

KÜSCHALL CHAMPION



en	Active wheelchair User Manual
es	Silla de ruedas activa Manual del usuario
pt	Cadeira de rodas ativa Manual de utilização104

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1 GENERAL

1.1 Introduction

This user manual contains important information about the handling of the product. To ensure safety when using the product, read the user manual carefully and follow the safety instructions.

Note that there may be sections in this document, which are not relevant to your product, since this document applies to all available models (on the date of printing). If not otherwise stated, each section in this document refers to all models of the product.

The models and configurations available in your country can be found in the country-specific price lists.

Invacare reserves the right to alter product specifications without further notice.

Before reading this document, make sure you have the latest version. You find the latest version as a PDF on the Invacare website.

If you find that the font size in the printed document is difficult to read, you can download the PDF version from the website. The PDF can then be scaled on screen to a font size that is more comfortable for you.

For more information about the product, for example product safety notices and product recalls, contact your Invacare representative. See addresses at the end of this document.

1.2 Symbols in this manual

Symbols and signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. See the information below for definitions of the signal words.



WARNING

Indicates a hazardous situation that could result in serious injury or death if it is not avoided.



CAUTION

Indicates a hazardous situation that could result in minor or slight injury if it is not avoided.

IMPORTANT

Indicates a hazardous situation that could result in damage to property if it is not avoided.

Tips and Recommendations

- Gives useful tips, recommendations and information for efficient, trouble-free use.
- CE

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This product complies with Directive 93/42/EEC concerning medical devices. The launch date of this product is stated in the CE declaration of conformity.



Manufacturer of the product.

1.3 Warranty information

We provide a manufacturer's warranty for the product in accordance with our General Terms and Conditions of Business in the respective countries.

Warranty claims can only be made through the provider from whom the product was obtained.

1.4 Compliance

Quality is fundamental to the company's operation, working within the disciplines of ISO 13485.

This product features the CE mark, in compliance with the Medical Device Directive 93/42/EEC Class 1.

We are continuously working towards ensuring that the company's impact on the environment, locally and globally, is reduced to a minimum.

We only use REACH compliant materials and components.

1.4.1 Product-specific standards

The wheelchair has been tested in accordance with EN 12183. It includes a test for flammability.

For further information about local standards and regulations, contact your local Invacare representative. See addresses at the end of this document.

1.5 Intended use

This Active Wheelchair is intended to provide mobility to persons limited to a sitting position.

Indications

Disabled persons ages 12 and up (adolescents and adults) with mobility difficulties and a restriction to a sitting position.

Contraindications

There are no contraindications.

- \int_{1}° This active wheelchair needs to be prescribed and
- fit to your specific health condition.

1.6 Service life

The expected service life is five years, presuming that the product is used daily and in accordance with safety instructions, maintenance instructions and intended use, stated in this manual.

1.7 Copyright protection

This User Manual is protected by copyright. It may not be reprinted or copied or transferred to third parties in part or in full without the prior written consent of the manufacturer.

1.8 Limitation of liability

Küschall AG accepts no liability for damage arising from:

- Non-compliance with the User Manual
- Incorrect use
- Natural wear and tear
- Incorrect assembly or set-up by the purchaser or a third party
- Technical modifications

- The usage of unapproved 3rd party accessories instead of a tested and approved Invacare accessories.
- Unauthorised modifications and/or use of unsuitable spare parts

A written authorisation of Küschall AG must be obtained before installing additional adaptations on a Küschall wheelchair. Otherwise no liability claims can be made.

2 SAFETY

2.1 Safety information

This section contains important safety information for the protection of the wheelchair user and assistant and for safe, trouble-free use of the wheelchair.



WARNING!

Risk of accidents and serious injury

Accidents with resulting serious injury can occur if the wheelchair is improperly adjusted.

- Wheelchair adjustments must always be carried out by a specialist dealer.



WARNING!

Risk due to driving style being unsuitable for the conditions

There is a risk of skidding on wet ground, gravel or uneven terrain.

 Always adjust your speed and driving style to the conditions (weather, surface, individual ability, etc.).



WARNING!

Risk of injury

In a collision you could sustain injury to parts of your body that extend beyond the wheelchair (e.g. feet or hands).

- Avoid an unbraked collision.
- Never drive into an object head-on.
- Drive carefully through narrow passages.



WARNING!

Risk due to wheelchair being out of control

At high speed you could lose control of your wheelchair and overturn.

- Never exceed a speed of 7 km/h.
- Avoid collisions in general.



CAUTION!

Risk of burning

The wheelchair components can heat up when exposed to external sources of heat.

- Do not expose the wheelchair to strong sunlight before use.
- Before usage, check all components that come into contact with your skin for their temperature.



CAUTION!

Risk of getting fingers caught

There is always a risk of getting, e.g. fingers or arms, caught in the moving parts of the wheelchair.

 Make sure when activating the folding or insertion mechanisms of moving parts, such as the removable axle of the rear wheel, folding backrest or antitipper, that nothing becomes caught.

2.2 Safety devices



WARNING! Risk of accidents

Safety devices that are incorrectly set or no longer working (brakes, antitipper) can cause accidents.

 Always check that the safety devices are working before you use the wheelchair and have them checked regularly by the specialist dealer.

The functions of the safety devices are described in chapter 3 Components and their functions, page 11.

2.3 Labels and symbols on the product

Identification label

The identification label is attached to the frame of your wheelchair and gives the following information:



۸	Manufacturer's address		
₿	Product description		
©	Date of manufacture		
D	Instruction to read the User Manual		
E	Maximum user weight		
F	Serial number		
G	Warning that this is an active wheelchair and tipping is possible		

Snap hook symbol



WARNING Symbol

This wheelchair is not configured for passenger transport in a motor vehicle.

Antitipper warning label



WARNING: Read user manual

Follow user manual instructions prior to the usage of an antitipper device.

Non-locking side parts warning label



Do not lift the wheelchair by non-locking side parts.

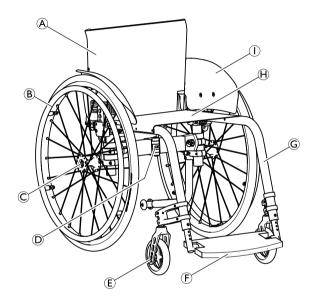
Stabilizing bar warning label



Do not lift the wheelchair on the stabilizing bar.

