HOGGI®

FLUX

User manual

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User manual for FLUX

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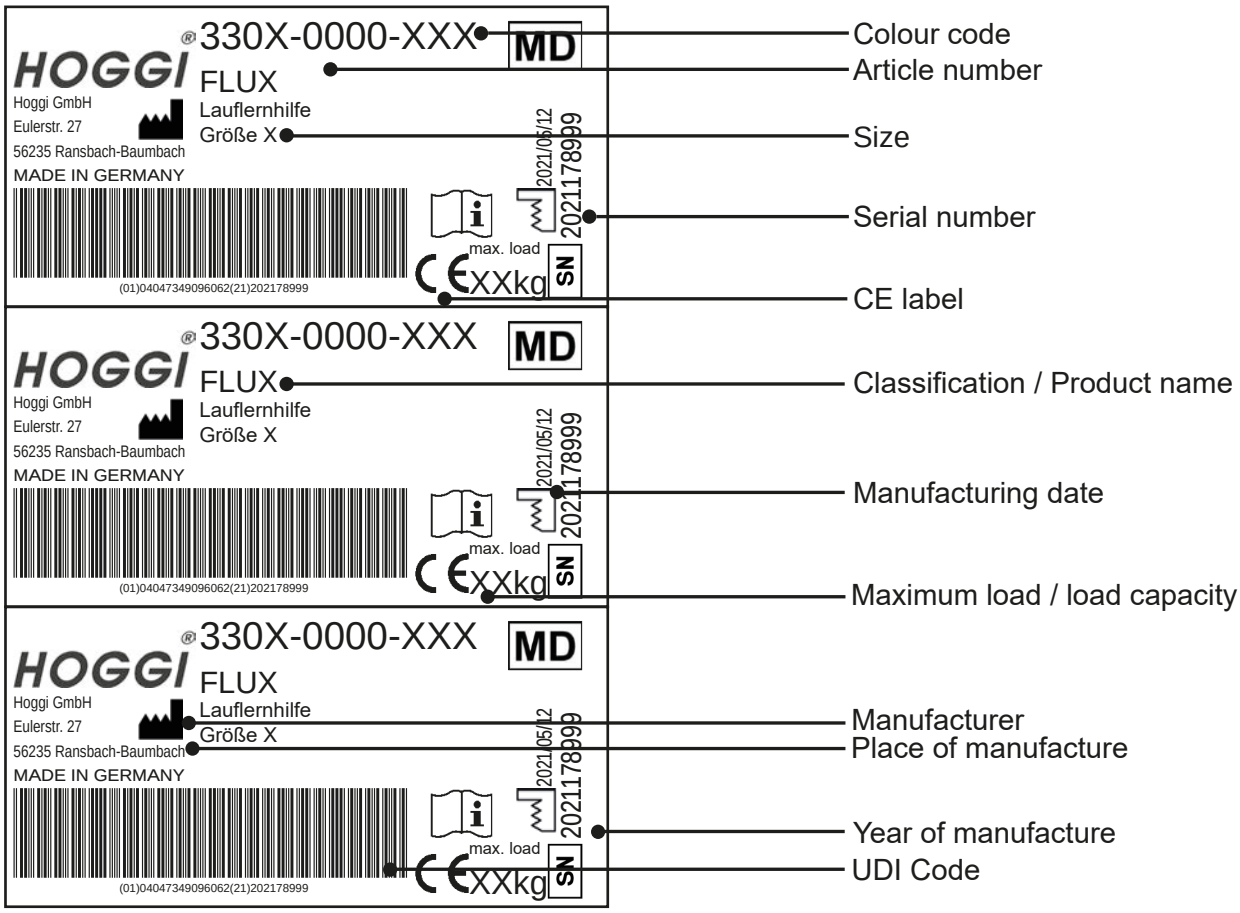
1. Model identification

The **label** is attached at the rear frame.



