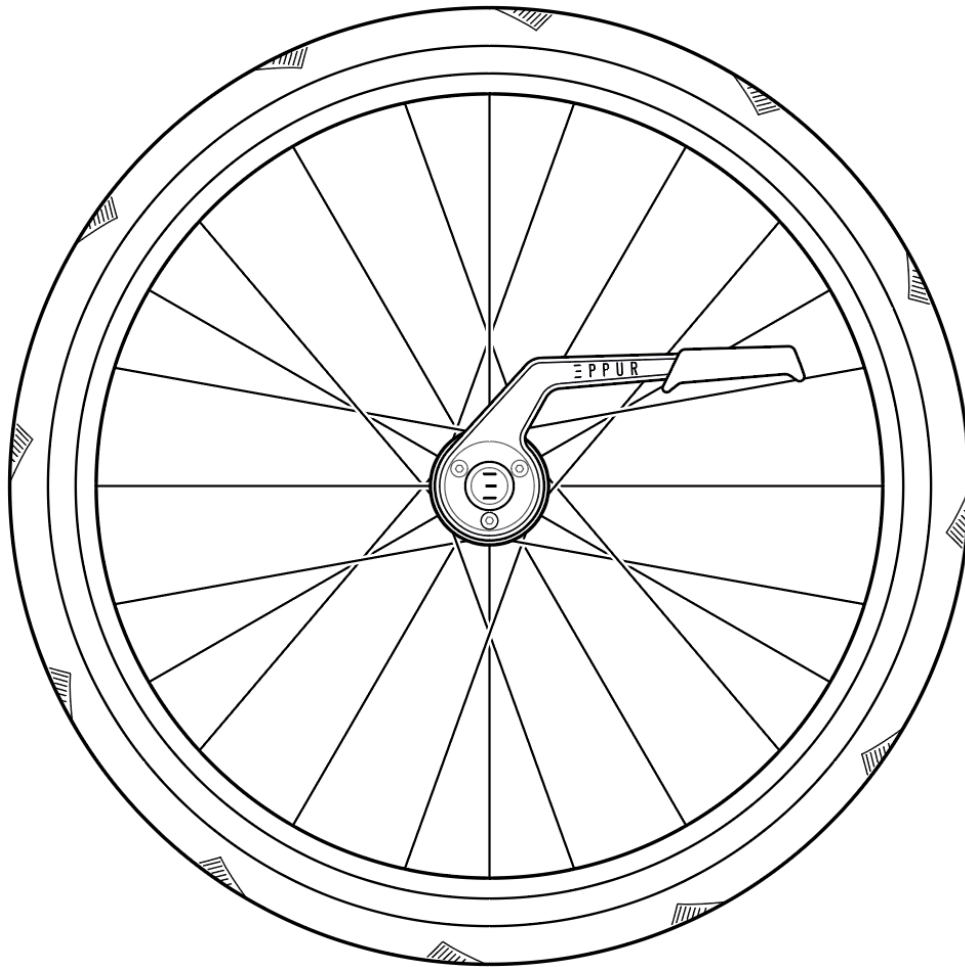


# Instructions for use

*SKEED by Eppur*



*This product complies with Regulation (EU) 2017/745 on medical devices. The CE declaration of conformity includes the date the device was placed on the market.*







