DRE-6-108.A

USER MANUAL

DREEFT by Eppur



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

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I. GENERAL 📝

1) Information about the user manual

Before using Dreeft 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 dismantle the wheel hubs without the specific agreement of Eppur SAS or their authorised distributors. Dismantling the wheel hubs without such agreement will void the warranty.

If dismantled, Dreeft wheels may not perform correctly. exposing the user to risk of harm resulting from loss of control or falling.

You can find the PDF file of this document on the website: eppur.eu, in the **Reseller area**. The PDF file can also be displayed in an enlarged format.

For any additional information regarding these instructions for use, do not hesitate to contact your authorised retailer who supplied your Dreeft wheels. You can also contact the authorised Eppur SAS distributor in your country, or the manufacturer directly via the following email address: **help@eppur.eu**.

2) CE conformity

Dreeft wheels meet the requirements of Regulation (EU) 2017/745 relating to medical devices. According to Annex VIII of this regulation, the Dreeft wheelset was classified in class I on the basis of the classification criteria of the regulation. The declaration of conformity has been established by the manufacturer under its own responsibility.

3) Guarantee and Limitation of liability

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

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

- The tires
- Inner tubes
- Rim strips
- 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. In the event of damage due to use that does not comply with the terms of use in this document, the manufacturer declines all liability.

Warranty claims can 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 caregivers must be instructed in the safe use of Dreeft wheels by specialized personnel familiar with these instructions for use.

- Maintenance and repairs may only be carried out by specialist personnel. In the event of a problem, contact the authorised supplier who supplied you with the product.

- All updates to the instructions for use and assembly are available on the eppur.eu website in the *Reseller area*.

II. PRODUCT DESCRIPTION 🔊

1) Operation

Dreeft is a pair of manual wheelchair wheels with an integrated brake. The hub of each wheel includes a braking system operable by the handrail of the wheel to allow the user to brake without risking injury to their hands. To activate the brake, you must pull the handrail backwards; the harder the brake is pulled, the stronger the braking will be. The pair of wheels is installed on the chair using an interface to be fixed on the chair frame.

Dreeft wheels are intended for independent or accompanied mobility of people suffering from partial or total lower limb disabilities.

The wheels can be used both outdoors and indoors on stable ground.

Description of Dreeft wheels	Dreeft is a pair of wheels for wheelchairs incorporating a so- called "back-pedaling" braking system. The hub of each wheel includes a braking system controlled by the handrail. The pair of wheels is attached to the chair frame using an interface included in the installation kit.
Destination of Dreeft wheels	Dreeft allows manual wheelchair users to brake, turn and slow down with reduced effort on the upper limbs and no friction on the hands. Dreeft is intended for independent or accompanied travel by people suffering from a partial or total disability of the lower limbs.
Indications	Manual wheelchair users with considerable or complete mobility impairment due to structural and/or functional damage to the lower extremities and possessing sufficient strength and grip function of the arms and hands to propel the wheelchair.

2) General information

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Contraindications	Users who cannot propel themselves independently on a manual chair, hemiplegic users.
Users:	Users of manual wheelchairs (elderly people, adolescents, adults) who are not hemiplegic and able to propel themselves independently. Users weighing less than 120 kilos.

3) Technical data

1. Dimensions and weight

The weight of the wheel depends on the components chosen on the measurement sheet available on the eppur.eu website in the **Reseller area**.

2. Environmental conditions

The Dreeft wheels must:

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

Dreeft wheels can be used in the rain.

3. Materials

The materials depend on the components chosen on the measurement sheet available on the eppur.eu website in the reseller area.

The components below are common to all Dreeft wheels.

Rim	Aluminum
Spokes	Steel
Hub	Steel
Handrail flange	Aluminum
Tire	Rubber
Quick release axle	Steel and aluminum

4. Identification label

An identification label for the medical device is stuck on the inside of the aluminum flasks.

