



SPECIAL NEEDS STROLLER
MAMALU™



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.

**MEDICAL
DEVICE**
CLASS 1

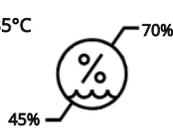
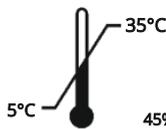


**WYRÓB
MEDYCZNY**
KLASA 1

Medical product first class according to the Regulation 93/42/EEG of European Parliament and Council regarding medical products. For this product the producer issued relevant declaration of conformity.



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.



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INTRODUCTION

Dear Customers,

We value your trust in our company and would like to thank you for choosing our product.

Before using the stroller, read this user manual which is essential for proper and safe usage of the stroller.

Modern and practical with unique design – **MAMALU™** is a stroller created for the youngest users, which will work perfectly in all conditions. Its construction is based on a light and durable umbrella frame which means that it folds easily and quickly, and its small dimensions make it easy to transport after folding.

MAMALU™ grows together with your child due to the wide range of adjustments the stroller is equipped with. The headrest and the 5-point safety belts can be mounted at different heights, the seat has an adjustable depth and there are three levels of height adjustment of the footrest. Using the stroller is great pleasure. Independent shock absorbers and swivel PU wheels make the **MAMALU™** stroller extremely maneuverable. Comfort and convenience are provided by a reversible pad COMFORT, which is covered with soft, skin-friendly MINKY fabric on one side, and waterproof fabric on the other.

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

Medical consultant: mobile +48 508 382 509

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e-mail: export@akces-med.com

Thank you for purchasing our product



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



This instruction manual contains basic information necessary to properly:

- prepare the stroller before use,
- use the stroller
- maintain and clean the stroller

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

2. INDICATIONS FOR USE

The **MAMALU™** stroller is intended for users who require a comfortable means of transport. This group includes children who, as a result of illness or injury, have limited (temporarily or permanently) abilities of independent walking.

This stroller is recommended for children in the following cases:

- high motor level III-V on the GMFCS scale;
- various types and forms of cerebral palsy;
- increased or decreased central and / or peripheral muscle tone;
- developmental delay in physical and / or mental aspect.



3. GENERAL CHARACTERISTICS OF STROLLER

3.1 STANDARD EQUIPMENT

- ① Foldable umbrella frame with seat depth adjustment,
- ② Push handles,
- ③ Front swivel PU wheels with direction blockade,
- ④ Rear PU wheels with independent brakes,
- ⑤ 5-point safety belts,
- ⑥ Adjustable footrest,
- ⑦ FLEX upholstery.





3.2 ACCESSORIES



MML_001



LED lights



MML_013



Safety rail



MML_101



Thigh abduction belts



MML_104



Adjustable headrest



MML_114



H Harness



MML_128



Abduction block



MML_130



4 points safety vest



MML_148



High lateral supports



MML_402



Umbrella



MML_403



Tray



MML_405



Flooding canopy



MML_408



Rain cover



MML_409



Mosquito net



MML_411



Cup holder



MML_445



Footmuff







4. SIZE TABLE



SIZE TABLE

Symbol	Measurement	Unit	Size 1
W	Indicative user height*	[cm]	90-130
A	Seat width**	[cm]	38 (32)
L	Seat depth	[cm]	22, 28
C1	Backrest height	[cm]	60
C	Headrest height	[cm]	40-55
E	Backrest width**	[cm]	38 (32)
F	Footrests length	[cm]	18, 24, 35
	Push handle height	[cm]	114
X	Backrest tilt angle	[°]	95
Y	Seat tilt angle	[°]	25
	Maximum user weight	[kg]	35

*The value cannot be main factor for selection of product size

**High rigid trunk supports narrow the seat / backrest by 6 cm to 32 cm.

WEIGHT AND DIMENSIONS

Measurement		Size 1
Width	[cm]	55
Width after folding	[cm]	28
Length	[cm]	102
Length after folding	[cm]	130
Height	[cm]	118
Height after folding	[cm]	33
Weight	[kg]	10,8

Note: Measurement tolerance range is +/- 1 cm / ½ in..

Note: Approximate values, depending on the product configuration.



5. HOW TO USE THE STROLLER

KEY



Info icon – appears in the manual when you need to read the additional information.



Warning icon – appears in the manual when you need to take **special precautions**.



5.1. FOLDING THE STROLLER



Keep the user away from the moving parts when folding and unfolding the stroller. There is a serious risk of injury.







5.2. UNFOLDING THE STROLLER



Before placing the child in the stroller, make sure that the front strut (fig. 16, 17) and back strut (fig. 18, 19) are completely unfolded.