*Manufacturer: Eppur, 4 rue du professeur Langevin, 59000 Lille*

*Company registration : 88178940800013*

*VAT number: FR47881789408*

*Email address: [hello@eppur.eu](mailto:hello@eppur.eu)*

## SUMMARY

<b>I. GENERAL INFORMATION</b> 	<b>3</b>
1) Information about the user manual	3
2) CE conformity	3
3) Guarantee and Limitation of liability	3
4) Intended Use	4
<b>II. PRODUCT DESCRIPTION</b> 	<b>4</b>
1) Functioning	4
2) General information	4
3) Technical data	5
3.1) Dimensions and weight of SKEED wheels	5
3.2) Environmental conditions	5
3.3) Materials	5
3.4) Identification label	6
4) Wheel components	6
4.1) Overview	6
4.2) Components	7
<b>III. USE OF THE SKEED WHEELS</b> 	<b>8</b>
1) Assembly and disassembly of wheels	8
1.1) SKEED wheel compatibility with wheelchairs	8
1.2) Operating steps	8
1.3) Adjusting the position of the levers	9
1.4) Assembly and disassembly of SKEED wheels	10
2) Using the wheels	11
2.1) Safety information	11
2.2) First use of a wheelchair equipped with SKEED wheels	11
3) Wheels maintenance	12
4) Wheel transport	12
<b>IV. SAFETY</b> 	<b>13</b>
1) Meaning of the warning symbols	13
2) General safety information before using SKEED wheels	13
3) General information regarding safety when using SKEED wheels	14
4) General information regarding safety during assembly of SKEED wheels	15
<b>V. MAINTENANCE</b> 	<b>16</b>
1) Safety information	16
2) Maintenance schedule	16
3) Identification and repairing faults	17
<b>VI. AFTER USE</b> 	<b>17</b>
1) Disposal	17

## I. GENERAL INFORMATION

### 1) Information about the user manual

Before using Skeed wheels, read this manual and keep it for the duration of use of the wheels for future reference as required. Please follow all safety instructions to avoid injury and product damage.

This manual **MUST** be provided to the user of the product.

It is strictly forbidden to disassemble the wheel hubs yourself without the specific agreement of Eppur, otherwise the warranty will be void. In the event of disassembly, the user is exposed to the risk of losing control of the wheelchair and falling.

You can find the PDF file of this document on the website: [www.eppur.eu](http://www.eppur.eu), in the **Reseller area**. The PDF file can also be displayed in an enlarged format.

For any further information regarding these instructions for use, please do not hesitate to contact the specialist staff who supplied you with the product or the manufacturer via the following email address: [help@eppur.eu](mailto:help@eppur.eu).

### 2) CE conformity

SKEED wheels meet the requirements of Regulation (EU) 2017/745 on medical devices. According to Annex VIII of this regulation, the SKEED wheelset has been classified as Class I based on the classification criteria of the regulation. The declaration of conformity has been drawn up by the manufacturer under his own responsibility.

### 3) Guarantee and Limitation of liability

The manufacturer's legal guarantee of non-conformity is 2 years from the date of invoicing of the product in a normal use context of the device.

**To activate this warranty, please have a mobile device, scan the QR code on the last page of this manual, then follow the steps to register your Skeed wheels.**

Wear components are not covered by the legal guarantee of non-conformity since they wear out during normal use of the product:

- The tires
- Inner tubes
- Rim strips
- The grippy coatings of pushrims

The manufacturer is responsible in the event of non-compliance if the product is used according to the descriptions and instructions in this manual. The manufacturer declines all liability in the event of damage due to use not in accordance with the terms of use in this document.

Warranty claims may only be made to the supplier from whom the product was obtained.

#### 4) *Intended Use*

Before using this product, familiarize yourself with its handling, operation and use to avoid any incident or injury.

Please observe the following points:

- Users and their carers must be instructed in the use of SKEED wheels by specialist personnel using these instructions for use.
- Maintenance and repairs may only be carried out by specialized personnel. In case of problems, contact the authorised supplier who supplied you with the product.
- All updates to the user and assembly instructions are available on the website [www.eppur.eu](http://www.eppur.eu) in the reseller area.

## II. *PRODUCT DESCRIPTION*

### 1) *Functioning*

SKEED is a pair of manual wheelchair wheels with an integrated brake. The hub of each wheel includes a braking system that can be activated by a lever located near the wheel handrail to allow the user to brake without risking injury to their hands. Pulling the lever activates the brake and pushing the lever activates the parking brake. The pair of wheels is installed on the chair using an interface to be fixed on the chair frame.

SKEED wheels are designed for independent or assisted mobility for people with partial or total lower limb disabilities. The wheels can be used both outdoors and indoors on stable ground.

### 2) *General information*

<i>Description of SKEED wheels</i>	SKEED is a pair of wheels for manual wheelchairs incorporating a braking system located in the hub, operated by a lever located near the handrail. The pair of wheels is attached to the chair frame using an interface included in the installation kit.
<i>SKEED Wheels Destination</i>	SKEED allows manual wheelchair users to brake, turn, and slow down with reduced upper limb effort and no hand friction. SKEED is designed for independent or assisted mobility for people with partial or total lower limb disabilities.
<i>Indications</i>	Manual wheelchair users with significant or complete mobility impairment due to structural and/or functional damage to the lower limbs and with sufficient strength and grip function in the arms and hands to propel the manual wheelchair.
<i>Contraindications</i>	<ul style="list-style-type: none"> <li>- Users who cannot propel themselves independently in a manual wheelchair</li> <li>- Hemiplegic users</li> </ul>

<i>Users:</i>	- Weight greater than 120 kg
	Non-hemiplegic manual wheelchair users, able to propel themselves independently, weighing less than 120 kilos.

