

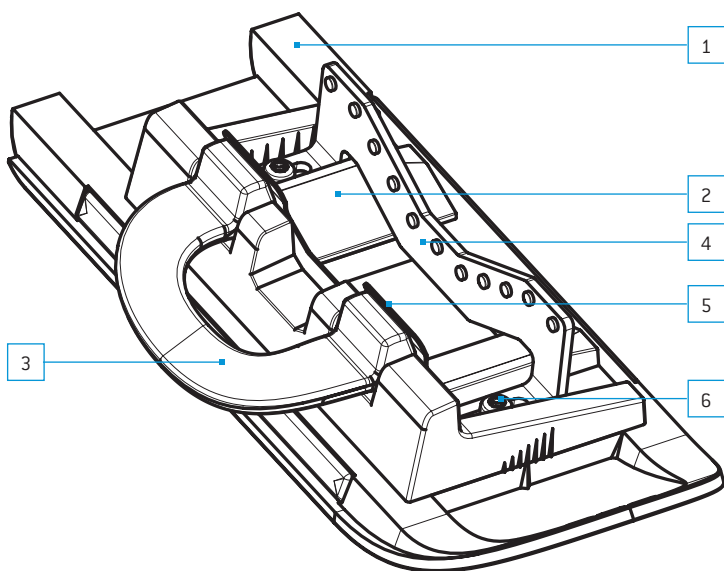
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# Overview

(ski attachment mounted on right)



## Key:

Pos.	Description	Material
1	Ski	POM polyoxymethylene
2	Ski attachment	POM polyoxymethylene
3	Clamping lever	Aluminum, semi-gloss nickel-plated
4	Try square	Chromium steel
5	Spring plate	Spring steel
6	Fastening screw	Chromium steel

# 1 General

## 1.1 Conformity

Wheelblades are in conformance with Directive 93/42/EEC regarding medical devices as well as Directive 2007/47/EC, which contains revisions to the first-mentioned directive.

WHEELBLADES GmbH

Untere Industrie 10

CH-7304 Maienfeld

Switzerland

## 1.2 Information on Operating Manual

To travel safely using the Wheelblades, you must carefully read through and consult the operating manual for the wheelchair in addition to this operating manual. Wheelblades are intended only for expanding the range of motion on packed-down snow on streets and pathways.

## 1.3 Explanation of Symbols

The following symbols refer to hazards. Serious injuries may occur if they are not heeded.

### **DANGER/CAUTION!**

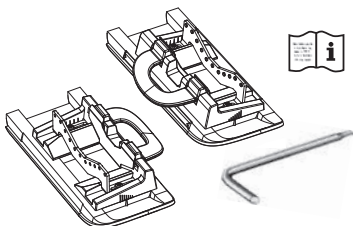
This sign indicates a possible hazardous situation, which could lead to mild bodily injuries, serious injuries or even death if not avoided.



## 1.4 Scope of Delivery

The following parts are included in the scope of supply:

- Wheelblades, completely assembled
- 1 × Torx wrench, size T25
- 1 Operating Manual



## 1.5 Warranty

The Wheelblades Company guarantees trouble-free and well-functioning Wheelblades. The warranty shall cover all errors and defects that can be definitively traced back to faulty construction, poor choice of materials or faulty execution. The warranty period extends over 2 years from date of purchase. It does not include items subject to wear and tear.

The warranty does not include:

- Normal wear and tear
- Improper treatment and damage
- Lack of maintenance
- Faulty assembly
- Defects that can be attributed to external circumstances
- Modifications not approved in writing by Wheelblades GmbH
- Damage due to the use of unsuitable spare parts

The consequential costs are not included in the warranty.

## 1.6 Service Life

Wheelblades are designed for a service life of 5 years.

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# 2 Safety

## 2.1 Proper Use

Wheelblades are to be used for travel on packed-down snow without any loose gravel. They are not suitable for traveling on ice, deep snow or snow-free substrata. They are not intended for use on ski or toboggan runs or the like.

