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Internet: www.tuvsud.cn

	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-001** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Carbon Steel Type 235** **ASTM A105 A105** **MDS C34S Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer:** [redacted] **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥800℃.** **-Normalized at 910±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120056; BLD-LX25120056; BLD-LX25120057; 2512YJ2565; 2512YJ2566; 2512YJ2567**	**405**	**405**	**4410**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-002** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Carbon Steel Type 235LT** **ASTM A350 LF2 Class 1** **MDS C44S Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer:** [redacted] **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥800℃.** **-Quenched at 910±10℃ and tempered at 610±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120063; BLD-LX25120058; BLD-LX25120059; 2512YJ2562; 2512YJ2563; 2512YJ2564**	**420**	**420**	**3710**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.
This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-003** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Carbon Steel Type 360LT** **ASTM A694 F52** **MDS C54S Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥800℃.** **-Normalized at 920±10℃ and tempered at 640±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120064; BLD-LX25120062; BLD-LX25120063; 2512YJ2559; 2512YJ2560; 2512YJ2561**	**404**	**404**	**3535**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-004** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Ferritic / Austenitic Stainless Steel, Type 22Cr duplex** **ASTM A182 F51, UNS S31803** **MDS D44 Rev.6 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥900℃.** **-Solution at 1050±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120075; BLD-LX25120072; BLD-LX25120073; 2512YJ2586; 2512YJ2588**	**402**	**402**	**2664**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.
This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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BLD	**Qualification Test Record (QTR)** **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-005** Rev. No.: **01**

Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Ferritic / Austenitic Stainless Steel, Type 22Cr duplex** **ASTM A182 F60, UNS S32205** **MDS D44 Rev.6 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥850℃.** **-Solution at 1050±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120081; BLD-LX25120078; BLD-LX25120079; 2512YJ2585; 2512YJ2583; 2512YJ2584**	**405**	**405**	**3859**	**All**

Qualification /Acceptance Signatures

Manufacturer: **Shanxi Baolongda Forging Co., Ltd.**	Prepared By/Date: [redacted] 2026-02-25	Checked By/Date: [redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address): **TÜV SÜD Certification and Testing (China) Co., Ltd.** **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	Signature/Date: [redacted] / 2026-02-25 [redacted]

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-006** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Ferritic / Austenitic Stainless Steel, Type 25Cr duplex** **ASTM A182 F53, UNS S32750** **MDS D54 Rev.6 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥900℃.** **-Solution at 1050±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120082; BLD-LX25120080; BLD-LX25120081; 25YDF4176; 25YDF4177; 2512YJ2591**	**305**	**305**	**1191**	**All**

Qualification /Acceptance Signatures

Manufacturer: **Shanxi Baolongda Forging Co., Ltd.**	Prepared By/Date: [redacted] 2026-02-25	Checked By/Date: [redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.
This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address): **TÜV SÜD Certification and Testing (China) Co., Ltd.** **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	Signature/Date: [redacted] / 2026-02-25 [redacted]

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-007** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Ferritic / Austenitic Stainless Steel, Type 25Cr duplex** **ASTM A182 F55, UNS S32760** **MDS D54 Rev.6 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥850℃.** **-Solution at 1120±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120093; BLD-LX25120085; BLD-LX25120086; 25YDF4179; 5YDF4180; 25YDF4181; 2512YJ2592; 2512YJ2594; 2512YJ2593**	**305**	**305**	**1383**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.
This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-008** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Austenitic Stainless Steel, Type 316** **ASTM A182 F316 (F316L)** **MDS S14 Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥850℃.** **-Solution at 1050±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120065; BLD-LX25120064; BLD-LX25120065; 2512YJ2577; 2512YJ2578; 2512YJ2579**	**403**	**403**	**3600**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-009** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Austenitic Stainless Steel, Type 6Mo** **ASTM A182 F44 UNS S31254** **MDS R14 Rev.6 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥850℃.** **-Solution at 1160±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120066; BLD-LX25120066; BLD-LX25120067; 25YDF4173; 2512YJ2580; 2512YJ2581; 2512YJ2582**	**205**	**205**	**434**	**All**

Qualification /Acceptance Signatures

Manufacturer: **Shanxi Baolongda Forging Co., Ltd.**	Prepared By/Date: [redacted] 2026-02-25	Checked By/Date: [redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address): **TÜV SÜD Certification and Testing (China) Co., Ltd.** **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	Signature/Date: [redacted] / 2026-02-25 [redacted]

