



China National Accreditation Service for Conformity Assessment
LABORATORY ACCREDITATION CERTIFICATE
(Registration No. CNAS L24094)

Dongying Giayoung Precision Metal Co., Ltd.
Laboratory

(Legal Entity: Dongying Giayoung Precision Metal Co., Ltd.)

No.1049, Xiwu Road, Dongying District, Dongying, Shandong, China

is accredited in accordance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule forms an integral part of this certificate.

Effective Date: 2025-09-05

Expiry Date: 2031-09-04

Signed on behalf of China National Accreditation Service for Conformity Assessment

徐朝华

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA).

The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>.

Name: Dongying Giayoung Precision Metal Co., Ltd. Laboratory
Address: No.1049, Xiwu Road, Dongying District, Dongying, Shandong, China
Registration No. CNAS L24094
Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS
Effective Date: 2025-09-05 Expiry Date: 2031-09-04

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Metals and Alloys (Chemical Composition)	1	C、Si、Mn、P、 S、Cr、Ni、Mo、 Cu、V、Ti、Al、 B、W、Co、Nb、 Sn	Method for photoelectric emission spectroscopic analysis of carbon steel,medium and low alloy steel GB/T 4336-2016	Accredited only for C: 0.150%~0.87%、 Si: 0.209%~1.2%、 Mn: 0.295%~1.6%、 Ni: 0.014%~3.0%、 Cu: 0.02%~	2025-09-05



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					0.7%、 Ti: 0.015%~ 0.133%、 W: 0.06%~ 0.55%	
		2	C、Si、Mn、P、 S、Cr、Ni、Mo、 Cu、V、Ti、Al、 B、Co、Nb	Stainless steel--Determination of multi-element contents--Spark discharge atomic emission spectrometric method(Routine method) GB/T 11170-2008	Accredited only for Si: 0.196%~ 2.00%、 Mn: 0.292%~ 8.64%、 P: 0.012%~ 0.037%、 S: 0.005%~ 0.028%、 Cr: 8.71%~ 26.2%、 Cu: 0.04%~ 3.27%、	2025-09-05



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					V: 0.04%~ 0.22%、 Ti: 0.03%~ 0.466%、 Al: 0.02%~ 0.104%、 B: 0.0020%~ 0.0023%、 Co: 0.016%~ 0.209%、 Nb: 0.03%~ 2.04%	
		3	C、 Si、 Mn、 P、 S、 Cr、 Ni、 Mo、 Cu	Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry ASTM E1086-2022	Accredited only for C: 0.012%~ 0.135%、 Si: 0.311%~ 0.90%、 Mn:	2025-09-05



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					0.599%~ 1.71%、 P: 0.012%~ 0.037%、 S: 0.003%~ 0.028% 、 Mo: 0.043%~ 3.0%、 Cu: 0.023%~ 0.30%	
2	Metal materials and products (mechanical properties)	1	tensile test	Metallic materials—Tensile testing—Part 1: Method of test at room temperature GB/T 228.1-2021	Accredited only for Fm≤300kN 的 Rp、Rm、Fm、A、Z	2025-09-05
				Metallic materials - Tensile testing - Part 1: Method of test at room temperature EN ISO 6892-1-2019	Accredited only for Fm≤300kN 的 Rp、Rm、Fm、A、Z	2025-09-05
				Standard Test Methods and Definitions for Mechanical Testing of Steel Products ASTM A370-24a 6-14~12, ANNEXESA1、	Accredited only for	2025-09-05



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				A8	Fm≤300kN 的 Rp、 Rm、 Fm、 A、 Z	
		2	bending test	Metallic materials—Bend testing method GB/T 232-2024	Accredited only for roller type, bending head 4mm, 8mm, force value less than 200kN, bending Angle 180°, 120°, 90°	2025-09-05
		3	High Temperature Tensile Testing	Metallic materials—Tensile testing—Part 2: Method of test at elevated temperature GB/T 228.2-2015	Accredited only for 200℃~ 1000℃下 的: Fm≤200kN 的 Rp、 Rm、 Fm、 A、 Z	2025-09-05
				Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature EN ISO 6892-2 2018	Accredited only for 200℃~	2025-09-05



