

Track Wheel

User's manual (EN)



Track Wheel C2/A2
(Double Arms Clamping, Carbon Fiber/Alu)



Track Wheel C1/A1
(Single Arm Clamping, Carbon Fiber/Alu)



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1. General information

Dear customer,

Thank you for choosing the **Track Wheel**.

This User manual contains a description of the medical device and important guidelines to ensure a correct and safe usage of the product. Please read this manual carefully. It is especially important to read the safety requirements and to follow these.

REHASENSE® continuously develops its products and reserves the right to change specifications and functions of products without notice.

By queries, please contact your dealer or **REHASENSE®** directly. The contact data is located on the last page of this manual.

2. Purpose and Normal Use

The **Track Wheel** is an accessory designed to be connected to a manual wheelchair. By lifting the front castors, only the rear wheels of the wheelchair and the Track Wheel are used.

A bigger front wheel allows the users to facilitate mobility on uneven surfaces. It greatly increases the user's independence and riding flexibility. In addition, it reduces the rolling resistance which make the riding more relaxing.

3. Improper Use

Any use that does not follow the description in this User's Manual. This also includes the technical specification.

4. Safety Warnings

Track you use the Track Wheel at the first time



WARNING!

The user should have read and understand the manual and know how the Track Wheel works.



WARNING!

Before using the Track Wheel, assess your skills and determine if you need an assistant. To decide whether you need an assistant, you should also request an expert opinion for reference. If your assessment is based solely on your own perception, you, or the people around you could be injured.



WARNING!

Practice running on even ground in a safe environment together with an assistant, until you feel confident about how it works. If you are driving on public roads, even though you are not sure how to use the Track Wheel, you, or other people around you can be injured.

Driving



WARNING!

Keep in mind that the Track Wheel allows the wheelchair to be longer at the front, so that you do not injure yourself or others around you.



WARNING!

Keep in mind that the Track Wheel is not for play or sports, but is an aid to make it easier to get forward on such as snow, sand, grass, etc.

Note! Check tyre pressure before using the Track Wheel.

Cleaning



WARNING!

The Track Wheel is suitably cleaned with compressed air or a dry plastic brush and a damp cloth. If it is dirty, use a mild detergent solution. Wipe with a soft cloth and air dry.



WARNING!

Do not use corrosive or abrasive cleaning agents.

Note! The Track Wheel is appropriately disinfected by using a cloth with alcohol.

Other



WARNING!

It is extremely important that all the screws are properly tightened after setting up.

5. Waste Management

Once the Track Wheel has served and is to be scrapped, contact the local authorities to obtain information about recycling and follow their instructions.

Alternatively, you can contact your reseller for recycling your used Track Wheel.

6. Label

This is an example of the product label it is located on the product.

Icon	Description
	Manufacturer
	Production date
	Unique Device Identification (UDI)
	Medical device
	Read the instructions for use



7. Transport

Public Transport



WARNING!

Do not have the Track Wheel mounted on the footrest when travelling by public transport. Hang the Track Wheel on the transport holder.

Storage and Transport



WARNING!

Use straps to ensure that the Track Wheel can be transported safely.



WARNING!

Never transport the Track Wheel connected to a wheelchair.



WARNING!

Place the Track Wheel so that no parts are damaged during transport.

8. Warranty

Warranty information

- The manufacturer covers the product with 24 months warranty from the purchase date.
- During that period, all material, or parts defects, caused by manufacturing faults or usage of improper materials will be repaired or replaced free of charge.
- Damages to tyres caused by wear in time during use are not covered by warranty. Other parts of the Track Wheel, which undergo normal wear during use are not covered by the warranty either.
- All mechanical defects and damages caused by improper use or usage not intended by manufacturer are not covered by warranty.
- Not authorized changes and modifications of the Track Wheel will cause loss of warranty.
- If any defects or damages occur, Single should immediately inform the supplier.

Range of responsibility

- The warranty does not cover transport cost.
- The warranty does not cover injury or other damages eventually related to a malfunction of this product.
- The warranty does not cover damage caused by the inability to use the product.
- The manufacturer does not bear the responsibility for damages caused as the result of inappropriate or incorrect understanding of this User Manual.

