



SPECIAL NEEDS STROLLER
RACER EVO BODYMAP™



 **BodyMap®**
VACUUM SYSTEM BY ORTHODESIGN

USER MANUAL





Manufacturer takes responsibility for proper usage of the device only when the product was purchased from qualified Akces-Med employee or at specialized medical store!

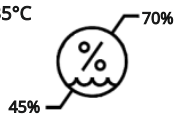
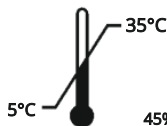
AKCES-MED. Ltd. reserve the right to introduce technical and trading changes in the content of the instruction without warning.



Product marked with the CE sign is Class I medical device, of rule 1, consistent with the requirements of Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices.



Akces-Med. Sp. z o.o. Company introduced quality management system ISO 13485 regarding production, sales and service. The system is certified by Det Norske Veritas.





CONTENTS

1. The purpose of user manual.....	5
2. Indications and contrindications for use.....	5
3. General characteristics of stroller.....	6
3.1. Standard equipment.....	6
4. Size table.....	7
6. Detailed description how to operate stroller.....	8
5.1 How to unfold stroller.....	8
5.2 How to fold stroller.....	10
5.3 Adjustment of footrest's length.....	11
5.4 Adjustment of backrest's tilt angle.....	12
5.5 Adjustment of footrest position.....	12
5.6 Foot stabilizing belts.....	12
5.7 Vest.....	13
5.8 Wheels.....	13
5.9 Hand brake.....	14
5.10 Safety rail.....	14
5.11 Adjustable handle.....	14
5.12 Leg separator equipped with shin belt.....	15
6. The adjustment of BodyMap cushion.....	16
7. The use of stroller.....	17
7.1 Preparation of patient.....	17
7.2 How to use stroller.....	18
8. Safety rules.....	19
9. Maintenance and cleaning.....	22
9. Labeling.....	26





INTRODUCTION

Special needs stroller **RACER EVO BodyMap™** is a special version of the Racer Evo on which you can install **BodyMap** cushions. Special upholstery was equipped with firm Velcro tapes on which we can fix the **BodyMap** cushions. Cushions were designed and are dedicated for Racer Evo. In standard **RACER EVO BodyMap™** consists of 3 BM cushions: **BODYMAP A+** - Sitting positioning cushion with thigh abductor wedge and lateral supports, **BODYMAP B+** - Backrest cushion with lateral supports, **BODYMAP D** - Headrest.

Remember to read this user manual carefully. You will find not only useful information but also guidelines regarding safe and effective use of the product.

If you have any questions or remarks, do not hesitate to contact with us:

Medical consultant: mobile +48 508 382 509

Akces-MED Sp. z o.o.: ph. +48 17 864 04 77

e-mail: export@akces-med.com

Thank you for purchasing our product.



CAUTION! Before using the product, user is obliged to familiarize himself/herself with user manual. Remember that complying with guidelines is highly important. It assures safety and extends durability as well as aesthetics of the device.





1 THE PURPOSE OF USER MANUAL



The instruction manual contains basic information necessary to properly prepare the stroller before use, use the stroller, maintain and clean the stroller

This user manual should be kept in an easily accessible place. The manual is intended for people who look after disabled users, as well as for doctors and physiotherapists handling the stroller. Before using the stroller for the first time, the user (or caregiver) is obliged to familiarize himself/herself with the user manual.

2 INDICATIONS AND CONTRINDICATIONS FOR USE

These medical devices are intended for people with orthopedic, neurological and cardiological diseases and for people after surgery, with musculoskeletal dysfunctions, who have not acquired the ability to sit independently or who have difficulties in adopting and maintaining the sitting position.

Both for flaccid people with reduced muscle tone and for people with spasticity. The device can also be really useful for people who require long-term relief of one or both lower limbs. It is an irreplaceable aid in the rehabilitation process, both in terms of movement and social integration. The device is great help during everyday activities such as rehabilitation but also during playing, studying or having meals. The selection of the appropriate size of the device depends on medical indications and anatomical parameters, regardless of the age of the user.

The device is recommended for people in the following cases:

- Cerebral palsy – various types and forms.
- Brain and spinal cord injuries with lower limbs paralysis and weakness, balance and motor coordination disorders with different etiology.
- Demyelinating disease (e.g. multiple sclerosis - SM).
- Meningocele.
- Muscles diseases with weakness and paralysis (dystrophy, myasthenia gravis, myositis).
- Genetic disorders.
- Degeneration and neurological diseases.
- Other condition connected with muscles weakness, paralysis and musculoskeletal disorders.
- After head and spinal cord injuries and spine trauma with paralysis and paresis.

