

# Test report No.: P - 08 - 505 - MP - PA 025 - E

Walking aids manipulated by both arms (Rollators) / English Version

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**Test institute:** Berlin Cert - Prüf- und Zertifizierstelle für Medizinprodukte GmbH  
an der Technischen Universität Berlin  
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**Client:** HOGGI GmbH, Taurusstr. 17, D-56235 Ransbach-Baumbach

**Manufacturer:** HOGGI GmbH, Taurusstr. 17, D-56235 Ransbach-Baumbach

**Test sample:** Type / model: Lauflernhilfe Flux Gr. 4  
Quantity / Identification: 1 / 200807996  
Receipt / condition: 2008-11-22 / 2009-01-22 / new



**Test standard:** DIN EN ISO 11199-2:2005 Walking aids manipulated by both arms - Requirements and test methods - Part 2: Rollators

**Annotation:** The numbering corresponds to the applied standard  
DIN EN ISO 11199-2:2005

**Code according to  
DIN EN ISO 9999: 2007:** 12 06 06 Rollators (Devices with handgrips and two or more wheels, possibly in combination with tips; included are rollators with a seat for resting)

**Accreditation:** Accredited by the "Zentralstelle der Länder für Gesundheitsschutz bei Arzneimitteln und Medizinprodukten" ZLG-P-946.97.02

**Kind of the test:** Complete test

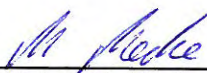
**Test period:** 2008-12-05 to 2009-01-27

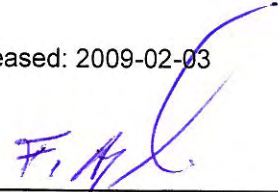
**Test location:** Rooms of the test institute

**Test result:** The test requirements are fulfilled.

established: 2009-02-03

released: 2009-02-03

  
Dipl.-Ing. M. Mecke

  
Dipl.-Ing. F. Aßmann

This test report may only be quoted in full. Any use for advertising purpose must be granted in writing.  
This report is the result of a single examination of the object in question and is not generally applicable evaluation of the other products in regular production.

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## Explanation to Compliance:

**Pass:** The tested unit was *found to comply* with the requirement.

**No:** The tested unit does *not comply* with the requirement.

**N/A:** The tested unit was *not applicable*.

Test methods and -requirements:	Compliance:			Comments:
	Pass	No	N/A	
<b>4 Requirements</b>				
<b>4.1 Manoeuvrability</b>				
The wheel diameter shall be not less than 75 mm.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The wheel diameter of rollators manufactured for outdoor use shall be not less than 180 mm.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The wheel width of rollators manufactured for outdoor use shall be not less than 22 mm.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>4.2 Stability</b>				
Forward stability $\geq 15,0^\circ$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	measured: $>17^\circ$
Backward stability $\geq 7,0^\circ$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	measured: $>14^\circ$
Sideways stability $\geq 3,5^\circ$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	measured: $>14^\circ$
<b>4.3 Brakes</b>				
All rollators with more than two wheels shall have running brakes that are easy to operate by the user when the rollator is in motion.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All rollators with more than two wheels and which have a resting seat, or are designed for outdoor use, shall have parking brakes, which may be integrated with the running brakes.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Maximum grip distance for operating running brakes shall be no greater than 75 mm.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the effectiveness of the brake will be reduced by wear, it shall have means for the compensation of wear.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Brake performance shall not be adversely affected by folding, unfolding or adjusting actions. If re-adjustment of the brakes is necessary following an adjusting action of the rollator, tools shall not be required (e.g. height adjustment).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Test of running brakes</b>				
The rollator shall not move more than 10 mm in 1 min. on an inclined plane of $6^\circ$ .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Load F = 500 N
<b>Test of parking brakes</b>				
Maximum force to apply and release parking brakes shall not exceed:				
a) 60 N (pushing force);	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) 40 N (pulling force).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The rollator shall not move more than 10 mm in 1 min. on an inclined plane of $6^\circ$ .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Load F = 500 N

