ORT HOS XXI european inclusive solutions

# WHEELCHAIR

# BLUE

ORT HOS inclusive solutions MOBILITY

blue

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# 1. INTRODUCTION

Orthos XXI products are equipped with studied equipment to serve the sick, disabled and elderly people with multiple disabilities whereby should be advised its use by a health professional or knowledgeable distributor of the product and the purposes for which they are intended and this user manual. Orthos XXI is not responsible for cases where the device is not suitable to the user's disability.

Orthos XXI is ISO 9001 certified, which validates the quality of the products during its manufacture. The vast experience and manufacturing technology allows us to adjust the products to the different disabilities of the end customer. The wheelchair Blue is a Class I medical device according to Regulation (EU) MDR 2017/745.

Proper use in accordance with these instructions ensures safe use for the user. Therefore, we recommend reading this manual and the implementation of safety recommendations.

Orthos XXI reserves the right to make changes to the device due to technical improvements, as well as modify the user manual at any time. The information contained herein may vary slightly in relation to this device.

Thank you for choosing an Orthos XXI product.

# 2. SAFETY INSTRUCTIONS

Before using the wheelchair, you should be aware that under certain circumstances it may become unstable and overturn. The wheelchair is designed to practice water sports.



*Read these instructions before using the device to prevent damage to yourself, to a third party or to the device, and to familiarize yourself with all device functions!*

## 2.1. General Safety Instructions

- Use the wheelchair only for its intended use. Do not use the wheelchair to carry more than one person. Attention to the recommended weight limit (includes the user and the weight of the accessories installed in the wheelchair).
- Always check that the adjustable components are fixed for your safety before starting use, as damage or injury may occur.
- Always use the chair in accordance with the instructions in this manual.
- Always use and adjust the seat belt properly before each use.
- Always check that your chair is in correct operation.
- Make sure BLUE is perfectly secured to the Sand Up Paddle board, with no slack.

- Make sure the user wears a life jacket and, when necessary, a headrest.
- Always practice the sport in a calm sea, in monitored areas.
- When the user needs a companion, the companion should always stay close. Avoid strong swells and currents.
- Beware of the risk of sunstroke/ sunburn when playing outdoor sports.
- When using BLUE, the accompanying person must always be connected to the strap on the SUP board




### 2.2. Weigh Limit

The user's maximum weight should not exceed 120 kg. When user weight exceeds these values, you should order a custom made and/or reinforced wheelchair.

## 3. PURPOSE

The Paddle Inclusive wheelchair is intended to aid users with little or none mobility, allowing them to move around during the practice of water sports. Its objective is to be used on a Stand Up Paddle board, in order to keep the user in a proper sitting posture, without the need to use the lower limbs. It must be used under the responsibility of a companion or instructor.

## 4. GENERAL CHARACTERISTICS

BLUE is delivered in 2 easily mountable structures.
Accompanies the following items:

- chest belt,
- rollers protective legs and feet,
- clip regulator leg structure,
- (*) low pressure wheels ø16” (40cm)
- (*) axles (one for each wheel), for attachment to the structure.

(*) These items will only be provided when the customer requests the order with the wheels.

The chest belt (2) that comes with the chair is adjustable and consists of two parts and a “quick release” system with “VELCROS” quick-fixing straps, located at the end of the straps and in the central part. The chest belt is used when users do not have torso support.

In an emergency, pull the central handle to quickly release the belt.

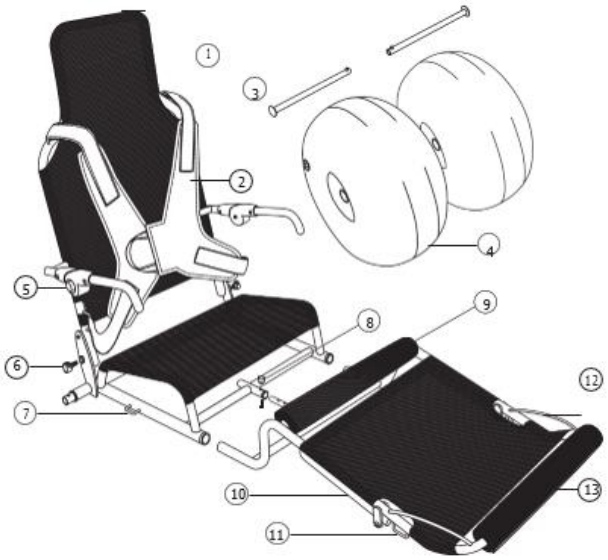



**Figure 1 –** Blue Wheelchair.

| | | | |
|---|---|---|---|
| **(1)** | waterproof and antiallergic fabric | **(8)** | legs adjustment pin |
| **(2)** | adjustable chest belt | **(9)** | roller protection support legs |
| **(3)** | wheel axles | **(10)** | solo chair support |
| **(4)** | balloon type wheels (*) | **(11)** | front fixation handle on the board |
| **(5)** | adjustable armrest connectors | **(12)** | side protection feet handles |
| **(6)** | pin locks backrest adjustment | **(13)** | roller protection feet support |
| **(7)** | side fixation handle on the board | | |

## 5. USE

- Use cables and hooks to attach BLUE to the board.
- Adjust BLUE in a more comfortable position for your legs and for a better backrest experience, use the backrest tilt in the first locking position.