Product modifications & additionally installed elements

- This definition refers to any products, which was modified, and which differs from details given in this manual or if additional elements, not supplied by the manufacturer, are fixed to the product. If the device was modified in the above way by the User without the manufacturer's written authorization, it is no more compliant with the CE essential requirements and will not be covered by the warranty.
- If you have any questions or doubts concerning modifications, please contact the manufacturer before you take any action.

9. Cleaning & Disinfection

Frame

The frame ought to be cleaned with use of a damp cloth or alternatively with the addition of a soft detergent. After that it should be wiped with a dry rag. The frame should be regularly inspected, to find damages of the paint, which may cause corrosion. In case of any visible frame damages (cracks, painting defects etc.) ask your local dealer for diagnostics and maintenance.

Disinfection

For disinfection please contact your dealer to be sure is made by professional personnel. However, for individual use we recommend using the generally available disinfectants without chlorine and phenol. The manufacturer is not responsible for the damage caused by wrong usage of disinfectants.

10. Maintenance & Service

The user may not self-repair or service the Track Wheel.

The user may not self-remove and send parts of the Track Wheel to the dealer for repair. If a repair is required, contact your dealer, even if the fault is of a minor nature.

If parts are damaged or missing, contact the dealer immediately. Submit the Track Wheel to the dealer for replacement or repair of parts.

For normal maintenance, repair, or service, always contact the dealer. If the Track Wheel is not repaired or all parts are not used in assembly, the user, the persons in its environment or the property may be damaged.

To perform repairs and servicing, the dealer uses the spare parts catalogue and other documentation. This documentation is not available to users and the public.

Punctures



WARNING!

The tyre on the Track Wheel has the same structure as a bicycle tire. Therefore, as a rule, a bicycle workshop can make puncture and change tires on this product. If you do not have access to a bicycle workshop, please contact your dealer.

Most common problems and solutions

If you notice any irregularities in the product's functioning, do not use it – you should contact your local point of sale or the service department of the supplier. The manufacturer does not warranty correctness of the operation if non- original parts are used.

11. Re-use

This medical device can be reused by another user if the original user of the product does not need it anymore. Before reuse, the device must be carefully inspected and disinfected by authorized technical staff at the dealer.

Following elements should be checked:

- rigidity of the structure,
- tightness of bolts and nuts,
- condition of wheels and ball bearings,
- efficiency and condition of other parts.

If any of above elements are torn or broken, they should be replaced with new parts. It is specially recommended to install new wheels for every new user of the device. All lose bolts and nuts must be tight. The product must be precisely cleaned and disinfected.



WARNING!

It is forbidden to re-use the product when the frame is bent or broken. Every new user must receive the device with this user's manual attached.

12. Technical Data

Technical Data will vary according to the updates may have. All measurements are in millimeters (mm) for distance and kilograms (kg) for weight, unless otherwise stated.

	Track Wheel			
	C2 (Double Arms Clamping, Carbon Fiber)	A2 (Double Arms Clamping, Alu)	C1 (Single Arm Clamping, Carbon Fiber)	A1 (Single Arm Clamping, Alu)
Total Length - mm	570	570	670	670
Total Width - mm	250	250	80	80
Total Height - mm	440	440	360	360
Total Weight - kg	5.17	5.36	2.65	2.87
Wheel Size - inch	12"	12"	12"	12"
Air Pressure in Tyre - BAR	2.5	2.5	2.5	2.5
Angle Adjustment Range (for wheelchair legrest angle)	60°-110°	60°-110°	75°-95°	75°-95°
Minium width - mm	300	300	--/--	--/--
Height Adjustment Range - mm (from floor to the bottom of clamping)	210 + (0-50, 110, 125, 140)	210 + (0-50, 110, 125, 140)	--/--	--/--
Distance Adjustment Range - mm	--/--	--/--	See the matrix list below	
Tube Diameter Range - mm	D19-40	D19-40	D15-32	D15-32
SWL - kg	140	140	140	140

Expected product life

The expected product life is five (5) years if used in accordance with the safety instructions, maintenance instructions, and instructions for proper use contained in this manual. The actual product life may vary depending on the intensity of use.