3 COMPONENTS AND THEIR FUNCTIONS

3.1 Overview



A	Backrest	
B	Rear wheel with handrim	
©	Quick release axle	
D	Folding mechanism	
Ē	Front wheel fork with front wheel	
F	Footrest	
G	Frame	
\oplus	Seat	
1	Mudguard	

Short description

The küschall Champion is a folding active wheelchair with a horizontal folding mechanism.

The equipment of your wheelchair may differ from the diagram as each wheelchair is manufactured individually to the specifications in the order.

3.2 Parking brakes

The parking brakes are used to immobilise the wheelchair when it is stationary to prevent it from rolling away.



WARNING!

Risk of overturning if you brake sharply If you engage the parking brakes while you are moving, the direction of movement can become uncontrollable and the wheelchair may stop suddenly, which can lead to a collision or to you falling out.

Never engage the parking brakes while you are moving.



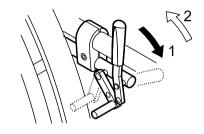
WARNING!

Risk of overturning

The parking brakes will not operate correctly unless there is sufficient air in the tires.

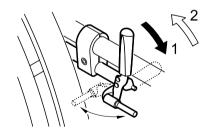
- Ensure the correct tire pressure, 3.11 Tires, page 19.

Standard brake



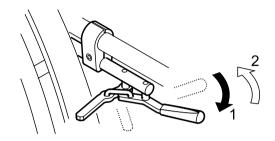
- 1. To engage the brake, push the brake lever forwards as far as possible.
- 2. To disengage the brake, pull the brake lever backwards.

Performance brake



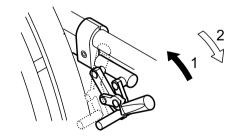
- 1. To engage the brake, push the brake lever forwards as far as possible.
- 2. To disengage the brake, pull the brake lever backwards.

Active brake



- 1. To engage the brake, pull the brake lever forwards beside or between your knees as far as possible.
- 2. To disengage the brake, push the brake lever backwards beside or between your knees.

Pull brake



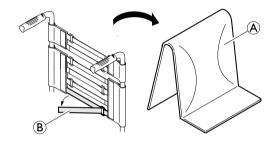
- 1. To engage the brake, pull the brake lever backwards as far as possible.
- 2. To disengage the brake, push the brake lever forwards. 1583536-E

3.3 Backrest

Backrest cover

You can adjust the tension of the backrest cover as required.

Adjusting the backrest cover



- 1. Remove the backrest cushion A.
- 2. Loosen the hook and loop straps (B) on the rear of the backrest cover by simply pulling on them.
- 3. Tighten or loosen the tapes as required then reattach them.



WARNING!

Risk of tipping

If the bands are set very loose, the tipping point of your wheelchair is changed for the worse.

- Ensure that the bands are set correctly.

Backrest height

The height of the backrest can be adjusted. The adjustment must be carried out by the specialist dealer.

Backrest angle

The angle of the backrest can be adjusted. The adjustment must be carried out by the specialist dealer.

3.4 Stabilizing bar for the back (optional)

An optional stabilizing bar is available to increase the rigidity of the backrest on wheelchairs with large back heights or widths.

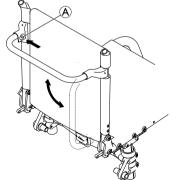
IMPORTANT!

 Do not use the stabilizing bar to lift or push the wheelchair. It could break.

IMPORTANT!

Release the stabilizing bar before folding the wheelchair.

Releasing the stabilizing bar



1. Push the spring pin (a) on the fastening on the left-hand side and swivel the stabilizing bar downwards.

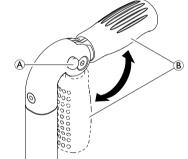
The stabilizing bar can also be completely removed, by pushing the spring pins on both sides. The stabilizing bar can then be taken off.

3.5 Push handles

IMPORTANT!

 Always check the push handles before using the wheelchair, as to whether the hand grips are secure, cannot be turned and cannot be pulled off.

Foldable push handles



1. Fully depress button (A) and fold up respectively fold down the push handle (B) until it audibly engages.



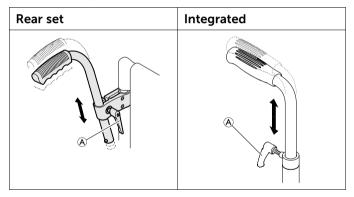
CAUTION!

If not correctly engaged, the push handle could accidentally fold down while pushing the wheelchair.

 Make sure that the push handle is correctly engaged.

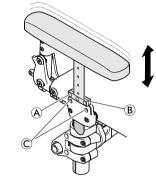
Height adjustable push handles

The stepless height adjustable push handles allow any assistant to adjust the handles to a comfortable level.



To set the height of the push handles, loosen the bolt
 push the handle to the desired position and tighten the bolt again.

3.6 Armrest, stepless height adjustable, non-locking





WARNING! Risk of injury

The armrests are not locked and can be easily pulled out upwards.

- Do not lift or transfer the wheelchair using the armrests.
- Do not use the armrests for transportation when carrying the wheelchair up- or downstairs.

Removing

- 1. Pull the armrest by the armrest cushion out of the holder.
- 2. To adjust how easy or difficult it is to pull the armrest out of the holder, change the degree to which the screws © are tightened.

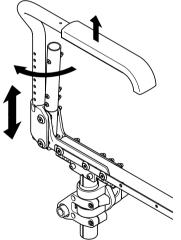
Installing

1. Push the armrest into the holder.

Adjusting the height

- 1. Loosen the screw (A) of the retaining plate (B).
- 2. Move the armrest upwards or downwards until you reach the desired height.
- 3. Tighten the screw A.
- 4. Perform the setting on both sides.

3.7 Simple armrest, height-adjustable, swivelling, non-locking





WARNING!

Risk of injury

The armrests are not locked and can be easily pulled out upwards.

- Do not lift or transfer the wheelchair using the armrests.
- Do not use the armrests for transportation when carrying the wheelchair up- or downstairs.

Removing

1. Raise the armrest and pull it upwards out of the holder.

Fitting

1. Push the armrest into the holder.

Adjusting the height

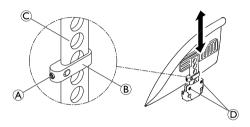
- 1. Pull the armrest out of the holder.
- 2. Loosen the screw on the tube of the armrest and screw it back in at the desired height.
- 3. Push the armrest back into the holder.
- 4. Perform the setting on both sides.