1.2 Basic configuration

- FLUX compact foldable frame
- Swivelling front wheels on PU tires
- Height and depth adjustable grab rail
- On and off switchable anti-reverse on the rear wheels

1.3 Environmental conditions

Environmental factors such as temperature and humidity can damage the walking aid.
The manufacturer recommends non-condensing FLUX at ambient temperatures between -20°C and +40°C and a humidity of 5 to 100%.

Attention: When standing in the sun for a longer period of time, parts of the walking aid may become hot. Pay attention to this!

2 Common Information

2.1 Preface

Thank you for selecting the **FLUX** walking aid. We have designed this high-quality product to make your life safer and easier, and we've included this manual to help you use and care for it. Please read the following instructions to make sure you use this product as recommended. If you have any further questions, or if you have any problems, please contact your healthcare provider.
We hope that **FLUX** meets your expectations.
We reserve technical modifications regarding the specified model in this manual. Before using the walking aid the first time, this manual has to be read and understood by patient and support personnel in oder to ensure a safe handling with the walking aid.

2.2 Application

FLUX walking aid is originally designed as a so called "posterior walker" which is used in the reversed direction. This provides an optimum freedom for the legs in the forward direction.
Never the less the FLUX walking aid is applicable as a "anterior walker" in front of the user.
The FLUX walking aid helps children or adolescents use the strength and support of their upper extremities to assist their compromised lower extremities in walking. The walker is to be used to aid the child in learning the sequence of movements involved in walking and thus increase their range of mobility.
It is indicated for walking training in the case of diseases or injuries that involve both a disturbance in the locomoter system and imbalance / asynergia.
The design promotes an upright posture when standing or walking and thereby differs from basic walkers in that it requires the user to employ more natural movements and can greatly simplify the user's ability to stand, establish a sense of balance and walk.
The FLUX walking aid is suitable for reuse. Before re-use, all inspection, care and maintenance measures listed in chapter 10 „Maintenance and Care" must be carried out by the specialist dealer.

2.3 Declaration of Conformity

HOGGI GmbH, as the manufacturer under sole responsibility, declares that the FLUX walking aid complies with the basic safety and performance requirements according to Annex I of Regulation (EU) 2017/745 of the EU Parliament and Council. Applicable harmonized standards have been applied. The FLUX walking aid meets the requirements of ISO 7176-8, DIN EN ISO 11199-2, DIN EN ISO 11199-3 and DIN EN 12182.

2.4 Terms of Warranty

Warranty applies only when the product is used according to the specified conditions and for the intended purposes, following all manufacturer's recommendations.The manufacturer is not responsible for damages caused by components and spare parts not approved by the manufacturer.
See also § 8 of terms and conditions on: ***www.hoggi.de***

2.5 Service and Repairs

Service and repairs on the FLUX walking aid should only be carried out by authorized HOGGI dealers. Should any problems arise, please contact the dealer who supplied your FLUX. Authorized dealers only fit original HOGGI spare parts. Spare parts and replacement units are available throughout the life of the product, but only for a maximum of 2 years after the sale of the last product of this series. The walking aid is made to order for the first user. For this reason, there is no substitute walking aid available in the initial configuration. To ensure a correct delivery of spare parts, the serial number of your walking aid is required. We are happy to help you find a dealer in your area. You can reach us at: info@hoggi.de

2.6 Information obligation for serious incidents

All serious incidents occurring in connection with the product must be reported to the manufacturer, specialist dealers and the competent authority.

2.7 Product safety / product recalls

For new advice on product safety and product recalls, you can obtain information from specialist dealers or directly from the manufacturer at www.hoggi.de.

For repair and service, the following tools are required:
Allen wrenches, sizes: 4 mm, 5 mm und 6 mm
Wrenches, sizes: 8 mm, 10 mm und 19 mm
Philips screw driver, size: 2

Further FLUX documentation:

- Service Manual
- Spare parts catalog

3 Safety instructions

3.1 Meaning of symbols

Caution!
Warning of possible danger of accident and injury. Warning of possible technical damage.

Information!
about use of product.

Information!
for service-personnel.

Caution!
Therapy product for indoor use only.

Caution!
Therapeutic appliance may be used under supervision only!

