

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that

H. Butting GmbH & Co. KG
Gifhorner Straße 59, 29379 Knesebeck

operates a testing laboratory that fulfills the requirements according to DIN EN ISO/IEC 17025:2018 for those conformity assessment activities specified in detail in the annexes listed below. This includes additional existing legal and normative requirements for the testing laboratory including those in relevant sectoral schemes, provided that these are explicitly confirmed in the annexes listed below.

D-PL-11126-01-01 Valid from: 06.03.2025

D-PL-11126-01-02 Valid from: 06.03.2025

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 accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notice of 02.03.2026. It consists of this cover sheet, the reverse side of the cover sheet and the corresponding annex

Registration number of the accreditation certificate: **D-PL-11126-01-00**

Berlin, 02.03.2026 Dr. Dirk Tscharntke | Head of Technical Unit

Translation issued: 13.04.2026

This accreditation certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS). It is digital sealed and valid without signature. It reflects the status as indicated by the date of issue. The current status of any valid and surveyed accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

DAkkS is a signatory to the multilateral agreements for mutual recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-11126-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 06.03.2025

Date of issue: 02.03.2026

This annex is a part of the accreditation certificate D-PL-11126-01-00.

Holder of partial accreditation certificate:

H. Butting GmbH & Co. KG
Gifhorner Straße 59, 29379 Kneesebeck

with the location

H. Butting GmbH & Co. KG
Prüflaboratorium
Gifhorner Straße 59, 29379 Kneesebeck

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.

manual and mechanized non-destructive testing (radiographic testing and ultrasonic testing) at metallic materials, on welds and steel pipes

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>.

Abbreviations used: see last page

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Flexible Scope of Accreditation:

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates (Flex. Kategorie A).

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 Non-destructive testing

1.1 Radiographic testing

DIN EN ISO 5579 2014-04	Non-destructive testing - Radiographic testing of metallic materials using film and X- or gamma rays - Basic rules
DIN EN ISO 17636-1 2022-10	Non-destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film
DIN EN ISO 17636-2 2023-05	Non-destructive testing of welds - Radiographic testing - Part 2: X- and gamma-ray techniques with digital detectors
DIN EN ISO 10893-6 2019-06	Non-destructive testing of steel tubes - Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections
DIN EN ISO 10893-7 2019-06	Non-destructive testing of steel tubes - Part 7: Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections
DNV-OS-F101 2013	Offshore Standard - Submarine Pipeline Systems: APPENDIX D - Non-Destructive Testing (NDT) - Radiographic examination
DNVGL-ST-F101 2017-12	Offshore Standard - Submarine Pipeline Systems: APPENDIX D - Non-Destructive Testing (NDT) - Radiographic examination
DNV-ST-F101 2021-12	Offshore Standard - Submarine Pipeline Systems: APPENDIX D - Non-Destructive Testing (NDT) - Radiographic examination
API 5L 2018-04	Specification for Line Pipe - Radiographic examination
ASME V 2023-07	ASME Boiler and Pressure Vessel Code, Section V (here: <i>only article 2 - Radiographic examination</i>)

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1.2 Ultrasonic testing

DIN EN ISO 16810 2014-07	Non-destructive testing - Ultrasonic testing - General principles
DIN EN ISO 10893-8 2020-10	Non-destructive testing of steel tubes - Part 8: Automated ultrasonic testing of seamless and welded steel tubes for the detection of laminar imperfections
DIN EN ISO 10893-9 2020-10	Non-destructive testing of steel tubes - Part 9: Automated ultrasonic testing for the detection of laminar imperfections in strip/plate used for the manufacture of welded steel tubes
DIN EN ISO 10893-10 2020-10	Non-destructive testing of steel tubes - Part 10: Automated full peripheral ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of longitudinal and/or transverse imperfections
DIN EN ISO 10893-11 2020-10	Non-destructive testing of steel tubes - Part 11: Automated ultrasonic testing of the weld seam of welded steel tubes for the detection of longitudinal and/or transverse imperfections
DNV-OS-F101 2013	Offshore Standard - Submarine Pipeline Systems: APPENDIX D - Non-Destructive Testing (NDT) : - Ultrasonic examination
DNVGL-ST-F101 2017-12	Offshore Standard - Submarine Pipeline Systems: APPENDIX D - Non-Destructive Testing (NDT) : - Ultrasonic examination
DNV-ST-F101 2021-12	Offshore Standard - Submarine Pipeline Systems: APPENDIX D - Non-Destructive Testing (NDT) - Ultrasonic examination
ASTM A 577/A 577M 2017	Standard Specification for Ultrasonic Angle-Beam Examination of Steel Plates
ASTM A 578/A 578M 2017	Standard Specification for Straight-Beam Ultrasonic Examination of Rolled Steel Plates for Special Applications
ASTM E 213 2022	Standard Practice for Ultrasonic Testing of Metal Pipe and Tubing
ASTM E 273 2020	Standard Practice for Ultrasonic Testing of the Weld Zone of Welded Pipe and Tubing
API 5L 2018-04	Specification for Line Pipe - Ultrasonic examination

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Abbreviations used:

ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
API	American Petroleum Institute
CEN	European Committee for Standardization
DIN	German Institute for Standardization
DNVGL	Det Norske Veritas - Germanischer Lloyd
DNV-OS	Det Norske Veritas - Offshore Standard
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization

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Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11126-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 06.03.2025

Date of issue: 17.04.2026

This annex is part of the Accreditation Certificate D-PL-11126-01-00.

