



Krabat Sheriff S1 / S2

# User Manual



## Safety

All Krabat products are CE marked according to MDR 2017/745 and 93/42 / EØF, Class 1 of 14 June 1993 - Medical Device Directive. This certifies that it meets all relevant European safety requirements. This manual is approved according to these standards. The shelf life of the product corresponds to a lifespan of about 5 years under normal use. Then the product should be renovated by Krabat AS or an approved partner to extend the life. All service must be performed by Krabat or an authorized partner.

Products with electrical components must be submitted to Krabat for a technical review / overhaul before it is sent out to use again.



The CE-label is to be removed if the product is modified, or non-original parts are used!



Adjustments not described in Krabat user manuals shall only be carried out by Krabat, or by personnel approved by Krabat.



Krabat products are not toys! Improper use may cause damage to both user and/ or the product.



## Warranty

Krabat provide a guarantee of 2 years on all its products. This guarantee is aimed at defects in workmanship or materials. The guarantee may be reduced or waived if service or daily maintenance are not observed. It is the customer's responsibility to ensure that maintenance is carried out.

The warranty does not cover accidental damage, including damage caused by improper use or lack of maintenance. The warranty does not cover normal wear or wear parts.

The warranty is void if non-original parts, or if the product is repaired or modified by personnel not approved by Krabat.

<b>Revision history:</b>			
<b>Revision:</b>	<b>Date:</b>	<b>Author:</b>	<b>Notes:</b>
1.0	10.10.2016	A.L. Sørensen	Established
2.0	29.04.2021	J.Sørensen	Major layout changed, warnings, technical data and revision table added
2.1	22.06.2021	A. Simensen	Page 13 added.

**The information in this manual was correct at the time of publication. The information can be changed by the manufacturer without notice, therefore go to [www.krabat.no](http://www.krabat.no) for updated instructions for use and updated technical information about the product at all times.**



## Sheriff S1 / S2

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## General

***Krabat Sheriff is an active children's wheelchair for indoor and outdoor use.***

***Krabat S1 accommodates children in the age of approx 2 - 7 years, Krabat Sheriff S2 approx 6 - 12 years. The wheelchair is lightweight and the cambered wheels make it easy to maneuver.***

The sitting position is individually adjusted using height and angle of seat, height of backrest, width of rear wheels, position and different angles of the footrests. The Krabat Sheriff has got a saddle seat, and the sitting position is close to identical with the one of Krabat Sheriff. The use of this wheelchair should be determined by your local physiotherapist or occupational therapist.

The Krabat Sheriff promotes a neutral position in the hip and pelvic and abducts the hips. This together with the wide support given by the footrests ensures a wide base of support. The wheelchair promotes good stability in the lower body and gives the spinal column natural curves. This provides a good base for balance and activity in the trunk and upper body. All together it gives the child a close to ideal position for handling the wheelchair.

The saddle seat enhances an active position rather than a slumped and passive position. The upright and active position also makes chest control and head control easier, which again will benefit speech, swallowing and respiration.

To ensure an optimal sitting position it is important to try out and adjust the wheelchair before use. Do not use the wheelchair unless an individual trial has been carried out. Furthermore, do not let other children use the wheelchair without an individual trial.

As children grow they change their movement and sitting pattern on a regular basis. It is likely that the child will need another size of the sitting unit or other adjustments. Contact your local physiotherapist or occupational therapist if the product is not optimal or if adjustments are needed.

The wheelchair is developed and tested to accommodate the maximum weight of 60 kg.

Attention: For the weak sighted we recommend to download the user manual for Sheriff S1/S2 at **[www.krabat.no](http://www.krabat.no)** in PDF. Scale the document to desired size.



**Fig. 01**

## **Main components – Sheriff S1 / S2**

The Krabat Sheriff S1/S2 has the following main components:

- 01** Saddle seat with adjustable angle of the sitting unit, upholstery
- 02** Adjustable backrest, upholstery
- 03** Adjustable footrests
- 04** Frame
- 05** Propelling wheels
- 06** Fly wheel
- 07** Parking brake

## Use

**To obtain the optimal sitting position the height and angles of the seat, backrest and footrests need to be adjusted. This should be done by a therapist who has received training from Krabat AS, or a representative for Krabat AS**

Most of the angles can be adjusted infinitely with the accompanying 4 mm Allen key situated under the seat. Always tighten all screws after adjusting the wheelchair.