Attention!
Read manual before use!

3.2 Common safety instructions

Read manual completely before use!
Familiarize yourself with handling and functions of the product before use and practice the handling.
You are responsible for the safety of your child. The safety of your child could be affected if you do not follow the instructions of this manual. Nevertheless not all possible circumstances and unpredictable situations can be covered by this manual. Reason, care and circumspection are not features of the product, they are required of persons who use the product. The person who is using the product and its accessories should understand all instructions and should explain them to every person using the product and its accessories. If instructions are not clear and further explanations become necessary or if you have further questions please contact your HOGGI dealer.

Attention!
The product may be used only on solid level ground.

Attention!
FLUX is a therapeutic appliance and may be used indoor and under supervision only! FLUX can be used outdoors providing the optional brake with wheel lock has been installed.

Caution!
While folding the walker, do not hold on to other parts than the ones described, especially the folding mechanism, because otherwise there is a risk of pinching!

Caution!
All adjusting levers are fastened finger-tight without using tools.

Caution!
Observe the maximum load for each model (refer to 11 Technical Data)!

Caution!
The maximum load capacity of the storage basket and the carrier is 5 kg.

Caution!
Attaching heavy bags or other weight can affect the stability adversely.

Caution!
The pull out stop determines the maximum possible height of the grip bar; no adjustments may be made beyond this area.

Caution!
Check sufficient clamping by loading the grab rail according to the maximum load capacity. (see 11 technical data)

Caution!
The depth of the grip bar must be checked and possibly corrected after every adjustment in height otherwise there is a risk of tipping forward.

Caution!
Adjusting the lower arm support with handles to the outside beyond the grip bar is not permitted since then there is a risk of tipping.

Caution!
Make sure that your child does not lean too far out of the walker in order to reach objects in front to the side or to the rear of the FLUX walking aid. A shift in the centre of gravity might cause the FLUX to tip over.

Caution!
The grip bar may not be used as a seat surface since otherwise there is a risk of tipping.

Caution!
Frame parts and the carrier may not be used as a seat surface or to stand on otherwise there is a risk of tipping.

Be careful in case of extreme temperatures. The walking aid can heat up significantly when in the sun or in the sauna. In extreme cold, there is a risk of hypothermia. For persons with insensitive skin (ie persons who can not perceive a temperature increase) and / or with skin damage, care must be taken that metal parts do not reach too high a temperature. In these cases, it is imperative to wear appropriate garments to protect the skin.

Caution!
Please keep packaging material away from children. Plastic packaging presents the danger of suffocation.

Disposal of waste: The packaging material as far as metal, aluminium and plastic parts can be recycled. The recycling must be operated according to the national and legal terms. Please ask the city/municipal administration for local waste disposal companies.

Information!
Clean all frame components and plastic parts using only standard household cleaning agents.

Information!
Notice the maximum width of the FLUX walking aid (door clearance).
See also 11 technical data and type label attached to the product.

Information!
Should any defects become obvious, please contact your authorized HOGGI dealer to eliminate them. We also recommend that you should service your FLUX by your authorized dealer every twelve months.

Visually impaired persons or persons with cognitive impairments must have information material and the operating instructions read aloud by assistants, or can make use of electronic reading aids. All documents are available as PDF files in the Download Center at www.hoggi.de. Additionally, product videos and product photo galleries are available online!

Information!
Whenever you change any settings on the FLUX walking aid make sure that you firmly tighten any screws that have been loosened.

Information on product safety or product recalls and all contact details can be found on our website at **www.hoggi.de**

4 Delivery and Preparing for Use

The original package contains the following components:
- base frame folded;
- grab rail folded;
- instructions for use and list of tools required;
- accessories as ordered.

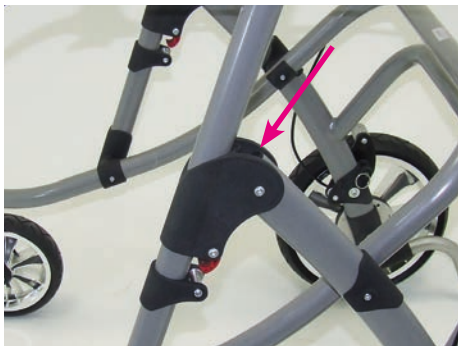
Carefully remove the transport safety items and packaging material.

