

# POOL LIFT METALU 400

PORTABLE BATTERY-POWERED LIFT



★★★★★  
**GARANTÍA METALU**

**3 AÑOS** El elevador

**5 AÑOS** Todo el repuesto



## MANUAL AND CERTIFICATES



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## Manual and certificates of the lift

### 1. Manufacturer's 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 – 41.834.508

**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 S-400 pool lift is designed to provide **independent** access to swimming pools for people with reduced mobility. This pool lift does **not require floor anchoring**, thus avoiding the need to drill holes near the pool area. It is manufactured in AISI 316 stainless steel with powder-coated protection. **Load capacity: 120 kg or 150 kg**, depending on user requirements. The vertical travel of the seat is **approximately 1 metre**.





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

- The movement of the pool lift is carried out in a **single motion** that allows the user to enter or exit the water. It is equipped with a control unit that enables the user to operate it (stop the travel at any point or change direction) as required.
- **Fully independent user operation.**
- **Use of DUPLEX-grade stainless steel fasteners**, a material with high mechanical strength and excellent corrosion resistance, superior to that of standard stainless steels.
- The lift does **not require any floor anchoring**, thus avoiding the need to drill holes near the pool.
- **It can serve multiple pools** quickly and easily.
- It incorporates a safety system to prevent operation if the lift is not resting on its rear supports.
- The lift is **supplied fully assembled** and ready for use.
- **Removable seat** to prevent misuse.
- **Folding armrest.**
- **Folding footrest** adjustable in length.
- Optional accessories (on request):
  - Safety belt.
  - Protective cover.

The technical characteristics of the METALU S-400 model are shown below.

Technical specifications S-400		
Material	AISI 316 stainless steel	-
Maximum load capacity	120 or 150	kg
Net weight (approx.)	200	kg
Packaged weight (approx.)	300	kg
Movement speeds	Below 0.1	m/s
Maximum vertical seat travel	1 (approx.)	m.
Pool depth in operating area	0,90	m
Lifting time without load	40	seconds
Lifting time with 75 kg load	45	seconds
Lowering time without load	38	seconds
Lowering time with 75 kg load	40	seconds



### 3. Main product standards.

- The manufacture and finish of the lift comply with the following characteristics:
  - The entire structure and accessories are manufactured in **AISI 316 stainless steel**.
  - All metal finishes avoid any sharp edges that could **cause injury**.
  - All fasteners used present **no risk**, as the unit is assembled using round-head screws with no possibility of scratching or snagging the user.
  - Sufficient clearances have been provided in moving parts to prevent any risk of **entrapment of limbs**.
- A standardised warning sign indicating the **maximum load capacity** (120 kg or 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 mobile components is smooth and **below 0.1 m/s**, preventing the risk of falling from the seat.
- Access to the pool is provided by means of a seat with backrest, allowing a wheelchair **user to operate it independently**.
- The lift is equipped with a **red emergency stop** button located on the control box in a visible and accessible position.
- The control box includes LED indicators showing **the battery charge level**.
- The lift's up/down linear actuator incorporates a **red emergency release** handle that allows manual lowering if necessary.
- The seat includes an **armrest** on the side opposite the transfer area.
- The lift must be installed near one of the pool access ladders and in an area with **a depth between 0.80 and 1.20 m**, in case assistance is required for a person with disability and/or reduced mobility during use.



## 4. EC Declaration of conformity



### EC DECLARATION OF CONFORMITY

The undersigned, on behalf of the company:

- **Company name:** Manufacturas Metálicas Luisianeras. S.L
- **Tax ID:** B - 41.834.508
- **Address:** Polígono industrial Los Motillos, C/ Madrid No.11, units A, C, D, G, H. 41430.
- **City:** La Luisiana (Sevilla) – España.

Product description:

- **Model:** METALU S-400
- **Type:** Pool lift with electric lifting movements (24 V) to facilitate access to and exit from swimming pools for people with reduced mobility.
- **Capacity:** Lifting capacity 120 kg or 150 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, acoustic 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.

La Luisiana, 5 February 2013

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.