5.3. FOOTREST ADJUSTMENT

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To change the height of the footrest, press the levers under the footrest, firmly pull the footrest up and then attach it at the desired height. The footrest is height-adjustable



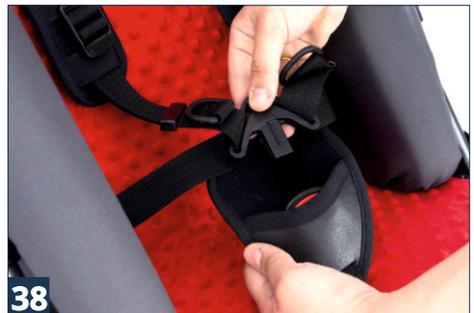


5.4. SEAT DEPTH ADJUSTMENT



5.5. 5-POINT SAFETY BELTS ASSEMBLY







Always make sure that the user has the 5-point belts properly fastened while using the stroller. In order to check that, pull the belts firmly in different directions and see if the belts do not unfasten.

6. ACCESSORIES

6.1. MML_148 HIGH LATERAL SUPPORTS



6.2. MML_013 SAFETY RAIL

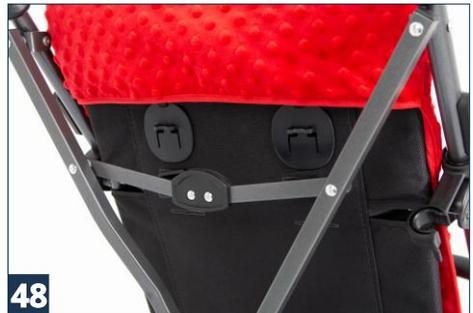




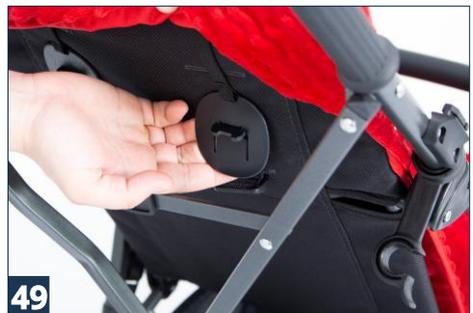
6.3. MML_104 HEADREST



To mount the headrest, place it on the backrest at the desired height and use the plastic fasteners to keep it in place.



To remove the headrest, pull the bottom part of the fastener firmly.





6.4. MML_405 FLODING CANOPY



6.5. MML_449 REVERSIBLE COTTON-WASHABLE PAD COMFORT



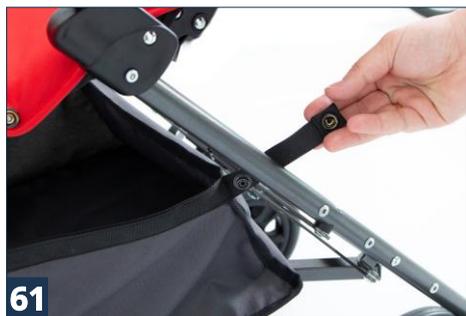
To put the reversible pad on the stroller, remove the 5-point safety belts and other elements fastened on the seat and backrest. The upholstery is attached to the stroller with the use of snap fasteners.



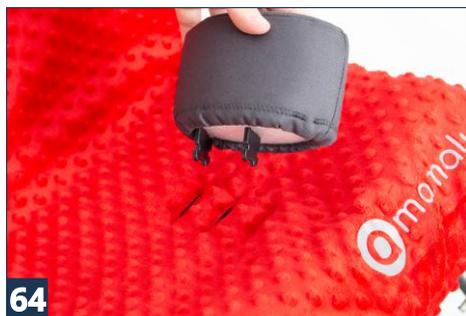
The pad COMFORT is reversible – it is covered with soft, skin-friendly MINKY fabric on one side and waterproof fabric on the other.



6.6. MML_505 UNDER SEAT STORAGE



6.7. MML_128 ABDUCTION BLOCK





7. THE USE OF STROLLER



MAMALU™ 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 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.



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

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

7.2. PREPARATION OF THE 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 safety belts or vest so as to place easily the patient in the device;
- Place patient in the device;
- Fasten all elements which stabilize patient e.g. vest, safety belts
- 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.



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. Be careful not to tilt the stroller back too much. Remember to place stroller forwards.

It is essential to hold stroller with the aid of handle during using it otherwise stroller can roll.

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.