### 3) Technical data

#### 3.1) Dimensions and weight of SKEED wheels

The weight of the wheel depends on the components chosen on the measurement sheet available on the website [www.eppur.eu](http://www.eppur.eu) in the **Reseller area**.

#### 3.2) Environmental conditions

The SKEED wheels must:

- be kept away from humidity
- not to be exposed to extreme temperatures (below -20°C or above 40°C)
- not to be used in salt water
- be protected from sand or any other dust/dirt particles that may affect the use of the wheels and the brake function

SKEED wheels can be used in the rain.

#### 3.3) Materials

The materials depend on the components chosen on the measurement sheet available on the website [www.eppur.eu](http://www.eppur.eu) in the reseller area.

The components below are common to all SKEED wheels:

<i>Rim</i>	Aluminium
<i>Spokes</i>	Steel
<i>Hub</i>	Aluminum, with steel insert
<i>Handrail</i>	Aluminum with or without coating
<i>Lever</i>	Aluminum with grip
<i>Lever grip</i>	Thermoplastic polyurethane
<i>Tire</i>	Rubber
<i>Quick release axle</i>	Steel and aluminum
<i>Spoke protection flask</i>	Polycarbonate

### 3.4) Identification label

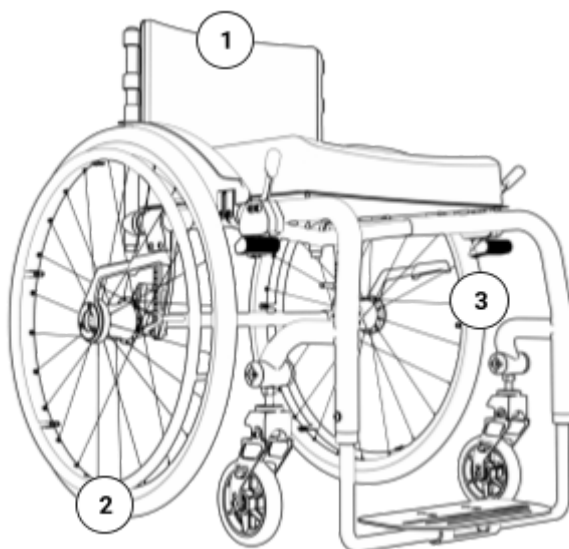
A medical device identification label is stuck in the inner part of the lever.



- |  |   |
|--|---|
| 1. Manufacturer's address                      | 8. CE marked product                        |
| 2. Trade name                                  | 9. UDI traceability number read as follows: |
| 3. Product reference                           | (01) MANUFACTURER CODE                      |
| 4. Date of manufacture                         | (11) DATE FABRICATION YYMMDD                |
| 5. Fragile product                             | (21) SERIAL NUMBER                          |
| 6. Do not use it if the packaging is defective | 10. Address of the Swiss agent              |
| 7. Read the instructions before use            |   |