## 6. Warranty certificate

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

**Product:** Pool lift METALU S-400:

<input type="radio"/> Lifting capacity 120 kg	<input type="radio"/> Lifting capacity 150 kg
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**Serial number:**

**Delivery date:**

**General conditions:**

- **Duration and scope of the warranty:** the warranty period is three years against any operating defect and five years against any material defect (except batteries, which are covered by a two-year warranty).

**Customer details:**

**Customer:**

**Address:**

**Contact person:**

**Telephone:**

**Company signature:**



## 7. Commissioning certificate

Main details of the manufacturing company:

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

Product description:

- **Model:** METALU S-400.
- **Type:** Pool lift with electric lifting movements (24 V) to facilitate access to and exit from swimming pools for people with reduced mobility.
- **Capacity:** Lifting capacity 120 kg or 150 kg.

Technical Construction File endorsed by the Association of Technical Engineers and Surveyors of Seville.

This document certifies that:

1. The competent technician (Jesús León Delis, registration No. 10061) certifies **the assembly, commissioning and putting 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 bears the CE marking, and therefore its manufacture and design comply with the regulations of the European Economic Community.

La Luisiana, 5 February 2013.

The competent technician:

Jesús León Delis

Registration No. 10061

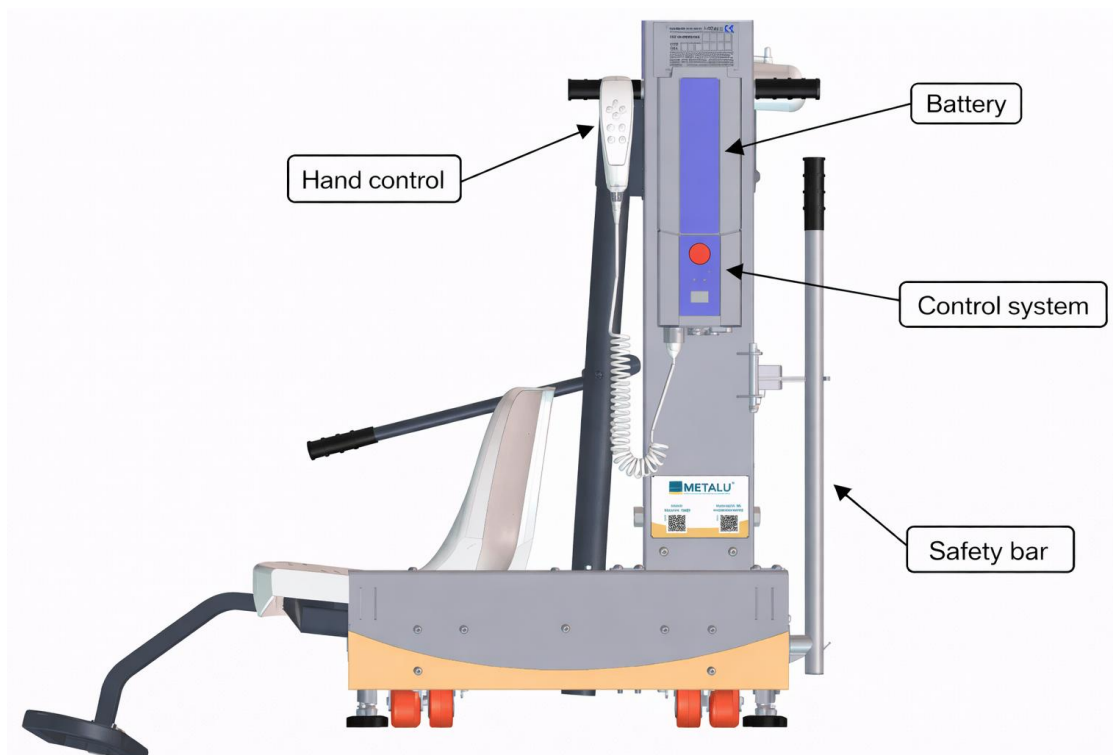
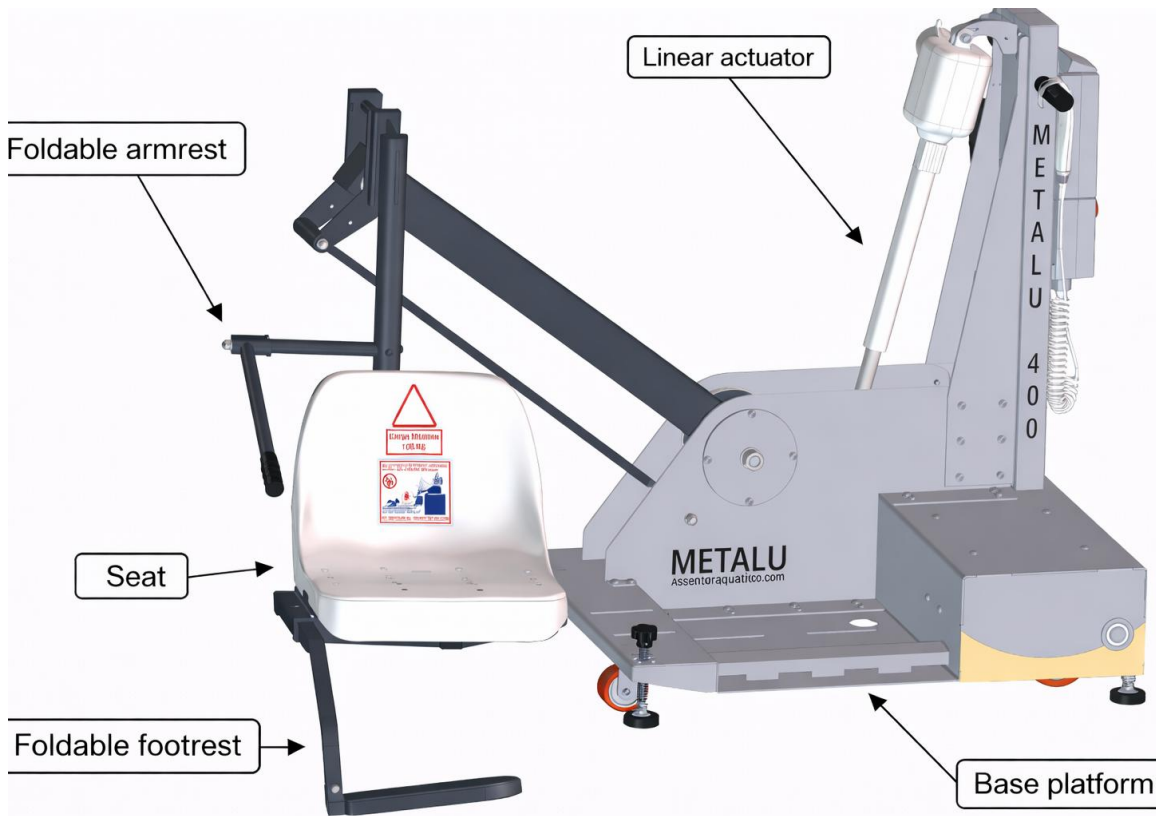
The manufacturing company:

