



MULTIFUNCTIONAL STANDER

DALMATIAN INVENTO™



USER MANUAL





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

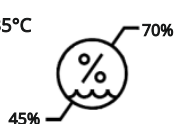
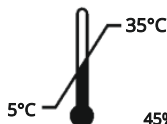
Akces-MED Ltd. reserve the right to introduce technical and trading changes in the content of the instruction without warning.



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.....	7
3.1 Standard equipment.....	7
3.2 Additional equipment.....	8
4. Size table.....	9
5. Detailed description on how to use multifunctional stander	10
I. POSITIONING CHAIR.....	10
II. LYING FUNCTION.....	17
III. STANDING FRAME.....	18
6. Additional equipment.....	20
6.1 Footers with adjustment.....	20
6.2 Cushions for upper limbs support	20
6.3 Independent adjustable side pelottes.....	21
6.4 Adjustment of thigh abduction belts.....	21
6.5 Head stabilizing belt.....	22
6.6 Soft cover for tray.....	21
6.7 H harness.....	23
6.8 6 point harness.....	23
6.9 Tray for manual therapy	23
7. The use of multifunctional stander	25
7.1. Preparation of the patient.....	25
7.2. How to use multifunctional stander	26
7.3. Upright position	27
7.4. How to use vest.....	29
8. Safety rules.....	32
9. Terms of warranty	34
10. Maintenance and cleaning	35
11. Labelling.....	39





INTRODUCTION

DALMATIAN Invento™ is widely used in the process of rehabilitation. It is recommended for not only children but also young people. It is used as a rehabilitation chair during adopting the sitting position and then as a static standing frame in the further process of rehabilitation. Besides, it can be a lying function during the whole process. This device is equipped with the gas spring thanks to which both therapists and care takers can put the child in upright position without removing him from the chair. This multifunctional device completes the process of rehabilitation due to adjustment and equipment. Upright standing may be performed from 0 to 90 degrees. Moreover, safety vest and pelvic belt are equipped with innovative "hold & pull"© system which allows for quick and precise stabilization of the child in the device. As far as this product is concerned, it is created from ecologic materials and it is hand painted.

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





1 THE PURPOSE OF USER MANUAL



The present user manual contains basic information which is essential for :

- preparation before use,
- proper usage,
- maintenance, cleaning and guarantee conditions.

User manual should be kept in easily accessible place. It is designed for people who look after the disabled , and for both doctors as well as physiotherapists who operate the device. Before using the **DALMATIAN INVENTO™** standing frame, user is obliged to familiarize himself/herself with user manual.

2 INDICATIONS AND CONTRINDICATIONS FOR USE

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

It is recommended for children 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:

While standing upright, the user who is in a standing position should be closely monitored. The therapy should be discontinued in case of such side effects as: turning pale, sweating or fainting, joint strain and the resulting deformities of the body. Further proceeding should be consulted with the medical specialist or a physiotherapist who prescribed the treatment. The critical condition of the user is an absolute contraindication to standing upright.

- Relative contraindications for upright standing are: arterial hypertension at rest above 200/110 mmHg, pulmonary hypertension, cardiac arrhythmias, unstable asthma, unstable metabolic disorders, moderate heart valve disease.
- Any condition, such as a healing fracture or severe osteoporosis, that makes it impossible to bear the user's own bodyweight.
- Bone fracture with incomplete union, unless approved by a doctor.
- Postoperative restrictions on joint loading.
- Pain while standing in the standing frame (caused by subluxation or dislocation of the hip joint, overstretching of soft tissues or excessive pressure). Subluxation or dislocation of the hip joint in the absence of pain is not a contraindication.

People with significant flexion in the hip or knee joints, as well as with contractures in the ankle joint, may not be able to use the standing frame. Make sure that the position of the user in the standing frame does not cause excessive pressure or stretching of affected areas of the body. In such cases, standing upright may be contraindicated until a greater range of motion is achieved in the contracted joints.

In case of people with impaired cardiovascular system (arterial hypertension at rest above 200/110 mmHg, pulmonary hypertension, cardiac arrhythmias, moderate heart valve disease); respiratory system (unstable asthma) and unstable metabolic disorders, it is necessary to monitor the user while standing in order to prevent serious complications.