Swivelling

1. Raise the armrest a little and swivel it outwards.

3.8 Mudguard

In order to prevent dirt from the wheels spraying upwards, a removable mudguard can be fitted. The position of the mudguard can be adjusted. The adjustment must be carried out by a specialist dealer.



\triangle

WARNING! Risk of injury

The mudguards are not locked and can be easily pulled out upwards.

- Do not lift or transfer the wheelchair using the mudguards.
- Do not use the mudguards for transportation when carrying the wheelchair up- or downstairs.

Removing

- 1. Pull the mudguard upwards out of the holder.
- 2. To adjust how easy or difficult it is to pull the mudguard out of the holder, change the degree to which the screws (1) are tightened.

Installing

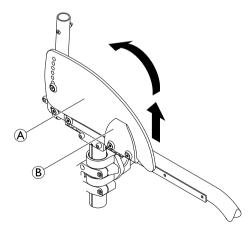
1. Push the mudguard into the holder.

Adjusting the height

- 2. Move the clamping part upwards or downwards on the profile © to the desired height.
- 3. Re-tighten the grub screw.
- 4. Perform the setting on both sides.

3.9 Clothes-guard

A clothes-guard can be fitted to protect your clothes. Before folding the back of the wheelchair, the clothes-guard must first be folded inwards against the backrest.



Folding in

1. Raise the clothes-guard (A) at the front out of the holder (B) and swivel it upwards.

3.10 Antitipper

An antitipper prevents the wheelchair from tipping backwards.



WARNING!

Risk of overturning

Antitippers that are incorrectly set or no longer working can lead to overturning.

 Always check that the antitipper is working before using the wheelchair and have it set or readjusted by a specialist dealer when required.

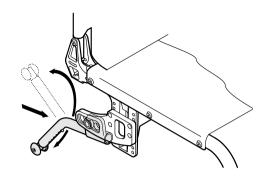


WARNING!

Risk of overturning

On uneven or soft ground, the antitipper can sink into potholes or directly into the ground, thereby curtailing or eliminating its safety function.

- Only use the antitipper when travelling on even and firm ground.



Activating the antitipper

1. Push the antitipper to the front against the spring and swivel it through 180° until it engages in the lower position.



WARNING!

Risk of tipping

An activated antitipper can catch when negotiating a step or an edge.

 Always deactivate the antitipper before driving over a step or kerb.

Deactivating the antitipper

1. Push the antitipper to the front against the spring and swivel it through 180° until it engages in the upper position.

Setting the height

1. Press the spring pin on the antitipper and push the inner section to the position required. Allow the spring pin to engage in the nearest hole.

If further adjustments of height and/or position are necessary, refer to your specialist dealer.

3.11 Tires

The ideal pressure depends on the tire type:

The table below is an indication. In case the tire differs from the list below, check the side of the tire, the maximum pressure is often listed there.

Tire	Max. pressure		
Profile tire	7 bar	700 kPa	101 psi
Schwalbe® Marathon Plus	10 bar	1000 kPa	145 psi
Schwalbe® One	10 bar	1000 kPa	145 psi
Schwalbe® Rightrun	10 bar	1000 kPa	145 psi
Solid tire, profile, grey	-	-	-
Solid tire (KIK type), black	-	-	-
Solid, light wheel	-	-	-

[°] The compatibility of the tires listed above depends on the configuration and/or model of your wheelchair.

- In case of a tire puncture consult a suitable workshop (e.g. bike repair shop, bicycle dealer ...) to have the tube replaced by a skilled person.
- ^o The size of the tire is mentioned on the sidewall of the tire. The change of appropriate tires must be carried out by a specialist dealer.



CAUTION!

 The tires pressure needs to be equal in both wheels to avoid decreased driving comfort, to keep the parking brakes working properly and to ease propelling of the wheelchair.

3.12 Seat cushion

A suitable cushion is needed to provide an even pressure distribution on the seat.

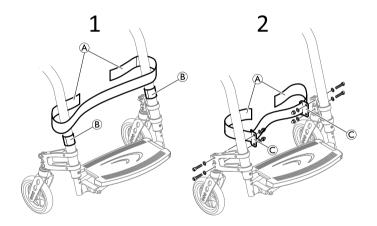
CAUTION!

Adding a cushion to the seat will raise your height above the ground and can affect your stability in all directions. If a cushion is changed it may also change the user's stability. If the thickness of the cushion is changed, a complete set up of the wheelchair need to be done by a specialist dealer.

Use a seat cushion with anti-slip underlay or hook fastening tapes to avoid slipping of the seat cushion. A loop fastening tape is pre-attached to the seat cover.

3.13 Calf strap

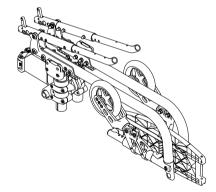
A calf strap can be installed to the wheelchair to provide a better position of the users' legs.



- 1. Fix and adjust the calf strap (A) around the hook and loop fasteners (B) on both frame parts.
- 2. Fix and adjust the calf strap (A) by closing its hook and loop fasteners.

3.14 SK option: folding front frame

To achieve an even more compact size for transporting, a foldable front frame is optionally available.

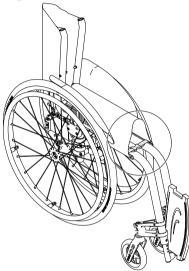


In addition to fold the seat and backrest, with this option the lower frame part can be folded upwards.

To fold and unfold the frame, refer to 7.3 Folding/unfolding the front frame (SK option: folding front frame), page 38.

4 ACCESSORIES

4.1 Securing strap



The securing strap is used to secure the wheelchair when folded. This prevents the wheelchair from unfolding accidentally (e.g. during transport).

- 1. Release both sides of the seat bag from the clip fastener (if fitted).
- 2. Fold the wheelchair (7.2 Folding and unfolding the wheelchair, page 37) and clip both ends of the securing strap together.

4.2 Posture belt

The wheelchair can be equipped with a posture belt. It prevents the user from sliding downward in the wheelchair or from falling out of the wheelchair. The posture belt is not a positioning device.

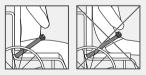


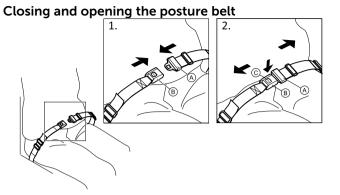
WARNING!