Manuel Escalera Soler



## 8. Components of the standard package

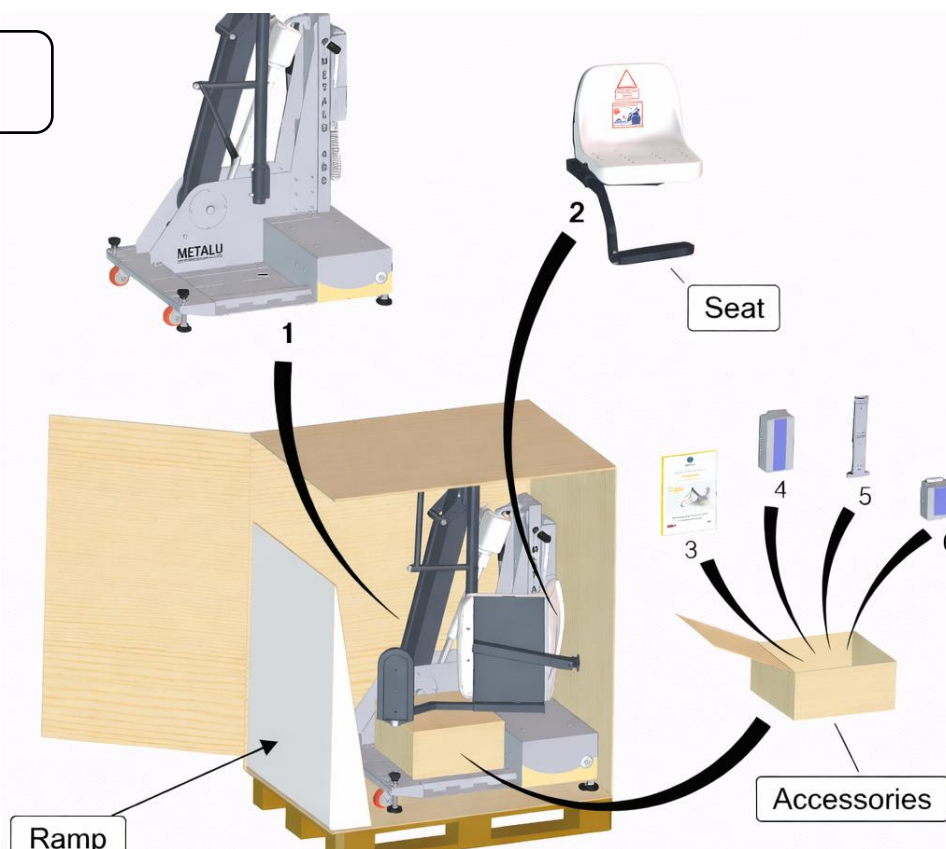
The standard package of the METALU S-400 model consists of the following components:



## 9. Shipping components

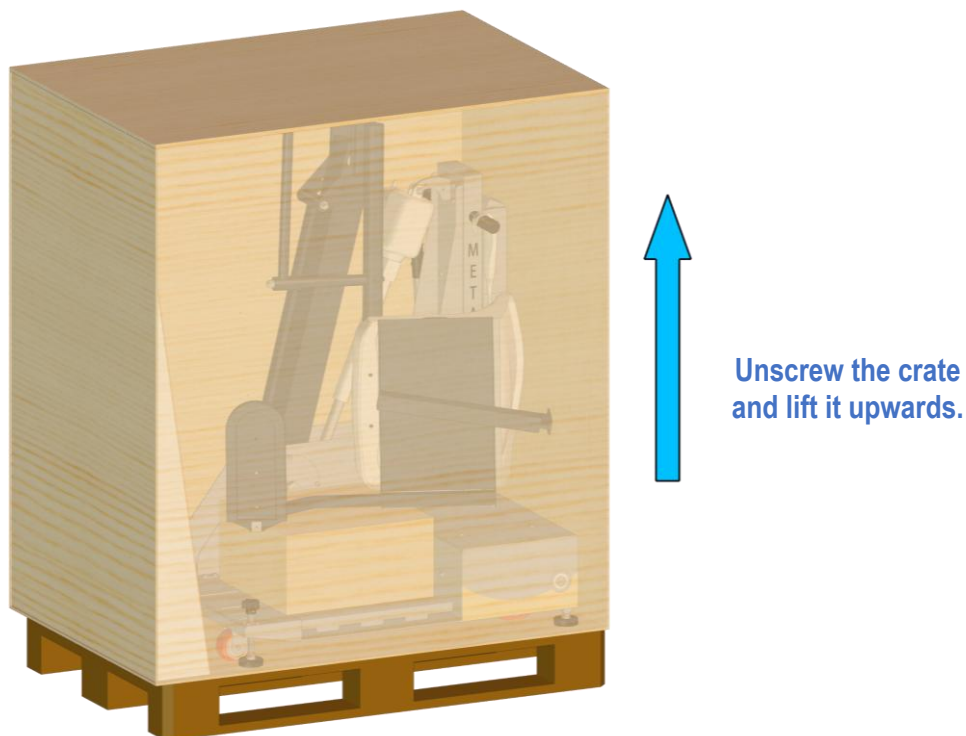
Shipping components			
Order type	Packaged weight [kg]	Dimensions (width x length) [mm]	Contents
Standard order	Approximately 300 kg	Euro pallet: 1200 x 800 Height: 1455	1. Lift body
			2. Seat
			3. Documentation: <ul style="list-style-type: none"> <li>• Installation manual and certificates.</li> <li>• Installation of the lift</li> </ul>
			4. Auxiliary battery
			5. Battery charger holder
			6. Battery charger

Parts protected with expanded polystyrene.

