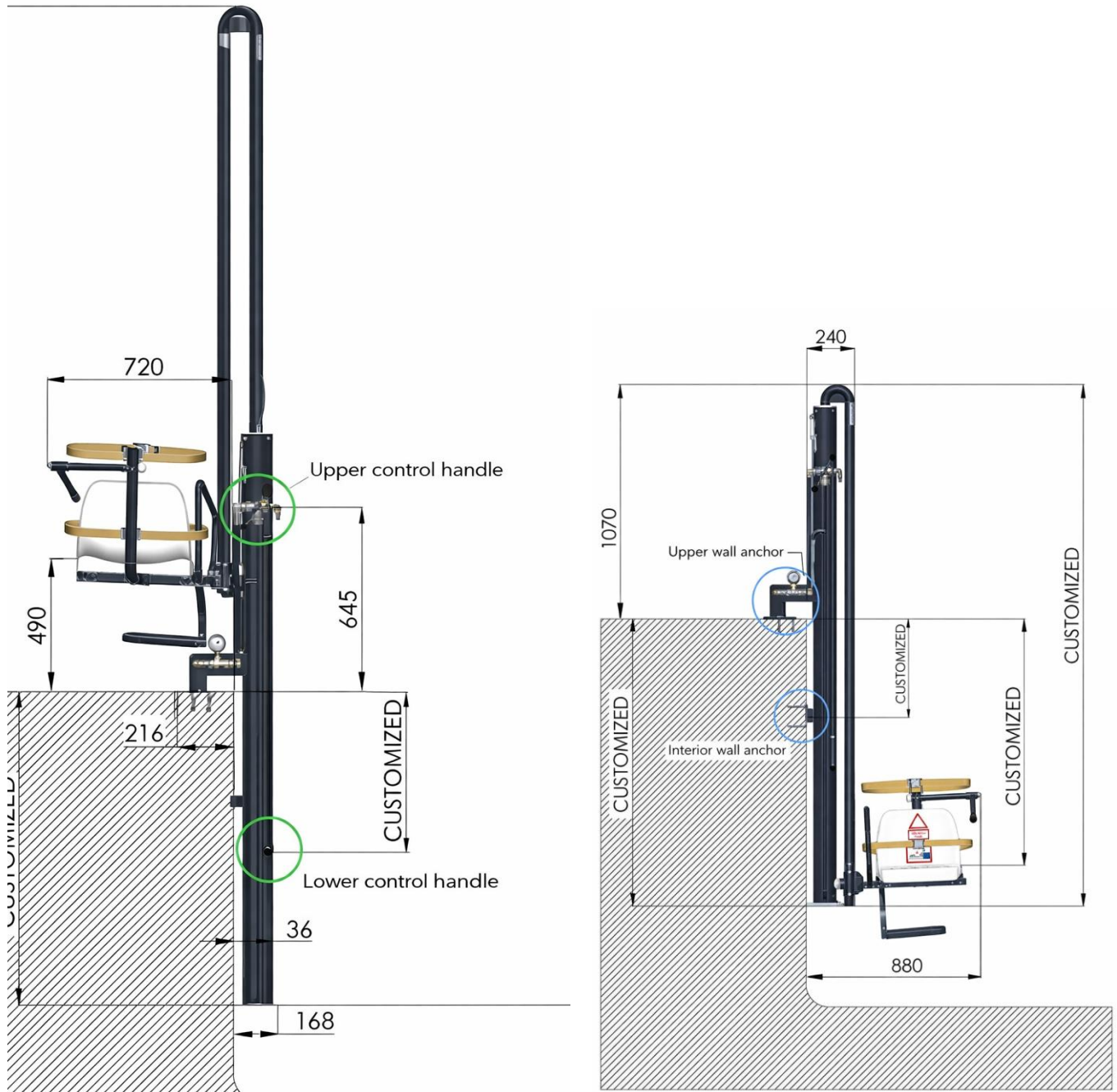
1. Lift body:
  - Cylinder and shaft.
  - Valve system.
  - Shower.
  
2. Seat:
  - Seat.
  - Folding armrest
  - Folding footrest.
  - Safety belt.
  
3. Documentation:
  - Manual and certificates.
  - Pre-installation e installation.
  - Anchor bolts.

All components are protected with expanded polystyrene.

The product packaging is customised for each shipment, as it depends on the final size of the lift.