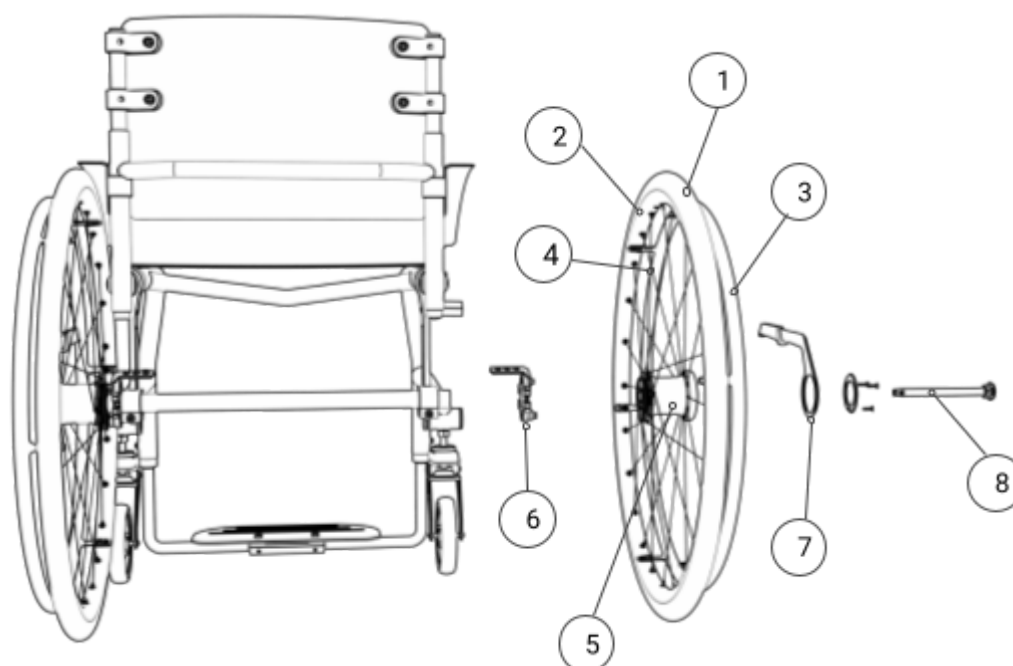
## 4) Wheel components

### 4.1) Overview



1. Wheelchair frame
2. Right wheel
3. Left wheel

## 4.2) Components



- 1. Tire
- 2. Rim
- 3. Handrail
- 4. Spokes

- 5. Hub
- 6. Adapter
- 7. Brake lever
- 8. Quick-release axle

### III. *USE OF THE SKEED WHEELS*

#### 1) *Assembly and disassembly of wheels*

##### 1.1) *SKEED wheel compatibility with wheelchairs*

The adapter and axle must be suitable for the chair on which the wheels are assembled.

**! If an axle or adapter is not suitable for the chair model, stop using it and contact the supplier who distributed the product.**

The distributor supplying the wheels must ensure compatibility between an adapter reference and your wheelchair. If in doubt or if you need to change your wheelchair, please ask your distributor for confirmation. You can complete the compatibility form available on the website [www.eppur.eu](http://www.eppur.eu).

##### 1.2) *Operating steps*

- Forward

The SKEED wheels are moved forward by pulling the handrail forward. The action is direct, i.e. similar to a conventional wheel.

- Freewheel

During a forward trajectory, the handrim and wheel rotate together, but the operating lever remains stationary relative to the chair.

- Conventional braking

Pulling the lever activates the braking. The deceleration is proportional to the force exerted by the user when pulling the lever.

- Parking brake

Pushing the lever to the stop position engages the parking brake. To release the parking brake, pull the lever again to release it from the stop notch, accompanying the movement of the lever.

- Reverse

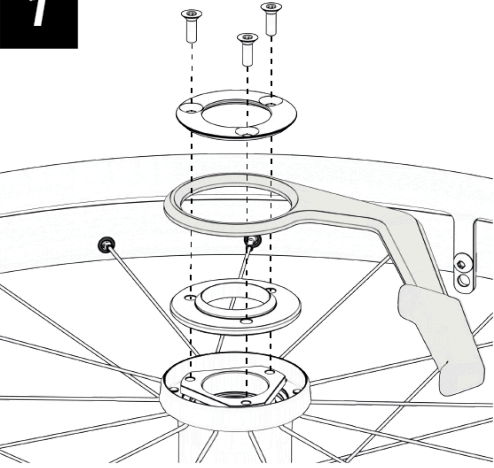
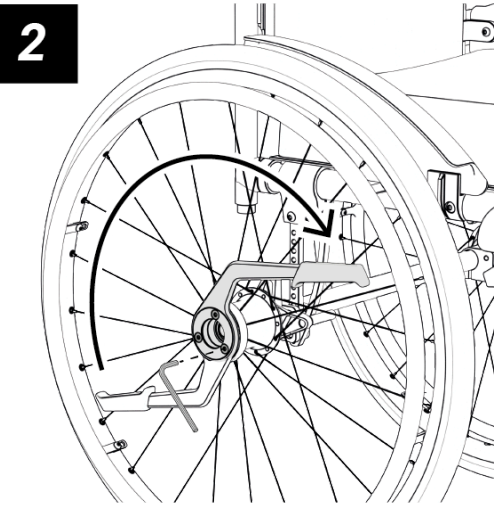
Pulling the handrail backwards allows the wheels to be moved backwards, like a conventional wheel.