- Wheelblades are intended only for manually driven wheelchairs.
- The users (wheelchair users, assistants) must be in full possession of their mental capacities and must have read and understood the operating manual.
- Wheelblades may only be mounted on the wheels of the front shaft of the wheelchair (steering wheels). They are designed for wheel diameters of 80 mm to 200 mm and widths of 20 mm to 60 mm.
- Wheelblades are used to expand the range of motion of a wheelchair user. **It is not a sporting device and not designed for the impact experienced during sports.**

#### DANGER/RISK!

If not used properly, dangerous situations may arise which could in turn result in serious injuries or even death.



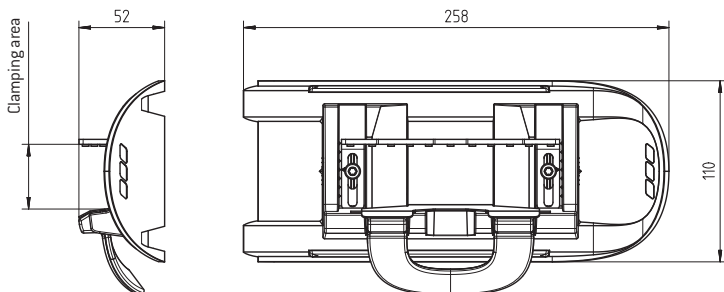
## 2.2 Assistance

Seek the help of an assistant when mounting and dismounting the Wheelblades on the steering wheels of your wheelchair to prevent the chair from tipping over.

## 3 Technical Data

### 3.1 Dimensions and Weight

Fig. 1: Dimensions



Clamping area for wheel widths	20 – 60 [mm]
Clamping area for wheel diameters	80 – 200 [mm]
Weight per Wheelblade	0,5 [kg]

### 3.2 Environmental Conditions

Temperature	–20 – +30 [°C]
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### 3.3 Label

Each Wheelblade is identified by a nameplate and model index with serial number. Make sure the operating manual matches the model index on your Wheelblade.

**WHEELBLADES GmbH**  
CH – 7002 Chur



Wheelblades für Rollstühle  
Serie-Nr.: A 00001

Fig. 2: Description of nameplate

Serial number  
Model index

## 4 Design and Function

### 4.1 Clamping mechanism

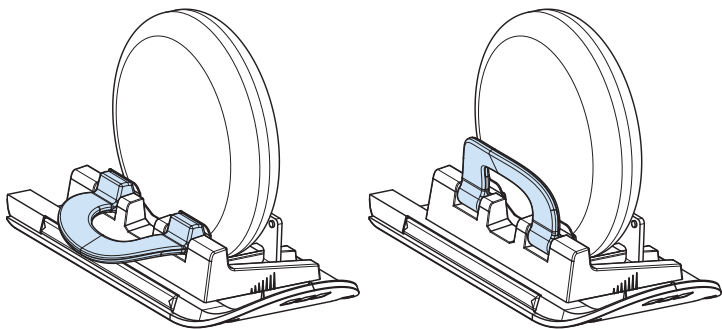


Fig. 4: Clamping mechanism open

Clamping mechanism closed

## 5 Configuration

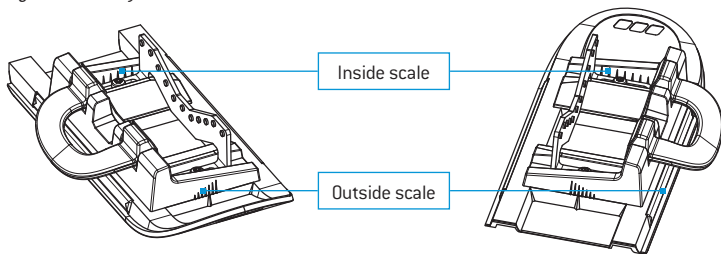
The Wheelblades may only be mounted on the wheels of the front shaft of the wheelchair. They are designed for wheel diameters of 80 mm to 200 mm and widths of 20 mm to 60 mm.

If the Wheelblades have not yet been adapted to your wheelchair by the manufacturer or sales representative, you must configure them yourself.

