

# Certificate

## Quality-Assurance System for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 CHN/Q-05 0195

Name and address of the manufacturer: **Jiangyin City Haifeng Metals Economic Trade Co., Ltd. (JHF) Longyuan Road, Zhouxi Industrial Park, Zhouzhuang, Jiangyin City, Jiangsu Provinco, P. R. China 214423**

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 2014/68/EU, Annex I, Par. 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to Directive 2014/68/EU: **QM System acc. to EN 764-5, article 4.2 and AD 2000-Merkblatt W0**

Audit report no.: CHN/Q-05 0195

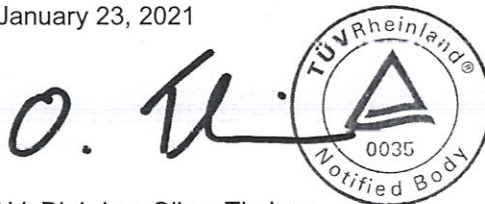
Area of validity: Manufacturing of Forged Steel Flanges, see annex to certificate

Manufacturing plant: Jiangyin City Haifeng Metals Economic Trade Co., Ltd. (JHF) Longyuan Road, Zhouxi Industrial Park, Zhouzhuang, Jiangyin City, Jiangsu Province, P. R. China 214423

Valid until: January 23, 2021

Cologne, April 14, 2018

i.V. Dipl.-Ing. Oliver Theisen



TÜV Rheinland Industrie Service GmbH  
Notifizierte Stelle für Druckgeräte, Kennnummer: 0035  
Am Grauen Stein, D-51105 Köln

E-008-D-Rev22

# Zertifikat

## Qualitätsmanagement-System für Werkstoffhersteller nach Richtlinie 2014/68/EU

Zertifikat Nr.: 01 202 CHN/Q-05 0195

Name und Anschrift des Herstellers: **Jiangyin City Haifeng Metals Economic Trade Co., Ltd.**  
(JHF) Longyuan Road, Zhouxi Industrial Park,  
Zhouzhuang, Jiangyin City, Jiangsu Province,  
P. R. China 214423

Hiermit wird bescheinigt, dass der Hersteller ein QM-System eingeführt hat und anwendet. Dieses wurde gemäß der Richtlinie 2014/68/EU, Anhang I, Kap 4.3 in Bezug auf die im Geltungsbereich genannten Werkstoffe einer spezifischen Überprüfung unterzogen.

Geprüft nach Richtlinie 2014/68/EU **QM-System nach EN 764-5, Abschnitt 4.2 und A1 2000-Merkblatt W0**

Auditbericht Nr.: CHN/Q-05 0195

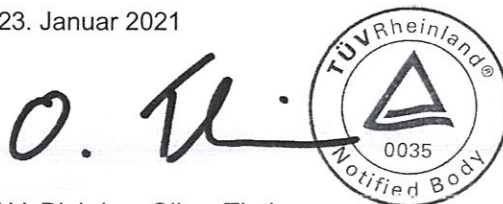
Geltungsbereich: Herstellung von geschmiedeten Stahl-Flanschen, siehe Anlage zum Zertifikat

Fertigungsstätte/Lieferer: Jiangyin City Haifeng Metals Economic Trade Co., Ltd.  
(JHF) Longyuan Road, Zhouxi Industrial Park, Zhouzhuang,  
Jiangyin City, Jiangsu Province,  
P. R. China 214423

Gültig bis: 23. Januar 2021

Köln, 14. April 2018

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Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011 (System 2+)
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Manufacturer		Work		Nationality	Date	Page No.:	TÜV-Name /Stamp
Company Name: Jiangyin City Haifeng Metals Economic Trade Co., Ltd. (JH-F)		Longyun Road, Zhouxi Industrial Park, Zhouzhuang, Jiangyin City, Jiangsu Province, P.R.China 214423		P.R.China	2018.2.15	1	TÜV Rheinland Industrie Service GmbH
Location: Jiangyin City, Jiangsu Province, P.R.China 214423		Jiangsu Province, P.R.China 214423			Rev.:2	of : 3	

Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions (b)				Weight Max. 1=V/2=Kg	Technical Specification Requirements	Remarks	
					Thickness mm	from to	from to	from to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10

**1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU**

The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification of a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.