7.3. HOW TO USE VEST



The vest provides posture support for wheelchair users as well as patients sitting in positioning chairs or other rehabilitation seats. When properly used, the vest allows the patient to adopt the correct sitting position for a longer period of time. The design and shape of the vest make it possible for the patient to be free to move their upper limbs within the constraints of the patient. **If the vest is not used properly, it can pose a serious threat to the health and life of the patient!**

Possible threats incident to the use of the vest:

- 1) If the lower vest straps are fastened too loosely, there is a risk that the vest will move upwards to the patient's neck, making it difficult to breathe** – always check the tension of the straps and set them in such a way that the lower edge of the vest is located near the lower abdomen of the patient.
- 2) In a situation when the patient slips off the seat, the upper edge of the vest covers the patient's neck and blocks the trachea, making it difficult to breathe** – it is therefore necessary to ALWAYS use the accessories stabilizing the patient's pelvis, such as a pelvic belt, thigh abduction belts or an abduction block.
- 3) There is a risk that the upper straps of the vest will press the patient's neck, blocking the trachea and making it difficult to breathe.** This might happen if the patient's body is improperly secured in the seat or stroller – it is then necessary to use the optional accessories of these devices and stabilize the patient's body using the lateral supports. If there is no possibility to use such accessories with the device and the patient's body cannot be properly stabilized, the device should be replaced with the one having such an option.
- 4) The vest is fastened too tightly to the backrest and as a result the patient cannot breathe easily** – in this case the vest should be loosened in such a way that it is possible for the caregiver to insert a straightened hand between the vest and the patient's body. If, however, we want to stabilize the patient's body properly, we should use a dynamic orthopedic vest, e.g. a Flex-point vest, which does not cause the breathing difficulty for the patient.

Instructions for the proper use of the vest:

- 1) Make sure that the patient is sitting in the best possible position:
 - in the middle of the seat,
 - deeply in the seat in such a way that the patient's lumbar spine rests against the backrest.
- 2) Secure the patient's pelvis with, for example, a pelvic belt, thigh abduction belts or an abduction block.
- 3) Make sure that the side supports of the device, if used, are set in the correct position. It is required that the patients with the poor trunk control use the side supports. The side supports limit the lateral movements of the patient's body, which could lead to the compression of the vest straps on the neck of the patient.
- 4) Secure the vest:
 - fasten and adjust the lower straps of the vest, so that the lower edge of the vest is located near the lower abdomen of the patient,
 - fasten the horizontal strap of the vest (if present),
 - fasten the shoulder straps of the vest,
 - check if the buckles of the vest do not open under pressure.
- 5) Check the patient's position:
 - make sure that the vest cannot move by itself towards the patient's neck,
 - make sure that you can insert a straightened hand between the vest and the patient's body.

To prevent injuries and to minimize the risks associated with the use of the vest, the following rules should be followed:

- 1) The position of the vest MUST be checked each time after putting the patient in the seat.
- 2) Special attention should be paid to protecting the patient from falling forward, slipping off the seat or lifting the pelvis. The vest MUST be used with the accessories which will secure the patient's pelvis at all times (e.g. the pelvic belt, thigh abduction belts or the abduction block). The use of the vest cannot be considered separately but as a part of a general posture support system including supports such as pelvic belts, foot support, torso stabilization, thigh abduction belts, tilt-in-space position and reclining backrest.
- 3) Special attention should be paid to ensuring that the entire foot of the patient has stable support. If the device is not equipped with a foot support, the patient's feet must rest firmly against the ground.

- 4) It should be remembered that any change of the inclination angle of the backrest, seat, foot support or tilt-in-space function might affect the effectiveness of the belts and supports!
- 5) Special attention should be paid to the use of stabilization elements or side supports. If the patient has poor trunk control, the side supports will limit the lateral movements, which could lead to the compression of the vest straps on the neck of the patient.
- 6) The mounting of the vest and adjusting it to the patient can only be carried out by a suitably trained person, who is familiar with the instructions for the use of the vest and the rules of its safe use.
- 7) Do not make any repairs or modifications to the vest on your own. In order to repair or replace any part of the vest, please contact the manufacturer.
- 8) Do not use a damaged or incomplete vest, as this poses a serious threat to the health and life of the patient!
- 9) Do not leave the patient in the device unattended!
- 10) The correctness of the use of the vest should be particularly controlled in accordance with the recommendations in case of children, patients with impaired memory or mentally ill.
- 11) Make sure that all people taking care of the patient are familiar with the rules of the safe use of the vest.

How to care for the vest:

The vest works effectively only if kept clean and maintained in accordance with the manufacturer's instructions. Before each use of the vest, check whether:

- 1) The vest straps are not frayed or worn. If so, have them exchanged for new ones,
- 2) The vest straps are not attached to the wheels of the device,
- 3) The buckles are not damaged. If so, have them exchanged for new ones,
- 4) The Velcro fastening holds firmly. If not, remove any dirt or hair from the Velcro, or have it replaced with a new one,
- 5) There have been no changes in the patient's height or weight from the moment the vest was adjusted to the patient,
- 6) The shoulder straps of the vest are adjusted so that they are not too loose or too tight,
- 7) The vest should be cleaned regularly with the use of warm soapy water and dried out of the direct sunlight and other sources of heat. The vest must always be dry before usage.