3 GENERAL CHARACTERISTICS OF STANDER

3.2. Standard equipment



1. Frame with castors and brakes
2. Independently adjustable footrest
3. Deep adjustable seat
4. Chest support (size 1, 2), Independently adjustable chest and pelvic support (size 3)
5. Tray
6. Forearm supports
7. Adjustable HexagonPro™ Headrest
8. Pelvic belt ('hold & pull' system)
9. Backrest
10. Gas spring
11. Removable and adjustable abduction block, Knee support
12. 4 points safety vest ('hold & pull' system)
13. Breathable upholstery ATMO™, SIZE 1 GRASS, SIZE 2 SEA, SIZE 3 LATE



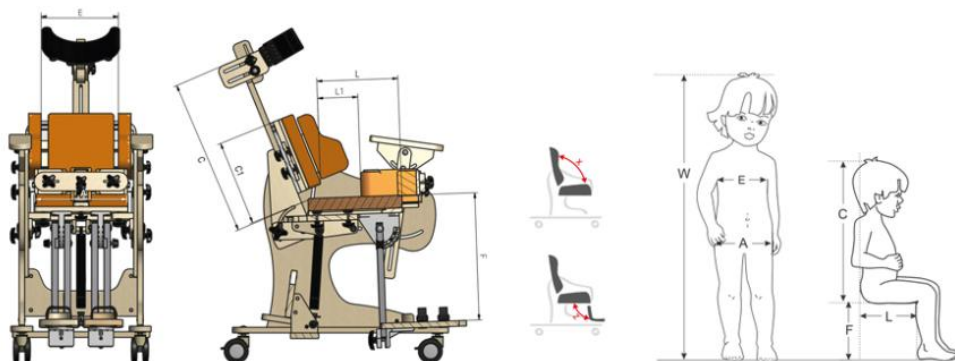


3.2. Additional equipment

  DMI_002	  DMI_003	  DMI_015 DMI_020 DMI_016
Belt for moving patients	Soft cover for tray	Tango wheel 75/100/125 mm
  DMI_101	  DMI_102	  DMI_103
Thigh abduction belts	Head supporting belt	3D foot adjustment
  DMI_106	  DMI_109	  DMI_114
Lower limb supporting cushion	Independently adjustable side supports	H Harness
  DMI_123	  DMI_125	  DMI_126
Adjustable extended headrest	6 points safety vest	Trunk belt
  DMI_401	  DMI_431	  DMI_507
Tray for manual therapy	Push handle	Oxygen tank holder



4 SIZE TABLE



Symbol	Measurement	Unit	Size 1	Size 2	Size 3
W	Indicative user height*	[cm]	<100	80-130	100-165
A	Seat width	[cm]	33	36	45
L	Seat depth	[cm]	16-25	20-31	27-42
C1	Backrest height	[cm]	28	35	40
C	Headrest height	[cm]	37-52	42-53	49-64
E	Backrest width	[cm]	13-23	18-26	18-32
F	Footrests length	[cm]	15-34	15-37	15-45
	Knee supports spacing	[cm]	18-26	21-29	25-37
	Knee supports height	[cm]	19-46	28-51	19-58
	Footplate length	[cm]	19	22	25
L1	Abduction block adjustment (from backrest)	[cm]	0-17	5-25	7-30
	Tray height	[cm]	67-80	74-97	95-112,5
	Stander tilt angle	[°]	-10 - +85	-10 - +85	-10 - +85
X	Backrest tilt angle	[°]	90-180	90-180	90-180
Z	Footrests tilt angle	[°]	90-180	90-180	90-180
	Maximum user weight	[kg]	25	45	60

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

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

WEIGHT AND DIMENSIONS OF THE DEVICE		Size 1	Size 2	Size 3
Width	[cm]	46	50	60
Length – chair function	[cm]	70	81	97
Height – chair function	[cm]	96	118	138
Weight	[kg]	22,5	27,5	43

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

Note: Approximate values, depending on the product configuration.





5 DESCRIPTION HOW TO USE MULTIFUNCTIONAL STANDER

I. POSITIONING CHAIR

5.1 The adjustment of seat

Please follow these steps so as to adjust the depth of seat:

- loosen 4 fastening knobs situated under the seat,
- adjust the depth of seat at your discretion,
- tighten knobs.



Please follow these steps so as to adjust the tilt angle of seat:

- press pedal situated at the back of chair and at the same time adjust the tilt angle of seat at your discretion,
- block seat, release pedal.

