



# CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

## Mechanical Laboratory

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Date 8.05.2015

### TEST REPORT NO. **CBC-045/2015**

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**Subject of testing:** *Verticalizer / Walking Frame* **Classification according to PN-EN ISO 9999:2011 :**  
12 06 12

**Type / Model:** *Dyna Walk* **SN.:** --

**Manufacturer:** *MOBILEX A/S*  
*Grønlandsvej 5, DK-8660 Skanderborg* **Number of specimens:** 1

**Applicant:** *A-Net s.c.*  
*93-469 Łódź,*  
*ul. Łaskowice174*

**Kind of testing** *Testing scope according to application of Client*  
*Mechanical testing for conformity with*  
*PN-EN ISO 11199-3:2008*

**Test started:** 23.04.2015

**Test finished:** 8.05.2015

Approved by:

DYREKTOR

mgr inż. Andrzej Tkaczyk

**Special comments / enclosures:**

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Test results refer only to tested units.


Test results reported here are not applicable to the further modifications of the product affecting his structure, material or technology

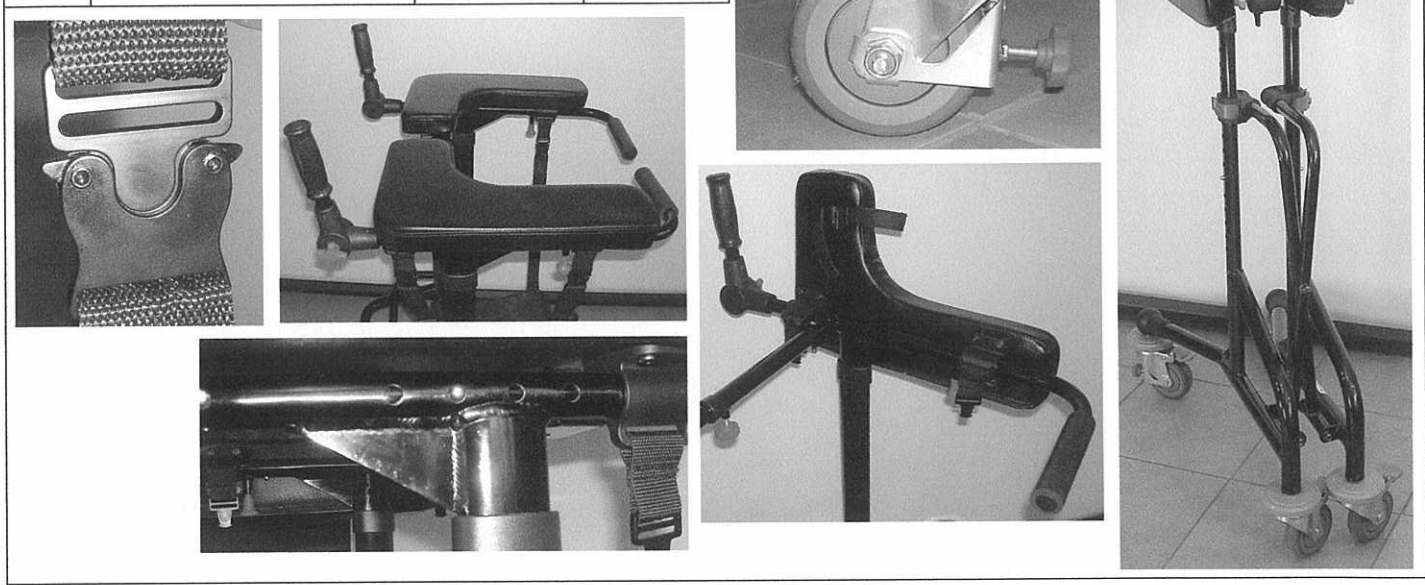
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CHARACTERISTIC OF PRODUCT

<b>Name :</b> <i>DYNA WALK</i>	<b>Dimension of product:</b> --
<b>SN:</b> --	<b>Product code:</b> --
<b>Maximum permissible user mass:</b> <i>135 kg</i>	<b>Mass of product:</b> <i>12,00 kg</i>