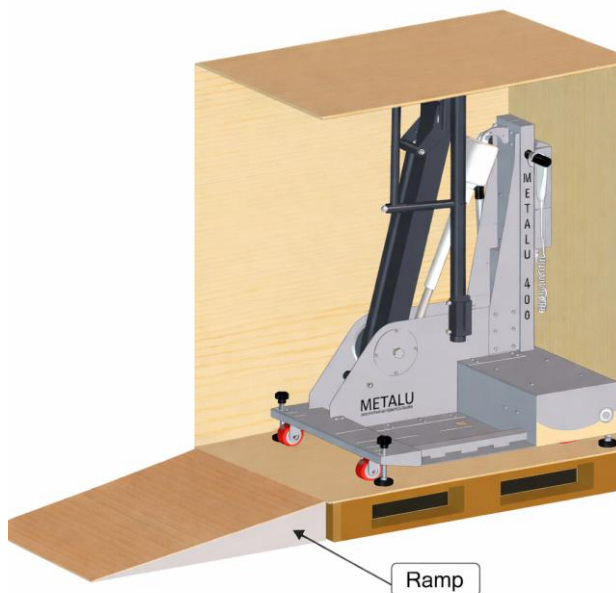




To unpack the unit, unscrew all the packaging screws and lift the crate upwards.