### 5.1 Initial Configuration

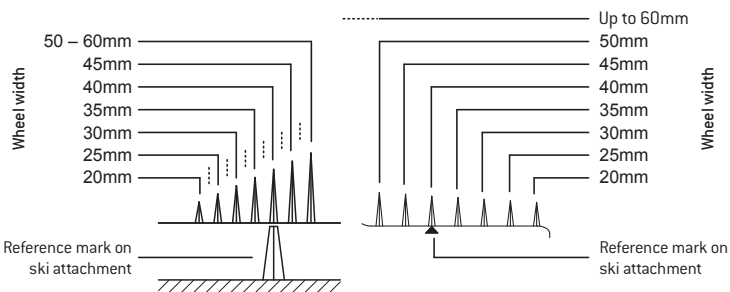
There are 2 scales for setting the clamping width. An outside scale for setting the position of the ski attachment and the ski and an inside scale for setting the position of the try square and the ski attachment.

Fig. 5: Position of scales



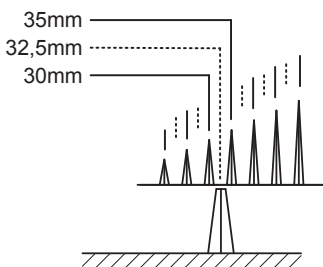
### Outside scale (front and back)

Fig. 6: Definition of scales



- 1) Loosen both fastening screws so that the ski attachment no longer engages on the ski and can be moved freely.
- 2) Measure the width of the front wheels. (Example: Wheel width 31.5 mm)
- 3) Round the measured value to the nearest whole millimeter. (Example: Wheel width 32 mm)
- 4) Adjust the ski attachment to the ski in such a way that the rounded value is approximately the same as the outside scale. Orient yourself by the triangles of the scale that are increasing in size and according to Fig. 6.
- 5) Make sure the ski is mounted straight. Use the same setting on both outside scales.
- 6) Proceed in the same way when setting the try square. Orient yourself by the two inside scales on the ski carrier.
- 7) Tighten up the screws.

Example: Wheel width 32 mm

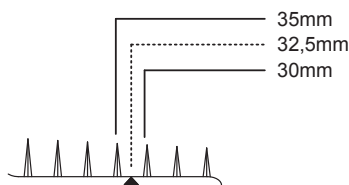


Intermediate settings (grids) are also possible between the ski attachment and the ski.

Fig. 7: Setting the outside scale

Example: Wheel width 32 mm

Adjustments can easily be made between the try square and ski attachment (no grid)



If wheel widths are more than 50 mm, the steering wheel no longer sits symmetrically on the Wheelblade.

Fig. 8: Setting of inside scale

- 8) Check your setting by inserting the steering wheel between the try square and spring plate and pulling the clamping lever 90° upward. The Wheelblade must now sit firmly on the steering wheel. If it can be pulled off of the steering wheel with very little exertion, loosen the fastening screws a bit so that only the try square can be moved. Move the try square a few millimeters toward the inside and reattach the fastening screws. Repeat item 8 until the Wheelblade is sitting firmly on the steering wheel.
- 9) Repeat items 1 through 8 to adjust the second Wheelblade.

#### DANGER/RISK!

Fall! The Wheelblade may fall off during use if configured incorrectly or if the screws are loose.

→ Configure correctly



## 6 Assembly/Disassembly Instructions

Before initial use, the Wheelblade must be fitted to the front wheel of your wheelchair. Proceed to Chapter 55 (Configuration).

### DANGER/RISK!

Fall! Defects in the Wheelblades may result in a fall.  
→ Check the Wheelblades for damage before each use.



### CAUTION!

Danger of bruising fingers! Pinching one's fingers between the clamping bracket and ski/steering wheel of the wheelchair.  
→ Do not hold fingers between the clamping bracket and ski/steering wheel of the wheelchair during assembly/disassembly



### 6.1 Assembly Instructions

- 1) Check to ensure that the fastening screws are tightened firmly to the Wheelblade. Retorque them if necessary.
- 2) Ensure that no snow or any other items have gotten into the provided indentation in the Wheelblade.
- 3) Place the "right" Wheelblade in front of the "right" steering wheel of your wheelchair. Make sure that the clamping lever is pointing outward (clamping mechanism open) and that the tip of the ski is facing forward (Wheelblade in direction of travel).
- 4) Place the respective wheel between the try square and the spring plate into the indentation on the Wheelblade provided for this purpose. **The wheel must point to the rear along with the shaft.**
- 5) When the wheel is positioned in the deepest point of the indentation, fold the clamping bracket 90° upward until it engages and can no longer be moved.