Contraindications for sitting

- Critical condition of the user;
- Paralysis;
- Deep sedation;
- Unstable fractures with specific orthopedic recommendations, including spine fractures;
- Untreated deep vein thrombosis;
- Hemodynamic instability;
- Identified brain dysfunction when sitting upright;
- Severe arthritis of the cervical spine;
- Pulmonary embolism;
- Recent myocardial infarction in the last 24 hours;
- Fresh postoperative wounds or non-healing wounds in the back area, pelvic girdle area, hip joints and thighs;
- Users with mental disorders should not be left in the device without the supervision of a caregiver.





3 GENERAL CHARACTERISTICS OF STROLLER

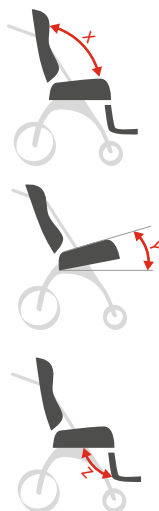
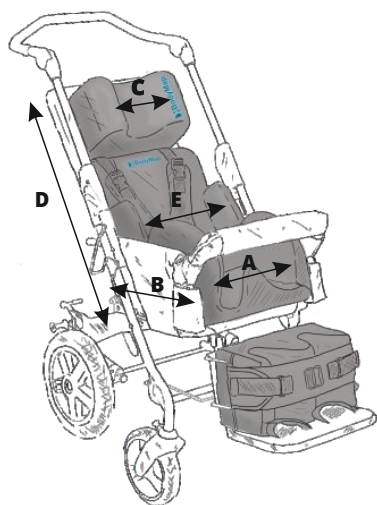
3.1 Standard equipment

1. Adjustable and ergonomically shaped handle
2. Backrest
3. BODYMAP A+
4. BODYMAP B+
5. BODYMAP D
6. 4 points vest
7. Safety rail
8. Footrest with stabilizing belts
9. Clip for backrest angle adjustment
10. Folding mechanism
11. Safety frame
12. Pump
13. Pumped wheels
14. Front PU wheels with direction blockade
15. Electric dual-function pump
16. Leg separator equipped with shin belt





4 SIZE TABLE



Symbol	Measurement	Unit	Size 0	Size 1	Size 2	Size 3
A	Seat width (with BodyMap A+)	[cm]	24	27	30	37
B	Seat depth (with BodyMap A+)	[cm]	36	42	42	42
C	Headrest width (BodyMap D)	[cm]	15	18	20	20
D	Backrest height (with headrest BodyMap D)	[cm]	66-70	70-74	74-78	74-78
E	Backrest width (with BodyMap B+)	[cm]	26	28	33	37
	Footrests length	[cm]	30-33	31-36	37-45	37-45
	Footplate length	[cm]	20	20	22	22
	Push handle height	[cm]	106	106	106	106
X	Backrest tilt angle	[°]	90-125	90-120	90-145	90-145
Y	Seat tilt angle	[°]	10	10	15	15
Z	Footrests tilt angle	[°]	95-120	95-120	100-125	100-125
	Maximum user weight	[kg]	35	50	60	60
Product dimensions and weight			Size 0	Size 1	Size 2	Size 3
	Width	[cm]	63	65	68	74
	Lenght	[cm]	107	128	145	145
	Height	[cm]	106	106	106	106
	After folding width	[cm]	63	65	68	74
	After folding length	[cm]	105	113	125	125
	After folding height	[cm]	50	52	58	58
	Weight	[kg]	23	25	28	33





5 DESCRIPTION HOW TO USE STROLLER

5.1 How to unfold stroller

Follow these steps so as to unfold stroller:

STEP 1. Release clip that regulates backrest's tilt angle (fig.1), pull backrest (2) as backwards as possible (fig.2) and then block it with the aid of clip.





STEP 2. Pull handle backwards until elements of folding mechanism are slammed (fig.3). It is highly important to make sure that safety frame is lifted before folding mechanism is slammed. Next, move safety rail down (fig.4) once folding mechanism is slammed.



