

User manual

Easywheel



Updated: 2012-08



 **decon wheel**

The undersigned, representing the following manufacturer

Decon Wheel AB
Org.No. 556618-9006
Södra Ekeryd 119, 314 91 Hyltebruk
Sweden

hereby declares that the product

Easywheel

with the basic UDI-DI 735001014VHNG

and the following references

VH2100	VH2130	VH2140
VH2100-1	VH2130-1	VH2140-1
VH2100-2	VH2130-2	VH2140-2
VH2100-3	VH2130-3	VH2140-3
VH2100-5	VH2130-5	VH2140-5
VH2100-6	VH2130-6	VH2140-6
VH2100-7	VH2130-7	VH2140-7

is in conformity with the Medical Device Regulation (MDR) 2017/745 as a class I medical device based on Annex VIII.

Intended purpose: The device is a mechanic drive unit for manual wheelchairs with the intention to provide mobility and flexibility to persons who are unable to walk or have restrictions on walking. The device is intended for indoor and outdoor use.

This EU declaration of conformity is issued according to Annex IV in MDR and under sole responsibility of the manufacturer.

Hyltebruk, 2021-05-25


Benny Andersson
COO



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Easywheel

- You now own a new wheelchair with Easywheel. For you to get the best possible use out of it, and for it to suit your needs as much as possible, we hope that you have had it tested by an approved agent. This means that your wheelchair, with Easywheel, has been adjusted to suit your requirements and at the same time your bodyweight and needs have been taken into consideration. We assume that this has been undertaken and that you have also received instructions and advice on how to use your wheelchair in your daily life.
- Easywheel is a mechanic hub with a gearing system which is activated by the hand rims. Easywheel is tested and passed by the TÜV in Germany.

We hope you will be very happy with your Easywheel.



Please read through the instruction manual thoroughly. There are a number of points which directly relate to your personal safety. Decon Wheel are limited in responsibility only to those alterations undertaken by approved personnel. We reserve the right for any eventual alterations to the equipment and specifications.

Delivery checks

Check that all the parts agree with those stated in the delivery note. Any damage incurred in transit is to be immediately reported to the delivery company. Remember to retain any original packaging until the delivery company has inspected the goods and an agreement has been reached.

Incorporated components



Identification and marking of Easywheel

CE-Label



On the label on the inside of the hub, you can see the CE-mark and production year and month, you can also read with version it's on the hub.

Important safety precautions before using Easywheel

For safety reasons, Easywheel can only be used by people who:

- Have received training in how to use Easywheel
- Are in good physical and mental condition in order to be able to operate Easywheel safely in all its operational modes.
- Instructions in the use of Easywheel are included in the delivery and are undertaken within an agreed time scale through your specialist dealer or a representative of Decon Wheel. This service is totally free.
- If you still feel unsure about using Easywheel then please contact your specialist dealer.
- Observe all the specifications that the wheelchair manufacturer has specified in the instruction manual, particularly those relating to the maximum obstacle clearance. Furthermore, carefully follow the operating and safety instructions in the wheelchair's instruction manual.
- Easywheel does not have its own independent braking system. Therefore you must fit parking brakes to the wheelchair and adjust them for use with Easywheel. If the wheelchair is fitted with drum brakes, then you must remove these in order to operate the wheelchair with Easywheel. In this case, it is absolutely necessary to equip the wheelchair with parking brakes.
- Easywheel is designed for both indoor and outdoor use. However, a fundamental requirement is that you operate the wheelchair on firm ground.

Various Easywheel models

Easywheel is delivered in four different sizes, 20", 22" or 24".

Easywheel can also be equipped with various types of hand rims, adjusted to suit.

The hand rims are made of metal or use other various plastic-based coatings.

Assembling the Easywheel

Make sure that the adapter is mounted on your wheelchair

1. Start by fitting Easywheel to your wheelchair. The wheel has a quick release coupling (QR – axle). Lower the handle to the quick release when fitting.



Picture 1

2. Then insert the QR- axle

It is vitally important that the axle is pressed in far enough otherwise the QR axle can break off or come away from the wheelchair.



Picture 2



Picture 3

Protection from tipping

- Before you begin using Easywheel for the first time, you must check that the anti-tip protection is mounted on the wheelchair.

For safety reasons you should only take away the anti-tip-protection in order to overcome an obstacle, for instance, high kerbs or similar. In such cases, you will need the assistance of another person.

The assembly instructions delivered with your wheelchair should be followed when assembling or dismantling the anti-tip device.

Important information

If you operate your Easywheel wheelchair using the same force as a standard manual wheelchair, you will soon notice the difference when you come to tackle obstacles which you previously were unable to manage, thanks to Easywheel. The hand rims can be slippery and it can prove difficult to control the wheelchair if your hands are wet or if you operate it in the rain. The hand rims will have the capacity to run at twice the speed of the wheels when negotiating a slope, so be careful if you have dry plastic-coated rims that can cause very high friction in your hands.

It is important that, as a user, you are aware of how the wheelchair works before you start to use it (look at the wheelchair manufacturer's safety instructions in the instruction manual).

Lock the brakes when stepping out of or into the wheelchair.