 Clamping Claw Matrix - Single Arm Track Wheel								
Clamping Claws Options				Wheelchair Footrest			Few Examples of Suitable Wheelchairs	
Rear	Item Number	Front	Item Number	Footrest Type	Footrest Tube Diameter	Depth Range - mm	Model Name	Examples of footrests
	EBX01A (Default)		EBX02A (Default)	Round Tube	φ 15 - 25 mm	φ15 tube: 108 - 168 φ19 tube: 105 - 165 φ25 tube: 102 - 162	Rehasense: ICON 60S; Wolturnus: W5/W5SL/TUKAN/HAWK; Sunrise Medical: Quickie Nitrum/Quickie Krypton R/Quickie Argon; Invacare: K-Series/Kuschall KSL; Ki mobility: Ethos/Rogue XP/Rogue/Tsunami; Permobil: Ti Lite/Progreo;	
			EBX02B (Additional)		φ 25 - 32 mm	φ25 tube: 102 - 162 φ28 tube: 99 - 159 φ32 tube: 96 - 156		
	EBX01B (Additional)		EBX02A (Default)		φ 15 - 25 mm	φ15 tube: 95 - 155 φ19 tube: 93 - 153 φ25 tube: 90 - 150	Invacare: K-Series (old style with round tube)/K-Series attract (old style with round tube)/XLT (old style with round tube); RGK: Sub 4;	
			EBX02B (Additional)		φ 25 - 32 mm	φ25 tube: 90 - 150 φ28 tube: 87 - 147 φ32 tube: 85 - 145		
	EBX01C (Additional)		EBX02A (Default)	Plate	Footrest plate holder diameter range: ≤25	φ22 Holder: 107 - 167 φ25 Holder: 103 - 163	Permobil: Ti Lite; Sunrise Medical: Quickie Nitrum/Quickie Krypton R/Quickie Argon/Argon2/Helium/Platform; Ki mobility: Ethos/Rogue XP/Rogue/Tsunami;	
			EBX02B (Additional)		Footrest plate holder diameter range: 25 - 32	φ25 Holder: 103 - 163 φ32 Holder: 100 - 160		

13. Product Description

To facilitate the most user's riding, our Track Wheel system gives solutions on fitting both rigid frame wheelchair and foldable wheelchair. Its great adjustability possibly over all sizes wheelchairs on the market.

Single of the greatest features – easy clamp, effectively make the connecting easy and fast.

We provide options on Double arms and Single arm, both the Carbon Fibre and Alu frame.

13.1 Delivery Scope

The delivery of Track Wheel includes the following:

1. Track Wheel
2. User's Manual

13.2 Overview

The Track Wheel consists mainly of the following parts.

C2/A2 (Double Arms, CF/Alu)



C1/A1 (Single Arm, CF/Alu)



13.3 Features

Convert the wheelchair into a three-wheel vehicle:

- Easier to navigate kerbs and rough roads.
- Reduces rolling resistance.
- Fitting solutions for both rigid and folding wheelchairs – adjustable to many sizes
 - Double Arm - Clamp to anterior side frames on folding chairs
 - Single Arm - Fit to rigid foot plate designs for rigid chairs.
 - Constructed from either aluminum or carbon fiber composite materials.
- Ergonomic elegant design contributes to make the life with aesthetics.
- Roll up to Lift up – Track Wheel pivots around front to back, to lift the castors off the ground.



WARNING!

Please note that the Track Wheel should only be mounted on a reinforced footrest.

Setting Up Your Track Wheel

C2/A2 (Double Arms, CF/Alu)



WARNING!

The Double Clamp is fastened on the anterior side frame of rigid or folding chairs.



Adjust the Clamping Jaw Width

For fitting with different tube diameter size of wheelchair leg rest hanger.



To adjust the clamping jaw:

- Adjust the bolts indicated.
- Tighten it after fitting with wheelchair leg rest hanger.

Adjust the Track Wheel to fit your wheelchair.

Adjustable in 4 planes to get the best fit congruency.



To adjust the Track Wheel:

- Adjust the bolts indicated to start.

Adjust the clamp angle.



- Loosen the bolt.
- Adjust the clamp angle.
- Tighten the bolts.

Rotate around the long axis.