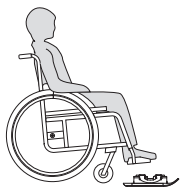


Fig. 9

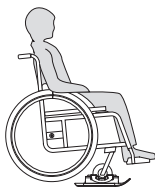


Fig. 10

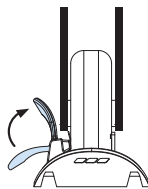


Fig. 11

- 6) Check to be sure that the Wheelblade is clamped firmly to the wheel.
- 7) Repeat items 1 through 6 for the second "left" Wheelblade.

### DANGER/RISK!

Falling out of the wheelchair / Fall!  
Due to the shift in weight of the wheelchair user during assembly/disassembly, the wheelchair may tip over or be put in motion.  
→ Block the wheelchair  
→ Get help from an assistant



### DANGER/RISK!

Fall! Faulty assembly/loose screws.  
→ Carry out assembly/basic settings correctly.



### 6.2 Disassembly Instructions

- 1) Block the wheelchair.
- 2) Fold the clamping bracket of the Wheelblades downward (clamping mechanism open).
- 3) Lift the steering wheels out of the Wheelblades.

**DANGER/RISK!**

Falling out of the wheelchair/Fall!

Due to the shift in weight of the wheelchair user during assembly/disassembly, the wheelchair may tip over or be put in motion.

- Block the wheelchair.
- Get help from an assistant.



## 7 Moving/traveling with Wheelblades

The wheelchair with mounted Wheelblades can also be pushed.

The type of travel is different from the usual type of travel when rolling on asphalt. First take a few careful test drives on safe ground in the presence of an assistant.

Keep in mind the instructions for use in the user's manual of your wheelchair. The Wheelblades are merely an expansion of your range of motion. Always move with caution and only use the Wheelblades on streets and pathways with packed-down snow.

**DANGER/RISK!**

Fall! Any items that get between the clamping bracket and steering wheel/steering shaft will open the clamping mechanism and the Wheelblade may then fall off.

- Make sure that no items (branches, etc.) get between the clamping bracket and the steering wheel/steering shaft.

**DANGER/RISK!**

Fall! Sinking in and jack-knifing of the Wheelblades in loose snow or deep snow.

- Avoid areas with loose snow or deep snow.

**DANGER/RISK!**

Fall! Abrupt changes in the subsurface will result in high resistance (e.g.: asphalt, gravel).

- Avoid areas with only patches of packed-down snow or areas without any packed-down snow.

**DANGER/RISK!**

Collision/Fall! Loss of steering ability on ice

- Never use the Wheelblades on ice.



### 7.1 Raised front shaft

Use special caution when raising the front shaft. Dangerous falls may occur, especially when traveling backwards, since the Wheelblades may seize up on the rear wheel of the wheelchair.

**DANGER/RISK!**

Fall! Seizing up of the Wheelblades on the rear wheel of the wheelchair when the front shaft is raised and when traveling backwards.

- Do not travel backwards when the front shaft is raised.
- Turning wheelchair around.
- Help from an assistant





## 8 Maintenance Procedure

If the ski underside of the Wheelblade becomes too worn over time, it can be replaced. You can obtain the ski from your point of sale as a sole spare part.

Loosen both fastening screws to detach the ski carrier from the ski. Put the Wheelblades back together using the new ski by following the configuration instructions.

If other parts of your Wheelblade are defective, please contact your point of sale.

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## 9 Fixing a breakdown

The wheel is not clamped properly:

- Check the adjustable clamping width (see Chapter 5)
  - The parts were not mounted straight during configuration
  - Clear out any items or snow that may have gotten into the indentation of the Wheelblade
- 

## 10 Disposal

Wheelblades that are no longer being used may be broken down into their individual components. To break them down, first remove the two fastening screws. The Wheelblades may be recycled at the usual locations for plastic and metal waste disposal. The type of material of each individual component is listed under "Setup and Function".

### CAUTION!

Cuts! sharp edges

→ When breaking down into individual components, watch out for sharp edges from the clamping plate.



## 11 Customer Service

WHEELBLADES GmbH  
Patrick Mayer  
info@wheelblades.com  
www.wheelblades.com