Risk of serious injury / strangulation

A loose belt can allow the user to slip down and create a risk of strangulation.

- The posture belt should be mounted by a qualified technician and fitted by the responsible prescriber.
- Always make sure that the posture belt is tightly fitted across the lower pelvis.
- Each time the posture belt is used, check if it fits properly. Changing the seat and/or backrest angle, the cushion and even your clothes influence the fit of the belt.



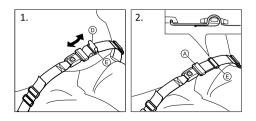


Ensure that you are sitting fully back in the seat and that the pelvis is as upright and symmetrical as possible.

- 1. To close, push the catch (A) into the buckle clasp (B).
- To open, push the PRESS button © and pull the catch A out of the buckle clasp
 B.

Adjusting the length

The posture belt has the good length, when there's just sufficient space for a flat hand between body and belt.



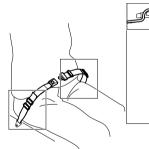
- 1. Shorten or extend the loop D as required.
- 2. Thread loop ${\rm loop}$ through catch ${\rm (a)}$ and plastic buckle ${\rm (c)}$ until the loop is flat.

If this adjustment is not sufficient, it might be required to re-fit the posture belt at the fixations.

Fitting the posture belt at the fixations

CAUTION!

- Thread the belt loop through both plastic buckles to avoid the belt from loosening.
 - Do the adjustments on both sides equally, so that the buckle clasp remains in a central position.
 - Make sure that the belts do not get caught in the spokes of a rear wheel.



1. Thread the loop (F) through the fixation on the chair (G) and then through BOTH plastic buckles (B).

4.3 Air pump

The air pump is fitted with a universal valve connection.

- 1 Remove the dust cap from the valve connection.
- 2. Push the valve connection onto the open valve on the wheel and pump the wheel up.

4.4 Passive illumination

You can attach reflectors to the rear wheels

4.5 Wheelchair carry bag (optional)

Your folded wheelchair can be stored in a carry bag ຶ່ງໃ to keep it safe and clean during transport.

4.6 Transit wheels

If your wheelchair is too wide for certain applications, e.g. trains/aeroplanes, narrow passageways, narrow doors, the transit wheels can be used.



WARNING!

Risk of severe accidents

- When using transit wheels, the parking brakes no longer have any effect and you cannot control your wheelchair via the handrims.

The transit wheels are attached directly to the antitipper tube as an option.



WARNING!

Risk of tipping sidewards

- Make sure that antitippers with transit wheels are installed on both sides of the wheelchair.

Switching to transit wheels

- 1. Activate the antitippers with transit wheels on both sides, \rightarrow 3.10 Antitipper, page 18.
- 2. With the help of an assistant, remove the rear wheel, \rightarrow 7.4 Removing and installing the rear wheels, page 40 and lower the wheelchair to the transit wheel
- 3. Repeat the process on the other side.

Switching from transit wheels to rear wheels

- 1. With the help of an assistant, fit the rear wheel back onto the removable axle, \rightarrow 7.4 Removing and installing the rear wheels, page 40 and lower the wheelchair to the rear wheel.
- 2. Repeat the process on the other side.

4.7 Luggage carrier

Your wheelchair can be fitted with a luggage carrier. When not in use, the luggage carrier can be folded up.



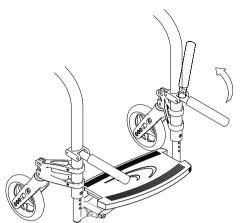
WARNING

Risk of tipping

Weight on the carrier changes the tipping

behavior of the wheelchair. The wheelchair can tip forwards more easily when the luggage carrier is loaded

- Use the luggage carrier only for transporting small and lightweight luggage.
- Avoid driving the wheelchair to fast when carrying luggage.
- Avoid driving ramps and slopes when carrying luggage.
- Do not stand on the luggage carrier.



4.8 Tipper aid

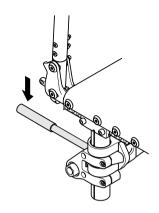
With the tipper aid, an assistant can tip the wheelchair more easily, in order to navigate steps for example.



WARNING!

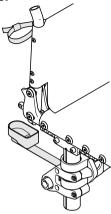
Risk of overturning

 Make sure the tipper aid does not project beyond the external diameter of the rear wheel.



- 1. Hold the wheelchair by the push handles.
- 2. Press the tipper aid with your foot and hold the wheelchair in the tipped position until you have overcome the obstacle.

4.9 Cane holder





WARNING! Risk of overturning

- Ensure that the cane holder does not project beyond the external diameter of the rear wheel.
- 1. Place the cane in the holder.
- 2. Fix the top of the cane to the backrest.

5 SETUP

5.1 Safety information



CAUTION!

Risk of injury

- Before using the wheelchair, check its general condition and its main functions, 8.2 *Maintenance Schedule, page 41*.

Your specialist dealer will supply your wheelchair ready for use. Your dealer will explain the main functions and ensure that the wheelchair meets your needs and requirements.

Adjustments of the axle position and the front wheel supporters must be carried out by a specialist dealer.

If you receive your wheelchair folded, please read section 7.2 Folding and unfolding the wheelchair, page 37.

6 USING THE WHEELCHAIR

6.1 Safety information



WARNING!

Risk of accidents

Uneven tire pressure can have a huge effect on handling.

- Check the tire pressure before each journey.



WARNING!

Risk of falling out of the wheelchair

When using small front wheels the wheelchair could get stuck at curbs or in floor grooves.

- Make sure that the front wheels are suitable for the surface you are driving on.



CAUTION!

Risk of crushing

There may be a very small gap between the rear wheel and the mudguard or the parking brake with the risk that you could trap your fingers.

- Ensure that you always propel your wheelchair using the handrims only.

Theft and metal detection systems

In seldom cases the materials used in the wheelchair may activate theft and metal detection systems.

6.2 Braking during use

Whilst you are moving, you brake by transferring force to the handrim with your hands.



WARNING! Risk of overturning

If you apply the parking brakes while you are moving, the direction of movement can become uncontrollable and the wheelchair may stop suddenly, which can lead to a collision or to you falling out.

Never apply the parking brakes while you are moving.

WARNING!

Risk of falling out of the wheelchair

If the wheelchair is rapidly decelerated by an assistant pulling at the push handles, the user may fall out of the wheelchair.