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Test methods and -requirements:	Compliance:			Comments:
	Pass	No	N/A	
<b>4.4 Handgrip</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The handgrip width shall be no less than 20 mm and not more than 50 mm.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This requirement is not applicable to anatomic handgrips.
The handgrip shall be securely fixed to the handle of the rollator as judged by the inspector.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The handgrip shall be replaceable or easy to clean.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>4.5 Legsection and tip</b>				
Where there is no wheel, the leg section shall end in a tip designed to prevent the leg section from piercing through it, when the rollator is used as intended by the manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Where there is no wheel, the tip shall be replaceable.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Where there is no wheel, the tip shall not cause discolouring of the walking surface, as verified by visual inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
That part of the tip that contacts the walking surface shall have a minimum diameter of 35 mm. Compliance shall be verified by measurement.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
The rubber tip shall be securely fixed to the leg of the rollator as judged by the inspector.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>4.6 Resting seat</b>				
When tested in accordance with the static loading test no part of the rollator shall crack or break.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>4.7 Mechanical durability</b>				
When tested in accordance with the static loading test no part of the rollator shall crack or break and the permanent set of the rollator height shall not exceed 1%.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Load F = 1500 N Height before performing: 1020mm Height after performing: 1013mm Height reduction: 0,8%
When tested in accordance with the fatigue test, no part of the rollator shall crack or break.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Load F = 800 N 200000 LW
<b>4.8 Adjusting devices</b>				
Each of the height adjustment devices shall be clearly marked with its maximum allowable elongation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
After the fatigue test, the adjustment / folding mechanisms shall operate as intended by the manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Test methods and -requirements:	Compliance:			Comments:
	Pass	No	N/A	
<b>4.9 Folding mechanism</b>				
When the walking aid is in the working position, the folding mechanisms shall stay securely locked, as judged by the inspector.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>4.10 Adjustment of handles</b>				
The handles may be adjustable but shall be securely fixed when in use and verified by inspection.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
On rollators having handles that may be angled or positioned so that they come outside the rollator and jeopardizes the stability of the rollator, either a physical stop shall prevent the unsafe position or a warning showing the safe limits of adjustment shall be fixed on the rollator. The instructions for use shall explain the consequences such an adjustment may have on the stability.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>4.11 Materials and finish</b>				
The rollator materials shall not cause discolouring of skin or clothing when the rollator is in normal use.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All parts of the rollator shall be free from burrs, sharp edges or projections that could cause damage to clothing or discomfort to the user.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>6 Information supplied by the manufacturer</b>				
<b>6.1 General</b>				
The information applied to, and supplied with, rollators shall conform to the relevant parts of EN 1041 together with, but not limited to, the following requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The information shall include advice on which other devices and/or types of devices that can be used in combination with the rollator in question, and any precautions or limitations needed to ensure user safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>6.2 Information marked on the product and/or accessories</b>				
Each rollator shall be clearly and indelibly marked:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
a) maximum user mass;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) maximum safe working load (SWL) to be marked on accessories;	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) maximum allowed angle between the longitudinal centreline of the handle and the direction of motion, if the handles are sideways adjustable;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) manufacturer's name or trade name and address;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e) manufacturer's model identification name and/or number;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f) month and year of manufacture;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Test methods and -requirements:	Compliance:			Comments:
	Pass	No	N/A	
g) maximum extension of the height adjustment, marked on the adjusting members;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
h) maximum width of the rollator;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
whether or not the walking aid is designed for indoor or outdoor use.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>6.3 Documentation</b>				
The following information shall be contained in the instructions for use and / or assembly, or clearly and indelibly marked on the product:				
a) maximum rollator height;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) minimum rollator height;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) maintenance and cleaning instructions, including a description of the method and suitable cleaning agents and any precautions needed to avoid corrosion and/or ageing of the materials used in construction of the rollator;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) instructions for assembly, adjustment of all kinds, folding and unfolding;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e) warnings and advice about precautions relating to safe distances between moving and stationary parts;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f) maximum safe working load (SWL) for load carrying accessories such as basket, tray, shopping bag, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Technical data:	
Max. body weight of the user:	100 kg
Idle weight / with accessories:	9,7kg / N/A
Tyres:	200 x 45 / 300 x 60
Distance between mid-lines of handgrips:	500
Overall dimensions (l x w x h):	1020 x 800 x 750 - 1020
Folded dimensions (l x w x h):	1070 x 800 x 580
Brake system:	Service brake, handbrake
Diameter of that part of the tip:	N / A
Max. turning width:	1020
Angle between the longitudinal centreline of the handle and the direction of motion:	0°

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<b>Submitted documents:</b>	
User manual	1910-0007-D_01-2009
Biocompatibility	13.08.1999, HYGCEN, Nr: 1322
Risk analysis	22.01.2009

<b>Test equipment:</b>		used
PM 3031	Messschieber	<input checked="" type="checkbox"/>
PM 3034	Neigungsmesser - digital	<input checked="" type="checkbox"/>
PM 1012	Kipp-Plattform	<input checked="" type="checkbox"/>
PM 3060	Elektronische Kranwaage	<input checked="" type="checkbox"/>
PM 1025	Maßband (7,5 m)	<input checked="" type="checkbox"/>
PM 1046	Hydraulikprüfstand (Käfig)	<input checked="" type="checkbox"/>
PM 3045	Elektronisches Handkraftmessgerät	<input checked="" type="checkbox"/>
PM 1054	Zwex (Two-drum test machine)	<input checked="" type="checkbox"/>
PM 1055	Zwex (Two-drum test machine)	<input type="checkbox"/>

<b>Notes:</b>