**The wheelchair is for indoor and outdoor use on hard and flat surfaces.**

Avoid sharp curves and sudden stops when descending a hill. **PS:** The handbrake is a parking brake. Do not under any circumstances use this brake when going downhill.

Always activate the brake when going in or out of the wheelchair.

The use of this wheelchair should be discussed with your therapist or someone who knows the child well. It is important to establish in which situations the child should use the wheelchair, how long they should use it and when to progress the time spell. This needs to be evaluated continuously as the child gets familiar with the wheelchair.

It is important to get information about how to get in and out of the wheelchair. This should be done under the individual trial or at delivery. Make sure the parking brake is activated before placing a child in the wheelchair.

## Footrests

Place the feet on the footrest and tighten the belts. Children who use ankle-foot orthotics should wear these together with their shoes, whilst sitting in the Krabat Sheriff S1/S2.

The height of the footrests is done by adjusting the strap between the frame and the footrests. In order to do so loosen the 4 screws which adjust the position forward or backward along the frame (fig. 02a). Each footrest is mounted with 2 screws. We can adjust the width and angle of the footrest by loosening the front screw (fig. 02b). By loosening both screws, we can adjust the rotation of the footrest (fig. 02b).

**It is important to tighten the screws properly after adjustment.**



**Fig. 02a**  
The height of the footrest is adjusted by loosening 4 screws.



**Fig. 02b**  
The width and angle is adjusted by loosening the front screw on top of the footrest.

## Angle of seat

### Adjusting the tipping point

The tipping point can be adjusted by moving the seat forward or backward along the frame. Simply loosen two screws under the seat using the accompanying 4 mm Allen key (fig. 06). Slide the seat into desired position and tighten the screws properly.

However, we recommend a representative from Krabat AS together with the local therapist for this adjustment. This is to ensure optimal point of tipping and safe use of the wheelchair. When changing the point of tipping we also alter the tipping angle.

**It is important to tighten the screws properly after adjustment.**

### Height of the seat

The height of the seat can be adjusted by 2 screws under the seat, where the rods are sticking up from the frame (fig. 04). Simply loosen the screws and place the height of the seat in desired position.

**It is important to tighten the screws properly after adjustment.**

### Height of the backrest

The height of the backrest can be adjusted and fixed using the locking lever (fig 05). Open the locking lever and fix it firmly at desired height. If the locking lever does not fix the backrest properly, it can be tighten using the plastic ring under the lever.



**Fig. 05**  
Back height adjustment



**Fig. 04**  
Adjusting the height of the seat



**Fig. 05**  
Adjusting the height of the backrest

## Use of the parking brake

The parking brake is activated by pressing the handle in front of the seat downwards (fig. 07). The parking brake locks both propelling wheels at the same time. The parking brake is deactivated by pulling the handle upwards (fig. 08).

Always activate the parking brake when taking a child in or out of the wheelchair. The parking brake should not be used whilst the wheelchair is moving. This could cause dangerous situations.

The wires for the parking brake might need adjustment when used for a period of time. If so contact Krabat AS or a representative for Krabat AS.

**It is important to tighten the screws properly after adjustment.**



**Fig. 07**

Parking brake activated (lower position)



**Fig. 08**

Parking brake deactivated (upper position)

## Use of the anti tip (accessories)

The Krabat Sheriff S1/S2 can be fitted with 2 anti tippers. The standard position gives us a max tipping angle of 7 degrees. This can easily be altered to 14 degrees. Krabat recommend all users to have anti tippers fitted.



**Fig. 09a**

Inner position – deactivated



**Fig. 09b**

Pull plunger and slide the anti tipper out



**Fig. 09c**

Outer activated position



**Fig. 09d**

Change the angle of tipping – pull plunger and slide to inner activated position

## Adjusting the width

The width of the chair is adjusted by pulling the propelling wheels out. Loosen the 2 screws shown in fig 10, pull out and tighten the 2 screws properly. If the wheelchair is fitted with anti tippers, these need to be loosened as well.

**It is important to tighten the screws properly after adjustment.**



**Fig. 10**

Adjusting the width of the propelling wheels

## Transport

The Krabat Sheriff S1/S2 has Quick Release shafts. This ensures a quick and easy dismantle of the propelling wheels, when transporting the chair.