- Always apply the posture belt if present.
- Make sure your assistant has been trained individually in transferring occupied wheelchairs.

CAUTION! Risk of burning your hands

If you brake for a long time, a lot of frictional heat is produced at the handrims (especially Supergripp).

- Wear suitable gloves.
- 1. Hold the handrims and press evenly with both hands until the wheelchair stops.

6.3 Getting in and out of the wheelchair

À

Risk of overturning

WARNING

There is a high risk of overturning during the transfer.

- Only get in and out without assistance if you are physically able to do so.
- When transferring, position yourself as far back as possible in the seat. This will prevent damaged upholstery and the possibility of the wheelchair tipping forward.
- Make sure that both castors are facing straight to the front.



WARNING!

Risk of overturning

The wheelchair could tip forwards if you stand on the footrest.

 Never stand on the footrest when getting in and out.



CAUTION!

If you release or damage the brakes the wheelchair could roll away out of control.

- Do not support yourself on the brakes when getting in and out.

IMPORTANT!

- The mudguards and armrests could become damaged.
 - Never sit on the mudguards or armrests when getting in and out.



- 1. Propel the wheelchair as near as possible to the seat that you want to move to.
- 2. Apply the parking brakes.
- 3. Remove the armrests or move them upwards out of the way.
- 4. Detach the legrests or swing them outwards.
- 5. Place your feet on the ground.

- 6. Hold the wheelchair and, if necessary, also hold a fixed object in the vicinity.
- 7. Move slowly to chair.

6.4 Driving and steering the wheelchair

You drive and steer the wheelchair using the handrims. Before driving without an assistant you must find your wheelchair's tipping point.



WARNING! Risk of tipping

The wheelchair can tip backwards if it is not fitted with an antitipper. When finding the tipping point, an assistant must stand immediately behind the wheelchair to catch it if it tips over.

- To prevent tipping, install an antitipper device.



WARNING!

Risk of tipping

The wheelchair can tip forwards.

 When setting up your wheelchair, test its behavior in terms of tipping forward and adjust your driving style accordingly.

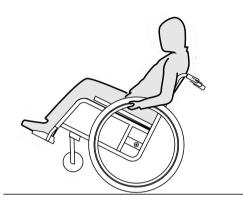


CAUTION!

A heavy load hanging on the backrest can affect the wheelchair's centre of gravity.

- Change your driving style accordingly.

Finding the tipping point



- 1. Release the brake.
- 2. Roll backwards a short distance, grasp both handrims firmly and push forwards with a slight kick.
- 3. The shift in weight and steering in opposite directions with the handrims will enable you to identify the tipping point.

6.5 Negotiating steps and kerbs



WARNING!

Risk of overturning

When negotiating steps you could lose your balance and tip the wheelchair over.

- Always approach steps and kerbs slowly and carefully.
- Do not go up or down steps that are higher than 25 cm.



CAUTION!

- An activated antitipper prevents the wheelchair from tipping backwards.
- Deactivate the antitipper before going up or down steps or kerbs.

With an assistant



Going down a step

- 1. Move the wheelchair right up to the kerb and hold the handrims.
- 2. The assistant should hold both push handles, place one foot on the tipper aid (if installed) and tilt the wheelchair backwards so that the front wheels lift off the ground.
- 3. The assistant should then hold the wheelchair in this position, push it carefully down the step and then tilt it forwards until the front wheels are back on the ground.

Going up a step



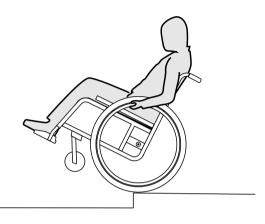
WARNING! Risk of serious injuries

Going up steps and kerbs frequently can result in earlier than expected fatigue break of the wheelchair backrest. The user might fall out of the wheelchair

 Always use a tipper aid when going up steps or kerbs.

- 1. Move the wheelchair backwards until the rear wheels touch the kerb.
- 2. The assistant should tilt the wheelchair using both push handles so that the front wheels lift off the ground, then pull the rear wheels over the kerb until the front wheels can be placed back on the ground.

Without an assistant





WARNING!

Risk of tipping

When going down a step without an assistant you could tip over backwards if you cannot control your wheelchair.

- First learn how to go down a step with an assistant.
- Learn how to balance on the rear wheels, 6.4 Driving and steering the wheelchair, page 29.

Going down a step

- 1. Move the wheelchair right to the kerb, lift the front wheels and keep the wheelchair balanced.
- 2. Now slowly roll both rear wheels over the kerb. While doing this, hold the handrims firmly with both hands until the front wheels are back on the ground.

6.6 Going up and down stairs



WARNING! Risk of overturning

When negotiating stairs you could lose your balance and overturn your wheelchair.

- Always use two assistants when negotiating stairs with more than one step.



1. You can go up and down stairs by taking them one step at a time, as described above. The first assistant should stand behind the wheelchair holding the push handles. The second assistant should hold a solid part of the front frame to steady the wheelchair from the front.

6.7 Negotiating ramps and slopes



WARNING!

Risk due to wheelchair being out of control When negotiating slopes or gradients your wheelchair could tip backwards, forwards or sideways.

- Always have an assistant behind the wheelchair when approaching long slopes.
- Avoid lateral slopes.
- Avoid slopes of more than 7°.
- Avoid jerking when changing direction on a slope.



CAUTION!

Your wheelchair could run away even on slightly sloping ground if you do not control it using the handrims.

- Use the parking brakes if your wheelchair is stationary on sloping ground.

Going up slopes

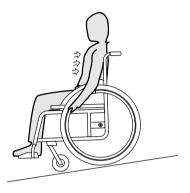
To go up a slope, you must create some momentum, keep up the momentum and control the direction at the same time.



1. Bend your upper body forwards and propel the wheelchair with quick, powerful strokes on both handrims.

Going down slopes

When going down slopes, it is important to control your direction and particularly your speed.



1. Lean back and carefully allow the handrims to run through your hands. You should be able to stop the wheelchair at any time by gripping the handrims.



CAUTION! Risk of burning your hands.

If you brake for a long time, a lot of frictional heat is produced at the handrims (especially MaxGrepp and Supergripp).

- Wear suitable gloves.

6.8 Stability and balance when seated

Some everyday activities and actions require you to lean forwards, sideways or backwards out of the wheelchair. This has a major effect on the wheelchair's stability. To keep your balance at all times, proceed as follows:

Leaning forwards



WARNING!