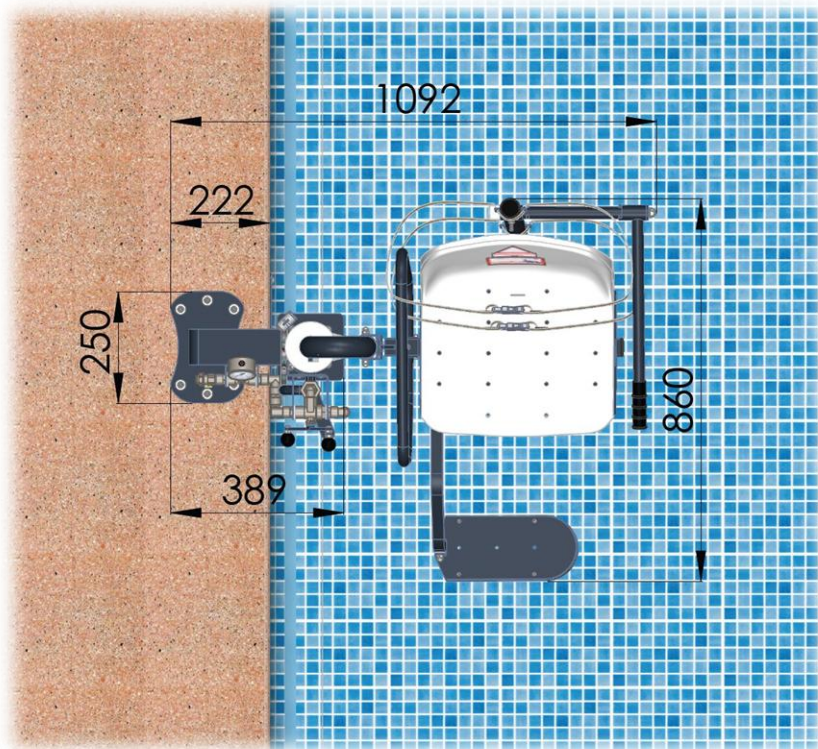
## 11. Spatial dimensions of the lift

The dimensions of the lift positioned in a standard configuration are shown below. As this is a customised model, most of the dimensions depend on that customisation.

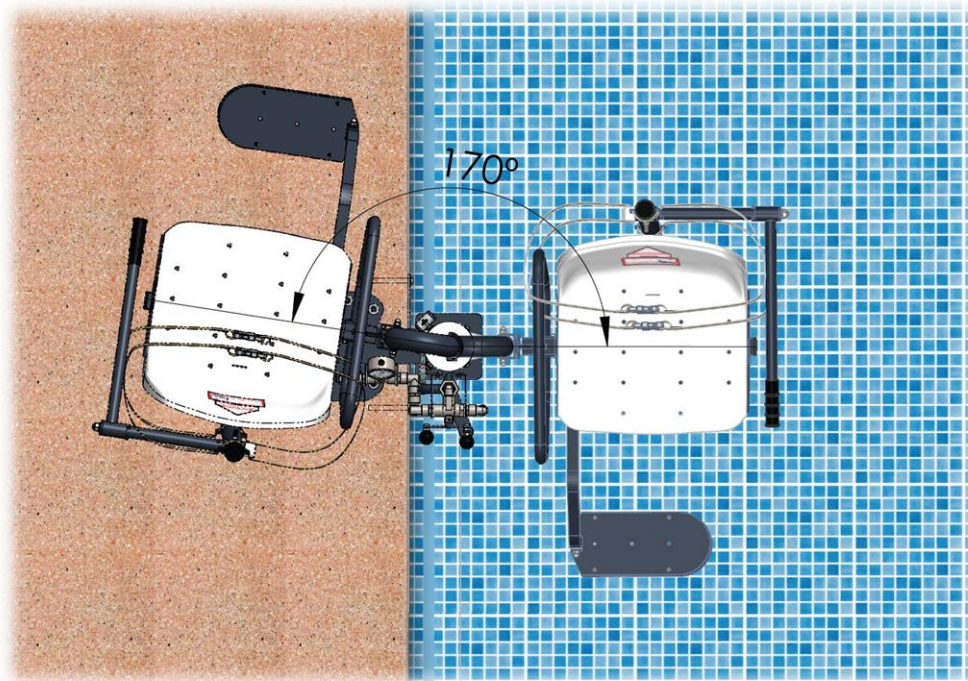


Units in millimetres [mm].

Lift dimensions in plan view.