It is always better to adjust it when patient is placed in the device because his/her weight makes it easier to cope with spring force, otherwise you need to use more strength.





5.2 The adjustment of backrest's tilt angle

Please follow these steps so as to adjust the tilt angle of backrest:

- loosen fastening knobs,
- adjust the tilt angle of backrest at your discretion,
- tighten firmly fastening knobs.



5.3 The adjustment of trunk pelottes

Please follow these steps so as to adjust trunk pelottes:

- loosen 4 fastening knobs,
- adjust the width and the height of pelottes in compliance with patient's measurements,
- tighten knobs.





5.4 The adjustment of feet support

a) Please follow these steps so as to adjust the height of footers:

- loosen fastening knobs,
- adjust the height of footer at your discretion,
- tighten knobs.



b) Please follow these steps so as to adjust the tilt angle of footrest:

- loosen fastening knobs situated at the side of each footrest
- adjust the tilt angle at your discretion
- tighten knobs



5.4.1. How to adjust new generation footrest tilt angle

- Pull the lock pin on the footrest and adjust needed tilt angle
- Release the lock pin when the needed footrest position have been set up





5.5 Abduction block with knee support

a) Please follow these steps so as to adjust abduction block:

- loosen fastening knob,
- move abduction block either forwards or backwards,
- tighten knob.

a) Please follow these steps so as to mount knee support

- unscrew significantly fastening knob situated at the front of abduction block,
- insert knee support,
- tighten fastening knob.

b) Please follow these steps so as to adjust knee stabilizing pelottes

- loosen knobs fastenings knee pelottes,
- adjust the distance of pelottes at your discretion,
- tighten fastening knobs.





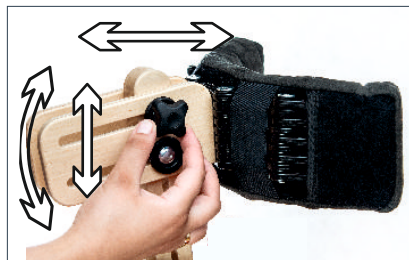
CAUTION! If vest and pelvic belt are mounted, it is necessary to make sure that

- buckles do not unfasten under pressure
- buckles do not shift due to incorrect assembly

5.6 The adjustment of headrest

a) Please follow these steps so as to adjust headrest:

- loosen fastening knobs situated at both sides of headrest,
- adjust headrest,
- tighten firmly fastening knobs.



b) Next, it is important to:

- loosen screws from headrest's ribbing with the aid of Allen key,
- adjust the shape of headrest at your discretion,
- tighten firmly screws.



HexagonPro® Headrest

The headrest may be adjusted with Allen key. You can also change the width of the headrest. After adjustment, there is necessary to screw all of screws and bolts tightly!





CAUTION! Shin cannot be squeezed by seat or any other elements of seat.

5.7 Assembly and adjustment of vest

Please follow these steps so as to mount vest:

- fasten 4 fastening buckles,
- pull cotters so as to adjust the vest at your discretion.



CAUTION! Before using the vest, it is essential to familiarize yourself with the safety rules contained in the instruction. Information on how to safely use the VEST can be found on the page 29 of the instruction. Improper use and not obeying the safety rules may endanger the user's health and life

5.8 Assembly and adjustment of pelvic belt

Please follow these steps so as to mount pelvic belt:

- fasten two fastening buckles,
- pull cotters so as to adjust the length of belt at your discretion





5.9 Assembly and adjustment of tray

Please follow these steps so as to mount tray:

- loosen fastening knobs situated under tray's top,
- adjust upper limb support at the same height,
- place tray on upper limb support,
- tighten fastening knobs.



5.10 The adjustment of upper limb support

Please follow these steps so as to adjust the height of upper limb support:

- loosen two fastening knobs that bolt batten with upper limb support,
- adjust the height and tilt angle of upper limb support at your discretion,
- tighten fastening knobs.





Please follow these steps so as to adjust the tilt angle of upper part of upper limb support

- loosen fastening knob,
- adjust the tilt angle at your discretion,
- tighten fastening knobs.



II. LYING FUNCTION

If you wish to adjust chair to lying position it is necessary to adjust two footrest and backrest horizontally. Points 5.2 and 5.4b clearly show how footrest and backrest should be adjusted.