Description			PHOTO OF PRODUCT		
Elements/parameters/materials/dimensions		Comments			
Dimensions of product (fig. 7 PN-EN ISO 11199-3)	Distance between handgrips (dimension 2)	525 -455 mm			
	Angle between of handgrip axis and direction of movement ( $\alpha$ )	--			
	Height of product (dimension 6)	1150 mm		min.	
		1377mm		max.	
	Width of product (4)	715-786 mm			
	Turning width (1)	995mm			
	Length of product (3)	770 mm			
Height support (5)	1020mm	min.			
	1248mm	max.			
Dimensions of folded product (mm)	1160 x 770 x 390				
Fig. 5	Handgrip - diameter	36 mm			
	Handgrip - length	84 mm			
Wheels of product	Front wheels- quantity	2		castor wheels	
	Front wheels - diameter	100mm			
	Front wheels - width	30 mm			
	Front wheels - brake	Included			
	Rear wheels - quantity	2	castor wheels		
	Rear wheels - diameter	100 mm			
	Rear wheels - width	30 mm			
Rear wheels - brake	Included				
Tip	Diameter				
	Material	Not any			
	Colour				
Material of product (fig. 1)	Front legs	Aluminum,			
	Bracing member	Steel,			
	Rear legs	Hard plastic,			
	Height adjusting device	Bolts, nuts			
	Handgrip, Brake elements	Hard plastic			



## RESULT OF TESTS ACCORDING TO PN-EN ISO 11199-3:2008

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments	
4.1	<b>Stability</b>					
	5.4	product used only in premises	Forward-direction stability	10,2° Conf.	Pos.	≥ 10,0°
	5.5		Backward-direction stability	9,5° Conf.	Pos.	≥ 4,0°
	5.6		Sideway-direction stability	3,5° Conf.	Pos.	≥ 3,5°
	5.4	product also used outside	Forward-direction stability		N/A	≥ 15,0°
	5.5		Backward-direction stability		N/A	≥ 7,0°
5.6	Sideway-direction stability			N/A	≥ 4,5°	
4.2	<b>Brakes</b>					
	V/I	Ease service of running brakes while driving in the products used outside and equipped with more than 2 wheels	--	N/A		
	V/I	The presence of the parking brakes in all tables for walking and the simplicity of their handling	Conf.	Pos.		
4.2	V/I	Adjustable brakes if their performance deteriorates	Conf.	Pos.		
	Meas. 5.8.2.2	Brake grip distance (fig. 8)	--	N/A	≤ 75 mm	
	5.8.2.3	Running brake effectiveness	Conf.	Pos.	Movement of product ≤ 10 mm in 1 minute	
	Meas., 5.8.3.2	Force to set parking brake	85N Conf.	Pos.	≤ 100 N NOTE 1	
	Meas., 5.8.3.2	Force to release parking brake	98N Conf.	Pos.	≤ 100 N NOTE 1	
	5.8.3.3	Parking brake effectiveness, test to forward	Conf.	Pos.		
	5.8.3.4	Parking brake effectiveness, test to reverse	Conf.	Pos.		
	V/I	Brake not adversely affected by folding, unfolding or adjusting actions of mechanisms	Conf.	Pos.		
	V/I	Adjustable brake without the use of tools, where adjusting other mechanisms of the product forces the re-adjustment of the brakes	--	N/A		
4.3	<b>Mechanical durability</b>					
	5.9.2	Static loading resistance of resting seat	Conf.	Pos.	loading = 1,2 x mass of user (162kg.) 1min.	
	5.10	Static loading resistance of product	Conf.	Pos.	loading = 1,5 x mass of user, 5 s	
4.3	5.11	Fatigue loading resistance of product	Conf.	Pos.	loading = 0.8 x mass of user, 200 000 cycles, f ≤ 1 Hz	
	4.4	<b>Manoeuvrability</b>				
		Measur.	Diameter of wheels (front/rear)	100mm Conf.	Pos.	≥ 75 mm
Measur.		Diameter of wheels of the product used outside (front/rear)	--	N/A	≥ 180 mm	
4.4	Measur.	Width of wheels (front/rear)	30mm Conf.	Pos.	≥ 22 mm, 5 mm above ground	
	4.5	<b>Handgrip</b>				
		Measur.	Handgrip - diameter	36mm Conf.	Pos.	≥ 20 mm i ≤ 50 mm
V/I		Confidence to handle mounting for handgrip	Conf.	Pos.		
4.5	V/I	Ease to change or ease of cleaning	Conf.	Pos.		
	4.6	<b>Leg section and tip</b>				
		V/I	Puncture resistant tip	--	N/A	
V/I		Convertibility of the tip	--	N/A		
V/I		No staining of the ground	--	N/A		
Measur.		Diameter of the tip	--	N/A	≥ 35 mm	
4.6	V/I	Safe clamping of the tip	--	N/A		
	4.7	<b>Adjusting devices</b>				
		V/I	Confidence of mounting of adjustable handles	Conf.	Pos.	
V/I		Marking the maximum allowable extension of adjusting devices	Conf.	Pos.		
V/I		Reliability of the activity of adjusting mechanisms after the fatigue test	Conf.	Pos.		
4.7	V/I	Locking of folding tables for walking in a working position	Conf.	Pos.		
	4.8	<b>Resting seat</b>				
		5.9	Resting seat – static loading durability	Conf.	Pos.	
4.9	<b>Materials and finish</b>					
	ISO 10993-1	Biocompatibility of material with human body	--	N/T		
	V/I	Free of discolouring of skin or clothing in contact with product materials	Conf.	Pos.		
4.9	V/I	No burrs, sharp edges and protrusions	Conf.	Pos.		