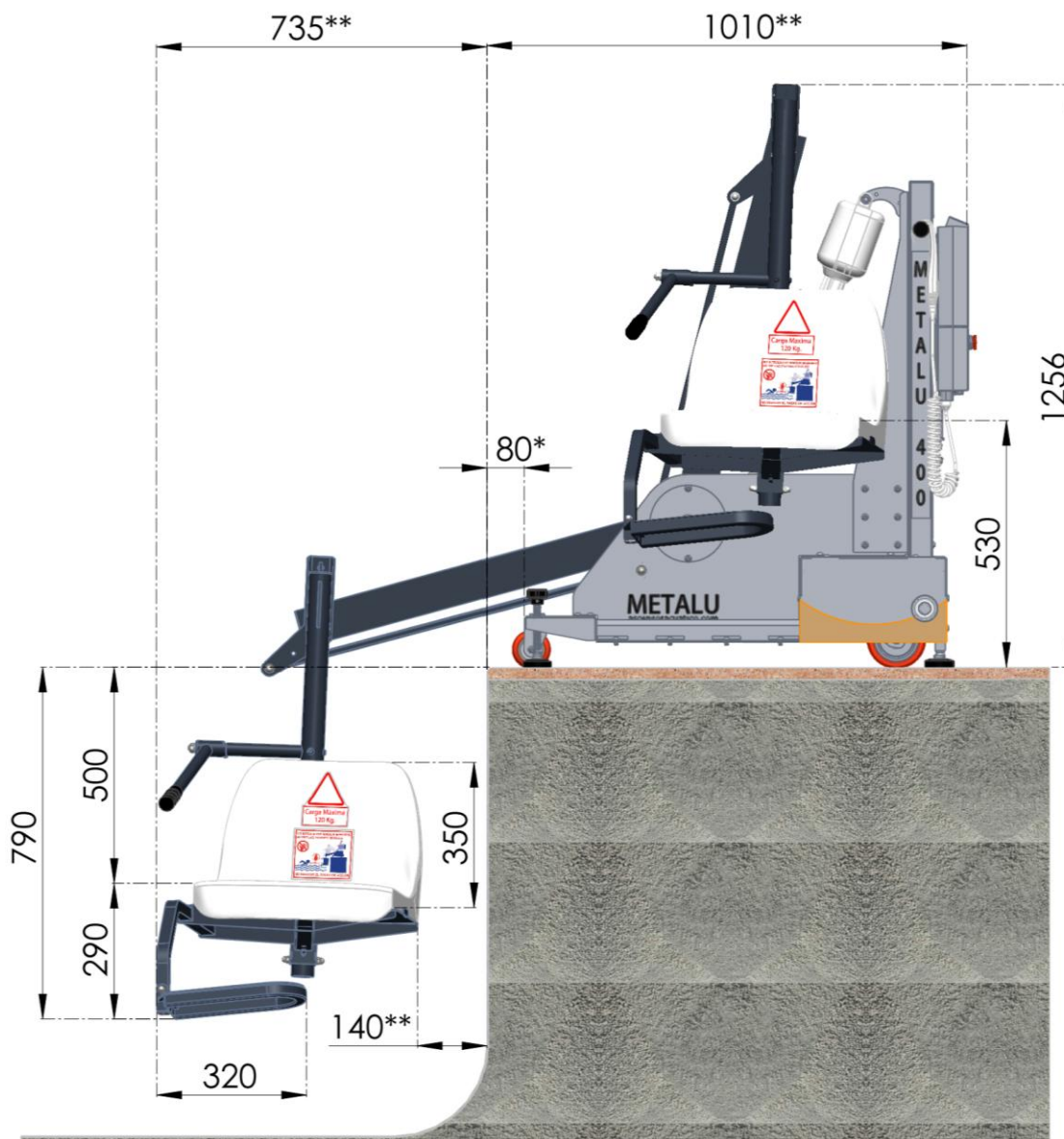


The shipment includes a ramp to facilitate removing the lift body from the packing crate. Before moving the lift body down the ramp, it is recommended to remove the seat and the documentation box from the packaging.



## 10. Overall dimensions of the lift

The following image shows the dimensions