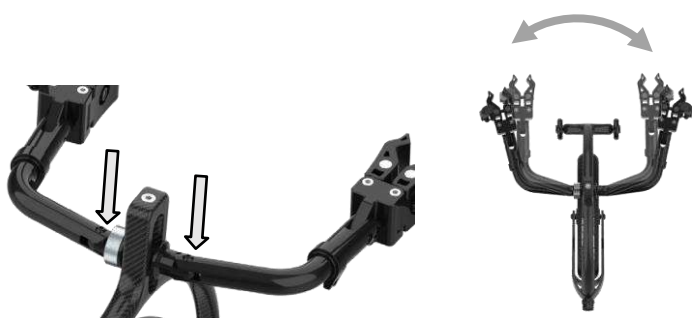
- Loosen the bolt.
- Adjust the clamp angle.
- Tighten the bolts.

Adjust the height.



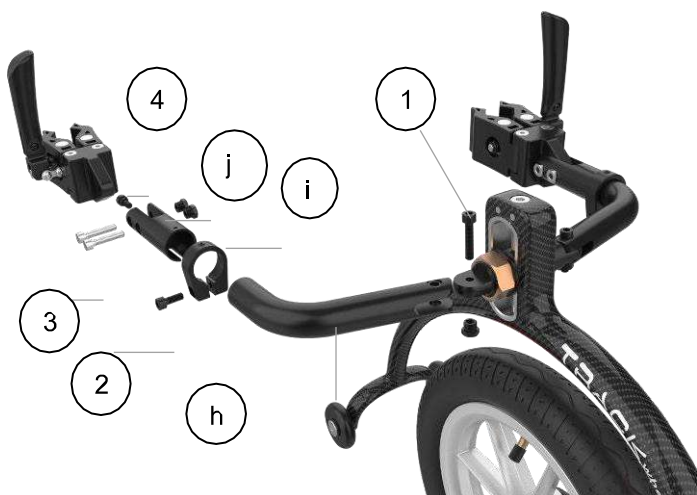
- Use an Allen key to loosen the bolt.
- Adjust the height.
- Tighten the bolts.

Adjust the width.



- Loosen the bolt.
- Adjust the width.
- Tighten the bolts.

Replace the arm with longer version.



- Take out the bolt (1) and (2).
- Take out two bolts (3) to release the Clamping Jaw, the pre-set torque for these two bolts is 5 Nm. This is an iterative process whereby the Clamping Jaw must be taken out to allow access to the bolt (4).
- Take out the bolt (4), the pre-set torque is 6 Nm.
- Replace the arm (h) with longer version and assemble it with Locking Rim (i) and Clamp Arm (j).
- Tighten the bolt (4) with torque at 6 Nm.
- Tighten the bolt (2) with torque at 14 Nm.
- Adjust the Clamping Jaw then tighten it with two bolts (3), recommended torque is 25 Nm.
- Adjust the longer arm and tighten it with bolt (1), recommended torque is 25 Nm.
- Do same as above for the other side.

C1/A1 (Single Arm, CF/Alu)

WARNING!

The Single arm model is mainly designed to fit with **rigid** wheelchair, the clamp is fastened to the wheelchair footplate.

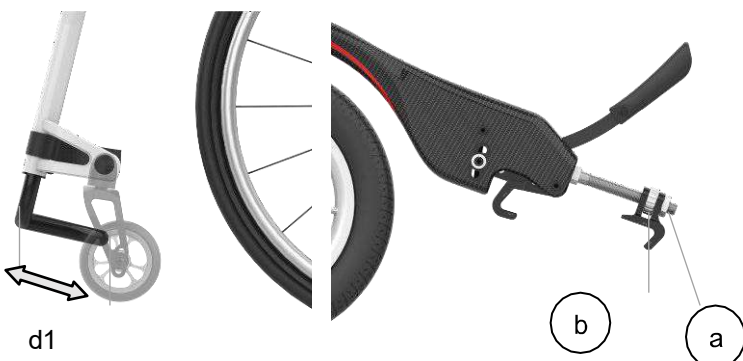


For Fitting to the wheelchair and adjusting for use, firstly turn the wheel forward as shown below, there are three adjustments required:

