

**Test Report**

**On Behalf of**

**CHANGZHOU AIRWHEEL TECHNOLOGY CO.,LTD.**

**AIRWHEEL WHEELCHAIR**

**Model: H3,H3S,H3P,H3PS,H3T,H3TS**

**Prepared For : CHANGZHOU AIRWHEEL TECHNOLOGY CO.,LTD.  
Fl.5, East of No. 10 Building, high-tech park, Xinbei  
District, Changzhou, Jiangsu, China**

**Prepared By : BEIDE (UK) PRODUCT SERVICE LIMITED  
U.K.: FLAT 107, 25 INDESCON SQUARE, LONDON,  
UNITED KINGDOM**

**China: 6F, Bldg E, Hourui 3rd Ind Zone, Xixiang,  
Bao'an Dist, Shenzhen, China**

**Date of Test : Sep.20-26,2017**

**Date of Report : Sep.26,2017**

**Report Number : B-S170914662**

<b>Test Report</b>  <b>EN 12182</b>  <b>Assistive products for persons with disability –</b> <b>General requirements and test methods</b>	
Testing laboratory .....	Beide (UK) Product Service Limited
Address .....	6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist, Shenzhen, China
Report body.....	Beide (UK) Product Service Limited
Address (U.K.) .....	Flat 107, 25 Indescon Square, London, United Kingdom
Address (China) .....	6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist, Shenzhen, China
Applicant .....	Changzhou Airwheel Technology Co.,Ltd.
Address .....	Fl.5, East of No. 10 Building, high-tech park, Xinbei District, Changzhou, Jiangsu, China
Client No.....	05193608
Standard .....	EN 12182: 2012
Test Result .....	Compliance with EN 12182: 2012
Procedure deviation .....	N.A.
Non-standard test method .....	N.A.
Type of test object .....	AIRWHEEL WHEELCHAIR
Trademark .....	N.A.
Model/type reference .....	H3S
Rating .....	ADAPTER: Input:100-240V~50/60Hz,2A Output: DC24V,3A BATTERY:DC 24V,18AH
Manufacturer .....	Changzhou Airwheel Technology Co.,Ltd.
Address .....	Fl.5, East of No. 10 Building, high-tech park, Xinbei District, Changzhou, Jiangsu, China

**General remarks**

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

"(see appended table)" refers to a table appended to the report.

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

Remark:

**Photos view:**

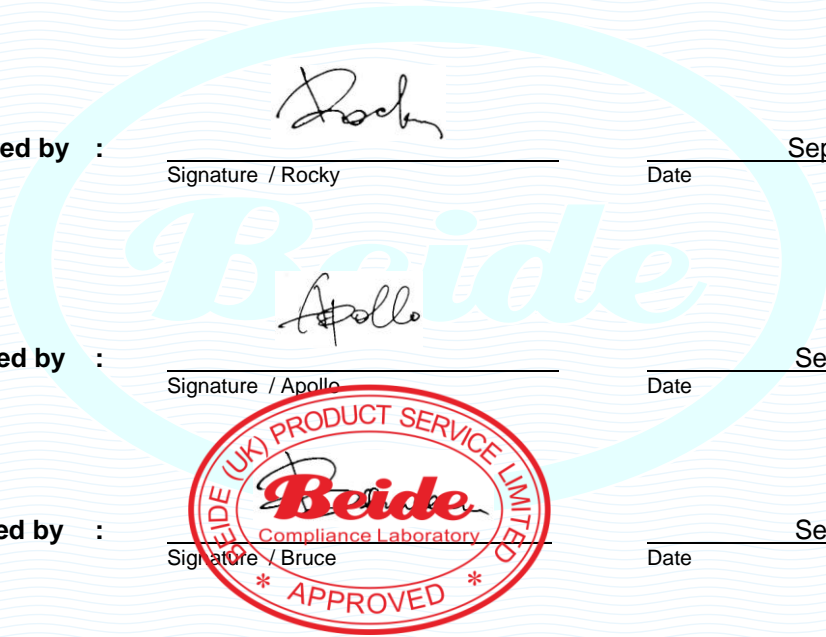
(See appendix 1)

**Copy of marking plate:**

(See appendix 2)



<b>Possible test case verdicts :</b>	
test case does not apply to the test object .....	: N (.A.)
test object does meet the requirement .....	: P(ass)
test object does not meet the requirement .....	: F(ail)
<b>Name and address of the testing laboratory :</b>	
<p><b><u>Beide (UK) Product Service Limited</u></b>  <b><u>6F, Bldg E, Hourui 3rd Ind Zone, Xixiang,</u></b>  <b><u>Bao'an Dist, Shenzhen, China</u></b></p>	
<b>Reported by :</b>	
Signature / Rocky	Date
	Sep.26,2017
<b>Checked by :</b>	
Signature / Apollo	Date
	Sep.26,2017
<b>Approved by :</b>	
Signature / Bruce	Date
	Sep.26,2017