The two wheels and their respective brakes are operated independently to control the trajectory of the chair.



### 1.3) Adjusting the position of the levers

The Skeed wheel brake levers are designed to be able to be easily adjusted to best suit their user. Under normal use, the levers shift very slightly over time and must be adjusted occasionally by the user.

<div>1</div> 	<p>The brake levers are installed on the wheel as shown opposite.</p> <p>By slightly loosening the 3 central screws, the lever can pivot around its axis to perfectly suit its user.</p>
<div>2</div> 	<p>Get a 3mm Allen key</p> <p>Slightly loosen the central screws</p> <p>Rotate the lever until it is in the desired position</p> <p>Tighten the 3 screws to 5 N.m</p>

### 1.4) Assembly and disassembly of SKEED wheels

When starting to assemble the device, please refer to the assembly instructions which detail the steps required to assemble the Skeed adapters.

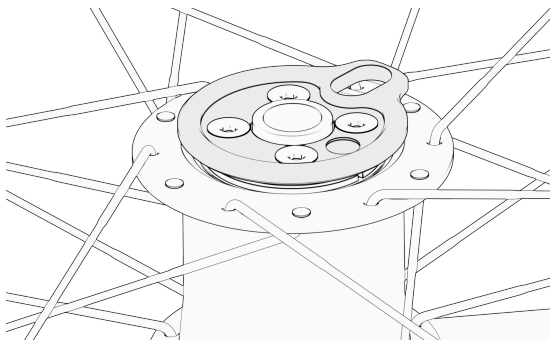
To remove the wheels from your chair:

1. Push the lever to activate the parking brake
2. Press the push pin button
3. Pull the wheel

To install the wheels on your chair:

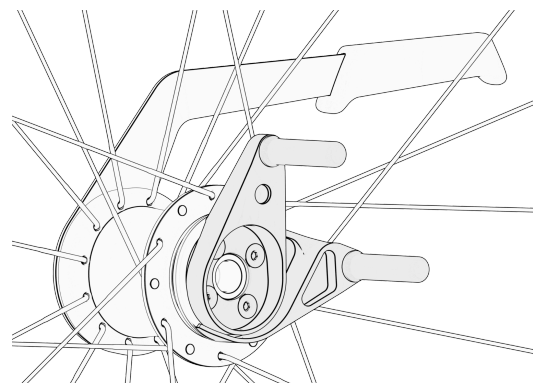
1. Locate the **right** wheel and the **left** wheel thanks to the color code, or the shape of the levers
2. Press the quick release axle push button
3. Insert the wheel axle into the wheelchair axle barrel

If using a type A, B, or C adapter (with a daisy):



Turn the wheel lever until the adapter's centering pin enters the wheel hole.

When using the RTS adapter:

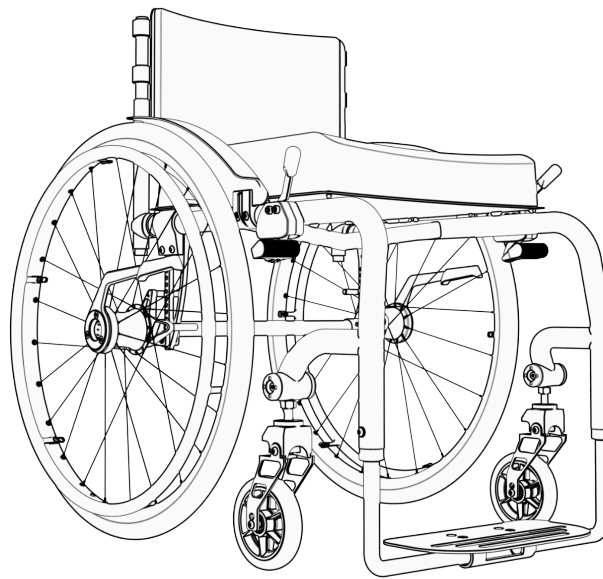


Insert the wheel with the lever in the correct angular position relative to its position of use.

Place the two centering bars on either side of the frame.

The two bars must fit perfectly around the chassis, without play.