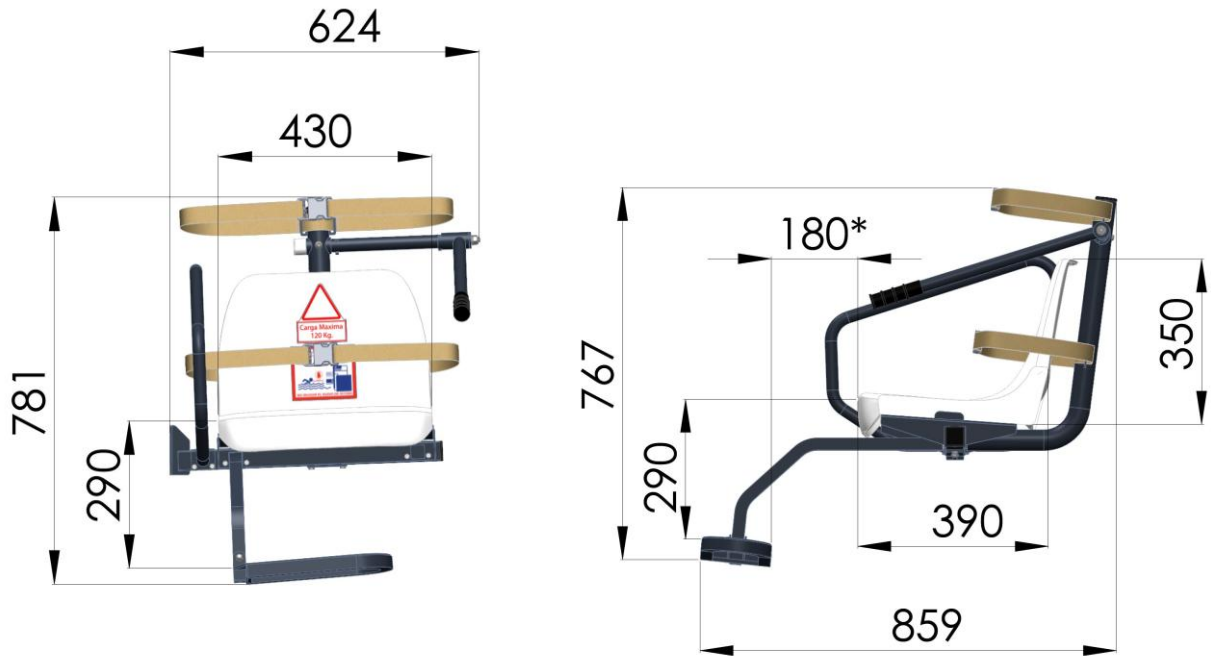


The rotation range of the lift is 170°.



Units in millimetres [mm].

The following image shows the dimensions of the seat, folding armrest, folding footrest and safety belt.



*\* The folding footrest has 3 positions. The 180 mm dimension corresponds to the intermediate position. The other two positions are at a distance of 5 cm: one further away and the other closer.*

Units in millimetres [mm].

## 12. Proper use of the product and maintenance

To ensure proper use of the product and correct maintenance that significantly extends its service life, the following points are recommended:

- Proper use of the lift:
  - Use the lift responsibly, understanding its functionality and purpose before use.
  - The lift must not be used unless the proper steps for commissioning have been followed. Check the assembly and installation described in the manual.
  - The lift must only be used by persons authorised by the facility.
  - The user position is the seat, where the user must sit upright and centred. From this position, the controls are easily accessible.
  - Before using the lift, the user must ensure that no person or obstacle is within the path of the lift's moving parts.
  - Once the user is in the pool, the seat must be returned to its initial position, thus preventing the lift from becoming an obstacle for other users.
  - The maximum load capacity of the lift, and therefore of the user, is 120 kg.
  - It is prohibited for more than one person to use the lift at the same time, even if the combined weight is less than 120 kg.
  - It is prohibited to use the lift as a platform for play, jumping, etc.
  - The seat complies with anthropometric measurements according to the European standard.
  - Follow the visual indications provided by the product.
  - The water supply pressure in the hydraulic system must be maintained between 3.5 and 5.5 bar. It must never exceed 5.5 bar.
  - Use clean mains water for the operation of the lift. If well water or other water containing impurities is used, filters must be installed.

- Maintenance:
  - Clean the lift structure daily with abundant fresh water under pressure to remove any external particles from the surface. Then dry with a cotton cloth.
  - The installation area of the lift must have suitable environmental conditions to prevent stains on the Pool Lift:
    - Properly regulate ambient **humidity levels**.
    - Properly regulate **the ventilation system**.
    - Properly regulate **water parameters**, keeping them balanced within recommended levels: pH, chlorine and/or salt (including during winter periods).
  - If the lift is not used for several weeks, operate it at least once a week with a medium load (approximately 75 kg), performing several lifting and lowering cycles. This activity will help keep the internal areas of the cylinder clean.
  - During periods of non-use, store the lift in a covered place with suitable environmental conditions to prevent stains:
    - Properly regulate room **humidity levels**.
    - Properly regulate the room **ventilation system**.
    - Properly regulate room **temperature**.
    - Avoid placing the lift near **chemical/toxic products**.
  - The lift must be stored clean and dry, with the cylinder empty (seat in the lowest position), and in a place where it will not be exposed to impacts.
  - Periodically, verify that all parts of the lift are in good condition and that all bolts and nuts are properly tightened. If any part is damaged, do not use the lift until it has been replaced. Increase the frequency of these inspections in indoor pools.