NOTE 1: Footbrake – requirements on force applied to brakes – specified in table 1 (PN-EN 12183:2011)

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments
4.10	6.2, V/I	<b>Marking and labelling of product</b>			
		<b>Information to be included on the product and / or accessories:</b>			
		- Maximum permissible user weight	--	N/T	
		- Maximum load of accessories	--	N/A	
		- Manufacturer's name or trade name and address	--	N/T	
		- The name and / or id. number of the product	--	N/T	
		- Month and year of production	--	N/T	
		- Marking of maximum extension of the height adjustment	--	N/T	
		- Max. limit of range adjustment	--	N/T	
4.10	6.3, V/I	<b>The content of the documentation:</b>			
		- Maximum supporting height	--	N/T	
		- Minimum supporting height	--	N/T	
		- Maximum width of the turning	--	N/T	
		- Maintenance instructions including brake adjustment as a result of wear and the required terms of control	--	N/T	
		- manual cleaning	--	N/T	
		- Instructions for assembly, adjustment of all kinds, folding and unfolding	--	N/T	
		- Warnings and advice about precautions relating to safe distances between moving and stationary parts (see EN 12182, Clauses 12 and 13)	--	N/T	

Pos. – positive; Neg – negative; N/T – not tested; N/A – not applicable; N/R – not required, N/O – not occurred, V/I.- visual inspection, Conf.- conformed

### TEST CONDITIONS

Ambient temperature	19°C	Required temperature 21°C ±5°C
Relative humidity of air Humidity	60%	N/R
<b>Comments:</b>		
All tests were performed at maximum height of walking stick.		
All tests performed in the least stable position of self-adjusting wheels.		
Sequence of tests: stability test, static loading test, fatigue test.		
One verticalizer was tested.		
During visual inspection before testing any visible defects that could have influence on test results were not stated		

Pos. – positive; Neg – negative; N/T – not tested; N/A – not applicable; N/R – not required, N/O – not occurred, V/I.- visual inspection, Conf.- conformed

*NOTE 1: Footbrake – requirements on force applied to brakes – specified in table 1 (PN-EN 12183:2011)*

*NOTE 2. Conformity assessment of product according to standard requirements refer to the scope of mechanical ordered by client*

*NOTE 3: During visual inspection before testing any visible defects that can have an effect on test results were not stated.*

*NOTE 4: Sample/object for testing was delivered to the Laboratory by the Orderer.*

### CONCLUSIONS:

*Test object **conforms** with requirements of PN-EN ISO 11199-3:2008 within mechanical testing ordered by client excluding testing of material biocompatibility with human body according to PN-EN ISO 10993-1:2010.*

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