Press in the button in the centre of the shaft whilst pulling out the whole wheel (fig. 11). Always make sure the button pops out when mounting the wheel. This is an indication of a fixed shaft and a wheel ready for use. Make sure the propelling wheels are mounted as prescribed, to avoid dangerous situations.

The backrest can be folded down towards the seat to make the wheelchair more compact during transport (fig. 11). Do not send the Krabat Sheriff S1/S2 on a plane without suitable packaging (crate, suitcase, etc.). Shipping of the Krabat Sheriff without the suitable packaging can harm the product and cause dangerous situations.

The Krabat Sheriff S1/S2 is not approved for car transport. The child must be seated in a car seat.

**It is important to tighten the screws properly after adjustment.**



**Fig. 11**

Dismantle / mounting of the propelling wheel and folding of the backrest

## Accessories

There is a wide range of accessories available for the Krabat Jockey such as table, head support and push bar. There are also a variety of different harnesses, ankle cuffs, bags, etc. available. See [www.krabat.com](http://www.krabat.com) for an updated list of accessories.

All accessories come with their own user manual.

If you need accessories or other equipment for your Krabat Jockey chair, please contact a Krabat representative, or a Krabat-approved therapist for installation and adjustment.

## Maintenance

All metal and plastic parts can be cleaned using mild soapy water. The seat and backrest is covered with different types of upholstery, either an “all-in-one” cushion or a cushion with separate seat cover. The “all-in-one” cushion may be cleaned using a cloth and soapy water or machine washed at 40 degrees Celsius. The separate seat cover may be machine washed at 40 degrees Celsius. None of the cushions or seat covers can be tumble dried.

**This is a personal product, individually customized according to medical requirements and demands from each user. No regular maintenance is required.**

**Wash the chair’s components when needed. Follow normal hygiene advice and keep the chair clean and tidy at all times.**

The textile is fastened to the chair with Velcro. Advice about spot removal is given at [www.krabat.com](http://www.krabat.com).

Bearings and other movable parts are maintenance free and should not be lubricated.

**To prevent injury, no part of the product shall be serviced or maintained while in use.**

NOTE: If any part should break or is obviously damaged, please stop using the chair and contact authorized personnel for service or appropriate corrective measures.

## Individual adjustments and adaptations

If the sitting unit for some reason needs adjustment please contact a physiotherapist or an occupational therapist. Adaptations of the sitting unit must be made by qualified personnel or Krabat AS.

**Do not under any circumstances make any modifications by yourself.**

## Technical data

### Materials:

Frame:	Anodized aluminium
Upholstry:	Flame retardant foam Neoprene
Cover:	Flame retardant fabric
Plastic parts:	POM, PA6 og ABS
Other metal parts:	Aluminium and steel

For upholstery washing instructions, see instructions on each product.



	S1		S2		
ISO 7176-15	Min	Max	Min	Max	Comments
Max load		60 kg		60 kg	
Nominal tire air pressure	6,0 bar	8,0 bar	6,0 bar	8,0 bar	
Diameter of propelling wheels		20"		24"	
Width	56 cm	64 cm	61 cm	69 cm	
Length		66 cm		76 cm	
Height	69 cm	78 cm	79 cm	89 cm	
Weight		8,9 kg		9,1 kg	Standard, with no accessories
Seat height above floor	44 cm	47 cm	48 cm	52 cm	
Tipping point w/ antitip	7 °	14 °	7 °	14 °	
Diameter hand rims		44,5 cm		53,5 cm	
Height of shaft		25,5 cm		30 cm	
Depth of seat		28 cm		31 cm	
Width of seat		24 cm		30 cm	
Angle of seat	- 15 °	+ 15 °	- 15 °	+ 15 °	Total adjustment angle - 30 °
Width of backrest		26 cm		32 cm	
Angle of backrest	- 15 °	+ 15 °	- 15 °	+ 15 °	Fixed to seat
Turning radius	40 cm		44 cm		

## Warnings and definitions

### General warnings:

#### ***Choking hazard:***

During normal use, when the user is in a wheelchair and possibly secured, there is no danger of suffocation. To avoid possible choking hazard, do not leave a child unattended with the Krabat Sheriff.

#### ***Danger of crushing:***

There is little risk of crushing injuries during normal use, as long as the adjustment procedures are followed. If screws and other moving parts do not need to be tightened as necessary, there may be movement on the product - which in turn can pose a risk of crushing. To prevent the possibility of such incidents, never leave the child in the chair unattended.