STEP 3. Mount safety rail: place it on stroller frame and block it by pressing simultaneously buttons that are situated on both sides of rail (fig.5);





6.2. How to fold stroller

Please follow these steps so as to fold the stroller:

STEP 1. Dismantle safety rail by releasing buttons that are situated on both sides of rail. Next, pull out rail from stroller frame (fig.6);

STEP 2. Pull elements of folding mechanism (fig.7);

STEP 3. Lift safety rail and push simultaneously stroller handle (fig.8,9))



fig.6

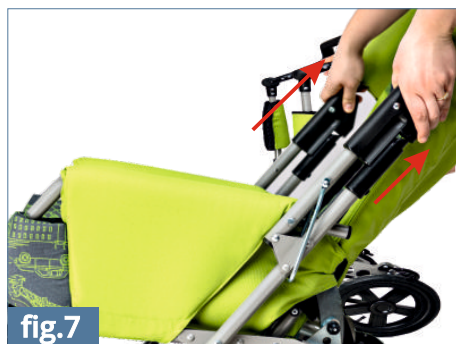


fig.7



fig.8



fig.9





STEP 4. Release clip from backrest's tilt angle (fig.10) and push backrest (2) as forwards as possible (fig.11)



5.3. The adjustment of footplate length (9)

Please follow these steps so as to adjust footplate length:

STEP 1. Remove quick couplings situated on both sides of footplate (fig.12);

STEP 2. Adjust the height of footplate at your discretion (fig.13)

STEP 3. Insert quick coupling into holes.





5.4. The adjustment of tilt angle

Please follow these steps so as to adjust backrest's tilt angle:

STEP 1. Loosen clip from the adjustment for backrest tilt angle (fig.14);

STEP 2. Hold backrest and adjust it at your discretion;

STEP 3. Block clip



5.5. The adjustment of footplate tilt angle

Lift slightly footplate so as to release footplate support from catches. Adjust tilt angle at your discretion and block footplate support in suitable catches (fig.15)



5.6. Feet stabilizing belts

Feet stabilizing belts are equipped with Velcro tapes which make it easier to adjust them to patient's foot (fig.16).





5.7 Vest

Connect clamps from vest with clamps from adjustable belts that are fastened both at the bottom and top of backrest (4 pcs.). Next, adjust vest to patient's body with the aid of belts.

It is highly important to adjust properly vest due to the fact that it protects the patient from falling out of the stroller and, moreover, patient can move without freely.



CAUTION! Each time before using vest, you should check if:

- Buckles do not stretch of the pressing force
- Buckles and belts do not move as a result of improper attachment

5.8 Wheel

RACER EVO BODYMAP™ special stroller is equipped with rear inflatable wheels and front PU swivel with direction blockade which are blocked with the aid of catch. It is possible to order PU rear wheels. In case of transportation, rear wheels can be dismantled: undo nuts and remove wheels from axle. Recommended pressure in tyres: 230 KPa (0,23 MPa)



CAUTION! Remember to comply with the guidelines concerning air pressure. If air pressure is not proper, it results in damages or even accident.



CAUTION! Do not lubricate the wheel bearings.





5.9 Hand brake

Stroller is equipped with two independent brakes for rear wheels

Press brake's lever (fig.17) so as to block rear wheels. Raise lever in order to unblock wheels.



fig.17

5.10 Safety rail

Chapters 'How to fold stroller' and 'How to unfold stroller' describe both assembly and disassembly of safety rail.

5.11 Adjustable handle

Handle can be regulated by pressing the buttons situated on both sides of the handle (fig.18). Release these buttons so as to lock the handle at the chosen height.



fig.18





5.12 Leg separator equipped with shin belt

5.12.1. Place the separator on the foot plate and fix under the plate using velcro tapes.



fig.19



fig.20

5.12.2. Please follow fig.21-23 to know more how to fix the shin belt.



fig.21



fig.22



fig.23





6 THE ADJUSTMENT OF BODYMAP CUSHION



Special Leeds stroller **RACER EVO BodyMap™** is a special version of the Racer Evo on which you can install BodyMap cushions. Special upholstery was equipped with firm Velcro tapes on which we can fixed the **BodyMap** cushions. Cushions was designed and are dedicated for Racer Evo.

In standard **RACER EVO BodyMap™** consists of 3 BodyMap cushions:

- ➔ **BODYMAP A+** - Sitting positioning cushion with thigh abductor wedge and lateral supports;
- ➔ **BODYMAP B+** - Backrest cushion with lateral supports;
- ➔ **BODYMAP D** - Headrest.

As accessories you can find in our offer: cotton cover in few different colours, Vismemo cover and aerating messaging pad.