**IMPORTANT:** Maintenance in coastal **and/or saline environments**:

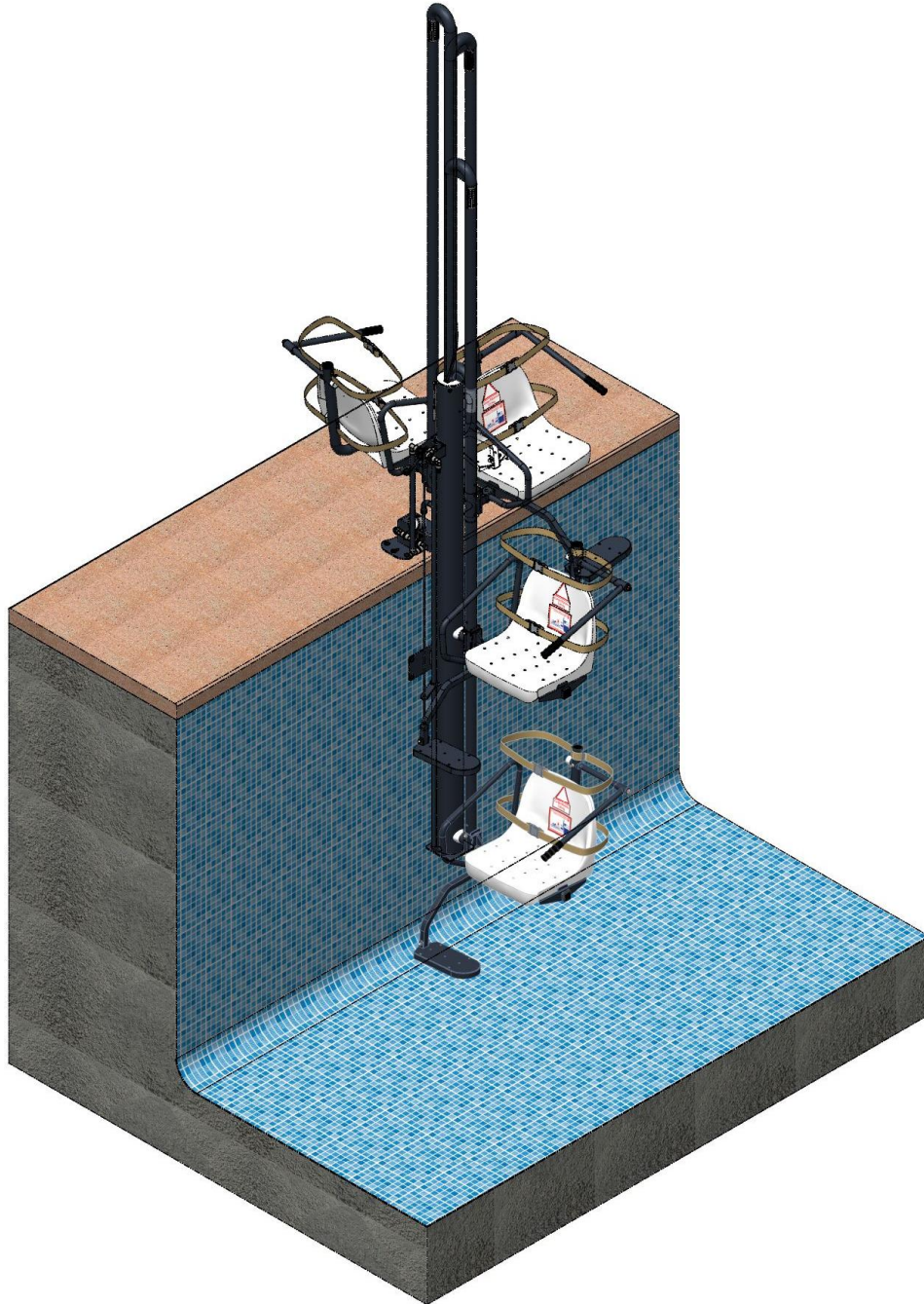
Given that seawater is highly corrosive, maintenance actions in these environments are the same as for a lift installed in a standard pool, **with the difference being an increased cleaning frequency**. To keep the lift in optimal condition, rinse it daily with fresh water at the end of the day and dry it with a cotton cloth.