of the METALU S-400 lift in relation to a standard pool profile, units in millimetres [mm].



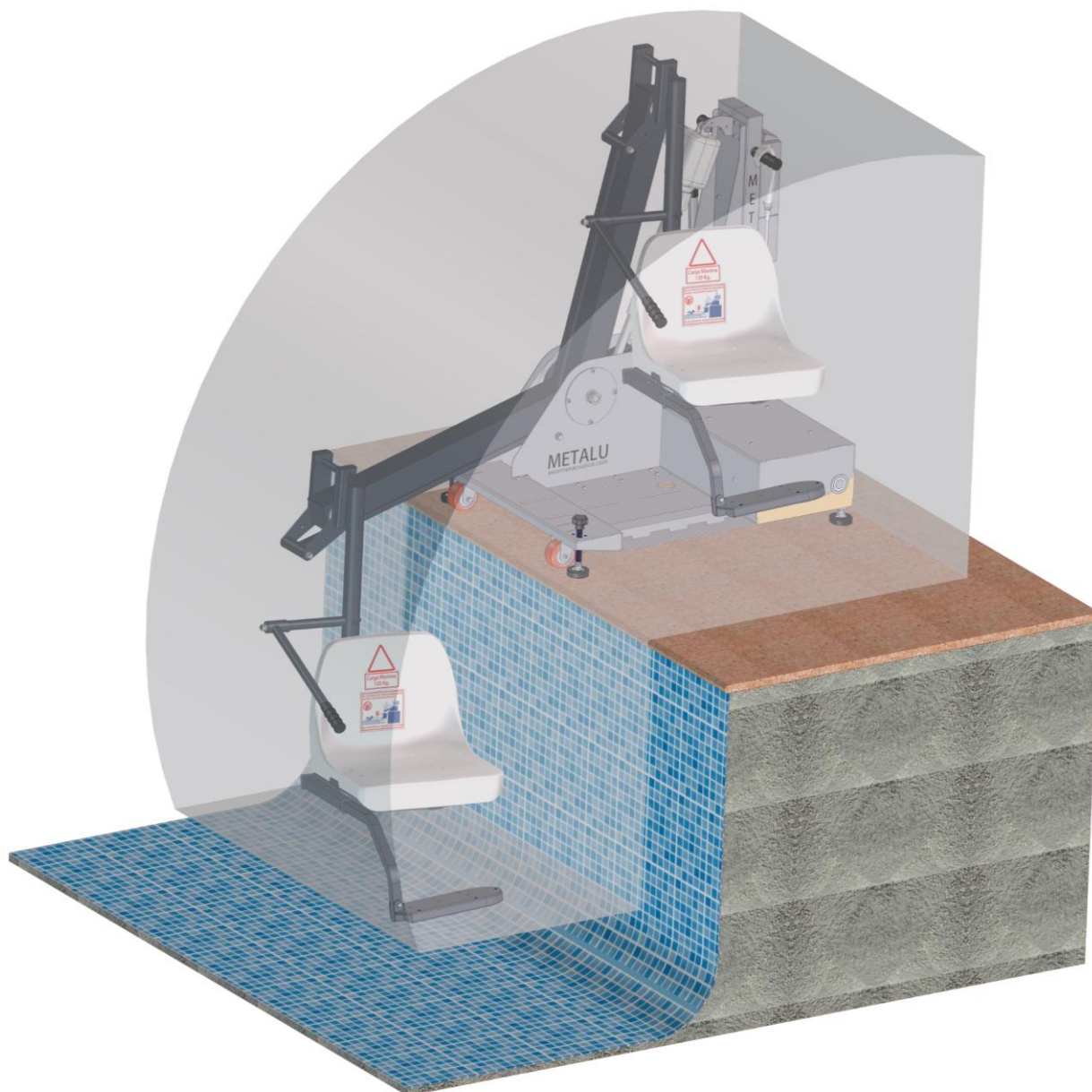
\* The distance from the lift to the edge of the pool may vary between 50 mm and 120 mm; therefore, an average distance of 80 mm has been indicated. The dimensions marked with \*\* depend on this value.