Important: For correct stabilization of the patient in **BodyMap** cushions you need to pre shape it according to instruction you can find in **BodyMap** instruction manual. For more information you can also visit our YouTube channel where instruction movies can be found





7 THE USE OF STROLLER



CAUTION! RACER EVO BODYMAP™ stroller has to be used with compliance to guidelines included in this user manual. Remember to use the product only with someone who is trained and knowledgeable. Do not forget to prepare both product as well as patient before using **RACER EVO BODYMAP™** stroller!

7.1. Preparation of the patient

Before using the product, it is essential to make sure that:

- patient's outfit is light and comfortable sporty clothes are advisable;
- shoes should be comfortable and, moreover, they should stabilize ankle;
- due to hygienic reason and to avoid abrasion it is advisable for the patient to always wear clothes when using the device, skin must not be naked especially in places of regular contact with upholstery;
- drains, bags, catheters etc. if applied, have to be secured to function properly and not to disturb during using the product;
- if it is necessary for a patient to wear orthopedic supply (collar, corset, orthosis, shoes) if it is recommended by doctor.



CAUTION! Outfit should protect patient's skin from direct contact with upholstery as well as other parts of equipment.

CAUTION! Only doctor can make a decision concerning using any kind of orthopedic supply!





7.2. How to use stroller

1. Before use it is necessary to:
 - Unfold the device;
 - Place the device on even ground;
 - Make sure that all parts are serviceable, correctly mounted and stable;
 - Block brakes;
 - Adjust the device to patient's measurements;
 - Undo vest, trunk belts etc so as to place easily the patient in the device;
 - Place patient in the device;
 - Fasten all elements which stabilize patient e.g. vest, trunk belts, feet stabilizing belts etc.;
 - Mount additional equipment e.g. tray.
2. In case of patients who have problem with bladder, it is necessary to put special cloth on seat. This cloth can be purchased in pharmacy or medical shops.
3. It is essential to hold stroller with the aid of handle during using it otherwise stroller can roll.
4. Remember to place stroller forwards
5. In case of any obstacles such as step or curb, it is necessary to raise front wheels by pressing the handle down . Next, place front wheels on step and then raise back part of stroller with the aid of handle.



CAUTION! Before the product is used, it is highly necessary to make sure that all belts as well as safety equipment are correctly fastened as well as adjusted. What is more, check if they do not become undone due to the pressure and, moreover, make sure that clampings from adjustable elements are firmly tightened!





Equipment works correctly only when the device is adjusted according to patient's height as well as weight. Remember to take all these measurements into account while purchasing the product. Correct adjustment is the most important due to the fact that only then the product is safe. It is forbidden to force child to keep specific position because he/she will feel uncomfortable and it may lead to wrong posture.

8 SAFETY RULES



CAUTION! RACER EVO BODYMAP™ stroller has to be used in compliance with guidelines in this user manual.

It is highly important to consult either doctor or physiotherapist in order to make right decision concerning the choice of stroller and its size. It is also essential to familiarize with the guidelines described in user manual before using the device.

1. Before use it is necessary to:

- make sure that there are no damages or different faults which could endanger patient's life; check if all parts are working and are correctly mounted and, moreover, check if they are not broken;
- check if all screws, knobs and all glued, sewed or tapped parts are tightened;
- check if brakes are operating correctly;
- check if buckles are operating correctly;
- always use safety belts, Velcro tapes should overlap min. 8cm;
- adjust the device according to patient's measurements and needs e.g. the adjustment of pelottes, footplate etc.;
- make sure that all movable parts and knobs for adjustments are stable and locked;
- secure patient with the aid of elements such as vest, foot stabilizing belts, pelottes, abduction block, headrest. It is highly important to secure patient because it safeguards him/her from falling out. If abduction contracture occurs, it is recommended to use abduction block in order to prevent ulcers between knees.





2. It is forbidden to use stroller for different purposes that it is intended to.
3. It is forbidden to use stroller when it is damaged or any part is missing.
4. It is forbidden to leave the patient unattended.
5. Stroller should be used only when there is someone who is trained and knowledgeable.
6. It is forbidden to leave stroller and the patient on unstable ground unattended, even if the brake is engaged.
7. It is forbidden to either go up or down the stairs; it doesn't matter if the patient is placed in the device or not.
8. It is important to engage brake during getting into and getting out the stroller.
9. Make sure that all limbs are not close to spokes or other adjustable elements.
10. Please pay your attention when approaching to sources of fire or sources of high temperature during using the device. Moreover, stroller shouldn't be stored in rooms with high humidity.
11. Secure stroller during transportation in order to avoid any possible damages. Manufacturer doesn't take responsibility for damages which appeared due to improper preparation of the device during transportation.
12. Before using the stroller, remove all paper and plastic packaging. The packaging is not a toy! Keep away from children and animals.