***Para más información acerca del mantenimiento  
visite el siguiente enlace.***



The movement of the Pool Lift is carried out by a hydraulic mechanism. When the user turns the control handle, the lift will begin to descend or ascend, entering or exiting the pool.

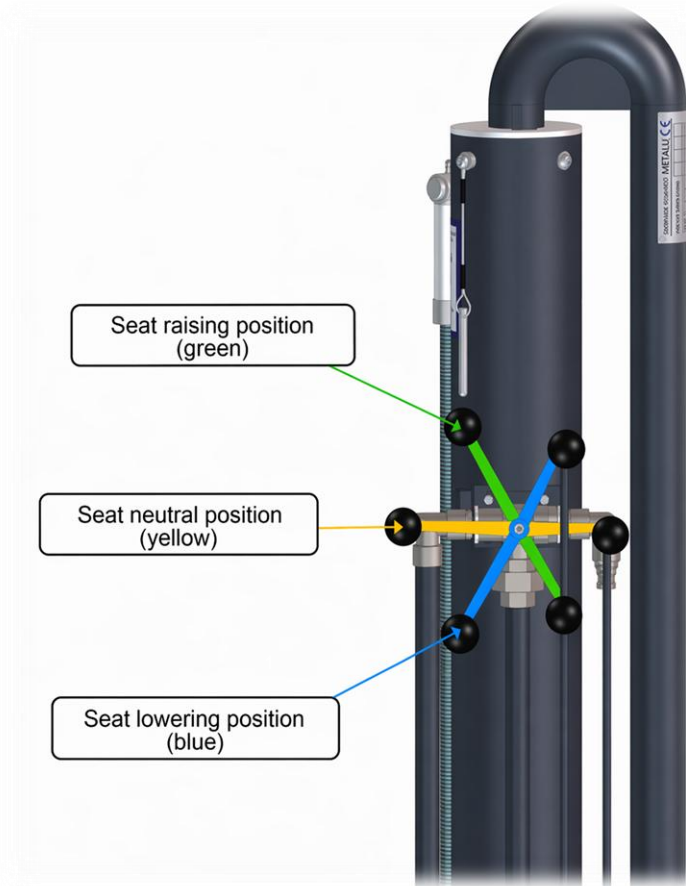
The following image shows the standard rotation of the lift, i.e. right-hand rotation. There is also a version of this lift with left-hand rotation..



*Standard lift rotation: right-hand rotation*

The element that activates the operation of the lift is the control handle. The lifting or lowering speed can be adjusted depending on how much the handle is opened. The PANTALAN model has two control positions to ensure user autonomy.

Turning the handle causes the lift to ascend, descend or stop as required:



# 10 basic rules

**1** METALU equipment must be installed in accordance with the manufacturer's instructions, making any necessary enquiries. The installer must test the equipment once installation has been completed and ensure that everything is functioning correctly.

**2** In accordance with Article 12 of Law 11/1997 on Packaging, the final holder is responsible for the packaging. Reuse it whenever possible and dispose of the remainder at appropriate recycling facilities.  
Protecting the environment is everyone's responsibility.



**3** METALU equipment must only be used by facility managers and authorised users.

**4** Facility managers must be familiar with the equipment after having read the instructions. If, after reading them, there are any doubts, the manufacturer must be contacted using the addresses provided therein.

**5** Facility managers must inform users about the correct operation of the equipment.

**6** Before operating the lift, ensure that the operating radius is clear. While the lift is in operation, do not place hands or any objects in its moving parts.



**7** External cleaning is a mandatory condition for warranty validity. Follow the cleaning instructions supplied with the lift.



**8** In accordance with the Low Voltage Electrical Regulations (REBT), ITC-BT-31, the machine must be connected to the equipotential bonding conductor that the swimming pool is required to have.

**9** The installer must be aware of and take into account the regulations of the relevant autonomous community when carrying out the installation.

**10** If the holder of this document is not the final customer, it must be passed on to them.

# MANUFACTURAS METÁLICAS LUISIANERAS, S.L.

## Hydraulic pool lift METALU PANTALAN model

### Manual and Certificates

**Address:** Poligono Industrial Los Motillos, C/ Madrid No. 11, units A, C, D, G, H. 41430.

**City:** La Luisiana (Sevilla) – España.

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**Email:** [info@ascensoracuatico.com](mailto:info@ascensoracuatico.com)

#### **Technical support contacts:**

- Telephone: +34 610 267 663
- Email: [soporte@ascensoracuatico.com](mailto:soporte@ascensoracuatico.com)