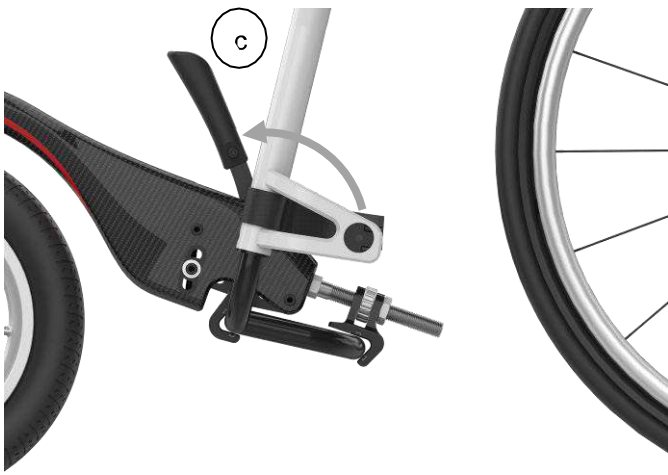


- Clamp opening to fit the Footrest – the width of the clamps should be enough to allow the clamp to just fit over the footrest; thereby ensuring the clamping action is secure to the Footrest.
- Height of the Wheel to the ground – the aim is for the Track Wheel to be fully contacted to the ground, without lifting the front wheels of the wheelchair.
- Steering Link dampening – the resistance to rotating of the Wheel to the Frame can be adjusted at the Steering Link.

Adjusting the clamp width to the Footplate.



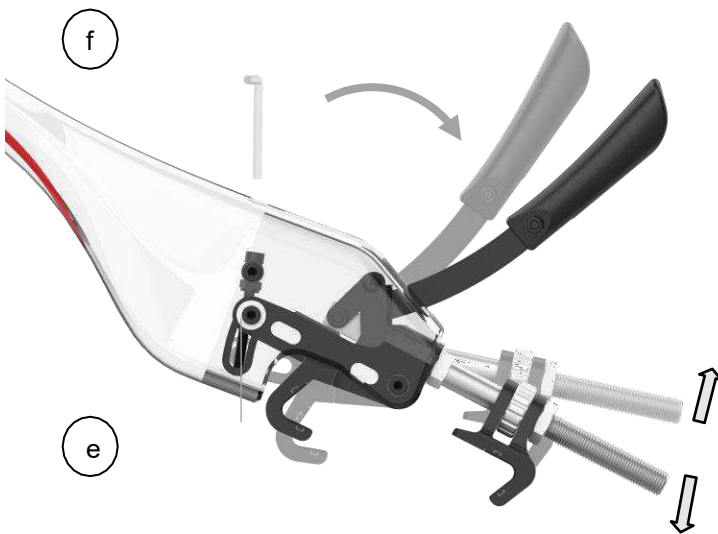
- Measure the distance (d) from the front to rear edges of the footplate,
- Loosen the Lock Nut (a) and rotate the Adjusting Ring (b) so that the space between the Clamp Jaws is d1 plus 5 mm
- Place the Clamp over the Footrest and move the Clamp Lever to the lock position (c). The force required to lock the clamp should be manageable by the user but still ensure a safe



connection. Fine adjustment is made by screwing the Adjusting Ring (b) in or out.

- Once finalised tighten the Lock Nut (a) to prevent unintended loosening.

Adjusting the height of the Track Wheel.



- The correct height is such that there is firm contact of the Wheel to the ground so that it can rotate to the “up” position when the wheelchair is moved forwards.
- This is done by:
 - i. Loosening the two Lock Bolts (e), the pre-set torque is 2 Nm. Turning the Angle Adjusting Screw (f) clockwise to raise or anticlockwise to lower the Wheel (d). these steps need a 5 mm Hex Driver or Allen Key.
 - ii. This is an iterative process whereby the Clamp Lever must be pulled back to allow access to the Angle Adjustment Screw (f).
 - iii. Once confirmed, retighten Lock Bolts (e) with recommended torque at 6 Nm.

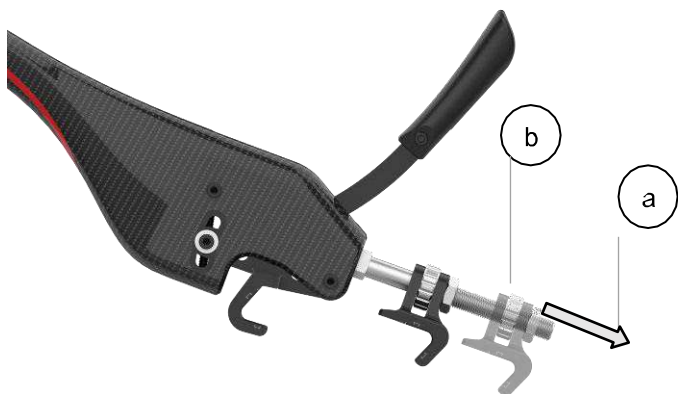
Note! The maximum suited tube diameter and clamping distance are shown in Technical Data (Chapter 12).

