



Technical Report No. 713370913

Version: 1
Dated 2026-01-30

Applicant: Decon Wheel AB, Södra Ekeryd 119, 31491 Hyltebruk, SWEDEN

Manufacturer: YAMAHA Motor Co. Ltd., Shingai 2500, Iwata, Shizouka 438-8501, JAPAN

Factory: YAMAHA Motor Co. Ltd., Shingai 2500, Iwata, Shizouka 438-8501, JAPAN

Test object: Add-on propulsion unit for manual wheelchairs:
E-Drive NXT 24"
E-Drive NXT 16"

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Doc No.
GER_MUC_T_02.01EN Report No.:
ID 135896 Rev. 7 - 713370913
released Version: 1
Effective: 03 Jun 2025 Page 1 of 6

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TÜV SÜD Product Service GmbH
PS-MHS-T-2
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30163 Hannover, Germany

Summary of Testing

Test

specifications: Standard:

- EN 12184:2022
- ISO 7176-14:2022+AMD1:2025

Excluded

clauses:

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Purpose of
examination:

- ☐ Voluntary testing (abbr. "VT")
- ☐ CB Scheme (abbr. "CB")
- ☐ NRTL program (abbr. "NRTL")
- ☒ TÜV SÜD Mark program (abbr. "TM")
- ☐ Testing under DAkkS accreditation (abbr. "DAkkS")
- ☐ Evaluation of change notification , dated

Test result:

☒ The test results show that the presented product is in compliance with the above listed test specifications.

☒ A detailed evaluation of the above-mentioned test specifications is available in the individual TRFs (test report form) of this project.

☐ A detailed evaluation of the above-mentioned test specifications is available in this test report.

☐ The test results show that the desired product change is in compliance with the above listed test specifications.

☐ A detailed evaluation of the above-mentioned test specifications that are affected by the desired product change is available in the individual TRFs (test report form) of this project.

☐ A detailed evaluation of the above-mentioned test specifications that are affected by the desired product change is available in this test report. All prior test results of the project and the corresponding certificate(s) are still valid. The corresponding data form for medical equipment was updated to Rev.

☐ The change notification mentioned above has no impact on the testing and test reports of the project . A re-test of the medical device is not necessary. All test results and the certificate(s) are still valid. The corresponding data form for medical equipment was updated to Rev. .

☐ The present test results show that after removal of the points of non-compliance as listed in the report and an appropriate retest the product will be in compliance with the above listed test specifications.
A retest of a modified product is necessary.

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1 Description of the test subject

1.1 Function

The E-Drive NXT 24" and 16" presented for testing is to be used as an electric propulsion unit for manual wheelchairs. The electric power unit consists of two drive units which are directly attached to a wheel, a battery pack and a controller. An additional attendant control is optionally available.

24"



16"



1.2 Ratings

maximum total load mass	212 kg
maximum occupant mass	160 kg
rated slope	6°
max. speed	8.5 km/h
rated voltage	36 V _{DC}
braking system	Motor generative brake and electromagnetic brake
drive wheels	
- size	24 x 1 3/8"
- tyres	air-filled ☒ / rubber ☐
drive wheels	
- size	16 x 1.75"
- tyres	air-filled ☒ / rubber ☐

2 Order

2.1 Date of Purchase Order

- Purchase order(s): 8226424
- Date(s) of purchase order(s): 2025-03-13

2.2 Test Sample(s)

- Reception date(s): 2025-07-14
- Location(s) of reception: TÜV SÜD Product Service GmbH, Masurenweg 1-3, 30163 Hannover, Germany

2.3 Tests

- Testing date(s): 2025-08-25 to 2026-01-29
- Date of receipt of documents: Last proof of conformity received on 2026-01-27.
- Location(s) of testing: TÜV SÜD Product Service GmbH, Masurenweg 1-3, 30163 Hannover, Germany

3 Test Results

The following decision rule(s) and handling of measuring uncertainty was/were applied when making a statement of conformity with respect to normative requirements:

- ☐ Decision rule according to ILAC-G8:09/2019 clause 4.2.1 Binary statement for simple acceptance rule or IEC Guide 115:2023, clause 4.3.3 Simple acceptance was applied.
- ☒ Decision rule according to ILAC-G8:09/2019 clause 4.2.2 Binary statement with guard band - guard band length = 95 % extended measurement uncertainty, was applied.
- ☐ Decision rule according to customer's requirements was applied.

It is:

- ☐ There are no statements to conformity or no results with measurand stated in this report, no decision rule has been applied.

3.1 Used Standards

See test specification(s) in section "Summary of Testing" above.

3.2 Pending Tests / Evaluation

-/-

3.3 Points of non-compliance

-/-

4 Remarks

-/-

5 History

Version	Comment
1	Initial version

TÜV SÜD Product Service GmbH



SIGN-ID 1105230
30.01.2026
Michael Gens

Approver
PS-MHS-T-2

TÜV SÜD Product Service GmbH



SIGN-ID 1105210
30.01.2026
Matthias Müller

Project Handler
PS-MHS-T-2