

# MAGNESIUM<sup>Mg</sup> WHEELS



## USER MANUAL

# MAGNESIUM WHEELS

**Thank you for your confidence in our wheelchair wheels!**

Our goal is to give all active and sporting wheelchair users the opportunity to experience the convenience of lightweight Magnesium Wheels.

Read this manual thoroughly before using. This manual contains the necessary information about the use and maintenance of your Magnesium Wheels. If you have any questions, you can always contact your Magnesium Wheels dealer.

View the manual online at:  
[www.magnesium-wheels.com/manual](http://www.magnesium-wheels.com/manual)

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## 1. Introduction

This user manual is for all types of Magnesium Wheels.

### INTENDED USE

Magnesium Wheels are suitable for everyday use and for a variety of sports. They should not be used for any type of contact sport. The maximum weight of the wheelchair user plus baggage that the wheels can take is 120 kg.

### DISCLAIMER

Magnesium Wheels are wheelchair wheels for the ADL wheelchair and the sports wheelchair. In the case of the sports wheelchair, checking the wheels before and after use is compulsory, as is cleaning after use. If any flaws are detected during use or maintenance, you should contact your Magnesium Wheels dealer immediately. Magnesium Wheels is not liable for damage and/or injury resulting from the use of the Magnesium Wheels wheelchair wheels in cases of incorrect use, careless use, poor maintenance, the use of the wheels for purposes other than those prescribed, or non-compliance with the instructions in this manual and any other information provided by Magnesium Wheels.

### GUARANTEE

Your Magnesium Wheels are covered by a two-year guarantee, on condition that the wheels have been used and maintained as prescribed. In the event of faults in the product, always contact your Magnesium Wheel dealer immediately. The guarantee entitlement expires in the event of non-compliance with the instructions in the user manual.

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## 2. Safety

### INSPECTION BEFORE AND AFTER USE

When using for wheelchair sports, always check your wheels before and after use. You should also clean your wheels after each use. Check both sides of your wheel for damage, for loose or broken/bent spokes, and for any play in the bearings. For ADL use, these checks should be performed regularly depending on the intensity of use and the amount of dirt accumulating on the wheels.

### CLEANING

Clean your Magnesium Wheels with a soft, fluff-free cloth and a mild (preferably biodegradable) detergent. Prevent water getting into the bearings.

### SAFETY PROVISIONS

#### Grip coating

The optional pushrim features a special wear-resistant grip coating. This coating prevents hands from slipping on the rim, even if the hands are sweaty.

#### Spoke protectors

If there is an increased risk of limbs or materials getting caught between the spokes, the use of spoke protectors is compulsory. These are not supplied as standard. Contact your Magnesium Wheels dealer for further information.

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## 3. Delivery, transport, and storage

### CONTENTS OF THE PACKAGING

Two very precisely assembled Magnesium Wheels. A set of six nuts and bolts. These are for the mounting of an optional pushrim. The use of other bolts than the special Magnesium Wheels ones is expressly forbidden.

### TRANSPORT

When the wheels are transported, they should always be kept free of any sideways pressure and any risk of scratching or other damage. The wheels must be correctly attached to the wheelchair or packaged in wheel bags. In order to prevent damage, the tyres must always be mounted (see instructions in user manual).

### STORAGE

The wheels must be correctly attached to the wheelchair, or stored in a wheel bag or in the original packaging. In order to prevent damage, the tyres must always be mounted (see instructions in user manual).



## 4. Models and dimensions

The Magnesium Wheels are available in the following dimensions:

- 24 inch ETRTO: 540 (24 spokes, 120 Kg load-bearing capacity)
- 25 inch ETRTO: 559 (24 spokes, 120 Kg load-bearing capacity)
- 26 inch ETRTO: 590 (24 spokes, 120 Kg load-bearing capacity)
- 27 inch ETRTO: 622 (24 spokes, 120 Kg load-bearing capacity)

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## 5. Assembly, maintenance, and damage

### MOUNTING THE WHEELS

Your dealer will mount the wheels for you and - if necessary - provide instructions about assembly.

### MOUNTING THE TYRES

Attach the rim tape and mount the tyres in accordance with the manufacturer's instructions. Note! The use of tools other than the tyre levers shown below is expressly forbidden!



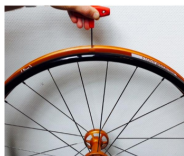
Instructions for mounting the Schwalbe Marathon Plus outer tyre:  
The Marathon Plus tyre by Schwalbe is very tricky to mount. Please follow the instructions provided by Schwalbe.  
<https://www.schwalbe.com/en/montage.html>



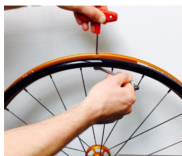
### MOUNTING THE PUSHRIM

When mounting a pushrim, the bolts supplied with your Magnesium Wheels must be used. When switching the rims, always use new nuts and bolts. The use of bolts other than those supplied by Magnesium Wheels is expressly forbidden! The bolts must be tightened to a maximum of 5 Nm in accordance with the procedure described below.

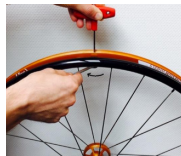
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**Step 1:**  
Insert an Allen key into the bolt.



**Step 2:**  
Place a spanner onto the nut.



**Step 3:**  
Tighten the nut using the spanner.

## **Step 4:**

Replace the spanner with a torque wrench once you feel the smallest amount of resistance. Tighten the nut to 5 Nm. Note! The Allen key is only to keep the bolt in place and stop it turning. Do not tighten the bolt using the Allen key.

## **MAINTENANCE**

Aside from checks and cleaning, no maintenance is required for the Magnesium Wheels. The high-quality bearings must be replaced by your dealer if there is any play in the bearings, if the bearings make a cracking or creaking sound during use, or if the wheel no longer turns smoothly.

## **REPAIRS**

If repairs to the Magnesium Wheels are required, you should contact your Magnesium Wheels dealer.

## **PARTS**

It is expressly forbidden to use parts other than the original parts or parts recommended by your Magnesium Wheels dealer. This is forbidden due to a possible reaction between the various materials.

## **DAMAGE**

In the event of damage or complaints, contact your Magnesium Wheel dealer immediately.

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## RIGHT INNER TUBES

540 - Schwalbe Presta (French) 40mm SV9A  
559 - Schwalbe Presta (French) 40mm SV11A  
590 - Schwalbe Presta (French) 40mm SV12B  
622 - Schwalbe Presta (French) 40mm SV20

Available at Amazon, Ebay or ask your local bike repair.



## 6. Sale or end of useable life

### SALE

If you sell on your set of wheels, you are obliged to pass on this user manual stating the contact details of your dealer.

### END OF USEABLE LIFE

If you decide to no longer use your wheels, you should dispose of them in accordance with the locally-applicable rules.