1	1.4301	EN10222-1-5	+AT	Forged Flanges	-	150	-	600	2	200	PEED 2014/68/EU	<p>The pre-material of steel ingots and bars should be purchased from PED approved manufacturer within the approved scope.</p> <p>If the pre-material and steel flanges grade and/or size outside approved scope, the material should be inspected and issued EN10204 3.2 certificates by TÜV Rheinland Group.</p> 
2	1.4306/ 1.4307	EN10222-1-5	+AT	Forged Flanges	-	150	-	600	2	200	PEED 2014/68/EU	
3	1.4401	EN10222-1-5	+AT	Forged Flanges	-	150	-	600	2	200	PEED 2014/68/EU	
4	1.4404	EN10222-1-5	+AT	Forged Flanges	-	150	-	600	2	200	PEED 2014/68/EU	
5	1.4541	EN10222-1-5	+AT	Forged Flanges	-	150	-	600	2	200	PEED 2014/68/EU	
6	1.4571	EN10222-1-5	+AT	Forged Flanges	-	150	-	600	2	200	PEED 2014/68/EU	

**Remarks**

+AT = solution annealed  
 +AR = as rolled  
 +M = thermo mechanical treated  
 +N = normalized or normalizing formed

+NT = normalized and tempered  
 +QT = quenched and tempered  
 +S = soft annealed  
 +SR = stress relieved

a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary

Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)
Manufacturer		Work		Nationality
Company Name: Jiangyin City Haiteng Metals Economic Trade Co., Ltd.(JHF)		Longyun Road, Zhouxi Industrial Park, Zhouzhuang, Jiangyin City, Jiangsu Province, P.R.China 214423		P.R.China
Location: Jiangyin City, Jiangsu Province, P.R.China 214423		Longyun Road, Zhouxi Industrial Park, Zhouzhuang, Jiangyin City, Jiangsu Province, P.R.China 214423		Date: 2018.2.15
				Page No.: 2
				Rev.:2 of: 3
				TÜV-Name/Stamp: TÜV Rheinland Industrie Service GmbH

**2. Materials according to the AD 2000-Code**

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.

1	2	3	4	5	Dimensions (b)				Weight Max. 1=V/2=Kg	Technical Specification Requirements	Remarks	
					Thickness mm	∅ mm	f to m	Up to				from
1	1.4301	EN10222-1,-5	+AT	Forged Flanges	-	150	-	600	2	200	AD2000 W2/W9/W10	If the pre-material and steel flanges grade and/or size outside approved scope, the material should be inspected and issued EN10204 3.2 certificates by TÜV Rheinland Group.  The thickness ranges which require either 3.1 or 3.2 certificate should according to table 3 of AD2000-W2.
2	1.4306/ 1.4307	EN10222-1,-5	+AT	Forged Flanges	-	150	-	600	2	200	AD2000 W2/W9/W10	
3	1.4401	EN10222-1,-5	+AT	Forged Flanges	-	150	-	600	2	200	AD2000 W2/W9/W10	
4	1.4404	EN10222-1,-5	+AT	Forged Flanges	-	150	-	600	2	200	AD2000 W2/W9/W10	
5	1.4541	EN10222-1,-5	+AT	Forged Flanges	-	150	-	600	2	200	AD2000 W2/W9/W10	
6	1.4571	EN10222-1,-5	+AT	Forged Flanges	-	150	-	600	2	200	AD2000 W2/W9/W10	



**Remarks**

+AT = solution annealed  
 +AR = as rolled  
 +M = thermo mechanical treated  
 +N = normalized or normalizing formed

+NT = ncrmalized and tempered  
 +QT = quenched and tempered  
 +S = soft annealed  
 +SR = stress relieved

a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary



Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011 (System 2+)
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Manufacturer	Work	Nationality	Date	Page No..
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Company Name: Jiangyin City Haifeng Metals Economic Trade Co., Ltd. (JHF)  
 Location: Longyun Road, Zhouxi Industrial Park, Zhouzhuang, Jiangyin City, Jiangsu Province, P.R.China 214423

Longyun Road, Zhouxi Industrial Park, Zhouzhuang, Jiangyin City, Jiangsu Province, P.R.China 214423

Article Type of Product

Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Dimensions (b)		Weight max	Technical Specification Requirements	Remarks
				Thickness mm	Ø mm			
1	2	3	4	From mm to	from mm to	1=tl 2=Kg ↓ res ult	Technical Regulations	10

**3. Materials according to international standards (e.g. ASTM, ASME, IBR etc.)**

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.

1	A105	ASTM A105	N, NT and/or QT	Forged Flanges	150	-	600	2	200	PED 2014/68/EU	If the pre-material and steel flanges grade and/or size outside approved scope, the material should be inspected and issued EN10204 3.2 certificates by TÜV Rheinland Group.  PMA for the use in pressure equipment in Directive 2014/68/EU necessary
2	316Ti	ASTM A276	+AT	Forged Flanges	150	-	600	2	200	PED 2014/68/EU	
3	F304/ F304L	ASTM A182/ ASTM A365	+AT	Forged Flanges	150	-	600	2	200	PED 2014/68/EU	
4	F316/ F316L	ASTM A182/ ASTM A365	+AT	Forged Flanges	150	-	600	2	200	PED 2014/68/EU	
5	SUS F304	JIS G3214/ JIS G4303	+AT	Forged Flanges	150	-	600	2	200	PED 2014/68/EU	
6	SUS F316	JIS G3214/ JIS G4303	+AT	Forged Flanges	150	-	600	2	200	PED 2014/68/EU	



<b>Results</b>	+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed	+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
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