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					1000℃下的: Fm≤200kN 的 Rtp、 Rm、Fm、 A、Z	
		4	Brinell hardness	Metallic materials--Brinell hardness test--Part 1:Test method GB/T 231.1-2018	Accredited only for HBW10/30 00、 HBW5/750 、 HBW5/250 、 HBW2.5/1 87.5	2025-09-05
				Standard Test Method for Brinell Hardness of Metallic Materials ASTM E10-2023	Accredited only for HBW10/30 00、 HBW5/750 、 HBW5/250 、 HBW2.5/1 87.5	2025-09-05
		5	Rockwell hardness	Metallic material--Rockwell hardness test--Part 1 GB/T 230.1- 2018	Accredited only for HRA、	2025-09-05



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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					HRBW、 HRC	
				Standard Test Methods for Rockwell Hardness of Metallic Materials ASTM E18-2024	Accredited only for HRA、 HRBW、 HRC	2025-09-05
		6	Diamond pyramid hardness	Metallic materials—Vickers hardness test—Part 1: Test method GB/T 4340.1-2024	Accredited only for HV10、 HV5、 HV1	2025-09-05
		7	Leeb hardness	Metallic materials -- Leeb hardness test -- Part 1:Test method GB/T 17394.1-2014		2025-09-05
		8	impulse test	Metallic materials—Charpy pendulum impact test method GB/T 229-2020	Accredited only for KV2 at temperature s below 300J and from room temperature to -196℃	2025-09-05
				Metallic materials - Charpy pendulum impact test - Part 1: Test method ISO 148-1-2016	Accredited only for KV2 at temperature s below 300J and from room	2025-09-05



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					temperature to -196°C	
				Standard Test Methods and Definitions for Mechanical Testing of Steel Products ASTM A370-24a 20-29	Accredited only for KV8 at temperatures below 300J and from room temperature to -196°C	2025-09-05
3	Metal materials and products (microstructure)	1	Microstructure	Metal--Inspection method of microstructure GB/T 13298-2015		2025-09-05
		2	Surface layer depth/thickness	Determination of depth of decarburization of steels GB/T 224-2019	Accredited only metallographic method, hardness method	2025-09-05
		3	Non-metallic inclusion content	Determination of content of nonmetallic inclusions in steel—Micrographic method using standard diagrams GB/T 10561-2023	Accredited only for Method A	2025-09-05
		4	Microstructure inspection and rating	Method for determining content of the α -phase in stainless steels GB/T 13305-2024	Accredited only for Comparison of standard rating charts; 2. Quantitativ	2025-09-05

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				ASTM E562-2019e1	e analysis method of metallographic image software	2025-09-05
4	Metal materials and products (Corrosion test)	1	local corrosion test	Corrosion of metals and alloys--Test methods for intergranular corrosion of stainless steels GB/T 4334-2020	Accredited only for Method A, Method E, Method F and Method G	2025-09-05
				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 ISO 3651-2-1998		2025-09-05
				Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution ASTM G48-2011(2020)e1	Accredited only for Method A	2025-09-05
				Standard Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels ASTM A923-2023		2025-09-05
				Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels ASTM A262-2015(2021)	Accredited only for Method E	2025-09-05
		2	salt mist test	Corrosion tests in artificial atmospheres—Salt spray tests GB/T 10125-2021	Accredited only for conduct neutral salt	2025-09-05

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					spray test (NSS)	
				Corrosion tests in artificial atmospheres - Salt spray tests ISO 9227-2022	Accredited only for conduct neutral salt spray test (NSS)	2025-09-05
		3	dew cycle corrosion tester	Environmental testing - Part 2: Test methods - Test Kb: Salt mist, cyclic (sodium chloride solution) GB/T 2423.18-2021	Accredited only for conduct neutral salt spray test	2025-09-05
				Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution) (Edition 3.0) IEC 60068-2-52-2017	Accredited only for conduct neutral salt spray test	2025-09-05
5	universal parts	1	Geometrical quantity	Geometrical product Specifications (GPS)--Geometrical tolerance--Verification prescription GB/T 1958-2017	Accredited only for $X \times Y \times Z < 700\text{mm} \times 1000\text{mm} \times 700\text{mm}$	2025-09-05



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