\*\* These dimensions depend on the value indicated in the previous note (80 mm dimension).





In three-dimensional space, the limit positions of the lift are shown in the following image.

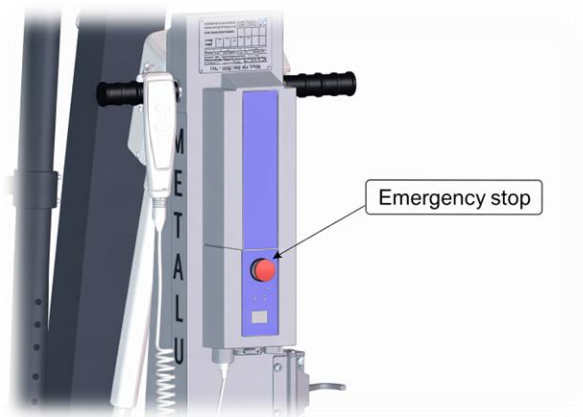


*Three-dimensional space dimensions of the S-400 lift.*

## 11. Operation of the lift

To operate the pool lift, follow the steps below:

**Release the emergency stop** on the control system (24 V electrical mechanism).



1. Sit on the seat and place your feet on the footrest.
2. Use the lift control unit located on your left-hand side.
3. Press the lowering button on the control unit to move the lift into the pool.

**IMPORTANT:** *Ensure that there are no swimmers in the water who could be positioned beneath the seat of the pool lift at any point during its travel. The landing area must be monitored at all times to prevent anyone from being accidentally struck.*

4. Return the seat to its initial position by pressing the raising button on the control unit. The lift will then remain positioned outside the pool, ready for the next user. This prevents the seat and its accessories from becoming an obstacle for swimmers.

To exit the pool, follow Steps 5 to 1 in reverse order, observing the same precautions and warnings.

### Movement of the lift:

- The movement of the pool lift is carried out in a **single motion** that allows the user to enter or exit the water.agua.