#### ***Danger of tipping:***

There is always a real danger that a product may tip, as long as you do not comply with restrictions set by a therapist with training from Krabat, information that accompanied the product or information available on Krabat.no. A general rule is that any movement outside the "footprint" of the product towards the surface can pose a risk of tipping. The higher the user, will also affect the possibility of tipping. The same applies to additional components fitted, such as tables, communication tools and sacks / bags. To prevent the possibility of such incidents, one must avoid this, and never leave the child in the chair without supervision.

#### ***Definition of applied parts:***

***The definition of applied parts are parts of the product that come into contact with the USER during normal use / to perform its function.***

Definitions of applied parts are: seat unit and chair back including cushions, support (s) including ankle straps / ankle cuffs and hip belt if fitted, headrest, table and driving handle.

## Transport and storage

During transport and / or storage, Krabat Sheriff should remain operational in normal use within its specifications after transport or storage in the following temperature ranges:

- -25 ° C to +5 ° C, and
- + 5 ° C to +35 ° C at relative humidity up to 90%, non-condensing;
- 35 ° C to 70 ° C at water vapor pressures up to 50 hPa

after the product has been removed from packaging and then between uses.

**Note:** Krabat Sheriff should be kept indoors.

## Environmental impacts during use

When the Krabat Sheriff is to be used, it must be used under the following environmental conditions:

- In temperatures between + 5 ° C to + 40 ° C;
- At relative humidity of 15% to 93%, non-condensing
- At an atmospheric pressure between 700 hPa to 1,060 hPa

**This product is classified for non-continuous operation.**

Normal operating cycle for use - 10% or 2 minutes of operation followed by 18 minutes of standstill.

### **Use after storage:**

If Krabat Sheriff is stored cold (below 0 degrees Celsius), wait 20 minutes before using the chair.

If the Krabat Sheriff is stored in a warm place (above 50 degrees Celsius), all surfaces must be allowed to cool to ambient temperature before placing the child in the chair. Wait 20 minutes before using the chair.

### **Avoid burns scalding:**

If the Krabat Sheriff is left in direct sunlight, move the chair away from direct sunlight and check that all surfaces of the chair have reached an acceptable temperature before placing the child in the chair.

**Recycle components and materials in accordance with local, state, and national regulations.**

## Explanations of symbols

Explanation of the various symbols used on the product and in this manual:

Symbol	Importance	Importance	Expanations
	Symbol for use worth marking medical equipment.	<b>Producer</b>	Indicates the manufacturer of medical devices
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	<b>See instructions for use</b>	<b>Indicates the need for the user to see the user manual</b>
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	<b>See instructions for use</b>	<b>See instructions for use</b>
	General warning sign	<b>Warning: read all warnings and safety rules in the operating instructions</b>	When a user is sitting in the chair and the chair is to be moved, e.g. from room to room, it is NOT recommended to do this with the seating unit in the highest position. To prevent accidental tipping, never move the chair when the seat is in the highest position.
	Medical electrical equipment	<b>Type BF applied part</b>	<b>Identification of type BF applied part according to IEC 60601-1.</b>
IPN <sub>1</sub> N <sub>2</sub>	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	<b>Degree of water and dust penetration</b>	<b>Manufacturer-determined degree of particle and water ingress protection.</b>
	Symbol for use In marking electrical appliances	<b>Kun til innendørs bruk</b>	<b>To identify electrical equipment designed primarily for indoor use.</b>
	Symbols for use in the labelling of electrical devices.	<b>Risk class 2</b>	<b>To identify electrical equipment designed primarily for indoor use</b>
	The requirements for accreditation and market surveillance relating to the marketing of products; Medical Device Directive	<b>CE marking</b>	Signifies European technical conformity.
	Symbol for use in the labelling of electrical devices.	<b>Do not throw in general waste</b>	Highlights that you should not place the electrical item in the general waste (it should be taken to a local recycling centre)
	Symbol from the certified body that performed tests	<b>Certification mark</b>	Certification mark that signifies that this product is certified to meet requirements of US and Canadian electrical safety standards.
	Safety sign to prohibit sitting on a surface.	<b>No sitting on surface</b>	To identify surfaces/ parts that are unsuitable to sit on.
	Safety sign to prohibit stepping onto a surface.	<b>No stepping on surface</b>	To identify surfaces/ parts that are unsuitable to step on.

