

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-22496-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from:

26.06.2025

Date of issue:

26.06.2025

Holder of accreditation certificate:

ATD-LabTech GmbH
Dieselstraße 1, 63843 Niedernberg

with the location

ATD-LabTech GmbH
Dieselstraße 1, 63843 Niedernberg

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.



Tests in the field

Testing of Crash Test Dummies (ATD), used for passive vehicle safety dynamic testing; Humanetics test specification for headform for use in the testing of safety helmets

Within the indicated test areas marked with [Flex A] the testing laboratory is permitted to use standardised or equivalent test methods listed here with different issue dates without being required to prior inform and obtain approval from DAkkS.

The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory.

1. Testing of Crash Test Dummies (ATD), used for passive vehicle safety dynamic testing [Flex A]

Frontal Impact Dummies

Hybrid III 5th Percentile Female

49 CFR Part 572 Subpart O

2002-09

Hybrid III 5th Percentile Female Test Dummy, Alpha Version

572.132 - Head drop

572.133 - Neck pendulum flexion and extension

572.134 - Thorax impact 572.135 - Torso flexion

572.136 - Knee impact left and right

SAE Engineering AID 25

1999-07

User's Manual for the Small Adult Female Hybrid III Test Dummy

Knee Slider Test (left and right)

- Hip range of motion (left and right)

SAE J2878 2016-06 Low Speed Thorax Impact Test Procedure for the HIII 5F Dummy

- 3 m/s Thorax impact

Hybrid II 50th Percentile Male

49 CFR Part 572 Subpart B

1985-06

50th Percentile Male 572.6 - Head drop 572.7 - Neck pendulum

572.8 - Thorax impact 572.8 - Thorax impact (slow) 572.9 - Torso flexion test 572.9 - Abdomen compression 572.10 - Knee impact (left and right)

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Hybrid III 50th Percentile Male

HIII 50th Male Dummy 49 CFR Part 572 Subpart E 2011-11 572.32 - Head drop

572.33 - Neck pendulum flexion and extension

572.34 - Thorax impact

572.35 - Knee impact (left and right)

572.35 - Hip range of motion (left and right)

78051-9904 User Manual HIII-

50th FAA Male

Hybrid III 50th Male FAA Dummy 78051-218X-FAA User Manual

3.3 - Head drop

Rev. B 3.4 - Neck pendulum (flexion and extension)

2011-06 3.5 - Thorax impact

> 3.6 - Knee impact (left and right) 3.7 - Sliding-Knee Test (left and right) 3.8 - Hip range of motion (left and right)

3.9 - Torso flexion test 3.9 - Abdomen compression

UN-R 94, Annex 10

SA 02 2013-07 UN Regulation No 94 - Uniform provisions concerning the approval

of vehicles with regard to the protection of the occupants in the

event of a frontal collision

Annex 10 Certification procedure for the dummy lower leg and

foot

- Foot impact (left and right)

SAE Engineering AID 23

2000-01

User's Manual for the 50th percentile Male Hybrid III Dummy

- Sliding-Knee Test (left and right)

SAE J2856

Low Speed Knee Slider Test Procedure for the Hybrid III 50th Male

2009-09 Dummy

- Sliding-Knee Test (left and right)

SAE J2779

Low Speed Thorax Impact Test Procedure for the HIII 50th Male

2015-07

Dummy

- 3 m/s Thorax impact

SAE J2876

Low Speed Knee Slider Test Procedure for the Hybrid III 50th Male

2015-05 Dummy

- Sliding-Knee Test low speed (left and right)

SAE J3074

Lumbar Flexion Test Procedure for the Hybrid III 50th Male Dummy

2017-02

- Lumbar flexion test

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Hybrid III 95th Percentile Male

SAE J2860 User's Manual for the Hybrid III Large Male Test Dummy

2012-09 4.1 - Head drop

4.2 - Neck pendulum (flexion and extension)

4.3 - Thorax impact

4.4 - Knee impact (left and right) 4.5 - Sliding-Knee Test (left and right)

5.5 - Torso flexion test

THOR 5th Percentile Female

THOR-5F User Manual

(Rev. 2; SBL-B) 2022-01 THOR-5F

2.1 - Head Impact Test

3.1 - Rigid Disk Impact Test

4.2 - Neck Flexion Dynamic Response with Pendulum4.3 - Neck Extension Dynamic Response with Pendulum4.4 - Neck Lateral Flexion Dynamic Response with Pendulum