Holder of the Accreditation Certificate:

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Gifhorner Straße 59, 29379 Knesebeck

with the location

H. Butting GmbH & Co. KG
Prüflaboratorium
Gifhorner Straße 59, 29379 Knesebeck

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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.

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Annex to the Accreditation Certificate D-PL-11126-01-02

Tests in the fields:

**Mechanical, metallographic, and corrosion tests on metallic materials;
material tests of steel and iron materials as well as nickel-based alloys using optical spark emission
spectrometry**

Flexible Scope of Accreditation:

**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.**

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1 Mechanical-technological tests on metallic materials [Flex A]

1.1 Strength tests

ASTM A264-12 2012	Standard Specification for Stainless Chromium-Nickel Steel-Clad Plate
ASTM A265-12(2019) 2012	Standard Specification for Nickel and Nickel-Base Alloy-Clad Steel Plate
ASTM E8/E8M-24 2024	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E21-20 2020	Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials
DIN EN ISO 4136 2022-09	Destructive tests on welds in metallic materials – Transverse tensile test
DIN EN ISO 6892-1 2020-06	Metallic materials – Tensile testing – Part 1: Method of test at room temperature
DIN EN ISO 6892-2 2018-09	Metallic materials – Tensile testing – Part 2: Method of test at elevated temperature

1.2 Toughness tests

ASTM E23-24 2024	Test Methods for Notched Bar Impact Testing of Metallic Materials
DIN EN ISO 148-1 2017-05	Metallic materials – Charpy pendulum impact test – Part 1: Test method

1.3 Härteprüfungen

ASTM E10-23 2023	Standard Test Method for Brinell Hardness of Metallic Materials
ASTM E18-24 2024	Standard Test Methods for Rockwell Hardness of Metallic Materials
ASTM E92-23 2023	Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials

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DIN EN ISO 6506-1 2015-02	Metallic materials – Brinell hardness test – Part 1: Test method
DIN EN ISO 6507-1 2024-01	Metallic materials – Vickers hardness test – Part 1: Test method
DIN EN ISO 6508-1 2024-04	Metallic materials – Rockwell hardness test – Part 1: Test method
DIN EN ISO 9015-1 2011-05	Destructive tests on welds in metallic materials – Hardness testing – Part 1: Hardness test on arc welded joints
DIN EN ISO 9015-2 2016-10	Destructive tests on welds in metallic materials – Hardness testing – Part 2: Microhardness testing of welded joints

2 Deformability tests on metallic materials and pipes [Flex A]

DIN EN ISO 5173 2023-05	Destructive tests on welds in metallic materials – Bend tests
DIN EN ISO 7438 2021-03	Metallic materials – Bend test
DIN EN ISO 8492 2014-03	Metallic materials – Tube – Flattening test
DIN EN ISO 8493 2004-10	Metallic materials – Tube – Drift-expanding test
DIN EN ISO 8496 2014-03	Metallic materials – Tube – Ring tensile test
DIN EN ISO 9017 2018-04	Destructive tests on welds in metallic materials – Fracture test

3 Corrosion tests [Flex A]

ASTM A262-15 2015	Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels
ASTM A923-23 2023	Standard Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels

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ASTM G28-22 2022	Standard Test Methods for Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys
ASTM G48-11 2011	Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution
DIN EN ISO 3651-2 1998-08	Determination of resistance to intergranular corrosion of stainless steels – Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels – Corrosion test in media containing sulfuric acid
SEP 1877 1994-07	Test of the resistance of high-alloy, corrosion-proof materials against intercrystalline corrosion

4 Roughness measurement [Flex A]

DIN EN ISO 21920-3 2022-12	Geometrical product specifications (GPS) – Surface texture: Profile – Part 3: Specification operators
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5 Metallographic tests [Flex A]

ASTM E112-24 2024	Standard Test Methods for Determining Average Grain Size
ASTM E562-19 2019	Standard Test Method for Determining Volume Fraction by Systematic Manual Point Count
ASTM E1245-03(2016) 2003	Standard Practice for Determining the Inclusion or Second-Phase Constituent Content of Metals by Automatic Image Analysis
DIN EN ISO 643 2020-06	Steels – Micrographic determination of the apparent grain size
DIN EN ISO 17639 2022-05	Destructive tests on welds in metallic materials – Macroscopic and microscopic examination of welds
DIN EN ISO 17781 2017-11	Petroleum, petrochemical and natural gas industries – Test methods for quality control of microstructure of ferritic/austenitic (duplex) stainless steels

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6 Optical emission spectrometry

AA-WPL SPECTRO-01
2024-06

Regulations for carrying out optical emission spectrometry to determine the chemical composition of metal alloys;
Iron-based alloys: determination of alloying elements
C, Si, Mn, P, S, Cr, Ni, Mo, Cu, Ti, Nb, Al, N, Fe, B
Nickel-based alloys: determination of alloying elements
C, Si, Mn, P, S, Cr, Mo, Fe, V, W, Cu, Al, Nb, Ti, Ni

Abbreviations used:

AA-WPL SPECTRO	In-house procedure of H. BUTTING GmbH & Co. KG
ASTM	American Society for Testing and Materials
DIN	German Institute for Standardization
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
SEP	Steel-iron test sheets from the Association of German Ironworkers

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