CAUTION! Incorrect product adjustment can lead to such side effects as fainting, body deformities, joint overload, etc. If the abovementioned symptoms occur, stop using the product immediately, take the user out of the product and lay them down. If the undesirable symptoms persist, contact a physician immediately. If the symptoms have disappeared, inform the attending physician about this fact in order to make a decision about the further rehabilitation process.





CAUTION! It is forbidden to place the patient in the device while being in car, bus or train.

CAUTION! The product contains small parts which children may swallow.



CAUTION! It is forbidden to make any changes concerning stroller's structure due to the fact that it is dangerous and it results in losing warranty.

CAUTION! The weight of user should not be bigger than maximal weight described on page 7 where you will find information regarding this issue.

CAUTION! Serious incidents involving this device should be reported both to manufacturer and to the competent authority in your country.

- 1) AKCES-MED Sp. z o.o. sells products free from manufacturing defects or faults.
- 2) Manufacturer gives the purchaser 24-month guarantee from the date of purchase. All defects revealed during warranty period will be repaired free of charge.
- 3) All defects which appear after warranty period can be repaired only when the user will pay for it. This rule doesn't apply to refunded products - user can ask National Health Refund for refund.
- 4) Manufacturer claims that the product can be used for 48 months. User can use this product after this period only when he/she will send the device to manufacturer so as to service it. Next, manufacturer determines again how long the product can be used and, moreover, the date of the next service will be determined.
- 5) If product is damaged, please contact our dealer or AKCES-MED customer service (ph. 17/864 04 70)





9 MAINTENANCE AND CLEANING

Stroller should be kept clean and used in compliance with the manufacturer's recommendations. The device should be kept in clean, dry and ventilated room. Maintenance as well as cleaning have to be performed at least once a month. Regular cleaning and maintenance of stroller are indispensable to maintain its correct functionality as well as safety.

It is highly advisable to remember about proper maintenance in order to extend product's aesthetics. So as to do that, it is essential to comply with these guidelines:

1. It is recommended to clean upholstery with the aid of cleaning product, soft sponge and warm water. If you use sponge which is too wet, stain may get bigger, upholstery may be destroyed. It is necessary to remember that the excess of dampness should be removed from fabric before next cleaning. Please rinse upholstery with warm water and clean white cloth once stain is removed.
2. It is forbidden to soak upholstery!
3. It is forbidden to clean upholstery with the aid of hard brushes.
4. It is forbidden to clean upholstery with strong chemical agents such as solvent or caustic chemicals.



CAUTION! Akces-MED. Sp z o. o takes no responsibility for damages caused by use of wrong clearing agent.

5. It is forbidden to soak upholstery during cleaning. Remember that upholstery has to be always dry before using.
6. It is forbidden to clean, make any changes and maintain wheelchair during using it.
7. All metal as well as plastic elements should be cleaned by hand with the aid of general cleaning products. Remember to familiarize yourself with cleaning product's leaflet.





CAUTION! Remember that upholstery has to be always dry before using!

Before using it is necessary to:

- clean wheels;
- check if base as well as wheels are correctly mounted; check if brake stops turning wheel;
- make sure that all wooden parts e.g. tray don't have splinters;
- check if wheelchair construction is free of breaks or any kinds of deformities;
- check if all movable parts are working and all screws, nuts, knobs etc. are correctly tightened;
- check if belts, vests, trunk belts, feet stabilizing belts etc are not frayed; check if buckles and clamps work correctly.



CAUTION! Manufacturer takes responsibility only for hidden faults or damages which appeared despite the fact that user complied with the guidelines.

CAUTION! In case of any damages, it is essential to contact the person who sold you the product.





TECHNICAL INSPECTION

Technical inspections should be performed regularly. Before servicing, the product should be thoroughly cleaned to reveal any hidden damage.