Risk of falling out

If you lean forwards out of the wheelchair you could fall out of it.

- Never bend too far forwards and do not shift forwards in your seat to reach an object.
- Do not bend forwards between your knees to pick up something off the floor.



- 1. Point the front wheels forwards. (To do this, move your wheelchair forwards slightly then back again.)
- 2. Apply both parking brakes.
- 3. When leaning forwards your upper body must remain over the front wheels.

Reaching backwards

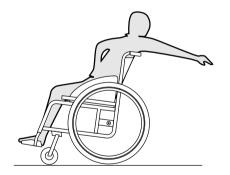


WARNING!

Risk of falling out

If you lean too far backwards you could tip your wheelchair over.

- Do not lean out over the backrest.
- Use an antitipper device.



- 1. Point the front wheels forwards. (To do this, move your wheelchair forwards slightly then back again.)
- 2. Do not apply the parking brakes.
- 3. When reaching backwards do not reach so far that you have to change your sitting position.

7 TRANSPORT

7.1 Safety information

WARNING!

Risk of injury if wheelchair is not secured during transport

Your wheelchair is not designed for passenger transport in vehicles. You could suffer serious injury in an accident.

- During transport, sit in a correctly secured seat, not in the wheelchair.

WARNING!

Risk of injury if the wheelchair is not properly secured

In the event of an accident, braking manoeuvre, etc. you may suffer serious injuries from flying wheelchair parts.

- Always remove the rear wheels when transporting the wheelchair.
- Firmly secure all wheelchair components in the means of transport to prevent them from coming loose during the journey.

IMPORTANT!

Excessive wear and abrasion could affect the strength of load-bearing parts.

 Do not pull your wheelchair across abrasive surfaces without the wheels fitted (e.g. pulling the frame over tarmac).

7.2 Folding and unfolding the wheelchair

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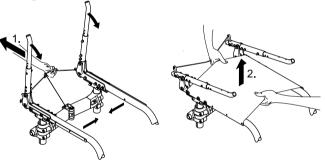
Risk of getting fingers caught

Your fingers can be caught between the parts of the folding mechanism or between the scissor lever and the end stop.

- Never clasp the folding mechanism with your hands, when folding or unfolding the wheelchair.
- Only use the pull-cords to fold or unfold the wheelchair.

Folding the wheelchair

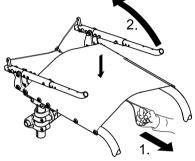
CAUTION



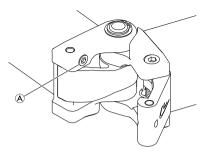
- 1. Remove the seat cushion, if present.
- 2. If fitted, release the backrest stabilization bar by pressing the spring pin and swinging the bar downwards, \rightarrow 3.4 Stabilizing bar for the back (optional), page 14.

- Pull the pull-cord at the rear of the wheelchair back
 (1). The scissor levers of the folding mechanism under the seat fold backward and the backrest folds forward.
- 4. With both hands, pull the seat cover and the backrest cover upwards (2). The wheelchair folds up completely.

Unfolding the wheelchair



- 1. Pull the cord on the front under the seat cover until the ratchet engages completely.
- 2. Pull up the backrest at the push-handles until the ratchet bolts engage in the lateral supports.
- 3. If fitted, replace the backrest stabilization bar by swinging it upwards and locating the spring pin in its hole, *3.4 Stabilizing bar for the back (optional), page 14*.



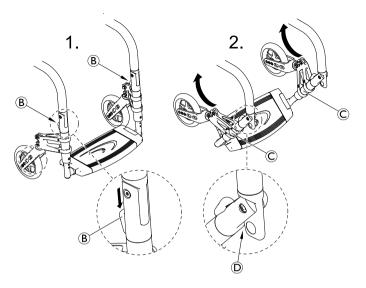
IMPORTANT!

- The screw (a) in the folding mechanism has the aim to reduce play. The screw is secured and cannot become loose.
 - Do not adjust the screw in the folding mechanism as it can make folding and unfolding of the wheelchair more difficult.

7.3 Folding/unfolding the front frame (SK option: folding front frame)

Folding the frame

- The frame can be folded before, during or after the $\frac{1}{10}$
- wheelchair is folded like described above.



- Hold the lower frame assembly © on both sides 1. at the position of the front wheel supporters and simultaneously press down the release buttons [®] on both sides using your thumb.
- 2. Fold the lower frame assembly upwards towards the seat

IMPORTANTI

- In some wheelchair configurations, the parking brakes may come into conflict with the lower frame part when folding it completely upwards. This may result in damage or misadjustment of the parking brake assembly or in damages to the supporter or caster fork.
- Always fold up the frame in a careful manner and make sure that there is no conflict with other parts.

Unfolding the frame



CAUTION! Risk of pinching your hands or fingers

- When unfolding the frame make sure not to grab between the folding mechanism D.
- Completely fold down the lower frame assembly on 1. both sides.



WARNING!

- **Risk of injury**
- Make sure that both lower frame parts have completely engaged with an audible "click" before using the wheelchair.

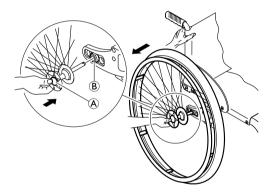
7.4 Removing and installing the rear wheels

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WARNING! Risk of overturning

If the removable axle of a rear wheel is not fully engaged, the wheel can become loose during use. This can lead to overturning.

 Always ensure that the removable axles are fully engaged whenever you fit a wheel.



Removing the rear wheels

- 1. Disengage the parking brakes.
- 2.
- 3. With one hand, hold the wheelchair upright.

- 4. With the other, hold the wheel through the external spoke rim around the wheel hub.
- Using your thumb, press the removable axle button . Keep it pressed and pull the wheel out of the adapter sleeve .

Installing the rear wheels

- 1. Disengage the parking brakes.
- 2.
- 3. With one hand, hold the wheelchair upright.
- 4. With the other, hold the wheel through the external spoke rim around the wheel hub.
- Using your thumb, press the removable axle button
 And hold it down.
- 6. Push the axle into the adapter sleeve [®] up to the stop.
- 7. Release the removable axle button and make sure that the wheel is secure.

8 MAINTENANCE

8.1 Safety information



WARNING!

Some materials deteriorate naturally over time. This could result in damage to wheelchair components.