CAUTION! When configuring the device for the lying function, the depth of the seat should be put down to a minimum!

Knee support in lying position

a) Knee support in lying position is mounted on upper part of abduction block;

b) Adjust the height of knee support with the aid of knob situated at the front of abduction block;

c) It is possible to adjust standing frame. Please follow steps described in point 5.5
(Look point 5.5, Knee support, page 13).





III STANDING FRAME

Please prepare the device for lying function if you want to move on to upright standing. This process is described on page 17 (**Look point II LYING FUNCTION, page 17**).



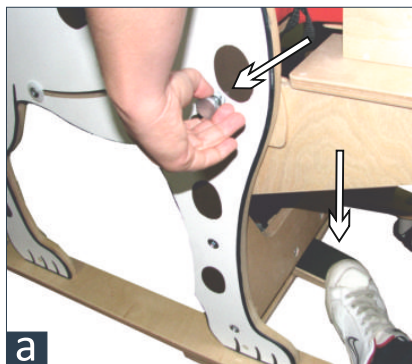
CAUTION! When configuring the device for the upright function, the depth of the seat should be put down to a minimum! Otherwise, during the upright position the feet of the footrest can catch on the ground.

Mount knee support and move on to upright standing once all elements are prepared and adjusted to the patient. Unblock safety mandrel, press pedal (a) and place the patient in a proper position (b).



CAUTION! It is important to make sure that both vest and pelvic belt are correctly fastened and adjusted before upright standing. Furthermore, check if knee support is properly mounted and , moreover, make sure that knee support protects legs from bending.





CAUTION! Please always make sure that patient's body parts are not placed between movable elements from the device, otherwise patient will hurt.

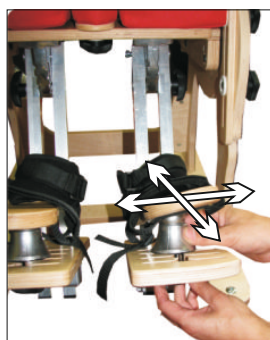
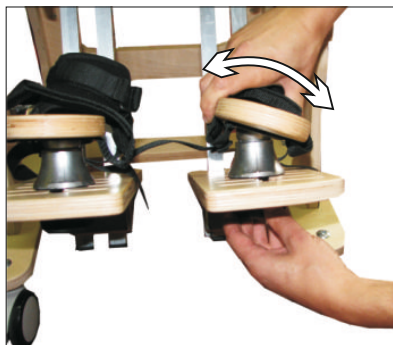


6 ADDITIONAL EQUIPMENT

6.1 Footers with adjustment

Please follow these steps so as to mount footers with adjustment:

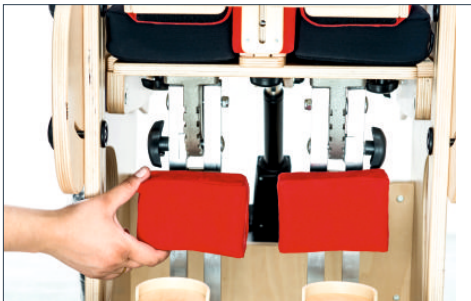
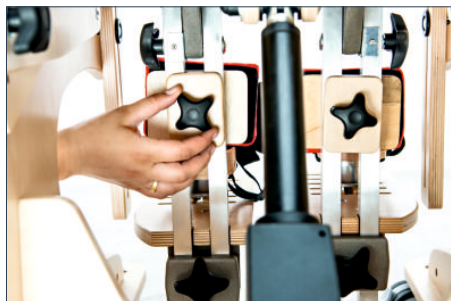
- dismantle standard footers,
- mount footers with adjustment; mount them in a places where standard footers were mounted,
- adjust footers at your discretion,
- tighten fastening knobs.



6.2 Cushions for upper limbs support

Please follow these steps so as to mount cushions for upper limbs support:

- unscrew fastening knobs from each cushion,
- put cushions on footrest's profiles,
- adjust the height at your discretion,
- tighten fastening knobs.





6.3 Independent adjustable side pelottes

Independent adjustable side pelottes are mounted by manufacturer. Please follow these steps so as to adjust them:

- measure patient,
- loosen fastening knobs,
- adjust the distance,
- move pelottes either upwards or backwards so as to adjust them to the patient,
- tighten knobs if height is adjusted.