Frequency	What should be checked? What should be done?		Remarks
Before each use.	General condition of the product.	Check: <ul style="list-style-type: none"> the entire product for any visible damage, cracks or mechanical defects,, if the product complete, if all bolts, screws, knobs, nuts and other elements of the construction are complete and tightened.. 	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Wheels and brakes.	Check: <ul style="list-style-type: none"> if the wheels are properly mounted and if they are not damaged, if the brake is blocking the spinning wheel, if the wheels are not dirty. If necessary, clean the wheels. 	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Fastening of the construction elements.	Check all the mechanisms of the product and its moving parts. Check in particular: <ul style="list-style-type: none"> if the seat is properly mounted (if applicable), if the wheels are properly mounted (if applicable), if the elements securing the user are properly mounted and if they work well (if applicable), if all the moving parts are complete, work properly, do not jam, if the adjustment mechanisms of the following elements work properly (if applicable): headrest, backrest, seat, abduction block, armrests, footrests. 	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Upholstery elements.	Check: <ul style="list-style-type: none"> if there is any damage, tears, rips, loose seams or deformations on the upholstery elements, if the stabilizing straps, vests or safety belts are not frayed or twisted and if the buckles work properly, if the stabilizing straps, vests or safety belts work correctly and do not unfasten under pressure or when pulled. 	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
Once a week.	Product cleaning.	If the frame and upholstery get dirty (dusty, muddy, etc.) during everyday use, wipe them with a damp cloth without detergents. Remove dirt (e.g. hair, food remains, etc.) from the moving parts of the product.	The product should be cleaned when necessary, but at least once a week. Do not use any chlorine based cleaners or methylated spirit. Before using the product, check if the upholstery is dry.





Frequency	What should be checked? What should be done?		Remarks
Once a month.	Wheel axles, quick connectors (if applicable).	Check: <ul style="list-style-type: none">• if the wheels are rolling and if they are not loose. To maintain the wheels, apply a small amount of a preservative-lubricant between the axle and the wheel hub. Check if you can easily remove and attach the wheels.	Clean the wheels when dirty. In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Product construction connectors (welding, threading, soldering)	Check: <ul style="list-style-type: none">• the condition of the product frame in the places of joining (welds, threads, soldering).	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Tires/innertubes (if applicable).	Check: <ul style="list-style-type: none">• tire wear condition. Check for visible damage. Check tire pressure (if applicable).	If the tire pressure is too low, inflate them to the correct level. In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
Once every 6 months.	Construction moving parts.	Check: <ul style="list-style-type: none">• if the moving parts of the construction have not been damaged. Maintain them using a proper cleaning agent.	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Product labeling.	Check: <ul style="list-style-type: none">• if the marking and labels are readable.	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
After the life time of the product finishes.	Detailed product check.	Check the product.	The manufacturer specifies the life time of the product, which is given in the user manual. After the given period, the user may use the product only if it is sent back to the manufacturer to be checked first. After that, the manufacturer will re-define the life time of the product and the date of the next check.

The list of all spare parts is available for download after selecting a product on www.akces-med.com.





12 LABELLING

12.1. Symbols

	Declaration that the product meets the essential requirements		Protect from sunlight
	Catalog number		Storage temperature limitation
	Serial number		Relative humidity storage
	Please read the manual instructions before use		Dry vertically
	Attention!		Do not chlorinate
	Producer		Do not iron
	Production date		Do not dry in a drum dryer
	The product does not contain		Do not bleach
	Store in a dry place		Careful! delicate content
	Prohibition of use without fastened safety belts		Prohibition to leave the patient without care during use of the product
			It is forbidden to either go up or down the stairs; it doesn't matter if the patient is placed in the device or not.

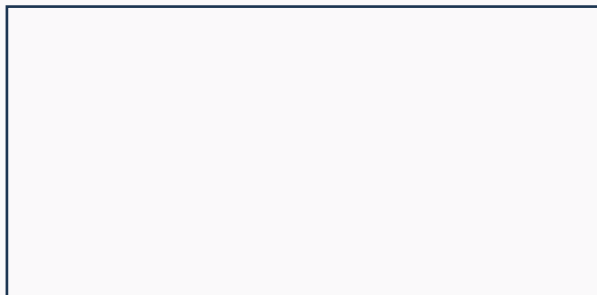


MANUFACTURER



Akces-MED Sp. z o.o.

Jasionka 955B
36-002 Jasionka
tel. (17) 864 04 70
e-mail: export@akces-med.com
BDO: 000031619



Authorised Dealer



akces-med.com

Date of issue: 13.09.2016
The last update: 20.05.2021
© Sławomir Wroński 2021