- Your wheelchair should be checked by a specialist dealer at least once a year or if it has not been used for a long period.
- Your küschall specialist dealer can provide help in carrying out regular maintenance. To find an authorized specialist dealer near you, contact the küschall distributor for your country (end of this document).

8.2 Maintenance Schedule

To ensure safe and reliable operation, carry out the following checks and maintenance regularly or have it carried out by another person.

	weekly	monthly	annually
Check the tire pressure	х		
Check that rear wheels are seated correctly	х		

	weekly	monthly	annually
Check the posture belt	х		
Visual check		х	
Check the front wheels		х	
Check bolts		х	
Check spokes		х	
Check parking brakes		х	
Have wheelchair checked by a specialist dealer			х

Check the tire pressure

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1. Check the tire pressure.

See section "Tires" for more information.

- 2. Inflate the tires to the required pressure.
- 3. Check the tire tread at the same time.
- 4. If necessary, change the tires.

Check that rear wheels are seated correctly

- 1. Pull on the rear wheel to check that the removable axle is seated correctly. The wheel should not come off.
- 2. If the rear wheels are not engaged properly, remove any dirt or deposits. If the problem persists, have the removable axles re-fitted by a specialist dealer.

Check the posture belt

1. Check that the posture belt is adjusted correctly.

IMPORTANT!

- Loose posture belts must be adjusted by a specialist dealer.
- Damaged posture belts must be replaced by a specialist dealer.
- Posture belts must always be installed by a specialist dealer.

Visual check

- 1. Examine your wheelchair for loose parts, cracks or other defects.
- 2. If you find anything, have your wheelchair checked immediately by a specialist dealer.

Check the front wheels

- 1. Check that the front wheels turn freely.
- 2. Remove any dirt or hair from the front wheel bearings.
- 3. Faulty or worn out front wheels must be replaced by a specialist dealer.

Check the bolts

Bolts can work loose through constant use.

- 1. Check that the bolts are tight (on the footrest, seat cover, sides, backrest, frame, seat module).
- 2. Tighten any loose bolts with the suitable torque. Therefore refer to the service manual, available on the internet at www.kuschall.com.

IMPORTANT!

- Safety nuts and bolts lose their effectiveness as a result of repeated loosening and tightening.
 - Safety nuts and bolts must be replaced by a specialist dealer.

Check the spoke tension

The spokes should not be loose or distorted.

- 1. Loose spokes must be tightened by a specialist dealer.
- 2. Broken spokes must be replaced by a specialist dealer.

Check the parking brakes

- 1. Check that the parking brakes are positioned correctly. The parking brake is set correctly if the parking brake shoe depresses the tire by a few millimeters when the parking brake is engaged.
- 2. If you find that the setting is not correct, have the parking brakes correctly set by a specialist dealer.

IMPORTANT!

The parking brakes must be reset after replacing the rear wheels or changing their position.

Checking after a heavy collision or blow

IMPORTANT!

- The wheelchair can sustain visibly undetectable damage as a result of a heavy collision or hard blow.
 - It is essential to have your wheelchair checked by a specialist dealer after a heavy collision or hard blow.

Repairing or changing an inner tube

- Remove the rear wheel and release any air from the 1 inner tube
- 2. Lift one tire wall away from the rim using a bicycle tire lever. Do not use sharp objects such as a screwdriver which could damage the inner tube.
- Pull the inner tube out of the tire 3
- Repair the inner tube using a bicycle repair kit or, if 4 necessary, replace the tube.
- Inflate the tube slightly until it becomes round. 5.
- 6. Insert the valve into the valve hole on the rim and place the tube inside the tire (the tube should lie right round the tire with no creases).
- 7. Lift the tire wall over the edge of the rim. Start close to the valve and use a bicycle tire lever. When doing this, check all the way round to ensure that the inner tube is not trapped between the tire and the rim.
- 8. Inflate the tire to the maximum operating pressure. Check that no air is escaping from the tire.

Spare parts

- All spare parts may be obtained from a küschall ĵ specialist dealer. A current list of spare parts is
- - available on the internet at www.kuschall.com.

8.3 Cleaning

Your wheelchair will serve you well for many years if you clean it regularly.

IMPORTANTI

- Sand and seawater can damage the bearings and steel parts can rust if the surface is damaged.
 - Only expose the wheelchair to sand and seawater for short periods and clean it after every trip to the beach.

IMPORTANT!

- Do not use coarse abrasives, aggressive cleaning products or high-pressure cleaners. Never use acids, alkalines or solvents such as acetone or cellulose thinner.
 - Always use ordinary household cleaning agents.
- 1. Clean the cushions and metal parts with a soft, damp cloth
- 2. Dry the wheelchair carefully with a cloth after using it in the rain
- 3. If the wheelchair is dirty, wipe off the dirt as soon as possible with a damp cloth and dry it carefully.

Regular cleaning will reveal loose or worn parts and enhance the smooth operation of your wheelchair. To operate properly and safely, your wheelchair must be cared for just like any other vehicle. For upholstery that is severely stained or surface finish that is badly damaged, contact an authorized dealer for further information.

Cleaning upholstery

For cleaning upholstery refer to the instructions on the label on the seat, cushion and backrest cover.

Cleaning metal surfaces

Hot water and mild detergent on soft cloth should be use to cleaning metal surfaces.

- 1. Wipe down with damp cloth.
- 2. Dry surface by wiping down with dry cloth.

Car polish and soft wax can be used to remove abrasions and restore gloss.

Cleaning plastic surfaces

Plastic surfaces must be cleaned with soft cloth, mild detergent and hot water.

IMPORTANT!

- Do not use solvents or kitchen cleaners to clean plastic surfaces.
- 1. Rinse surface with clean water.
- 2. Dry surface by wiping down with dry cloth.

8.4 Disinfection

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The wheelchair may be disinfected by spraying or wiping with tested, approved disinfectants.

The Robert Koch Institute has a list of currently approved disinfectants at *www.rki.de*.

9 AFTER USE

9.1 Storage

IMPORTANT!

- Risk of damage to the product
 - Do not store the product near heat sources.
 - Never store other items on top of the wheelchair.
 - Store the wheelchair indoors in a dry environment.
 - Refer to temperature limitation in chapter 11.2 Environmental conditions, page 50.

After long-term storage (more than four months) the wheelchair must be inspected in accordance to chapter 8 Maintenance, page 41.

