

## Netti Precision 1 and 2

# NETTI PRECISION™ SEAT CUSHIONS

CE This product conform to regulation MDR (EU)2017/745 for medical products.



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### 1. About this manual

In order to avoid damages while using the Netti Precision 1 and 2 seat cushion, please read this user manual carefully before starting to use the cushion.



Symbol of warning. Whenever this symbol is used, caution has to be taken.



Symbol for tools.

**MD** Medical Device

C C On products sold within the European Economic Area (EEA), signifies that the manufacturer has verified the product meets the EU's safety, health, and environmental requirements.

Manufacturer - Name and address

Symbol for important information.

Date of manufacturing



Read instruction for use

Please note that this manual is updated according to the year and date stated on each page. User Manual on web - My-Netti.com

For enhanced readability ( advantageous for users with visibility challenges) please find our user manual on our web page: https://www.my-netti.com/spare-part/netti-precision-1/

Latest user manual updates, product safety notes, addresses and other product information like recalls etc. will be published on our web page.

### 2. Purpose of product

Netti Precision 1 and 2 are seat cushions developed to fit to all types of wheelchairs. They are created with Ergomise <sup>™</sup> technology and enhance pressure distribution, seating stability and support and thus skin protection. The isotropic properties of this structure enables pressure distribution at high level for 100% passiv to 100% active wheelchair users.

Acombination of a friction fabric and Velcro under the cushion makes it compartible with the whole range of existing wheelchairs on the market.

Contraindications

Pressure injury which prevents the user to be seated for short or long time or to be seated at all.

The product complies with the requirements of MDR (EU) 2017/745), and wheelchair standard EN 12183:2022.

The Netti Precision material, construction, geometry, and ergonomics meets the requirements for technical assistance in accordance with the MDR.

The interaction between the product and the user is carefully evaluated in the risk analysis. For the product all required and necessary actions are performed to prevent inacceptable rest risks.



### 3. Range of Use

Our seating specialists have optimised every aspect of the cushions - from pressure distribution, off-loading of high-risk areas, minimising peak pressure to material composition. The result is state-of-the-art multi-hardness cushions that with Ergomise™ Technology can deliver unmatched comfort, stability, and advanced skin protection: Netti Precision 1 and Netti Precision 2.

We have created an optimal three-dimensional balance of soft and firm support zones and layers, ensuring posture control and skin protection.

The cushions are designed for long-term seating and individuals with skin sensitivity or high risk of pressure injuries. Netti Precision<sup>™</sup> seat cushions are ready to use, hygienic, and built for long-lasting performance.



- When user is at risk of skin and pressure injuries.
- Pressure distribution and relief.
- Protects bony areas.
- Support of the pelvic ensures a good seating position.

• Great immersion minimises risk of sliding forward.

### **NETTI PRECISION 2**



- For users with sensitive skin, high risk of skin damage or even skin injuries.
- Pressure distribution and relief.
- Enhanced pressure relief of tail bone and pelvic floor.
- Support of pelvic ensures a good seating position.
- Great immersion minimises risk of sliding forward.

### CREATED WITH ERGOMISE<sup>™</sup> TECHNOLOGY

With Ergomise<sup>™</sup> Technology we ensure that our cushions deliver proven results. The Netti Precision<sup>™</sup> seat cushions and the underlying technology have been tested against competitor cushions not only by Netti, but also by the test institute at the University of Pittsburgh (ISO 16840-2, -6,-12-13), and the results show outstanding performance.

### **Netti**

### **TEMPERATURE CONTROL**

High temperature can lead to humidity causing skin breakdown. The Netti Precision™ material maintain a low temperature and thus lower risk of injury. According to the test institute at the University of Pittsburgh, the temperature at the interface between the user and Netti Precision™ material is only 32,7°C after 3 hours. Comparable cushions measure between 33,7°C and 35,7°C.

### HUMIDITY CONTROL

Humidity above 60% can increase skin vulnerability and cause friction between the skin and textiles, which potentially can lead to pressure injury. This is why we aim to keep the humidity low. The tests from the University of Pittsburgh show that the cushion with Netti Precision™ material has a humidity level of 62% after 3 hours compared to an average of 81,2% for the 14 comparable cushions.

### PEAK PRESSURE CONTROL

Once a decubitus ulcer has developed, wheelchair users can face painful treatments, months of bed rest, and hospitalisation. Netti Precision™ offers an effective pressure redistribution strategy, which is key to prevention of pressure ulcers.

Pressure mapping has shown that Netti Precision<sup>™</sup> surpasses other pressure-relieving cushions when it comes to peak pressure reduction.





### 4. Technical specifications

### CORE

The core is made of bio-compatible thermoplastic polyurethane (TPU). The material has no added phthalates.

