



Product Service

CERTIFICATE

No. Z1 12 05 69484 002

Holder of Certificate: **Chasswheel Ltd.**Myllyharjuntie 6
71800 Siilinjärvi
FINLANDProduction
Facility(ies):

69484

Certification Mark:



Product:

Electrical wheelchairs class C

Model(s):

CW4 FOUR X DL

Parameters:

Total height:	1240 mm
Total length:	1370 mm
Total width:	680 mm – 820 mm
Obstacle height:	100 mm
Max. speed:	10 km/h
Max. load:	125 kg
Max. safe slope:	10°
Driving motor:	24 VDC; 250 W 24 VDC; 250 W
Drive of the adjustment of the seat angle:	24 VDC; 2000 N; IP65; 5.5 A
Power electronics:	Dynamic Controls Ltd., type: PMA90L (DX2) Dynamic Controls Ltd., type: DX2-ACT4 Dynamic Controls Ltd., type: DX2-REM550
Batteries:	2x 12 VDC; 80 Ah (C20)
Battery charger:	IN: 230 VAC; 50 Hz; 393 VA OUT: 24 VDC; 8 A

Tested according to: EN 12184:2009

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 713006309

Date, 2012-05-24

(Torsten Zimmer)

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Product Service

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TÜV SÜD Product Service GmbH • Masurenweg 1-3 • 30163 Hanover • Germany

Chasswheel Ltd.
Mr Ismo Toivanen
Myllyharjuntie 6
71800 Siilinjärvi
FINLAND

Your ref./from	Our ref./Name	Phone-ext/E-Mail	Fax-ext	Date	Page
	PS-MHS5-HAN-ahc Alexandra Heidenescher	+49 511 9663-866 alexandra.heidenescher@tuev-sued.de	+49 511 9663-839	2012-05-24	1 of 1

Certificate Z1 12 05 69484 002 and Test Report 713006309

Dear Mr Toivanen,

Please find attached certificate Z1 12 05 69484 002 and test report 713006309.

The certificate **Z1 12 05 69484 002** is replacing your certificate Z1 09 10 69484 001, which is now invalid and has to be returned to us.

If you have further question with regard to the a.m. or other inquiries, please feel free to contact Mr Michael Kese, phone +49 (5 11) 96 63-8 22.

Yours sincerely,

TÜV SÜD Product Service GmbH

i.V. Torsten Zimmer
Rehabilitation

Enclosures

Trade Register Munich HRB 85742
HypoVereinsbank Munich
Acc. No. 48 852 211
Bank Code 700 202 70
VAT ID No. DE129484267
Information pursuant to Section 2(1)
DL-InfoV (Germany)
at www.tuev-sued.com/imprint

Supervisory Board:
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Management:
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TÜV SÜD Product Service GmbH
Hanover Branch
Masurenweg 1-3
30163 Hanover
Germany



Product Service

Choose certainty.
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Technical Report No. 713006309

Revision: 0

dated 2012-05-16

Client: Chasswheel Ltd.
Myllyharjuntie 6
71800 Siilinjärvi
FINLAND

Manufacturing place: Chasswheel Ltd.
Myllyharjuntie 6
71800 Siilinjärvi
FINLAND

Test object: Type / model: CW4 FOUR X DL
Classification acc. to. DIN EN ISO 9999: 2007 12 21 27
Class of use: C
Max. user weight: 125 kg

Test specifications: EN 12184: 2009

Purpose of examination: Testing according to the test specifications.

Test result: The test results show that the presented product is in compliance with the specified requirements.

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1 Description of the test subject

The electrically driven wheelchair type "CW4 FOUR X DL" presented for testing is designed to operate in outdoor environment. The wheelchair has a maximum speed of 10 km/h. The seat inclination is electrically adjustable. The wheelchair had four drive motors. The individual motors can be controlled via the joystick module of the DX2 controller.



1.1 Technical Data

Test subject:	electrically driven wheelchair
Model:	CW4 FOUR X DL
Class of use:	C
Total height:	1240 mm
Total length:	1370 mm
Total width:	680 mm – 820 mm
Obstacle height:	100 mm
Max. speed:	10 km/h
Max. load:	125 kg
Max. safe slope:	10°
Driving motor:	AMT Schmid AG, type: GP11834K 24 V _{DC} ; 250 W Micro Motor AG, type: PMNSt110/30 24 V _{DC} ; 250 W
Drive of the adjustment of the seat angle:	LINAK, type: LA28 24 V _{DC} ; 2000 N; IP65; 5.5 A
Power electronics:	Dynamic Controls Ltd., type: PMA90L (DX2) Dynamic Controls Ltd., type: DX2-ACT4 Dynamic Controls Ltd., type: DX2-REM550
Batteries:	2x DENKA, type: DEG12-80 12 V _{DC} ; 80 Ah (C ₂₀)
Battery charger:	Powercharge, type: GBC07 – Popular 8A IN: 230 V _{AC} ; 50 Hz; 393 VA OUT: 24 V _{DC} ; 8 A



Product Service

2 Order

2.1 Date of Purchase Order

The testing of the CW4 FOUR X DL has been carried out per purchase order of Chasswheel Ltd. dated at 2011-09-12. **Date of Receipt of Test Subject**

The testing has been performed at TÜV SÜD Product Service, Masurenweg 1-3, D-30163 Hanover. The test subject was delivered to the test laboratory on 2011-12-05 (HAN-119865).

3 Revision History

Rev. 0: Initial Version

4 Remarks

4.1 General remarks

Motorised wheelchairs are motor vehicles according to the traffic law (§1, chapter 2). Wheelchairs which shall be operated on public roads have to fulfil the requirements of the German Traffic Law (StVZO), of the Road Traffic Regulations (StVO) as well as of the FZV (Fahrzeugzulassungsverordnung). This also applies to motorized wheelchairs with a design-related maximum speed of 6 km/h (see also §18 StVZO, explanation 1).

4.2 Remarks to user manual

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.

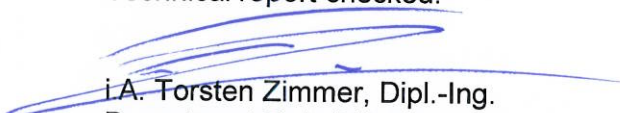
4.3 Remarks to Factory

The assembly of the product has to comply with the documentation (CDF). Before the implementation of safety relevant modifications to the product into the ongoing production the product must be retested for assessment.. The results must be implemented to the documentation and if necessary the certificate must be updated.

Summary

The test results show that the presented product is in compliance with the specified requirements.

TÜV SÜD Product Service GmbH
Technical report checked:


i.A. Torsten Zimmer, Dipl.-Ing.
Department Rehabilitation

TÜV SÜD Product Service GmbH
Project Manager


i.A. Michael Kese, Dipl.-Ing.
Rehabilitation