6.4 Adjustment of thigh abduction belts

Thigh abduction belts are mounted by manufacturer. Please follow these steps so as to adjust them:

- adjust their length at your discretion,
- fasten buckles.



CAUTION! If vest and pelvic belt are mounted, it is necessary to make sure that

- buckles do not unfasten under pressure
- buckles do not shift due to incorrect assembly



6.5 Head stabilizing belt

In order to assemble head supporting belt, there is necessary to:

- attach Velcro to the both sides of the headrest (fig. 39)
- adjust the length of the belt according the patient's needs
- fasten the strap in front of the headrest
- check the correctness of the assembly by pulling the strap.



6.6 Soft cover for tray

Please follow these steps so as to mount soft cover for tray:

- Adhere 5 adhesive Velcro tapes;
- Put soft cover in a way that its edges cover tray edges.





6.7 H harness

Please look at point 6.6 so as to find out how to assembly vest. **(point 5.6, page 13)**. Initially, patient should not adjust vest tightly. Once vest is put on, it should be fastened with the aid of belts with plastic straps. Vest can be quickly unfastened.



CAUTION! Before using the vest, it is essential to familiarize yourself with the safety rules contained in the instruction. Information on how to safely use the VEST can be found on the page 29 of the instruction. Improper use and not obeying the safety rules may endanger the user's health and life

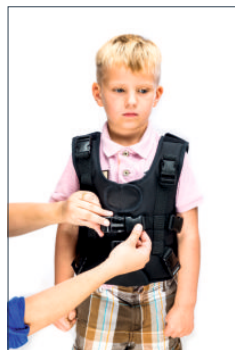
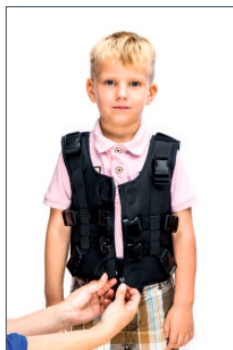
6.8 Tray for manual therapy

Tray for manual therapy is mounted instead of standard tray **(look point 5.9, page 15)**.

6.9 6 points harness

In order to mount 6 points vest it is necessary to:

- points vest should be put on and then it is important to fasten zipper and buckle at the front of vest;





- Adjust vest with the aid of Velcro tapes situated at the back of vest.
- 6 points vest should be fastened in a place that is created for standard vest (point 5.6, page 14). So as to fasten it, use not only buckles but also fastening belt that should be threaded behind chair's backrest and fastened at the front of vest.



CAUTION! Before using the vest, it is essential to familiarize yourself with the safety rules contained in the instruction. Information on how to safely use the VEST can be found on the page 29 of the instruction. Improper use and not obeying the safety rules may endanger the user's health and life





7 THE USE OF MULTIFUNCTIONAL STANDER



CAUTION! DALMATIAN INVENTO™ multifunctional stander 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 **DALMATIAN INVENTO™** multifunctional stander!

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 multifunctional stander

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.



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.





7.3. Upright position

CAUTION!

The length of time for upright position process is different for each patient. It is recommended to extend this time during the initial period (adaption period for the change of position). Either doctor or physiotherapist can make decision concerning the length of upright position process. Upright position process has to be always performed under the supervision of trained person!

It is recommended to divert patient's attention during upright position process by:

- manipulation games
- educational games
- touch stimulation and others



CAUTION! It is highly important to adjust the device to the patient before using it!

CAUTION! Make sure that all belts as well as fastenings from adjustable elements are correctly adjusted and fastened.

CAUTION! It is forbidden to leave the patient unattended!

CAUTION! Only trained staff can adjust standing frame to the patient!





CAUTION! As far as first upright standing is concerned, it takes place in rehabilitation, neurosurgery or orthopedics wards. Moreover, it has to be performed together with doctor and physiotherapist due to the fact that medical problems may appear during first treatments such as fainting, drop in blood pressure, dizziness etc. Upright standing is continued in home together with trained staff (rehabilitation technician, district nurse, trained family members).

CAUTION! Incorrect adjustment of the device can lead to side effects such as: fainting, body deformities, overloading joints. It is highly advisable to adjust the device before every use of a standing frame. This adjustment has to be done only by a trained person or therapist. If any of these side effects appear, it is highly important to stop the upright position process, take out the patient from the device and lie him/her down. If these undesirable side-effects still occur it is necessary to contact doctor. If these side effects disappeared, remember to inform doctor so as to make decision concerning further upright position process.