Proceed in the following manner to assemble the FLUX walking aid:

FLUX size 1-3
- Take hold of the base frame behind the front wheels and unfold the basic frame as shown.

- Push the folding lever until the lock pins engage.

FLUX size 4
- Take hold of the base frame behind the front wheels and unfold the basic frame as shown.



- Push down the sliders until the red safety hooks lock with an audible click.

• Unfold grab rail as shown.

• Open the eccentric lever and place the grab rail into the unfolded base frame

• Press the snap buttons (pull out stop) to the inside when placing the grab rail into the frame. Insert the grab rail as far as possible into the frame, until the pull out stops engage on the left and right side.

Caution!
The pull out stop determines the maximum possible height of the grab rail; no adjustment may be made beyond this area.

• Slide the grab rail to the desired height and close the eccentric lever on both sides of the basic frame.

Caution!
Check sufficient clamping by loading the grab rail according the maximum load capacity.
(see 11 technical data)

• When the lever is opened you can set the closure strength of the eccentric lever by adjusting the knurled nuts

• Finally, you may adjust the depth of the grab rail evenly on both sides and tighten the hexagon socket head cap screw on both sides.

Be sure to tighten any screws you have undone previously.

FLUX size 1-3: The depth of the grab rail must be set so that the anterior edge of the grip or the lower arm support pads on the grab rail lies behind the caster forks by at least the length of **A**. If bumper wheels are used the measurement of **A** must be increased with one centimetre. It is best to check this by placing the castor forks of the FLUX against a smooth door and measuring the space from the door leaf to the grip, i.e. forearm pad.

FLUX size 4: no adjustment needed.

Minimum length of A when using:	FLUX size 1	FLUX size 2	FLUX size 3
Grab rail standard	14 cm	17 cm	20 cm
Grab rail with universal handle	12 cm	17 cm	20 cm
Grab rail with lower arm support	14 cm	15 cm	20 cm

Caution!
The depth of the grab rail must be checked and possibly corrected after every adjustment in height otherwise there is a risk of tipping forward.

5 Adjusting and Adaptation Possibilities

5.1 Grab rail height and depth adjustment (all versions)

The height and depth of the grab rail can be adjusted to meet individual needs.

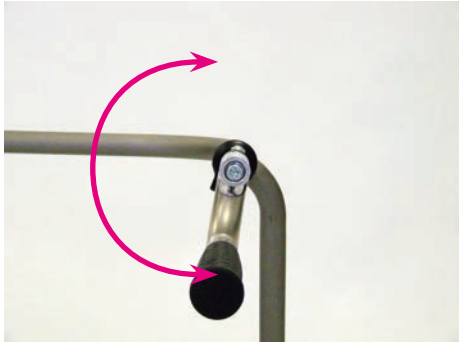
(Refer to **4 Delivery and Preparing for Use**)

5.2 Grab rail standard

The standard grab rail is shown here.

5.3 Grab rail with universal handle

By loosening the screw connections, you can rotate both grips, thereby adjusting the distance between grips as well as the grip height (refer to **11 Technical Data**).



You may only adjust the grips within the area shown here.

After the adjustment retighten the screw connections.

Make sure that you firmly tighten any screws that have been loosened.

5.4 Reverse-roll lock

Since children instinctively want to fall backward all the time, the FLUX size 1 and 2 is equipped with reverse-roll locks and thus provides optimum support.
The illustration shows the reverse-roll lock in freewheel mode.

Caution!
Regularly check for proper function and correct if necessary. Worn-out or damaged tires must be replaced.

After pulling the snap-action mechanism, the reverse-roll lock can be swung forward until the bolt engages in the deactivated position.

This makes possible to freely move the walker forward and backward.