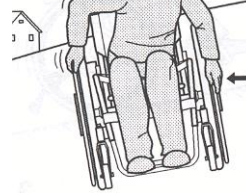
Check that the tyres on your Easywheel wheelchair have the correct air pressure when operating.

The air pressure is to be maintained at 6 bar.

A guide to riding safely

Negotiating steps

To get over lower steps, try riding backwards



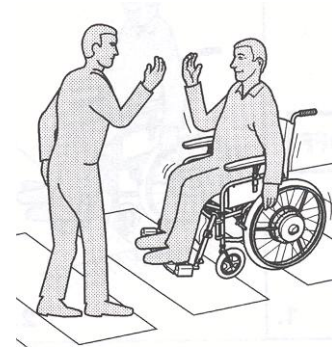
Slopes

Practice riding on sloping surfaces.

Crossings and pavements

Take your time if you are crossing on a pedestrian crossing.

Ride carefully so that you don't run into any kerbs.



Transporting and dismantling Easywheel

Lower the handle (Fig. 1) and gently lift the out the wheel.

see how the wheelchair itself is folded together, please refer to the wheelchair manual which accompanied it.

To

Areas of use

Easywheel is a mechanical hub with a gearing system which is activated using the hand rim. The gear in the hub is connected to the hand rim. When the hand rim is rotated forward the gear system is activated and helps the user to drive the wheelchair forward. Easywheel is suitable for all users who use a hand rim-operated manual wheelchair. When being used, Easywheel takes over approximately 50% of the energy required to propel the wheelchair. The Easywheel system works for both indoor and outdoor use. The maximum weight capacity is 125kg.

The wheelchair cannot be used if the wheelchair's anti-tip protection is not fitted. For the CE-markings to apply, then the following points must be adhered to:

- The tipping protection has to be fitted.
- Assembly, repairs or any other work may only be undertaken by authorised personnel or representatives from Decon Wheel.
- The anti-tip protection shall be adjusted so that it can move freely horizontally.
- The user shall be instructed on the following points:
 - To ensure that the anti-tip protection can move freely.
 - To take care when they ride over obstacles higher than 4cms.
 - The wheelchair with Easywheel shall always be tested together with the user in respect of the wheelchair's maximum obstacle clearance capability.
 - Every wheelchair equipped with Easywheel must be tested together with the user in respect of the tipping action at the back axle. The critical tipping point is the position at which the wheelchair, in the leaning back position, falls backwards.

Guarantee and maintenance advice

- Easywheel is a product which requires little maintenance and if it is maintained in the correct manner then no problems should arise.

Guarantee

- The complete product is guaranteed for a period of two years.

Maintenance advice

- The wheel axles are to be wiped clean and oiled with a drop of oil
- The spokes should be tightened twice a year.
- The screws and bolts should be checked regularly and tightened where necessary (applies to all loose parts)
- The frame should be dried with a soft cloth, moistened with cleaning fluid diluted with water.
- Check over Easywheel twice a year to ensure that no cracks or any other damage has arisen. If there is any sign of damage then we ask you to inform Decon Wheel immediately.
- All technical servicing shall be undertaken by authorised personnel or Deacon Wheel.
- Only original parts or parts which have been approved and fulfil Decon Wheels specifications may be used.

Re-using Easywheel

When Easywheel is to be used by another user then the wheel and nut components are to be removed from the wheelchair. The nuts are to be cleaned with a gentle cleaning fluid. The tyres and tubing, hand rim and spoke protection are to be removed from Easywheel, the whole wheel is cleaned using a gentle cleaning solution. It is then given a function-test. If the wheel jams then it should be sent in for inspection to Deacon Wheel or to a referred service partner. The QR axle is to be checked and tested. The hand rim and spoke protection are to be fitted, or changed if they show signs of heavy wear and tear, and new tyres are to be fitted. It is then to be packed securely and labeled, clearly stating the type of wheelchair the nut components belonged to.

Information about corrosion

All Easywheel's parts are produced from aluminium and stainless steel. Furthermore, all the material surfaces have been treated and consequently there is no increased risk of corrosion. Nonetheless, after using it, you should always wipe off any water or damp from the Easywheel fittings with a cloth.

Service and repairs

Easywheel requires minimum maintenance when used normally. For safety reasons, Easywheel should be handed in for checks every other year, even if you do not experience or notice any perceptible damage or operational problems. When you need a service or if any maintenance work is required then get in contact with Deacon Wheel or your dealer.

Fault identification on Easywheel

Fault	Check	Action
The hand rim doesn't drive the wheel forward	Check that the wheel is not jammed with the adapter	Ensure that the driver engages with the adapter and that the wheel can be pushed in so that it connects with the adapter
Easywheel labours when going forward	Check that the air pressure is at 6 bar	Pump in more air if the pressure is too low

Technical data

Easywheel weight: 4 kg/wheel

Tyre dimension: 20, 22, or 24"

Air pressure: 6 bar, 600 kPa or PU tyre

Chair width extension: approx. 1 cm

Maximum weight capacity: 125 kg (check the wheelchair manufacturer's specifications)

Maximum obstacle clearance: see the wheelchair manufacturer's specifications

Warning!

- If these instructions are not adhered to, it may lead to personal injury or damage to the wheelchair.
- Always use anti-tip protection.

To order Easywheel and any spare parts, then get in touch with Decon Wheel or your dealer.

Manufacture:

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