If you have any doubts or questions about the use of the vest, please contact your doctor or physiotherapist.

8. SAFETY RULES



MAMALU™ 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 than it is intended for.
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 of the stroller.
9. Make sure that the user does not stand on the footrest when getting in and out of the stroller.
10. Make sure that all limbs are not close to spokes or other adjustable elements.
11. The stroller should be stored and used away from sources of fire or high temperature. Moreover, stroller shouldn't be stored in rooms with high humidity.
12. 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.
13. Before using the stroller, remove all paper and plastic packaging. The packaging is not a toy! Keep away from children and animals



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

The product contains small parts which children may swallow.

Do not use a product that has any signs of damage, tearing or wear. Only an undamaged product and proper use guarantee its right and safe working. If the product is damaged, discontinue use and contact the manufacturer.

Under no circumstances should an unqualified person repair or alter the product and its construction, as the health and safety of the user depend on it as well as it will lead to the loss of warranty.

Remember that all the loads hung on the push handle may cause the stroller to lose its balance.

The weight of user should not be bigger than maximal weight described on page 9 where you will find information regarding this issue.

9. TERMS OF WARRANTY

- 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.
- 3a) The stroller is covered by a 36-month warranty on the territory of Canada – the details of the rights resulting from the extended warranty are regulated by the warranty card.
- 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 Sp. z. o. o customer service (ph. 17/864 04 70, e-mail: export@akces-med.com)



10. MAINTENANCE AND CLEANING

The stroller **MAMALU™**, which is a medical device, should always be kept clean and should be used in accordance with the manufacturer's instructions. The stroller should be kept in a clean, dry and ventilated room. Maintenance and cleaning must be done at least once a month. Periodic cleaning and maintenance of the chair is essential to keep its proper functioning and safety.

Recommendations for cleaning the upholstery and other elements of the stroller:

1. Wash with warm water using a soft cloth and mild cleaners.
2. Make sure the cloth is not too wet, as this may enlarge the stain and damage the upholstery or foam inside the upholstery.
3. Remember to remove excess moisture from the upholstery before the next cleaning.
4. After cleaning the stains, the upholstery should be rinsed with lukewarm water and dried with a clean cloth.
5. You must not soak the upholstery.
6. The upholstery must not get wet during cleaning.
7. Do not use hard brushes for cleaning the upholstery.
8. Do not clean the upholstery with strong chemicals, e.g. solvents or chlorine-based caustics.
9. Do not clean, replace any elements or maintain the chair during use.
10. Metal and plastic elements should be cleaned by hand with suitable cleaners, after having read the recommendations of the manufacturer of the given cleaner.



The manufacturer of the stroller, Akces-MED Sp. z o. o., is not responsible for any damages caused by using unsuitable cleaners.



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;
- 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.



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

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





11. LABELLING

11.1. SYMBOLS

-  Declaration that the product meets the essential requirements
-  Catalog number
-  Serial number
-  Please read the manual instructions before use
-  Do not iron
-  The product does not contain latex.
-  Store in a dry place
-  Careful! delicate content
-  Protect from sunlight
-  Storage temperature limitation
-  Relative humidity storage
-  Do not chlorinate
-  Do not dry in a drum dryer

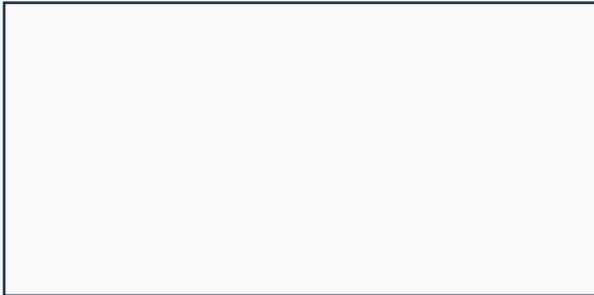
-  Do not bleach
-  Dry vertically
-  Prohibition of use without fastened safety belts
-  Prohibition to leave the patient without care during use of the product
-  It is forbidden to either go up or down the stairs; it doesn't matter if the patient is placed in the device or not.
-  Manufacturer
-  Production date
-  You need to read the additional information.
-  You need to press the button shown in the photo.
-  You need to use the tools indicated in the assembly description.
-  You need to take special precautions.



MANUFACTURER

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Authorised Dealer



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