9.2 Re-use

The wheelchair is suitable for re-use. The following actions should be taken:

- Cleaning and disinfection, 8.3 Cleaning, page 43 and 8.4 Disinfection, page 44 in this manual.
- Inspection, 8.2 Maintenance Schedule, page 41 in this manual.
- The wheelchair should be adapted for the new user in accordance with the service documentation (available from the küschall distributor in your country).

9.3 Disposal information

Be environmentally aware and dispose of your wheelchair properly. Disposal is subject to national and local regulations.

- For correct disposal, contact your specialist dealer
 - or ask your town or district council about local waste management companies.

10 TROUBLESHOOTING

10.1 Safety information

Faults may arise as a result of daily use, adjustments or changing demands on the wheelchair. The table below shows how to identify and repair faults.



CAUTION!

 Contact your specialist dealer immediately if you notice a fault with your wheelchair, e.g. a significant change in handling.

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IMPORTANT!

 Some of the actions listed must be carried out by an authorized specialist dealer. These are indicated. We recommend that *all* adjustments are carried out by a specialist dealer.

10.2 Identifying and repairing faults

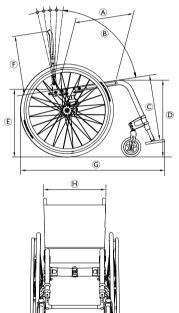
Fault	Possible cause	Action
The wheelchair does not travel in a straight line	Incorrect tire pressure on one rear wheel	Correct tire pressure, \rightarrow 3.11 Tires, page 19
	One or more spokes broken	Replace faulty spoke(s), \rightarrow specialist dealer
	Spokes tightened unevenly	Tighten loose spokes, \rightarrow specialist dealer
	Front wheel supporter is not aligned correctly	Correct position and alignment of front wheel supporter, \rightarrow specialist dealer
	Front wheel bearings are dirty or damaged	Clean or replace the bearings, \rightarrow specialist dealer
	Rear wheels are off track	Change track, \rightarrow specialist dealer
	Front wheels not adjusted to same height	Position the front wheels such that they touch the floor at the same time, \rightarrow specialist dealer
The wheelchair tips backwards too easily	Rear wheels are mounted too far forwards	Mount the rear wheels further back, \rightarrow specialist dealer
	Back angle too large	Reduce the backrest angle, \rightarrow specialist dealer
	Seat angle too large	Select a smaller front wheel fork, \rightarrow specialist dealer
Removable axles cannot	Removable axles dirty	Clean removable axles
be inserted correctly	Removable axles misaligned	Adjust removable axles, \rightarrow specialist dealer
The parking brakes are gripping poorly or	Incorrect tire pressure in one or both rear tires	Correct tire pressure, \rightarrow 3.11 Tires, page 19
asymmetrically	Parking brake setting incorrect	Correct the parking brake setting, \rightarrow specialist dealer

Fault	Possible cause	Action	
Rolling resistance is very	Tire pressure in rear tires is too low	Correct tire pressure or replace the tube inside	
high	Tire is punctured	the tire, \rightarrow 3.11 Tires, page 19	
	Rear wheels not parallel	Ensure the rear wheels are parallel, \rightarrow specialist dealer	
The front wheels wobble when moving fast	Too little tension in front wheel bearing block	Tighten the nut on the bearing block axle slightly, \rightarrow specialist dealer	
	Front wheel has worn smooth	Change front wheel, \rightarrow specialist dealer	
The front wheel is stiff or stuck	Bearings are dirty or faulty	Clean or replace the bearings, \rightarrow specialist dealer	
The wheelchair is very difficult to unfold	Backrest cover is too tight	Loosen the hook and loop straps of the backrest cover a little, $\rightarrow 3.3$ Backrest, page 13	
	Folding mechanism adjusted too hard	Adjust folding mechanism, \rightarrow specialist dealer	

11 TECHNICAL DATA

11.1 Dimensions and weight

All dimension an weight specifications refer to a seat width of 400 mm, seat depth of 400 mm in the lightest configuration of the wheelchair. Dimension an weight may alter according to different configurations.



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۲	Seat depth	340 – 480 mm, in increments of 20 mm (AL/TI)	
		400 – 460 mm, in increments of 20 mm (C)	
₿	Backrest angle	76° / 80,5° / 85° / 89,5° / 94°	
C	Knee-to-heel length	320 – 500 mm, in increments of 10 mm (AL/TI)	
C		300 – 340 / 400 – 500 mm, in increments of 10 mm (C)	
D	Seat height front	450 – 540 mm, stepless adjustable	
E	Seat height rear	390 – 490 mm, stepless adjustable	
F	Backrest height	300 – 465 mm, in increments of 15 mm	
		75°: approx. 825 – 1190 mm (AL/TI)	
G	Total length	85°: approx. 775 – 1140 mm (AL/TI)	
		85°: approx. 800 – 1165 mm (C)	
\mathbb{H}	Seat width	360 – 480 mm, in increments of 20 mm	
	Total width	Seat width plus 160 – 240 mm	
1	Total width, folded	approx. 280 – 340 mm	

Total weight	approx. 9,2 kg (AL/C)
	approx. 9,4 kg (TI)
Transport weight (without rear wheels)	approx. 6,7 kg (AL/C) approx. 7,1 kg (Tl)
Maximum user weight	120 kg
Reversing width	920 – 1390 mm
Max. safe slope	7°

Front wheel forksAluminumFootplatePlasticSupporting parts /
AttachmentsSteel / AluminumScrews and boltsSteel

All components have either a protective coating or are corrosion resistant.

AL = Aluminium / TI = Titanium / C = Carbon

11.2 Environmental conditions

Do not expose the wheelchair to temperatures below -20 $^\circ\mathrm{C}$ or above 40 $^\circ\mathrm{C}.$

11.3 Materials

The components used to manufacture küschall wheelchairs consist of following materials:

Frame tubes	Aluminum / Titanium / Carbon Fiber
Backrest tubes	Aluminum
Folding mechanism	Aluminum
Seat cover / Backrest cover	PA / PE / PVC
Push handle	Steel / Aluminum / TPE
Clothes guard / Mudguard	Carbon Fiber

Küschall distributors:

Asia:

Invacare Asia Ltd. 1 Lenton Place, North Rocks NSW 2151 Australia Phone: (61) (02) 8839 5333 Fax: (61) (02) 8839 5343 asiasales@invacare.com www.invacare.com

Ireland:

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