To activate the reverse-roll lock just pull the pin. The reverse-roll lock will be swung onto the wheel.

5.5 Fold for transport

FLUX size 1 - 3

Pull lock pins before folding and push the folding levers upwards on both sides.

Take hold of the walker´s base frame behind the front wheel‘s and lift it or tilt the walker onto the rear wheels.
The anterior frame will fold in.
You will achieve an especially small folding size if you detach and fold in the grab rail.
Please proceed in the reverse order as described under **“4 Delivery and Preparing for Use”.**

Caution!
During folding the walker, do not hold on to other parts than the ones described, especially the folding mechanism because otherwise there is a risk of pinching!

FLUX size 4

Depress the top of the red safety hooks on both sides of the frame before unfolding. Push the sliders upwards until they are unlocked.

Take hold of the walker´s grab rail as shown and lift it or tilt the walker onto the rear wheels. The anterior frame will fold in.

You will achieve an especially small folding size if you detach and fold in the grab rail.
Please proceed in the reverse order as described under
“4 Delivery and Preparing for Use”

Caution!
During folding the walker, do not hold on to other parts than the ones described, especially the folding mechanism because otherwise there is a risk of pinching !

6 Accessories

All accessories which are not installed by the manufacturer must be installed by trained technicians. The following notes on installation are for your information but should be performed by trained technicians.

6.1 Lower arm support with handles (2-axial or 3-axial adjustable version)

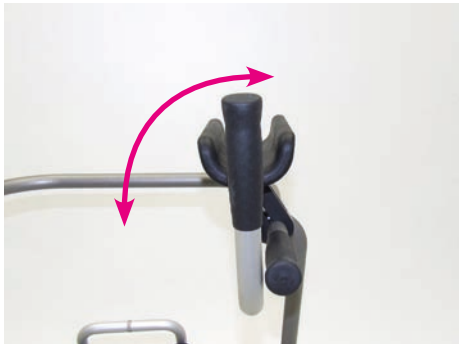
The lower arm supports with vertical hand grips have been designed for users who are unable to support themselves on their extended arms and who feel safer using their forearms for support.

The 3-axial version is adjustable in an aditional vertikal axle.

The height of the forearm pads and the vertical grips can be adjusted together with the grab rail.

The forearm pads can be connected with the handle in three different positions. The distance between forearm pad and grip should be adjusted in order to avoid pressure points and cramped postures.
With the clamping brackets the forearms pad and handle can be adjusted to the desired position. **(11 Technical data)**

Make sure that you firmly tighten any screws that have been loosened.



You may only adjust the grips/forearm pads within the area shown here.

Caution!
Adjusting the lower arm support with handles to the outside and beyond the grip bar is not permitted there is a risk of tipping.

6.2 Bumper wheels

Bumper wheels protect furniture and door ways and minimise the risk that the walker could get caught by obstacles.

6.3 Drag brake

The drag brakes can be used to control deceleration.

The pressure of the drag brakes on the hub and thus the rolling speed of the tires can be varied by loosening or tightening the interior set screws.

6.4 Brake with wheel lock

The wheel lock allows the patient to both control the braking and to park the FLUX safely.

To lock the brakes pull the brake handle completely and engage the retaining claw with your index finger. To loosen the wheel lock pull the brake handle out slightly so that the retaining claw will open.

FLUX size 1 - 3

If the braking function is insufficient, readjust the respective brake cable with the adjustment screw.

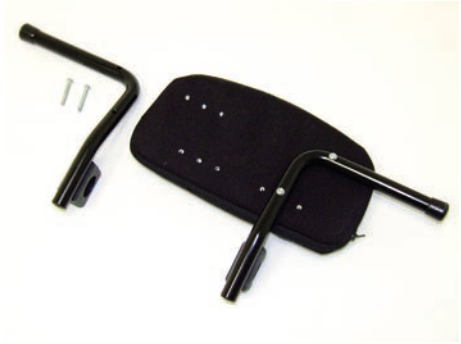
FLUX size 4

At the exit of each brake housing a cranked set screw leads the brake cable away from the tyre of the rear wheel. After loosening the counter nut the pre tension of the individual (left or right) brake can be adjusted.
Tighten the counter nut firmly again and ensure that the crank of the set screw shows towards the rear frame, away from the tire.