### **OUTER COVER**

You can choose between 2 different fabrics:

• Breathable and stretchable Stella+ with a foam insert

• Wipeable, breathable EasyCare+ with a foam insert

### TOTAL WEIGHT:

sw350 mm - 0.7 kg sw600 mm - 1.9 kg

#### SEAT DEPTH AND WIDTH:

Seat width 350 - 600 mm

Seat depth 400 - 500 mm



Precisions 1 and 2 are available in various dimensions to fit common seating dimensions:

Sizes, mm (seat width x seat depth)
350 x 400, 350 x 450, 350 x 500
380 x 400, 380 x 450, 380 x 500
400 x 400, 400 x 450, 400 x 500, 400 x 550
430 x 450, 430 x 500, 430 x 550
450 x 400, 450 x 450, 450 x 500, 450 x 550
500 x 450, 500 x 500, 500 x 550
550 x 500, 550 x 550
600 x 500, 600 x 550

The therapist is responsible for choice of cushion model for the wheelchair user. If ot standard solutions does not cover your needs, please contact our customer service for Netti customized solutions.



Programmable Foam cushions can be used safely in temperature range between -10  $^\circ C$  to + 65  $^\circ C.$ 

The cushion should not be used under -10 °C because it will harden the material. We recommend keeping the seat cushion under 65 °C at all times.



### 5. Potential risk

The cushions are "pre-fit" and needs no more fitting as long as mounting- and washing instructions are followed. If the user has a presure injury we recommend the user to ask their GP for advice. For this product there is no unreasonable overall risk left after product risk analysis carried out according to ISO 14971. The risk-benefit ratio shows a predominant benefit for the user.

### 6. Mounting description

The seat cushion is taken out of the packing and placed in the seat of the wheelchair. Place the cushion according to instructions on the labels attached to the bottom fabric of the outer cover. Check that the Velcro and friction fabric is facing down towards the seat plate.

The seat plate needs to have the opposite Velcro firmly fixed. Make sure that the Velcro from the seat plate and the bottom of the Precision cushion must fit direct on each other to ensure safe positioning of the cushion.



The front of the cushion should be lined up even with the front of the seat plate.

### Netti

### 7. Maintenance

Before seating the user, check that the cushion is placed correct according to instruction on label under the cushion. On a regular basis, check that the core and covers are placed correctly.

Before sitting for long periods, begin by using your cushion for short sessions, 5 minutes first time if you have any PI (Pressure Injury) issues. After each session, check the skin areas that were in contact with the cushion. If you notice any redness, it should disappear within 10 to 30 minutes. If the redness lasts longer than 30 minutes, contact your doctor or therapist.

If your skin checks show no lasting redness, you can slowly increase your sitting time by 5-30 minutes to 1 hour each day, depending on your Pl issues. Keep checking your skin after each increase. Generally, sitting for 2 to 4 hours at a time is the recommended maximum. Even after your skin gets used to the cushion, continue checking it at least once a day.

Make sure to regularly relieve pressure by lifting yourself or using a power tilt, as advised by your healthcare provider.

### Important Warning:

If any redness from using the Precision cushion stays longer than 30 minutes, stop using the cushion and contact your healthcare provider immediately.



### **Ongoing Checks and Adjustments**

Over time, your cushion may compress or your weight may change. Regular checks are necessary to ensure there's enough space under your sitting bones (ischial tuberosities). Not doing so could lead to injury.

### 🥑 Follow-Up Care

It's recommended to have your posture and skin condition reviewed by a healthcare professional at least once a year, or sooner if you notice changes in your weight, posture, or overall health that might affect your sitting comfort and safety.

The need for washing core & covers will vary from user to user depending on degree of incontinence etc. A rule of thumb can be to take the core out of the covers once a week and let it stand edgewise to aerate and at the same time wash the covers.

It is recommended order a spare cover so the seat cushion can be used during washing procedure of the cover.

The core and the covers are to be washed separately. For Easycare+ cover, mild detergent can be used. DO NOT USE CHLORINE BLEACH. After washing, shake the core to remove excess water and let it stand to air drying. Do not use harsh cleaners such as scouring pads & heavy-duty grease removers, or solvents, such as acetone. To remove spots and stains, use standard house- hold cleansers and a soft cloth. To loosen heavy, dried-on soil, you may first need to saturate the spot and this can most often be solved by machine wash.



### 7.1 Cleaning and washing

The only need for maintenance of the cushion is cleaning:

- Netti Precision 1
   Max user weight 160kg
   65°/Q

   Sz: W350xD400
   Item no.231003
   C Max.30min.

   Image: Signal Control of the second se
- 1. Open the zipper at the rear and take the outer cover off.

2. Take out the core and place it for airing while the covers are washed. The inner core can also be rinsed under a tap or shower at 65 degrees or washed at gentle washing program in a washing machine at maximum 65 degrees for maximum 30 minutes. Shake the seat cushion a few times to shake the water of and let air-dry shortly if needed.

- 3. Follow washing instructions described on label attached to the bottom of the inner and outer cover .
- 4. The core is placed in the covers with the label facing down. For correct position of front and rear, see label.
- 5. Mount the outer cover. Make sure that the zipper faces rearwards and that the label faces down

Always follows the cleaning instruction label on cushions and covers.