EN12182

Clause	Requirement – Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

4.	General requirements		P
4.1	Risk analysis		P
	Safety of an aid shall be assessed by identifying hazards and estimating the risks		P
4.2	Intended performance and technical documetation		P
a)	Aid shall have sufficient strength and durability to sustain all loads expected during intended use.		P
b)	Performance described in technical documentation		P
c)	Technical documentation shall include references to relevant clinical and scientific literature, any strength and /or life calculations, appropriate standards and test results.		P
4.3	Clinical evaluation		N
4.4	Aids that can be dismantled	Not be possible to reassemble the aid in a manner that presents a hazard	P
4.5	Single use fasteners	Not single used	P
4.6	User mass limits		P

5.	Materials		P
5.1	Flammability	Not flame resistant	N
5.1.1	Upholstered parts, mattresses, bed bases and bedding		N
5.1.2	Upholstered parts		N
5.1.3	Mattresses and bed bases		N
5.1.4	Bedding		N
5.2	Biocompatibility and toxicity	See 4.1	P
5.3	Contaminants and residues	Not apply to body fluids	N
5.3.1	Substances which may leak from an aid in intended use and in fault conditions		N

EN12182

Clause	Requirement – Test	Result - Remark	Verdict
a)	Be assessed for biocompatibility in accordance with guidance		P
b)	Be provided with protection that minimizes the possible of such substance becoming a biological hazard		N
5.4	Infection and microbiological contamination		P
5.4.1	Cleaning and disinfection	No user manual	N
5.4.2	Animal tissues		N
5.5	Resistance to corrosion	No risk of corrosion	P
6	Noise and vibration	Not part of the intended performance	N
7	Electromagnetic compatibility		P
7.1	Emissions		N
7.2	Immunity		N

8	Electrical safety		P
8.1	General		P
8.2	Battery powered aids		P
8.2.1	Battery housings		P
8.2.2	Connection		P
8.2.3	Charge level indicator		P
8.3	Circuit protection		P
8.4	Electronic programmable systems		P
8.5	Electrically heated blankets, pads and similar flexible heating appliances		N
8.6	Aids with skin contact electrodes		N

9	Overflow, spillage, leakage, and ingress of liquids		N
9.1	Overflow	No reservoir or liquid storage chamber	N
9.2	Spillage		N
9.3	Leakage		N
9.4	Ingress of liquids		N

EN12182

Clause	Requirement – Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

10	Surface temperature		N
a)	Range of ambient temperatures to be expected during the intended use and foreseeable misuse	No heating components	N
b)	Temperatures that may result from single fault condition		N
c)	Ergonomic data		N
d)	For people with insensitive skin		N

11	Sterility		N
11.1	Sterility requirements		N
11.2	Sterilization processes		N
11.3	Maintenance of sterility in transit		N

12	Safety of moving parts		P
12.1	Unless the intended purpose of an aid, or part of an aid, is to grip, cut, squeeze etc.: or if the intended use cannot be achieved without a hazard such as risk of squeezing:		P
a)	Any moving parts that constitute a safety hazard shall be provided with guards that can only be removed by the use of a tool		P
b)	The gap between exposed parts of an aid that move relative to each other shall be maintained throughout the range of movement as table 1		P
c)	Requirement for cords, chains and drive belts		P
d)	Control device 1		P
e)	Automatic device preventing injury		N
f)	Control device 2		N
12.2	Warnings when intended purpose of an aid cannot be met without a hazard		P
12.3	Inspection for parts subject to mechanical wear		P
12.4	Emergency stop		P

EN12182			
Clause	Requirement – Test	Result - Remark	Verdict

13	Prevention of traps for parts of the human body		P
	Holes in and clearances between stationary parts that are accessible to the user and/or attendant during the intended use of an aid shall be as specified		P
	Warnings when aid cannot be met without a hazard caused by the size of holes and the clearance between moving parts		P

14	Folding and adjusting mechanisms		P
14.1	The mechanisms shall be capable of being securely locked when aid is in any fixed working configuration		P
14.2.a	Aid shall incorporate guards to protect the user from trap and/or squeeze hazards		P
14.2.b	The gap between exposed parts of an aid that move relative to each other shall be maintained throughout the range of movement		P
14.2.c	Warnings		N

15	Carrying handles		P
15.1	Carrying handles or grips shall not become detached from the aid and no permanent distortion		P
15.2	Test method		-

16	Aids which support user		P
16.1	No part of the aid shall become hazardous when aid is intended to support a disabled person	See table 16.1	P
16.2	Test method		-