Adjusting the Steering Link.

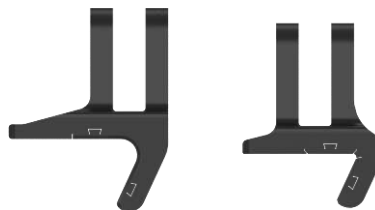


- To increase resistance to rotation, turn the Steering Link knob clockwise
- To reduce resistance, turn the knob anti-clockwise.

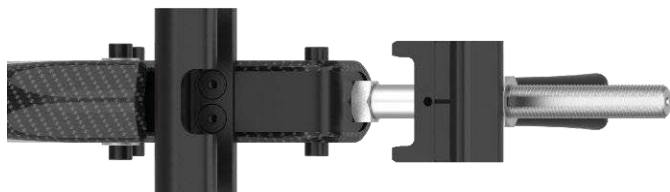
Replace the rear clamping claw with new version.



- Take out the Lock Nut (a) and rotate the Adjusting Ring (b) to take out the rear clamping claw.
- Assemble the Adjusting Ring (b) with new rear clamping claw into toggle mechanism then tighten the Lock Nut (a) with recommended torque at 20 Nm.



Replace the front clamping claw with new version.



- Turn the downside to up position.
- Loosen the Lock Bolt (g), replace with new front clamping claw and tighten it.



Changing the wheel

For both the single and double arm versions.



- Loosen the bolt (1).
- Loosen the bolt (2) to make the fork and wheel assembly detached from the frame.
- Loosen the bolt (3) and (4).
- Take off the fork from wheel.
- Change to the new wheel, tighten the bolt (3) and (4), recommended torque is 8 Nm.

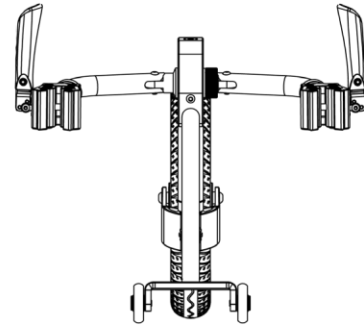
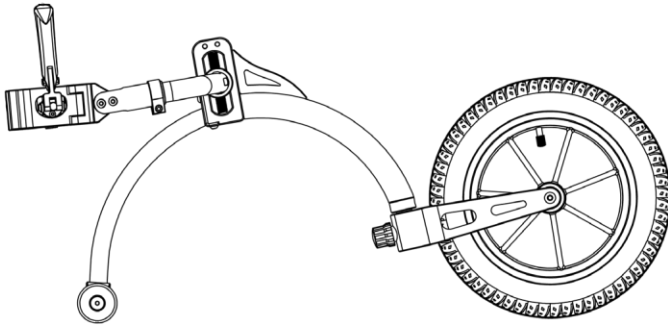
15. How to Use



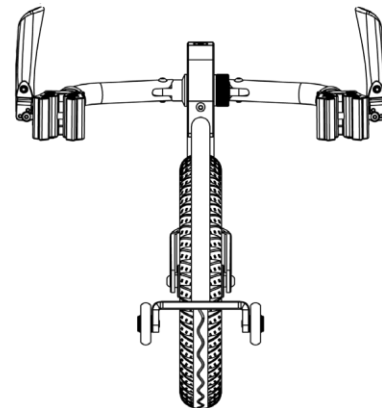
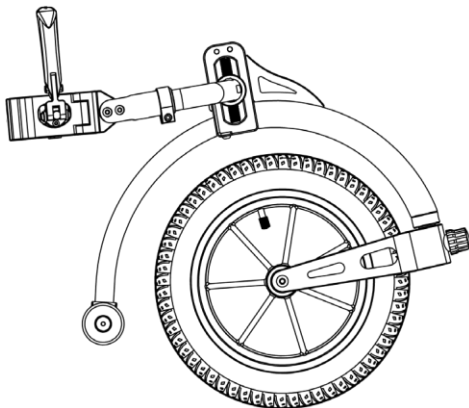
WARNING!