4. Press the head of the axle so that it penetrates all the way into the chair frame.  
Check that the quick release axle push button is fully extended
5. Pull on the wheel to check that it is securely locked in the chassis
6. Check the position and shape of the lever to ensure that the right and left wheels have not been reversed. Check that there is no angular play in the lever.



*Correct lever position (adjustable according to user preferences)*

**! Always check that the wheel is properly locked by pulling it outwards after each assembly.**

**! Place the right wheel on the right (yellow dot) and the left wheel on the left (blue dot) to ensure proper access to the lever for the user.**

**! Before each disassembly, activate the wheel parking brake to prevent the wheel from turning relative to the lever, to prevent fingers from getting stuck**

## **2) Using the wheels**

### **2.1) Safety information**

Using SKEED is similar to using a pair of conventional wheels, however it is necessary to practice using the braking system via the lever in safe conditions before any outdoor outing.

### **2.2) First use of a wheelchair equipped with SKEED wheels**

When using the wheels for the first time, perform the following exercises on flat ground with an attendant to ensure proper handling of the device. The attendant must remain at the back of the wheelchair to secure the user in case of a fall while handling the device.

Pull the lever to engage the brake. Be aware of the progressiveness of the braking and the maximum braking threshold. Push the lever until it reaches the parking position stop notch to activate the parking brake. Test the wheel's stopping resistance in the parking position.

Check that the angular position of the levers is suitable for the user's use. If the levers are incorrectly adjusted or are adjusted asymmetrically, refer to page 9 of this manual.

**! Never practice "wheeling" or obstacle crossing without anti-tip wheels or without the help of a companion at the back to catch you in the event of a fall.**

### 3) ***Wheels maintenance***

Do not use harsh detergents, solvents or hard brushes for cleaning.

Clean the wheels with a mild cleaner and water. Dry everything quickly and thoroughly.

 ***If grease is washed or blown out of the ball bearings or hub with compressed air, damage may occur.***




### 4) ***Wheel transport***

The wheels are removable in order to transport the wheelchair in a vehicle.

 ***Be careful to limit shocks to the wheels during transport.***

## IV. SAFETY

### 1) *Meaning of the warning symbols*

-  Warning of possible risks of accidents and serious injuries
-  Warning of possible risks of accidents and injuries
-  Warning of possible technical damage

### 2) *General safety information before using SKEED wheels*

#### **Risks incurred due to incorrect use of the product (loss of brake function, fall, tipping, etc.)**

##### **Situation :**

- **Exceeding the period of use**
- **Defective tires**
- **Confusion of the SKEED device with the DREEFT device**

##### **Advice :**

- Using the product beyond the indicated duration of use (5 years) results in an increase in residual risks. Do not use the device in the following cases and contact your specialist reseller:
  - Poor braking
  - Breakage or problem with the adapters
  - Wheel warping
  - Broken spokes
  - Flat or deflated tire
  - Any unusual behavior of the lever, or of the brake function
- When the duration of use is reached, the user or accompanying person is advised to contact the specialist personnel who carried out the wheel adjustment or the company's after-sales service. The user will be able to find out about known risks and current possibilities for refurbishing the product.
- Ensure that the tires are not worn or damaged.
- Replace tires if damaged, contact your specialist dealer to repair the wheels.
- In case of brake malfunction, use the handrail to brake as when using conventional wheels
- The use of SKEED and DREEFT devices differs in the actuation of the braking system:
  - to brake with the SKEED device you should use the lever located near the handrail
  - to brake with the DREEFT device you must pull the handrail backwards (see instructions for use of DREEFT)

### 3) *General information regarding safety when using SKEED wheels*

#### ● **Risk of finger entrapment and shock to the hand**

- **Trapping of the user's fingers between the wheel spokes and the lever if the protective flange is removed**
- **Fingers trapped between the wheel spokes and the lever when removing a wheel**
- **Blow to the hand when the parking brake is released due to a violent return of the latter**

#### Advice :

- Do not remove the plastic protective flange to avoid trapping fingers.
- Apply the parking brake before transferring to prevent the wheel from rotating relative to the lever, and to prevent any finger trapping
- Support the movement of the lever when the parking brake is released to avoid injuring your hand by impact from the lever

#### ● **Risks incurred while driving (tipping, falling, impact)**

#### Situation :

- **Braking too abruptly**
- **User not or little experienced**
- **Sudden acceleration**
- **Dangerous driving**

#### Advice :

- Perform the training exercises for using SKEED wheels provided in this manual.
- Never use the device without anti-tip wheels without mastering the wheeling. To learn the wheeling: practice in safe conditions with a support strap held by a trained third party or with a person behind.
- Learn how to use the wheels on your wheelchair with the self-training detailed in the instructions.
- Do not take slopes greater than 7° and/or the limit recommended by the wheelchair manufacturer. The system does not prevent loss of grip on the ground, which results in loss of braking function.
- Do not apply the brake abruptly when reversing.