- 1. Manufacturer address
- 2. Tradename
- 3. Product reference
- 4. Date of manufacture
- 5. Fragile product
- 6. Do not use if packaging is defective
- 4) Wheel Components
 - 1. Overview

- 7. Read the instructions before use
- 8. CE marked product
- 9. UDI traceability number reading as follows:
 - (01) Manufacturer code
 - (11) Manufacturing date AAMMJJ
 - (21) Serial number



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

2. Components



- 1. Tyre
- 2. Wheel Rim
- 3. Wheel flange
- 4. Handrail
- 5. Spokes

- 6. Grip coating for handrail
- 7. Hub
- 8. Adapter
- 9. Quick release axle

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III. USING DREEFT WHEELS 💰

1) Assembly and disassembly of wheels

1. Compatibility

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

1 If an axle or adapter does not suit 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 chair, you must ask your distributor for confirmation. You can complete the compatibility form available on the eppur.eu website.

2. Operation steps

• Forward

The Dreeft wheels are moved forward by moving the pushrim forward. When driving forward, the actuation is direct, that is to say, similar to a classic wheel.

• <u>Freewheel</u>

During a forward trajectory, the handrail can remain stationary relative to the chair without preventing the chair from moving forward. The freewheel position of the handrail induces an "idle" play of a few centimeters which activates neither the forward gear nor the brake.

• Braking

During forward movement, a force exerted on the pushrim in the reverse direction activates the wheel braking system. Deceleration is proportional to the force exerted by the user backwards. The further backwards the push rim is rotated, the stronger the braking force.

<u>Reverse</u>

Once the wheelchair has stopped, pushing backwards allows the wheels to move backwards.

The two wheels can be manipulated independently to control the direction of the wheelchair.

3. Assembly and disassembly



- 1. Adapter centering pin
- 2. Axle receiver

To mount the wheels on your chair:

- 1. Press the push button on the quick release axle;
- 2. Check that you have the same color on the wheel disc and that of the adapter centering pin. (NOTE: There are dedicated Left and Right wheels) (image 1)

4.

Hub Daisy

- 3. Insert the axle of the drive wheel into the positioning socket (axle receiver) of the wheelchair;
- 4. Turn the wheel until the adapter centering pin enters one of the holes in the daisy chain; (image 2)
- 5. Check that the push button has decompressed. Pull on the wheel to check that it is securely locked in the frame.





3. Quick release axle from the drive wheel

Always check that the wheel is securely locked by pulling it outwards after each assembly.

A Place the right wheel firmly on the right (YELLOW DOT) and the left wheel to the left (BLUE DOT). If both wheels reverse, the braking system does not work.

4. Installation of other wheels on Dreeft adapters

▲ Once the chair is equipped with Dreeft adapters, other wheel models may become incompatible with the chair. To continue using other wheels (such as the original wheels of the chair, or MTB wheels), contact the distributor who sold the product so that they can check compatibility and adapt the wheels mounting axles accordingly..

2) First use

1. Safety information

The actuation of the wheels by the push rim is not direct as on a classic wheel. Handling a wheelchair is therefore completely different and it is necessary to practice in safe conditions before going outside.

2. First use with a wheelchair equipped with Dreeft wheels

When using the wheels for the first time, carry out the following exercises on flat ground with a companion to ensure you are familiar with the device. The companion must remain at the back of the chair to secure the user in the event of a fall while using the device.

- **Forward :** Move the pushrims forward to move forward.
- **Braking:** Move the pushrims backwards to engage the brake, and pull until the chair comes to a complete stop.
- **Reverse:** Pull the pushrims backwards until the wheelchair stops, then continue to pull back.
- **Passing obstacles :** Raise the front wheels to pass the obstacle. Be careful of play in the pushrim which can make static balance more difficult to maintain.

A Practice to get used to progressive braking, and not brake too suddenly.

A Never practice "two-wheeling" or crossing obstacles without anti-tip wheels or without the help of someone at the rear to catch you in the event of a fall.

3) Wheel maintenance

Do not use aggressive detergents, solvents or hard brushes for cleaning. Clean the wheels with a non-aggressive cleaner and water. Dry everything quickly and thoroughly.

1 grease is washed or blown out by compressed air from the ball bearings or hub, damage may occur.

10 bars. The pressure in the tires (marathon +) must be between 6 and 10 bars.

4) Wheel transport

The wheels can be removed to transport the wheelchair in a vehicle.