4.5 - Neck Torsion Dynamic Response with Pendulum

5.1 - Upper Thorax Impact Test
5.2 - Lower Thorax Impact Test
6.1 - Abdomen Impact Test
7.1 - Upper Leg Impact Test
7.2 - Knee Slider Impact Test
8.5 - Ankle Invasion/Eversion Test

8.6 - Ball of Foot Test 8.7 - Heel of Foot Test

THOR 50th Percentile Male

THOR Qualification Procedures Manual

(NHTSA) 2018-09 THOR 50th Percentile Male Qualification Procedures Manual

in conjunction with ISO/TS 21002:2021

4 - Head impact5 - Face impact

6.7 - Neck torsion

6.8 - Neck pendulum flexion6.9 - Neck pendulum extension

6.10 - Neck pendulum lateral (left and right)

7 - Upper thorax impact

8 - Lower thorax impact (left and right)

9 - Abdomen impact

10 - Knee impact (left and right)

11 - Knee slider impact (left and right)

12 - Ankle eversion and inversion (left and right)

13 - Ball of foot impact (left and right)

14 - Heel impact (left and right)

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THOR-50M EuroNCAP SBL-A Update

2017-01

THOR-50M EuroNCAP SBL-A Update in conjunction with ISO/TS 21002:2021

- Head impactFace impactNeck torsion
- Neck pendulum flexionNeck pendulum extension
- Neck pendulum lateral (left and right)
- Upper thorax impact
- Lower thorax impact (left and right)
- Abdomen impact
- Knee impact (left and right)
- Knee slider impact (left and right)
- Ankle eversion and inversion (left and right)
- Ball of foot impact (left and right)
- Heel impact (left and right)

THOR-50M Standard SBL-B Update (Humanetics) 2018-01 THOR-50M EuroNCAP SBL-A Update in conjunction with ISO/TS 21002:2021

- Head impact- Face impact
- Neck torsion
- Neck pendulum flexionNeck pendulum extension
- Neck pendulum lateral (left and right)
- Upper thorax impact
- Lower thorax impact (left and right)
- Abdomen impact
- Knee impact (left and right)
- Knee slider impact (left and right)
- Ankle eversion and inversion (left and right)
- Ball of foot impact (left and right)
- Heel impact (left and right)

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THOR-50M EuroNCAP

Specification and Certification

Technical Bulletin 026

Version 1.1 2020-08 THOR-50M EuroNCAP Specification and Certification Version 1.1

TB026

in conjunction with ISO/TS 21002:2021

2. THOR Certification

- Head impact

Neck torsion (left and right)Neck pendulum flexionNeck pendulum extension

Neck pendulum lateral (left and right)

Upper thorax impact (4,3 m/s)
Upper thorax impact (2,5 m/s)
Lower thorax impact (left and right)

- Abdomen impact

- Knee impact (left and right)

Side Impact Dummies

SID-IIs

49 CFR Part 572 Subpart V

2009-08

SID-IIsD Side Impact Crash Test Dummy, Small Adult Female

572.192 - Head drop

572.193 - Neck pendulum

572.194 - Shoulder impact (on certification bench)

572.195 - Thorax impact with arm (on certification bench) 572.196 - Thorax impact without arm (on certification bench)

572.197 - Abdomen impact (on certification bench) 572.198 - Pelvis impact (on certification bench) 572.199 - Iliac impact (on certification bench)

EuroSID-2

49 CFR Part 572 Subpart U

2011-11

ES-2re Side Impact Crash Test Dummy, 50th Percentile Adult Male

572.182 - Head drop test 572.183 - Neck pendulum test

572.184 - Shoulder impact test 572.185 - Rib drop test (2 tests)

572.185 - Thorax without arm impact test

572.186 - Abdomen impact test 572.187 - Lumbar flexion test 572.188 - Pelvis impact test

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UN-R 95, Annex 6

SA 03 2014-02 UN Regulation No 95 - Uniform provisions concerning the approval of vehicles with regard to the protection of the occupants in the

event of a lateral collision

Annex 6, Section 5 Certification of the dummy

5.5 - Head drop test
5.6 - Neck pendulum test
5.7 - Shoulder impact test
5.9 - Rip drop test (3 tests)
5.10 - Lumbar flexion test
5.11 - Abdomen impact test
5.12 - Pelvis impact test