## 12. Proper use of the product and maintenance

- Preliminary considerations.
  - For the correct and safe use of the METALU S-400 pool lift, follow all the instructions in this manual and comply with the stated precautions, warnings and maintenance instructions. It is the responsibility of the lift owner to ensure that the instructions provided in this manual are followed.
  - If certain users require assistance from third parties, the number of persons required to help them transfer to the seat and enter the water must be taken into consideration.
  - If the pool lift is to be used independently by a person with reduced mobility, without assistance, a communication device must be available in the operating area in order to request help if necessary.
  - During movement, or when movement is about to start, all parts of the body of both the user and any assistants must be kept clear of the moving parts.
- User position on the pool lift.
  - The user position is the seat, from which the control unit can be easily operated.
  - During movement, the user's limbs will not come into contact with the lift components or the pool edge, provided that the arms remain on the armrests and the feet are placed on the footrest.
  - The seat complies with anthropometric measurements in accordance with European standards
- Proper use of the lift:
  - Use the lift responsibly, ensuring that its function and purpose are understood before use.
  - The lift must not be used unless the relevant commissioning steps have been completed. Check the assembly and installation procedures provided in the manual.
  - The lift must only be used by persons authorised by the establishment.
  - When moving the lift, ensure that the front supports (spindles) are fully raised.
  - Before using the lift, the user must ensure that there are no persons or obstacles within the travel area of the moving parts.
  - Once the user is inside the pool, the seat must be returned to its initial position to prevent the lift from becoming an obstacle to other swimmers..
  - The maximum load capacity of the lift, and therefore of the user, is 120 kg or 150 kg, as indicated on the warning label supplied.
  - It is strictly prohibited for more than one person to use the lift at the same time, even if the combined weight is less than 120 kg or 150 kg, as applicable.
  - It is prohibited to use the lift as a play platform, for jumping, etc.
  - Follow the visual instructions provided on the product.
  - Engage the emergency stop on the control system whenever the lift is not in use.
  - Do not immerse the control unit. It may be exposed to splashing and water jets (IP66).



- Maintenance:
  - Rinse the structure with fresh water, taking special care not to direct water towards the electrical components. Then dry completely with a cotton cloth.
  - Dry any splashes from the electrical components. Regularly clean the metal connections of the battery, charger and control box using a nylon scouring pad.
  - Check the battery charge level and recharge if necessary. Recharge the batteries before they are fully discharged (approximately 20 cycles).
  - Periodically check that all parts of the lift are in good condition and that all bolts and nuts are correctly tightened. If any component is damaged, do not use the lift until it has been replaced.
  - If the lift is installed outdoors, it is advisable to cover it in order to extend the service life of all components. This model offers a protective cover as an optional accessory.
  - If the lift is not used for several weeks, we recommend operating it with a medium load (approximately 75 kg), performing several lifting and lowering cycles. This will help keep the lift components in good condition.
  - During off-season periods or times of little or no use, charge the batteries at least once a month, even if they are not being used.
  - The installation area of the lift must have suitable environmental conditions to prevent the appearance of stains on the pool lift:
    - a) Properly regulate ambient **humidity levels**.
    - b) Properly regulate the **ventilation system**.
    - c) Properly regulate the **water parameters**, keeping them well balanced within the recommended levels: pH, chlorine and/or salt (including during winter periods).
  - During periods of non-use, store the lift clean and dry in a covered location where it will not be subject to impacts. The storage area must have suitable environmental conditions to prevent the appearance of stains on the pool lift:
    - a) Properly regulate the room **humidity levels**.
    - b) Properly regulate the room **ventilation system**.
    - c) Properly regulate the room **temperature**.
    - d) Avoid storing the lift near chemical or **toxic products**.

**INDOOR POLS:** Maintenance — and especially cleaning — must be more rigorous in indoor pools due to atmospheric conditions, temperature and the microclimate generated.

*For further information regarding maintenance, please visit the following link.*



# 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.

Battery-powered pool lift model METALU S-400

## Manual and certificates

**Address:** Polígono 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: +34 613 165 661
- Email: [soporte1@ascensoracuatico.com](mailto:soporte1@ascensoracuatico.com)



Other documentation available:



Installation



Exploded view and  
troubleshooting



Additional  
accessories