7.4. How to use vest



CAUTION! 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



CAUTION! DALMATIAN INVENTO™ multifunctional stander 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 **DALMATIAN INVENTO™** 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;
- sprawdzić prawidłowość działania sprzączek;
- 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 the device for different purposes that it is intended to.

3. It is forbidden to use the device when it is damaged or any part is missing.

4. It is forbidden to leave the patient unattended.

5. The device should be used only when there is someone who is trained and knowledgeable.





6. It is forbidden to leave the device 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 device.
9. It's important to make sure that patient doesn't stand on footer during either getting into or getting out the chair.
10. Make sure that all limbs are not close to spokes or other adjustable elements.
11. Please pay your attention when approaching to sources of fire or sources of high temperature during using the device. Moreover, chair shouldn't be stored in rooms with high humidity.
12. Secure chair 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 stander, remove all paper and plastic packaging. The packaging is not a toy! Keep away from children and animals.



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.

This device can be only used inside the buildings.

The device 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.





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

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.

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

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

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.
- 4) Manufacturer claims that the product can be used for **36 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 77)





10 MAINTENANCE AND CLEANING

The multifunctional stander **DALMATIAN INVENTO™**, which is a medical device, should always be kept clean and should be used in accordance with the manufacturer's instructions. The standing frame 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 device is essential to keep its proper functioning and safety.

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

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. The upholstery must not get wet during cleaning.
5. You must not soak the upholstery.!
6. After cleaning the stains, the upholstery should be rinsed with lukewarm water and dried with a clean cloth.
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 standing frame 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
11. It is possible to disinfect metal, plastic, wooden and upholstery elements of the product with a generally available disinfectant. In order to disinfect the selected element, spray its surface with a disinfectant generally available on the market and wipe with a dry, clean cloth. After disinfection, wait until the element is completely dry, especially in the case of upholstery. Before using the disinfectant, first check in an invisible place whether the product will not discolor or damage the disinfected surface.





Remember that upholstery has to be always dry before using!

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

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 standing frame 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 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.





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.





11 LABELLING

11.1. Symbols



Declaration that the product meets the essential requirements



Catalog number



Serial number



Please read the manual instructions before use



You need to take special precautions



Manufacturer



Production date



The product does not contain latex



Store in a dry place



Careful! Delicate content



Protect from sunlight



Storage temperature limitation



Relative humidity storage



Dry vertically



Do not chlorinate



Do not iron



Do not dry in a drum dryer



Do not bleach



The product is intended for indoor use



Prohibition of use without fastened safety belts



Prohibition to leave the patient without care during use of the product



You need to read the additional information



You need to use the tools indicated in the assembly description

Product designed for indoor use

11.2. Example of identification plate

QR code - after scan you are directed to the website of the product

Name of product

Producers address

Name of product in English

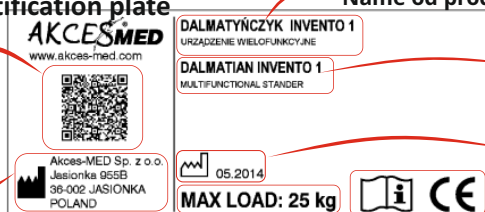
Date of production

Maximum allowable product loading

Labeling - look above

Serial number in the form of a bar code

Serial number

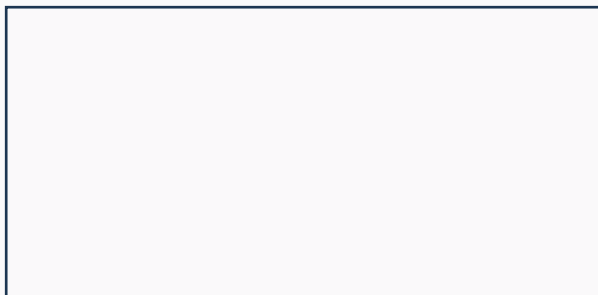


MANUFACTURER



Akces-MED Sp. z o.o.

Jasionka 955B
36-002 Jasionka
tel. +48 17 864 04 70
e-mail: export@akces-med.com
BDO: 000031619



Authorised Dealer



akces-med.com

Date of issue: 25.10.2015
The last update: 20.05.2021
©Sławomir Wroński 2021