WorldSID 5th Percentile Female

W5-9900 User Manual

Rev E 2015-08 User's Manual for the WorldSID 5th Small Adult Female Side Impact

Dummy

in conjunction with ISO/TS 21002:2021 9.1 - Head drop test (front and lateral)

9.2 - Neck pendulum test
9.3 - Shoulder impact test
9.4 - Thorax with arm
9.5 - Thorax without arm
9.6 - Abdomen impact test
9.7 - Pelvis impact test

WorldSID 50th Percentile Male

W50-9900 User Manual

Rev. H 2016-01 User's Manual for the WorldSID 50th percentile Male Side Impact

Dummy

in conjunction with ISO/TS 21002:2021 8.4 - Head drop test (front and lateral)

8.5 - Neck pendulum test 8.7 - Shoulder impact test 8.8 - Thorax without arm 8.9 - Abdomen impact test 8.10 - Pelvis impact test

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ISO/WD 15830-2

2013-05

Design and performance specifications for the WorldSID 50th

Percentile Male Side Impact Dummy

Section 5 in conjunction with ISO/TS 21002:2021

5.1 - Head drop test (front and lateral)

5.2 - Neck pendulum test 5.3.2 - Shoulder impact test 5.3.3 - Thorax with arm 5.3.4 - Thorax without arm 5.3.5 - Abdomen impact test 5.3.6 - Pelvis impact test

WorldSID-50M Qualification

Procedure (NHTSA)

2019-10

WorldSID-50M Qualification Procedures (NHTSA)

Neck torsion (left and right)

Rear Impact Dummy

BioRID II

ARA-9901 BioRID II Dummy

Certification Manual

Rev. E 2019-12 **BioRID II Dummy Certification Manual**

- BioRID sled

- Jacket

- Pelvis

- Dummy

Child Dummies

Hybrid III Children

49 CFR Part 572 Subpart R

2001-10

CRABI 12-Month-Old Infant, Alpha Version

572.152 - Head drop front

572.152 - Head drop rear

572.153 - Neck pendulum (flexion and extension)

572.154 - Thorax impact

49 CFR Part 572 Subpart P

2002-01

3-Year-old Child Crash Test Dummy, Alpha Version

572.142 - Head test

572.143 - Neck pendulum (flexion and extension)

572.144 - Thorax impact 572.145 - Torso flexion

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49 CFR Part 572 Subpart N

2011-06

Six-Year-old Child Test Dummy, Beta Version

572.122 - Head drop

572.123 - Neck pendulum (flexion and extension)

572.124 - Thorax impact 572.125 - Torso flexion

572.126 - Knee impact (left and right)

49 CFR Part 572 Subpart S

2010-12

Six-Year-old Weighted Child Test Dummy

572.162 - Head drop

572.163 - Neck pendulum (flexion and extension)

572.164 - Thorax impact572.165 - Torso flexion

572.166 - Knee impact (left and right)

49 CFR Part 572 Subpart T

2012-02

10-Year-old Child Test Dummy, HIII-10C

572.172 - Head drop

572.173 - Neck pendulum (flexion and extension)

572.174 - Thorax impact 572.175 - Torso flexion

572.176 - Knee impact (left and right)

P-Dummies

UN-R 44, Annex 8

2010-11

UN Regulation No 44 – Uniform provisions concerning the approval of restraining devices for child occupants of power-driven vehicles

('Child Restraint Systems')
Annex 8 Description of manikins

Appendix 1 Description of the 9 months and 3, 6 and 10-year

manikins

Q-Dummies

047-9900 User Manual Q0

Rev. F 2017-07 6week old, Newborn User Manual 5.3 - Head drop (front and lateral)

5.4 - Neck pendulum (flexion, extension, lateral)5.5 - Lumbar test (flexion, extension, lateral)

036-9900 User Manual Q1

Rev. H 2016-08 Advanced 1 year old child User Manual 8.1 - Head drop (front and lateral)

8.2 - Neck pendulum (flexion and lateral) 8.3 - Lumbar test (flexion and lateral)

8.4 - Abdomen test

8.5 - Thorax impact (front and lateral)

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048-9900 User Manual Q1.5 Advanced 1.5 year old child User Manual