A Be sure to limit shock to the wheels during transport.

IV. SAFETY 🙇

1) Meaning of warning symbols

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

2) General safety information - before use

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

- Exceeding the duration of use
- Defective tires

<u>Advice :</u>

- Use of the product beyond the indicated duration of use (5 years) results in an increase in residual risks. In the following cases, no longer use the device and contact your specialist dealer:
 - Bad braking
 - Breakage or problem with the adapters
 - Wheel runout
 - Broken spokes
 - Flat or deflated tire
 - Any unusual behavior, of the pushrim, or the brake function
- When the duration of use is reached, the user or accompanying person is advised to contact the specialized 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.
- Make sure the tires are not worn or damaged.
- Replace the tires if damaged, contact your specialist dealer to repair the wheels.

3) General safety information - safe usage

Risk of finger entrapment

- Fingers caught between spokes and flange while using wheels
- Fingers trapped between the pushrim and the wheel rim during a side impact

Advice :

- Do not put your fingers between the spokes and the handrail flange while using the wheel and when it is rotating.
- Add a plastic flange to the spokes of the wheel to prevent the risk of jamming.

Risks incurred while driving (tipping, falling, impact)

Situation :

- Braking too hard
- poor reflex due to braking habits
- user with no or limited experience
- sudden acceleration
- dangerous driving

Advice :

- Carry out the training exercises for using Dreeft wheels in this manual (page 10).
- Never use the device without anti-tip wheels without mastering the 2 wheels operation. To learn 2 wheel operation: train 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 the loss of grip on the ground, which results in a loss of brake function.

4) General safety information - assembly

- Lack of verification of assembly before use Situation :
 - Switching,
 - Fall,
 - Loss of brake function

Advice :

- When using it for the first time, check that the wheels are properly engaged in the chassis, and that the axle is securely locked.
- Check that the right wheel and the left wheel are installed on their correct sides (not reversed).
- Make sure the parking brakes are still functional on the wheel.
- Ensure that the tire pressure is between 6 and 10 bars (marathon +).

Risks incurred if incorrect installation (brake not working) Situation :

- incorrect mounting of the adapter on the chassis / vice versa of the adapters
- incorrect adjustment of the parking brake during assembly,
- error when removing / installing wheels
- poor choice of adapter (case when changing chair)

Advice :

- After installation, check that the wheel is functional by rotating the wheel in mid air, and pulling the handrail backwards to activate the brake and stop the wheel.
- Check that the wheels are completely stationary when the parking brakes are engaged.
- Read the assembly instructions explaining in detail the assembly instructions.

V. MAINTENANCE 🗞

1) Safety information

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

In the event of a defect, the wheels must not be used. This applies in the event of instability, loss of the brake function or technical failure preventing the user from maintaining control. Specialized personnel must be informed as soon as possible in order to correct any defects noted.

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

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

Lack of maintenance can result in serious injury and/or endanger the life of the user.

Only specialised personnel of the authorised retailer, distributor, or the manufacturer are authorised to carry out repairs and maintenance of the product. If a repair is required this will be carried out by the dealer if possible, otherwise the wheels will be sent to the distributor or manufacturer.

2) Maintenance schedule

Control	Action to take	Before use	Every month	Every 12 months
Operation of parking brakes	Check that they are correctly adjusted to lock the wheels.	Х		
Checking tire pressure	Check that the tire pressure corresponds to that of the tire model.		Х	
Wheel brake operation	Check if there is any change in play and brake.		Х	
Checking adapters	Check that the adapters are still properly installed and not deformed.			х

3) Identifying and repairing faults

By showing a little manual skill, you (or an attendant) can maintain certain parts of your product and ensure its correct functionality:

- Check that the screws are tight, especially during the first uses of the chair with the Dreeft wheels or after having made adjustments to the chair with the wheels and adapters. If a problem occurs, stop use immediately and contact the specialist dealer as soon as possible;

- The drive wheel system must be checked so that no dirt or dust is deposited 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, it is necessary to return the product to the specialist dealer. All product components must be disposed of in accordance with the environmental protection regulations in force in the country concerned.

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VII. NOTES

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