## Warranty

Manufacturer of KRABAT products, Hepro AS avd KRABAT - hereinafter referred to as KRABAT - which has its place of business in Ravnsborgveien 56, 1395 Hvalstad, Asker, Norway - gives the buyer of a KRABAT - product the following product guarantee, hereinafter referred to as «WARRANTY»:

1. This WARRANTY is given under the strict condition that the buyer and any person who buys gives access to the KRABAT product complies with the following SAFETY PRECAUTIONS:
  - I. Always read and understand the accompanying operating instructions for the product before using the product.
  - II. The KRABAT product is only intended to be used for its intended purpose in accordance with the KRABAT instructions for use for the relevant KRABAT product.
  - III. Children or other users of KRABAT product must always be supervised by adults.
  - IV. Make sure that the hip belt (seat belts) are properly fastened and work properly. Periodically check that the hip belt is securely fastened to the KRABAT product.
  - V. Always use KRABAT products in consultation with a local physiotherapist or occupational therapist.
  - VI. The KRABAT product is not a toy. Do not allow children or others to play with the KRABAT product as it may cause injury to persons and / or product
  - VII. When the KRABAT product is not in use, store it so that it can not be misused or cause harm to others, to the KRABAT product and its functions.
2. Subject to compliance with the terms of the WARRANTY, KRABAT warrants that the KRABAT product for a period of one (1) year (the warranty period) from the time of purchase of the KRABAT product, that the KRABAT product shall function in accordance with the intended purpose as stated in the KRABAT instructions for use after purchasing the KRABAT product.
3. Should any damage or defect occur in the product during the said warranty period, KRABAT will offer assistance within a reasonable time. The defect is corrected by either KRABAT or a third party approved by KRABAT either by taking the product for inspection / repair or forwarding spare parts for replacement provided that the buyer of KRABAT product without undue delay after becoming aware of defects, has notified KRABAT in writing or a representative authorized by KRABAT about defects / deficiencies that are discovered. KRABAT reserves the right, at its discretion, to forward a new product instead of carrying out repair work if the product has defects / errors. When forwarding spare parts, parts that need to be replaced or a new product (unit?). When sending spare parts, parts to be replaced or a new product, KRABAT or authorized representatives are considered to have fulfilled their obligations when the relevant parts or product have been made available for collection at the place where the original KRABAT product was sold.

4. In the event that a defect is not remedied,

I. Buyer is entitled to a reduction of the purchase price in relation to the reduced value of the KRABAT product, provided that the reduction of the purchase price, under no circumstances, exceeds fifteen (15%) percent of the purchase price for said KRABAT product, or

II. Where the defect is so significant that it deprives the buyer of a significant advantage of the purpose of the purchase, the buyer may cancel the purchase on the basis of the defective KRABAT product. If the buyer has suffered a loss, the buyer may be entitled to a refund of a maximum of fifteen (15%) of the purchase price for the said KRABAT product.

5. THIS WARRANTY MAKES NO WARRANTIES OTHER THAN THE WARRANTIES GIVEN UNDER THIS WARRANTY.

6. For the avoidance of doubt. This WARRANTY does not cover any liability by KRABAT or KRABAT's authorized representatives for indirect losses or consequential damages incurred by the buyer or person who gave access to the product by the buyer, knowingly or unknowingly.

7. This WARRANTY does not apply when the KRABAT product is supplemented with or has been supplied with parts that have not been produced by KRABAT or parts produced or delivered by others where the use is not authorized in writing by KRABAT.

8. KRABAT is only responsible for errors that occur under operating or operating conditions that are stipulated in the operating instructions for the relevant KRABAT product.

9. KRABAT shall not be held liable for defects caused by incorrect maintenance, incorrect adjustments or repairs performed by anyone other than KRABAT or a representative authorized by KRABAT or for changes to the KRABAT product that have been made without the written consent of KRABAT.

10. This WARRANTY does not cover normal wear and tear

11. KRABAT is under no circumstances responsible for defects or damage to parts of the KRABAT product for more than two (2) years after delivery.

12. Except as provided in this WARRANTY, KRABAT, as well as KRABAT's authorized representatives, shall not be held liable for defects in any KRABAT product. This applies to any loss including production loss, loss of profit or other indirect loss.