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Internet: www.tuvsud.cn

	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-010** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**Nickel Alloy type 625** **ASTM B564 UNS N06625** **MDS N14 Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer: [redacted]** **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥850℃.** **-Annealed at 1040±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120074; BLD-LX25120070; BLD-LX25120071; 2512YJ2574; 2512YJ2575; 2512YJ2576**	**155**	**155**	**260**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

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BLD	**Qualification Test Record (QTR)** **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-011** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**High Strength Low Alloyed Steel, type AISI 4140** **ASTM A788 AISI 4140** **MDS X24S Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer:** [redacted] **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥850℃.** **-Quenched at 850±10℃ and tempered at 680±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120094; BLD-LX25120087; BLD-LX25120088; 2512YJ2572; 2512YJ2571; 2512YJ2573**	**405**	**405**	**2923**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.
This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-012** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**High Strength Low Alloyed Steel, type AISI 4130** **API 6A 60K AISI 4130 PSL3** **MDS X14S Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer:** [redacted] **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥850℃.** **-Quenched at 920±10℃ and tempered at 600±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120064; BLD-LX25120095; BLD-LX25120096; 2512YJ2568; 2512YJ2569; 2512YJ2570**	**405**	**405**	**2510**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

This acceptance does not exempt any purchaser from this responsibility to ensure that this qualification is valid for this product within the essential variables of NORSOK M-650.

Qualified/ Accepted by (Company Name and Address):	Signature/Date:
TÜV SÜD Certification and Testing (China) Co., Ltd. **Beijing Branch** M Building, No. 7 Wangjing Zhonghuan Nanlu, Chaoyang District, Beijing 100102, P.R. China Tel.: + 86 10 6590 -6186 Fax: +86 10 6590-6182 https://www.tuvsud.cn	[redacted] / 2026-02-25

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	Qualification Test Record (QTR) **NORSOK M-650**	QTR No.: **IS-BJ-FA2026-BLD-013** Rev. No.: **01**
Manufacturer Name/ Address/ Web Page:	**Shanxi Baolongda Forging Co., Ltd.** **Wei Village, Shenshan Town, Dingxiang County, 035400, Xinzhou City, Shanxi Province, P. R. China** **https://www.bldflanges.com**	
Reference Standard:	**NORSOK STANDARD M-650, Rev 4, September 2011**	
Material Designation and MDS NO.:	**High Strength Low Alloyed Steel** **ASTM A182 F22 SMYS 415, 450, 485** **MDS X34S Rev.1 acc. to NORSOK M-630:2020**	
Manufacturing Summary Doc. No.:	**BLD-M650-001**	Rev. No.: **01**
Products and Manufacturing Process(es):	**Forgings - Flanges, open die forging** **Production route No.: BLD-M650-001 Rev. 01**	
Mandatory Condition and Sub-contractors:	**-Start material manufacturer:** [redacted] **-Hot forged, intial forging temp.: ≤1180℃, final forging temp.: ≥800℃.** **-Quenched at 920±10℃ and tempered at 740±10℃.** **-Forgings shall be machined as close as possible to final shape prior to quality heat treatment.** **-Verified heat treatment furnace (No.: RCL-05, 1411-4, RCL-03)**	
Other Information:	**-All tests shall be performed in an ISO/IEC 17025 accredited laboratory.** **-The material certificate shall be issued in accordance with EN 10204 Type 3.1.**	
Qualification expires:	**Qualification valid until 2031-02-24**	

Tested and Qualified Thickness and Weight

Products and Manufacturing Process(es):	Test Record No.:	Tested Thickness (mm)	Qualificied Thickness (mm)	Tested Weight (kg)	Qualified Weight (kg)
Forgings - Flanges open die	**BLD-HX25120095; BLD-LX25120089; BLD-LX25120090; 2512YJ2556; 2512YJ2557; 2512YJ2558**	**410**	**410**	**4939**	**All**

Qualification /Acceptance Signatures

Manufacturer:	Prepared By/Date:	Checked By/Date:
Shanxi Baolongda Forging Co., Ltd.	[redacted] 2026-02-25	[redacted] 2026-02-25

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.

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