6.6 Anti-tips

The anti-tippers increases stability against tipping backward.
The anti-tippers are inserted into the anti-tippers holder and secured with the snap button against turning. The anti-tippers can be swung upwards.

Caution!
Make sure that the snap butttons are fully engaged. Check with a sharp push on the anti-tippers that the snap button is securely located.



6.7 Seat

The seat is not designed to be a comfortable piece of furniture but as a simple and practicable auxiliary seat which enables the user to rest every now and then while using the FLUX.

The seat can be adjusted to the different frame sizes by positioning the tube arms respectively.

The seat is attached to the top of the front frame by a set of clamping brackets.

Make sure that you firmly tighten any screws that have been loosened.

The seat is located in the upright position during walking and could be folded down for use simply.

6.8 Hip-/bottom pads, multi adjustable

The Hip-/bottom pads make it possible for the user to position him- or herself superbly in the push bar area.

Many users tend to want to support themselves to the rear. These pads bring the user once again into the anterior area of the grip bar and thereby into an upright position.
The width and angle of the pelvic supports can be adjusted too.
The centre support can be removed if especially narrow settings are desired.

By combining two sets of clamping brackets the Hip-bottom pads can be adjusted to various positions and angles.

Make sure that you firmly tighten any screws that have been loosened.

6.9 Trunk support

The trunk support serves to guide and stabilize the upper body. It provides lateral support and is therefore ideal for users with insufficient torso stability. It is secured by the locking mechanism with belt buckle.
! The system is only intended as a guide and functions not as support !

The trunk support is delivered pre-assembled.

By combining two clamps, the trunk support can be adjusted up and down, forward and backward in angle.

To adjust, loosen the screw connection as shown and move the guide to the desired position. Then the screws must be tightened again.

The figure shows the lower clamp.

The figure shows the upper clamp.

The individual pads of the trunk support can be adjusted in width and angle.

Loosen the screw connection to the pad support on the right and/or left and move the pipe clamps to the desired position. Then the screws must be tightened again.

The figure shows the narrow leading position.

The figure shows the wide leading position.

6.10 Dynamic hip control

The Dynamic hip control supports free walking by fixing the user with the hip belt.

It is also possible to use a custom made body shaped fixation (corset or belt) supplied by an orthotest.

6.11 Carrier

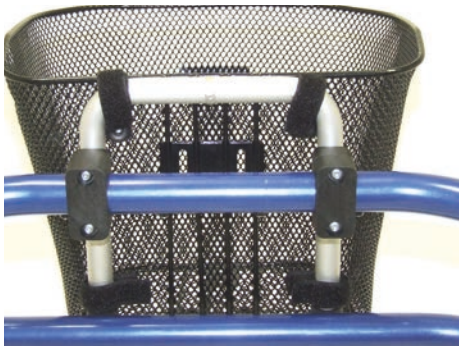
The carrier is attached to the top of the front frame in the same way as the seat and can be used together with the mounted seat. To achieve a compact folding package the carrier can be folded away.

Caution!
The carrier may be used together with ant-tips only.

Carrier size 1 fits on FLUX size 1 and 2
Carrier size 3 fits on FLUX size 3 and 4

The carrier will deliver with a tension strap to fix school bags and similar.

Caution!
The maximum load capacity of the storage basket and the carrier is 5 kg.



6.12 Basket

Apart from practical use, the storage basket can be used for therapeutic purposes, e.g. to provide a stimulus for the patient to collect things.

The basket is attached to the carrier by four Velcro straps.

The position of the Velcro straps differ according to the size of the carrier.

Basket on carrier size 1

- upper row approx. 4 cm from the upper edge
- lower row approx. 17 cm from the upper edge
- horizontal distance approx.17 cm

Basket on carrier size 3

- upper row approx. 5 cm from the upper edge
- lower row approx. 17 cm from the upper edge
- horizontal distance approx. 20-21 cm

Caution!
The maximum load capacity of the storage basket and the carrier is 5 kg.