17	Portable and mobile aids		P
----	--------------------------	--	---



## EN12182

Clause	Requirement – Test	Result - Remark	Verdict
18	Surface, corners and edges		P
	All accessible edges, corners and surfaces shall be smooth and be free from burrs and sharp edges		P
19	Hand held aids		P
20	Grips and other handing devices		P
a)	Requirement about aid having a mass of more than 20kg and need to be handled		P
b)	One or more carrying-handles suitably shall be suitable placed		P
21	Forces in soft tissues of the human body		N
22	Ergonomic principles		N
23	Information supplied by the manufacturer		P
1)	The information and any precautions needed to ensure user safety		P
	- warnings and advice about precautions relating to high and/or low temperature surfaces		P
	- instructions on how to fold and/or adjust aids and warnings and advice about precautions needed to avoid hazards		P
	- advice on safe lifting and handling		P
	- level of protection of electrical equipment against the ingress of liquids and advice on the intended environments of use and related safety recommendation		P
	- information about dangerous combinations of devices	No such parts	N

EN12182

Clause	Requirement – Test	Result - Remark	Verdict
2)	Information for people with reading difficulties	Not for these people	N
3)	Information shall include any maintenance and cleaning instructions		P
4)	If body mass of user is related to strength and durability of aid, that rated mass shall be declared		N
5)	Precautions to ensure the safety of the user if an aid is not flame resistant	Not flame resistant	N
6)	Information shall be included if aid may be affected by electromagnetic emission		P
7)	Cleaning method and suitable cleaning materials for aid intended to be cleaned		P
8)	Description of method and suitable materials for aid intended to be disinfected		N
9)	Warnings and advice for aid can create a noise hazard		N

10.	Packaging	P
-----	-----------	---

15	TABLE: Tests for handles	P
----	--------------------------	---

Grip type	Force	Test time	Temperature
Grip	5.1KG	70s	24.1 °C

Note:

a. No hazardous;

16	TABLE: Tests for support	P
----	--------------------------	---

Force	Test time	Temperature
135KG	70s	24.5 °C

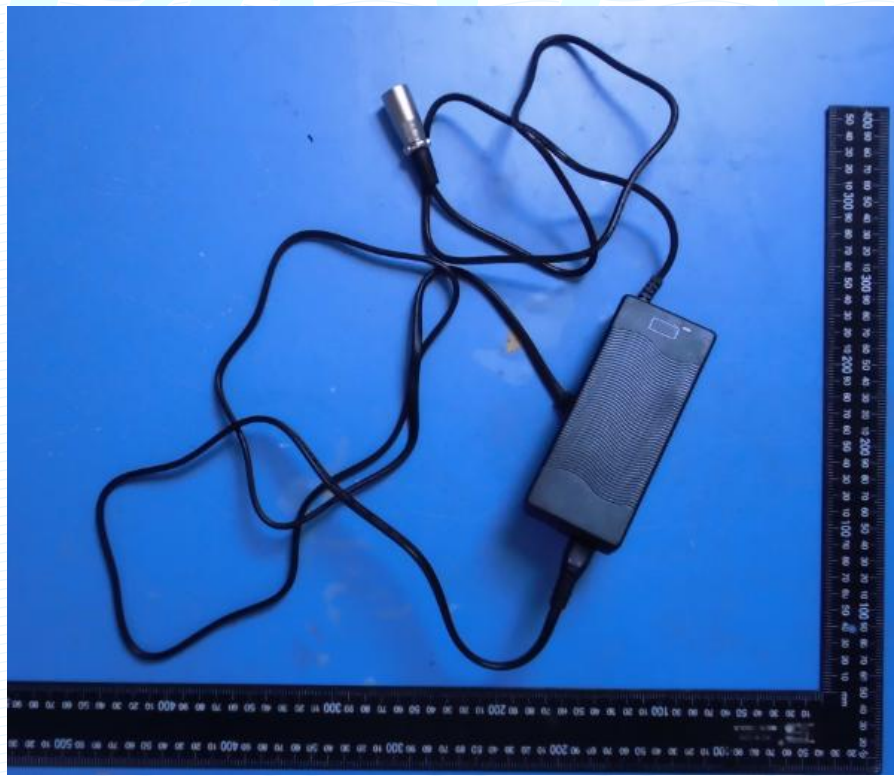
Note:

a. No hazardous;

**Appendix 1**

**PHOTO-DOCUMENT**





**Appendix 2**

Product marking of EUT

Airwheel Wheelchair

Model: H3S

Rating: ADAPTER: Input:100-240V~50/60Hz,2A

Output: DC24V,3A

BATTERY:DC 24V,18AH

Changzhou Airwheel Technology Co.,Ltd.  
Fl.5, East of No. 10 Building, high-tech park,  
Xinbei District, Changzhou, Jiangsu, China  
MADE IN CHINA

