



# CERTIFICATE

TUV SUD BABT Unlimited

certifies that

**Dongying Giayoung Precision Metal Co., Ltd.**  
**No 1049, Tianshan Road, Dongying City,**  
**Shandong Province, 257067, P. R. China**

has implemented, operates and maintains a

**Quality Assurance System in accordance with the**  
**Pressure Equipment (Safety) Regulation 2016/1105, Schedule 2, Part. 4, Para.**  
**31 (8) as well as EN 764-5, Para. 4.2**

as a material manufacturer for the scope of

steel castings in ferritic and austenitic steels.

The scope of the approval is described in the annex to this certificate.  
Further details are mentioned in report no. C-285172-22.


The manufacturer is therefore authorized to issue certificates of specific product control within the scope of the assessed quality system and in accordance with the Pressure Equipment (Safety) Regulation 2016/1105. Possible additional requirements - specific to applied technical specifications to meet PER 2016/1105, Schedule 2 - are not affected.

This certificate is valid through 2025-04-18.

**In order to adhere the validity an annual surveillance audit is required.**

Certificate No.: PER-0168-QS-M 3200733/2022/MUC-01  
Fareham, April 19<sup>th</sup>, 2022

TÜV SUD BABT Unlimited

  
(M. Strobel)

**Certification Body**  
Materials and Permanent Joining

TUV SUD BABT Unlimited  
Octagon House, Concorde Way Segensworth North,  
Fareham, Hampshire, PO 15 5RL, United Kingdom

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19.04.2022

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**Scope of the approval – Manufacturer of material in accordance with PER 2016/1105, Schedule 2, Part 4, Para. 31 (8)**

**Annex to certificate no. PER-0168-QS-M 3200733/2022/MUC-01 von / dated 2022-04-19**

Name: Dongying Giayoung Precision Metal Co., Ltd	Country: CHN	Date: rev. 0 2022-04-19	Page: 1 of 1	<b>Competent Body of TUV SUD B A B T Unlimited</b>
Manufacturer: Street: No 1049, Tianshan Road, Dongying City, City: Shandong Province, 257067, P. R. China				

No.	Material Designation Material Grade	Material Specification		Delivery Condition Code	Description Product	Dimensions				Weight		Requirements Technical Rules		Report no. 285172 dated 2022-03-21
		Spec.	No.			Thickness [mm]		Diameter [mm]		1=t	value	Spec.	No.	Remarks
						from	to	from	to	2=kg ↓				
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
01	GX5CrNi19-10 (1.4308) GX5CrNiMo19-11-2 (1.4408) GX2CrNiMo19-11-2 (1.4409)	EN	10213	AT	Investment castings	5	50	25	410	2	100			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.  <b>Repair and production welding for category 2-4 acc. to PER Schedule 2, 21 (3) are not allowed. For production welds a process approval test in acc. with EN ISO 11970 is mandatory.</b>  <b>For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.</b>
02	GX4CrNi13-4 (1.4317)	EN	10213	QT	Investment castings	5	50	25	410	2	100			
03	GP240GH (1.0619)	EN	10213	N	Investment castings	5	50	25	300	2	100			
04	GX2CrNiMoN22-5-3 (1.4470)	EN	10213	AT	Investment castings	5	90	30	420	2	60			
05*)	CD3MN (4A)	ASTM	A995	AT	Investment castings	5	90	30	420	2	60			
06*)	CD3MN (4A)	ASTM	A890	AT	Investment castings	5	90	30	420	2	60			
07*)	CA6NM	ASTM	A743	NT	Investment castings	5	50	25	300	2	100			
08*)	CX2MW	ASTM	A494	AT	Investment castings	5	90	30	420	2	60			
09*)	CF8, CF8M, CF3M	ASTM	A351	AT	Investment castings	5	50	25	410	2	100			
10*)	WCB	ASTM	A216	N	Investment castings	5	50	25	410	2	100			
11*)	CE8MN (2A), CE3MN (5A)	ASTM	A995	AT	Investment castings	2	100	8	420	2	200			

**Explanation:** AT = solution annealed NT = normalized and tempererd N = normalized S = stress relieved TM = thermo-mech. treated U = not annealed  
 QT = quenched and tempered CR = temperature controlled hot formed (controlled rolled) A = annealed AR = as rolled  
 a = material designation in column 10 b = condition in column 10 c = object in column 10  
 d = dimensions acc. to technical rules e = weight acc. to technical rules f = technical rules reference column 10