Rev. G 8.1 - Head drop (front and lateral) 2015-07 8.2 - Neck flexion (front and lateral)

8.3 - Lumbar test (front and lateral)

8.4 - Abdomen test

8.5 - Thorax impact (front and lateral)

020-9905 User Manual Q3 Advanced 3 year old child User Manual

Rev. G 8.1 - Head drop (front and lateral)
2016-10 8.2 - Neck flexion (front and lateral)
8.3 - Lumbar test (front and lateral)

8.4 - Abdomen test

8.5 - Thorax impact (front and lateral)

020-9900 User Manual Q3s Q3s User Manual

Rev. J 7.1 - Head drop (front and lateral)

2018-02 7.2 - Neck flexion (front, lateral and torsion)

7.3 - Lumbar test (front and lateral)

7.4 - Shoulder test

7.5 - Thorax impact (with/without arm)

7.6 - Abdomen test7.7 - Pelvis impact

033-9900 User Manual Q6 Advanced 6 year old child User Manual

Rev. M

8.1 - Head drop (front and lateral)

8.2 - Neck flexion (front and lateral)

8.3 - Neck flexion (front and lateral)

8.3 - Lumbar flexion (front and lateral)

8.4 - Abdomen test

8.5 - Thorax impact (front and lateral)

010-9900 User Manual Q 10 10.5 year old child User Manual

Rev. G in conjunction with ISO/TS 21002:2021 2016-02 14.1 - 14.3 - Head drop (front and lateral)

14.4 - 14.7 - Neck flexion (flexion, extension and lateral)

14.8 - 14.10 - Lumbar flexion (front and lateral)
14.11 - 14.13 - Thorax impact (front and lateral)
14.14 - Shoulder impact (full arms for frontal dummy)

14.15 - Pelvis impact14.16 - Abdomen impact

14.17 - Shoulder impact (half arms for lateral dummy)

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Impactors

Headform

49 CFR Part 572 Subpart L

1995-08

FMH (Free Motion Headform)

572.102 - Drop test

631/2009/EC Appendix I

2011-09

Commission Regulation (EC) No 631/2009 of 22 July 2009 laying

down detailed rules for the implementation of Annex I to

Regulation (EC) No 78/2009 of the European Parliament and of the Council on the type-approval of motor vehicles with regard to the

protection of pedestrians and other vulnerable road users, amending Directive 2007/46/EC and repealing Directives

2003/102/EC and 2005/66/EC

PART V: TEST IMPACTORS, Appendix I: Certification of impactors,

Section 4: Headform impactors

GTR9 2011-02 Global Technical Regulation No. 9 "PEDESTRIAN SAFETY" 8.3. - Child and adult headform impactors certification

UN-R 127, Annex 6

SA 01 2015-02 Uniform provisions concerning the approval of motor vehicles with

regard to their pedestrian safety performance

Head drop test

Leg Impactors

133-9900 User Manual FLEX

Flex PLI GTR User Manual

PLI GTR

7.2 - Femur and Tibia Bone Assembly Certification

Rev. K

7.3 - Knee Certification

2018-07

8. - Pendulum Dynamic Certification9. - Dynamic Inverse Certification Test

ISO/NP TS 20458

2019-11

Road vehicles Design and performance specifications for advanced

Pedestrian Legform Impactor (aPLI)

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2. Humanetics test specification for head shape for use in the testing of safety helmets

EN17950 Headform

EN17950 Headform CG Measurement Procedure

CG Measurement Procedure

2024-05

EN17950 Headform

EN17950 Headform Friction Measurement Procedure

Friction Measurement

Procedure 2024-11

Abbreviations used:

ATD

Anthropomorphic Test Devices

BioRID

Biofidelic Rear Impact Dummy

CFR

Code of Federal Regulations (Office of the Federal Register, U.S. Government)

EC

European Parliament and of the Council

EuroNCAP

European New Car Assessment Programme

GTR

Global Technical Regulation (Arbeitsgruppe, die ISO zuarbeitet)

ISO

International Organization for Standardisation

NHTSA

National Highway Traffic Safety Administration

SAE

Society of Automotive Engineers

SID

Side Impact Dummy

UN-R

Regulation of the Economic Commission for Europe (ECE)

User Manual

Product documentation from ATD manufacturers (manufacturer specifications)

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