- For safety purposes when playing sports, it is recommended to hire a professional, an instructor or a volunteer, with notions and experience in the practise of SUP boarding.
- It is recommended to use a board above 12 feet (367cm), with a width around 37" (94cm), with a thickness between 6" to 8" (15 to 20cm) and with good fluctuation and volume (350 liters), mainly when used by two persons (instructor/ volunteer and the user), in addition to the use of accessories as life jackets, paddles, among others.
- The tyres are of low pressure and are used to move the user from his/her vehicle to the surfboard, by the water's edge, without the need to use the wheelchair itself. It can also be used as a sunbed for a comfortable sunbathing.
- Always wash BLUE with fresh water after use, as you would with any equipment in a marine environment. Neutral soap and detergents applied with a soft cloth can also be used. Drying is extremely important to avoid the appearance of spots on the product surface. Avoid rubbing with circular movements and always keep the articulated parts, such as armrest labels and locking pins, well lubricated.



*Do not venture if you think the sea is not in perfect seaworthy condition*

# 6. ASSEMBLY

## 6.1. Backrest Setting

The backrest has adjustment for three inclinations. Use the positioning pin (6) for this adjustment. This pin has a locking stage, when it is retracted, which allows for easy adjustment of the inclination. Then just turn the knob and it will automatically lock again. After the first adjustment, repeat the same procedure on the other pin.

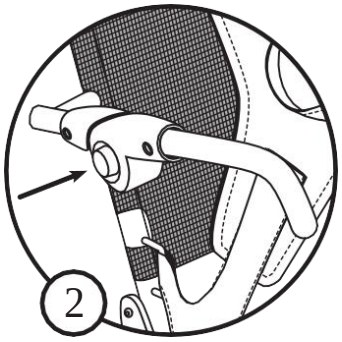
*For a better paddle posture use the most vertical position.

## 6.2. Armrest

To adjust the armrests, press the central button (5) and adjust the position that is most comfortable. This support is only for protection of the arms and lateral support of the torso, allowing balance and safety while paddling or strolling.

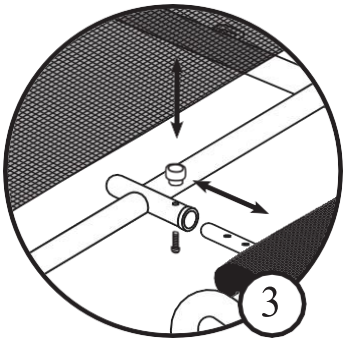
*Do not use the armrests as support to get in and out of the chair.

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## 6.3. Structure Assembly and Leg Regulation

To connect the two main structures of the chair and adjust the distance between the legs, use the central tube and the clip (8) for this fixing.




## 6.4. Mounting and Dismounting the Wheels

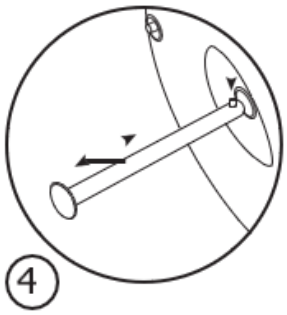
The special low pressure rubber wheels (4) move easily over any type of terrain, just careful with sharp surfaces.

The wheels, when supplied, are empty, so they must be inflated before use. Recommended tire pressure range is from 2 to 4 psi (0.14 to 0.27 bar). We recommend inflating tires to 2.5 psi (0.17 bar).

To fix it, slide the wheel axle (3) until the clip fits perfectly in the hole located in the tube. To remove, just do the opposite movement, pressing the clip and removing the axle.



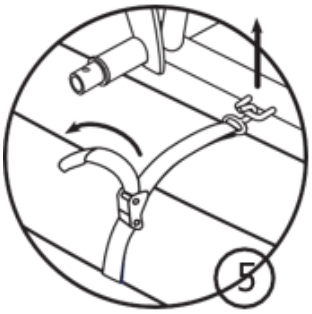
*After use, avoid leaving the wheels in the sun.*




### 6.5. Cable Mounting (Chair Fixation)

The mounting is simple, handles located at the base at two different points - lateral (7) and frontal (11), allow the chair to be fixed to the board with ease and as a single block. Use the cables by attaching the hooks and adjusting the tension of the cables to the full grip.

Never leave any slack between the chair and the surface of the board.




### 6.6. Front Chair Support in the Sand

When the chair has the wheels attached to it and is used only for sunbathing or as a lounger, use the front support (10) to level it with the floor.




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## 7. PNEUMATIC WHELLS

### 7.1. Wheels Maintenance

- Remove the wheel from the axle;
- Rinse with fresh water to remove sand and salt residue from all parts, including bushings;
- Lubricate moving parts with a silicone lubricant.