Use washing bag for the covers - the Velcro may cause extra wearing during washing.

Male" part of Velcro can be cleaned with a steel file brush.

Core:	Precision 1 + 2
Wash	Rinsed by hand under cold water in the shower, max machine wash 65 °C at max 30 minutes without spin cycle
Sterilization, regular*	Alcohol bath solution (Isopropyl alcohol or ethanol with concentration of 70% or higher) for 15-30 min.
Sterilization, rare*	Vapor steam at 121 °C for 20 min.
Cover:	
Wash	Max machine wash 60 °C
Drying	Tumble dry max 85 °C

\* Read instructions on core, on cushion and on package.

### 7.2 Reuse.

Alu Rehab considers seat cushions to be an intimate and very personal medical accessory product. If reusing, we advise to at least exchange the cover or replace the complete cushion.



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It is mandatory to replace the cushion if the last user had infection - possibly with multi-resistant bacteria.



### 8. Tests & Warrantv

### 8.1 Tests

Netti seat cushions are tested and have been approved for both indoors and outdoors use. Netti seat cushions are CE marked and are manufactured to comply with the Medical Device Regulation (EU) 2017/745.

#### Maximum user weight for Precision 1 and 2. Seat cushion with seat width < 500 mm = 160 kg

Seat cushion with seat width > 500 mm = 200 kg.

Netti wheelchairs with Netti cushions have been tested by an accredited German test laboratory according to EN 12183. Netti wheelchairs with Netti cushions have also been crash tested at TASS International AS, Netherlands, and evaluated by accredited German test laboratory according to ISO 7176-19. Boths are approved for being used as a seat in a car.



Netti Precision seat cushions (core and cover) have been tested according to the following other standards: Fire resistance: EN 1021-1 and 2.

Skin contact and cell contact:Cytotoxicity according to ISO 10993-5, Annex C and In vitro sensitization according to ISO 10993-10, Appendix C.

Only the core is also tested for acute skin irritation according to ISO 10993-23.

The TPU has no added bisphenol and phthalates.

### 8.2 Warranty

The durability and longevity of the Netti Precision seat cushions depends on the design, selected hardnesses and stress applied.

Compared to equivalent hardness with conventional foam cushions (PU and PUR) the Netti Precision seat cushions are superior. Therefore, there is a 2-year warranty on all Netti labelled precision seat cushions.



Alu Rehab is not responsible for any damage resulting from inappropriate or incorrect installation and / or repairs, wear, maintenance and washing as well as deliberate damage not approved by Alu Rehab or produced by third parties. In such cases, this warranty shall be considered null and void.



This warranty is only valid when the user uses, maintains and handles the seat cushion as described in this user manual.



### 8.3 Claim

If a product has developed a fault during the warranty period as result of a defect in design or manufacturing, you may forward a warranty claim.

• Claims are to be forwarded as soon as a defect is discovered and not later than 2 weeks after the defect is discovered.

• Claims are to be addressed to the sales agent of the wheelchair. Please note that sales documentation has to be filled in and signed correctly with serial number and eventual NeC number in order to document time and place of the purchase of the wheelchair.

• The sales agent and Alu Rehab are to decide whether a defect is covered by this warranty. The claimer will be informed about the decision as soon as possible.

• If the claim is accepted, the sales agent and Alu Rehab representative are to decide if the product will be repaired, replaced or if the customer is entitled to a reduced price.

• If a warranty claim is judged to be invalid - after careful inspection of the defect (defect due to wrong use and/ or lack of required maintenance) you are free to decide if you want to have the product repaired (if possible) at your expense, or if you want to purchase a new product.



Normal wear, incorrect use or incorrect handling is not a reason for claims.

### 8.4 Combination with other products

Combinations of Netti and other products not manufactured by Alu Rehab A.S: Generally, in these cases, the CE mark of all the products involved will not be valid. However, Alu Rehab A.S has made combination agreements with some manufacturers about some combinations. By these combinations the CE mark and warranties are valid. For further information, please contact your dealer or Alu Rehab A.S Norway directly.

PRODUCT RESPONSIBILITY

Netti seat cushions Precision 1 and 2 has been tested /risk evaluated by Alu Rehab.

Substitutions or alterations by third part suppliers to Netti seat cushions requires the risk evaluation and acceptance of the product responsibility and safety for use of the wheelchair from the manufacturer that is performing the substitution or alteration.





### 8.5 The enviroment and waste disposal



Alu Rehab and its suppliers wish to protect the environment. This means:

• That we avoid using environmentally harmful substances and processes to the greatest extent possible.

• That Alu Rehab's products are ensured a long service life and a high degree of flexibility - to benefit the environment and economy.

- That all packaging can be recycled.
- That the seat cushion was designed to make recycling easier.

• Please contact your local recycling firm to get updated information which components and materials can be recycled and how they are to be separated.



A recycling manual for Netti Wheelchairs can be downloaded at My-Netti.com

For visually impaired people, manuals and catalogues can be downloaded at www.My-Netti.com











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