#### 4) General information regarding safety during assembly of SKEED wheels

##### ● Risks incurred if assembly is not checked before use:

###### Situation :

- Tilt
- Fall
- Loss of brake function

###### Advice :

- When using SKEED for the first time, check that the wheels are properly engaged in the chassis and that the axle is properly locked.
- Check that the right wheel and left wheel are not reversed.
- Ensure that the hand brakes are still functional on the wheel.
- In case of brake function malfunction, use the handrail to brake as on conventional wheels
- Do not take roads that could not be taken with conventional wheels by the user

##### ● Risks incurred if incorrectly installed (brake not working)

###### Situation :

- Incorrect assembly of the adapter on the chassis / reversal of the adapters
- Incorrect adjustment of the parking brake during assembly
- Error removing/installing wheels
- Wrong choice of adapter (when changing wheelchair)

###### Advice :

- After installation, check that the wheel is functional by rotating the wheel in a vacuum, and pull the lever to check the operation of the brake.
- If the lever's parking brake malfunctions, use the wheelchair's parking brake
- Check that the wheels are completely fixed when the parking brakes are applied (apart from the usual play of a few millimeters).
- Read the assembly instructions explaining the assembly instructions in detail.

## V. MAINTENANCE

### 1) Safety information

Before each use, check the working condition of the SKEED wheels.

If the wheels are defective, they must not be used. This applies in the event of instability, loss of braking function, or a technical failure that prevents the user from maintaining control. Specialized personnel must be informed as soon as possible in order to correct any defects noted.

If you notice any wear, deformation, damage or loosening of parts, contact a specialized person (authorized retailer, distributor or manufacturer).

The manufacturer recommends regular checks of the wheels by specialist personnel every 12 months. This maintenance can be performed at the same time as your manual wheelchair.

Lack of maintenance can result in serious injury and/or endanger the life of the user. Only authorized personnel or the manufacturer are authorized to carry out repairs and maintenance of the product. If a repair is necessary, it will be carried out by the reseller if possible, otherwise the wheels will be sent to the manufacturer.

### 2) Maintenance schedule

Control	Action to be implemented	Before use	Every month	Every 12 months
Operation of the original wheelchair parking brakes	Check that they are correctly adjusted to lock the wheels	X		
Check of the tire pressure	Check that the tire pressure corresponds to the one of the tire model		X	
Operation of the wheel brakes	Check whether there is a change in the efficiency and progressiveness of braking		X	
Operation of the wheel parking brake works	Check the effectiveness of the wheel lock		X	
Control of the adapters	Check that the adapters are still properly installed and not deformed			X
Control of lever position	Check that the lever position is suitable for the user. If necessary, adjust the lever angle (p9)	X	X	



### **3) Identification and repairing faults**

By showing a little manual skills, you (or an attendant) can maintain certain parts of your product and thus ensure its perfect functioning:

- Check that the screws are tight, especially during the first uses of the chair with SKEED wheels or after making adjustments to the chair with the wheels and adapters. If a problem occurs, immediately stop using it and contact the specialist reseller as soon as possible;
- The wheel drive system should be checked to ensure that no dirt or dust has accumulated on the wheel axle or in the axle barrel. Lightly lubricate the wheel shaft from time to time with a thin, resin-free oil (e.g. sewing machine oil). ;
- If the wheelchair gets wet, it is necessary to dry it by wiping it.

## **VI. AFTER USE**

### **1) Disposal**

For disposal, the product must be handed over to a specialist dealer. All components of the product must be disposed of in accordance with the environmental protection regulations in force in the respective country.

EPPUR

## USER WARRANTY ACTIVATION



**+ QUICK START GUIDE**