*Do not use WD40 or petroleum-based oils that attract grain.*

*Tire pressure range: 2 - 4 psi (0.14 - 0.28 bar)*

*Ideal pressure: 2.5 psi (0.17 bar)*

## 8. TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Minimum total length / mm** | 1310 |
| **Maximum total length / mm** | 1660 |
| **Total height with wheels / mm** | 1110 |
| **Total height without wheels / mm** | 910 |
| **Total width with wheels / mm** | 1060 |
| **Total width without wheels / mm** | 670 |
| **Seat width / mm** | 490 |
| **Back recline / °** | 100º, 115º, 130º |
| **Maximum user weight / kg** | 120 |

## 9. DISPOSAL

Orthos XXI products are produced using materials and components that comply with applicable environmental legislation, notably the RoHS directive and the REACH directive.

Recycling and/or disposal of product waste should comply with local waste management guidelines. Alternatively, you may return the product to the supplier for proper disposal.

### 9.1. Disposal of metal or plastic components

Metal or plastic components from your product should be disposed of or recycled as metal/plastic waste.

### 9.2. Unpacking

Your product packaging waste should be recycled as paper / cardboard waste.

## *10. MAINTENANCE AND/OR REPAIR INSTRUCTIONS*

### 10.1. Cleaning/disinfection care

The wheelchair frame and upholstery should be cleaned regularly. We recommend the following:

- Wash the wheelchair with a cloth moistened with neutral cleaner diluted in water;
- The equipment must be dry by passing a smooth texture cloth;
- Don't use abrasives products;
- The equipment should be disinfected with alcohol and derivatives, when they are in diluted concentrations;
- Small stains on upholstery can be cleaned with a damp sponge in water and mild detergent. Rinse with water before drying;
- Do not dry the upholstery on the machine. If the stain is dry, brush the fabric with a brush.

### 10.2. Maintenance made by user

All Orthos XXI products come out inspected and tuned for use immediately. Your continued use requires adjustments and routine maintenance, especially if you changed the original mounts.

### 1.5. Maintenance and repair made by the manufacturer

Regular maintenance allows the identification and replacement of defective and worn parts, which improves the daily operation of your wheelchair.

In case of intervention of the manufacturer for maintenance and repair contact your authorized dealer for processing, budgeting, and shipping for repair.

When sending the wheelchair for repair and/or maintenance should report any anomalies that has detected. For example,

- Strangers sounds / noises / vibrations on wheels or other components;
- Spare parts;
- Damages or cracks;
- Components difficult to remove or adjust.

The product has a label that must not be removed because it contains information that must be provided in case of complaint or ordering of replacement parts/accessories.

Any serious incident (death, serious deterioration of health, serious threat to the user or public health) that has occurred with the device must be reported to the manufacturer and the competent authority.

The following table shows regular inspections should carry out in your wheelchair to continue to ensure their safety and efficiency.

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| | On delivery and every daily | Whenever necessary | Weekly | Semi-annually |
|---|---|---|---|---|
| **General** | | | | |
| • Check if there is some noise | ✓ | | ✓ | |
| **Frame** | | | | |
| • Make sure the frame has no damage or cracks | ✓ | | | ✓ |
| **Moving parts** | | | | |
| • Check that are well positioned and tightened | ✓ | | ✓ | |
| • Lubrication of moving parts | | | | ✓ |
| **Seat and backrest upholstery** | | | | |
| • Check for good condition | ✓ | | | ✓ |
| **Wheels** | | | | |
| • Check status of the rear wheels | ✓ | | ✓ | |
| **Accessories** | | | | |
| • Check that all accessories are included and in good condition | ✓ | | ✓ | |
| **Cleaning** | | | | |
| • Clean and/or disinfect carefully all parts and components | | ✓ | | |

## *11. MANUFACTURER WARRANTY*

The structures of the devices included in this manual are covered by a 3 year warranty from the date of purchase, in accordance with Decree-Law nº 84/2021 which transposes Directives (EU) 2019/771 and 2019/770.

During this period, Orthos XXI is responsible for replacing or repairing parts that have a manufacturing defect, if one of our specialized technicians verifies that the malfunction was not caused by improper use.

**The following points are not covered by the warranty:**

- **Improper use**
- **Modifications without permission**
- **Incorrect storage**
- **Poor Conservation**
- **Normal wear and tear**
- **Damage due to lack of routine maintenance.**

**Products included in this manual cannot be modified. Any modification, including assembly of alternate parts or accessories not recognized, can cause insecurity in the product and invalidate any security and warranty mark.**

**Orthos XXI refuse any responsibility in modified products or for any damage or injury arising out of these changes.**

**The lack of care for the ordinary and extraordinary maintenance, release the manufacturer from any responsibility.**

**Ed 01 – July 2022**

**Orthos Mobility's** products last **a lifetime, integrated solutions** and **custom-made manufacture…**


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