The user should have read and understood the manual and understand how the Track Wheel works.

Double Arms, CF/Alu

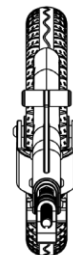
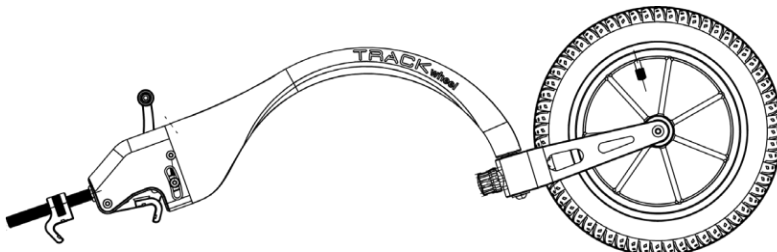


Before Setting Up

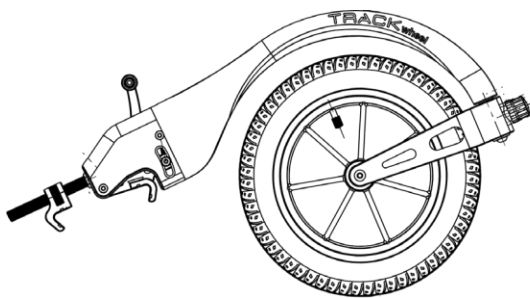


After Setting Up

Single Arm, CF/Alu



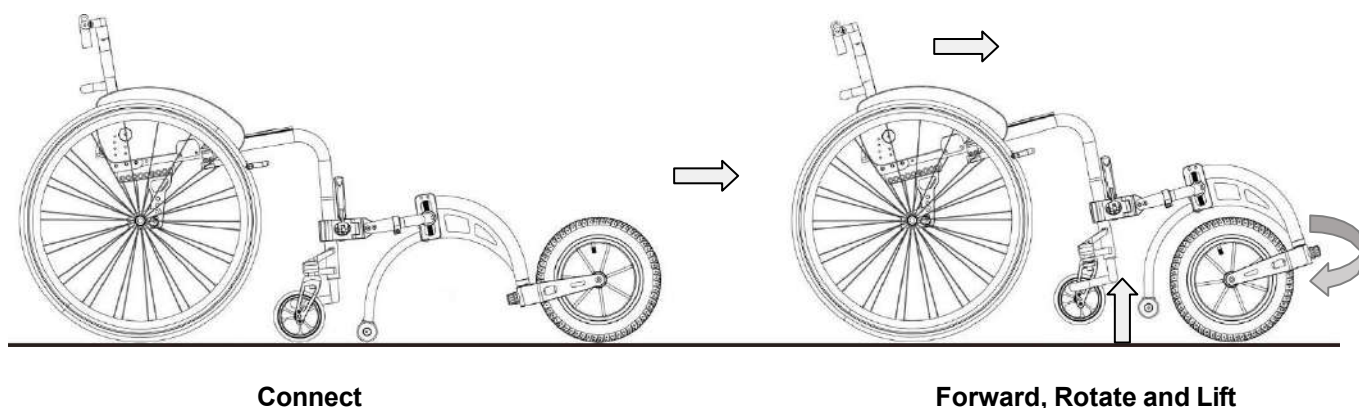
Before Setting Up



After Setting Up

Note! Before setting up, all wheels are on the ground, the Track Wheel is at outward position.

Note! After setting up, when user propel the wheelchair, the Track Wheel will automatically turn inward, at the same time the wheelchair front castors and Track Wheel's support wheel are lifted from the ground. The ground clearance for the front castors is approximately 40 mm (it would be varied by different angle of footrests and leg rest hanger).



16 Accessory (footplate)

The footrest is only compatible with the aluminum version. It is not compatible with the carbon fiber version.



You will need a 5 mm Allen key for assembly.

To assemble the footrest, unscrew the bolts from the bracket, mount the footrest on the frame, and tighten the bolts.



The footrest can be attached at various heights. The lowest position is 6.5 cm from the ground.



The highest is 9.5 cm.
 If the footrest is attached higher than 9.5 cm, its angle changes. This is caused by the bend of the Track Wheel frame.





In case of any technical questions contact your local distributor or directly with Rehasense.

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