6.13 Swivel lock

The caster swivel lock is especially suited for the initial phase of therapy with FLUX models, since greater manoeuvrability also requires increased coordination ability on the part of the user.
The caster swivel lock can be used to make a swiveled front end into a rigit front end.
To lock the swivel lock turn the lock pin by 90° and let it engage in the designated hole in the castor fork. To open the swivel lock pull the lock pin, turn it by 90° so that it stays in the disengaged position.
After loosening the clamping screw the tracking can be adjusted with engaged swivel lock.

7 Transport

FLUX can be transported in one piece depending on size and equipment.

8 Storage

You can achieve the smallest packing size by folding up the frame and removing the grab rail.

9 Recycling and disposal

FLUX is made of recyclable materials. The product packaging as well as all metal, aluminium and plastic parts can be reused.

Disposal must be carried out in accordance with the respective national, legal regulations. Please ask the city/municipality administration for local waste disposal companies.

10 Maintenance / Service and Repairs and operating life

Your FLUX walking aid is CE approved. Herewith the manufacturer guarantees that this medical product as a whole fulfills the requirements of Regulation (EU) 2017/745 of the EU Parliament and Council.
The FLUX walking aid should be checked for correct function before every use. The items listed in the following table must be checked by the user at the indicated intervals. Failure to carry out these simple checks may lead to problems arising that could invalidate the warranty.

Check	daily	weekly	monthly
Function test of the brake and the reverse roll lock	X		
Check of screw connections		X	
Visual inspection of wearing parts such as wheels and bearings			X
Contamination on bearings			X

Should any defects become obvious, please contact your authorized HOGGI dealer to eliminate them. We also recommend that you have your FLUX walking aid serviced by your authorized dealer every twelve months.

Instructions for cleaning and maintenance

- Clean all frame components and plastic parts using mild detergents only.
- In most cases, wiping with a damp cloth is sufficient.
- Do not use your **FLUX** walking aid in salt water.
- Keep sand or other particles from damaging the wheel bearings.
- Hair and dirt particles generally accumulate between the caster wheel and fork. This can restrict the caster wheels from rotating smoothly. Remove the caster and thoroughly clean the fork and caster using a mild detergent.
- Especially in the beginning or after adjusting the walker, the strength of the screw connections should be checked. If a screw connection is repeatedly loosened, please contact the responsible specialist dealer.

Operating life FLUX:

The expected operating life of the **FLUX** is 6 years, depending on intensity of use and maintenance. We recommend an annual inspeciton by an authorized **HOGGI** dealer. In case of an interference or a damage of the walking aid it has to be checked immediately by a dealer or a medical supply store.

11 Specifications

Measures (cm) and weight (kg)		FLUX size 1	FLUX size 2	FLUX size 3	FLUX size 4
grab rail standard	grip height	48-61	57-81	69-87	82-102
	grip width	41	46	51	51
grab rail with universal grips					
	grip height	43-68	51-88	62-94	75-102
	grip width	29-41	34-46	39-51	39-51
	grip diameter	3	3	3	3
forearm supports with hand grips					
	height from floor	52-69	61-89	73-95	86-110
	distance (forearms)	29-41	34-46	39-51	39-51
frame	total length*	65	81	88	91
	total width**	64	69	74	78
	load capacity	60 kg	75 kg	75 kg	100 kg
	front / rear wheel dia	15 / 20	15 / 20	15 / 20	20 / 30
	seat height	37	44	54	58
	weight	6,5 kg	6,8 kg	7,1 kg	9 kg
Turning diameter (without accessories)		92 cm	106 cm	120 cm	175 cm

* total length with anti-tip +10 cm, with bumper wheels +1 cm
** total width with bumper wheels +2 cm

Attention!
Accessories and add-ons reduce the remaining load capacity of the **FLUX** walking aid.

// Notes

// Notes

// Notes

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