



QNP Steam Turbine



Company Profile

1. Rotating machinery product manufacturer with more than 30 years of mature experience, products exported to dozens of countries and regions.

2. Total area 200,000 SQM , Building area 100,000SQM.

3. CE, ISO9001, ISO14001, ISO45001 and other certifications.



4. Totally 2000+ sets of products sold globally.

5. Highly Customized Products according to technical requirements.

6. Standard and modularized product for commonality and interchangeability.

Main Businesses

Steam Turbine and generators

R&D, design, manufacture, sales and service of steam turbines and generators of **400MW** and below.

EPC

Complete sets of works and integrated services for power plants of **400MW** and below.



Spare parts

Supply of spare parts of steam turbine and gas turbine.

Gas turbine

Complete set supply of gas turbine and combined cycle power plants of **200MW** and below.

Compressor

R&D, design, manufacturing, sales, service and complete solution of turbine machinery products such as centrifugal compressor and air blower etc.

System certification



CERTIFICATE OF QUALITY MANAGEMENT SYSTEM CERTIFICATION

Certificate No.: 19822QF4406R0M
Unified Social Credit Code /Organization Code:913707813346553655

We hereby certify that the organization:
Shandong Qingneng Steam Turbine Co., Ltd.
Is in conformity with Quality Management System Standard:
GB/T19001-2016 idt ISO9001:2015
The certificate is valid to the following product(s)/service:
Design, manufacture, sales and after-sales maintenance services of steam turbines and steam turbine generators

Registration Address: West Head of Dongling Road, Qingzhou Economic Development Zone, Weifang City, Shandong Province
Business Address: No. 3011 Haidai North Road, Qingzhou Economic Development Zone

Date of Initial Issuance: Jun 22, 2022
Date of This Issuance: Jun 22, 2022
Date of Expiration: Jun 21, 2025



Beijing Xinjiyuan Certification Co.,Ltd.

Address:Room 805, North Area, 7/F, Building 122, Nanhu Dongyuan,
Chaoyang District, Beijing China (Post Code:100102)



CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATION

Certificate No.: 19822SF0685R0M
Unified Social Credit Code /Organization Code:913707813346553655

We hereby certify that the organization:
Shandong Qingneng Steam Turbine Co., Ltd.
Is in conformity with occupational health and safety Management System Standard:
GB/T45001-2020 idt ISO45001:2018
The certificate is valid to the following product(s)/service:
Design, manufacture, sales and after-sales maintenance services of steam turbines and steam turbine generators

Registration Address: West Head of Dongling Road, Qingzhou Economic Development Zone, Weifang City, Shandong Province
Business Address: No. 3011 Haidai North Road, Qingzhou Economic Development Zone

Date of Initial Issuance: Jun 22, 2022
Date of This Issuance: Jun 22, 2022
Date of Expiration: Jun 21, 2025



Beijing Xinjiyuan Certification Co.,Ltd.

Address:Room 805, North Area, 7/F, Building 122, Nanhu Dongyuan,
Chaoyang District, Beijing China (Post Code:100102)



CERTIFICATE OF ENVIRONMENT MANAGEMENT SYSTEM CERTIFICATION

Certificate No.: 19822EF0749R0M
Unified Social Credit Code /Organization Code:913707813346553655

We hereby certify that the organization:
Shandong Qingneng Steam Turbine Co., Ltd.
Is in conformity with Environmental Management System Standard:
GB/T24001-2016 idt ISO14001:2015
The certificate is valid to the following product(s)/service:
Design, manufacture, sales and after-sales maintenance services of steam turbines and steam turbine generators

Registration Address: West Head of Dongling Road, Qingzhou Economic Development Zone, Weifang City, Shandong Province
Business Address: No. 3011 Haidai North Road, Qingzhou Economic Development Zone

Date of Initial Issuance: Jun 22, 2022
Date of This Issuance: Jun 22, 2022
Date of Expiration: Jun 21, 2025



Beijing Xinjiyuan Certification Co.,Ltd.

Address:Room 805, North Area, 7/F, Building 122, Nanhu Dongyuan,
Chaoyang District, Beijing China (Post Code:100102)

Certificate – Сертификат – 證明書 – Certificat – 증명서 – 証明書

Certificate of Compliance

No. CE180829.3QSD40
Technical Construction File no. QINGNENG-201801

Certificate's Holder:	Shandong Qingneng Steam Turbine Co., Ltd. Dongling Road West, Economic Development Zone, Qingzhou City, Shandong Province, China
Certification ECM Mark:	
Product:	Steam Turbine Generator Set
Model(s):	0.3-100MW
Verification to:	Standard: EN ISO 12100:2010, EN 60204-1:2006+A1:2009+AC:2010 related to CE Directive(s): 2006/42/EC (Machinery) 2014/35/EU (Low Voltage)

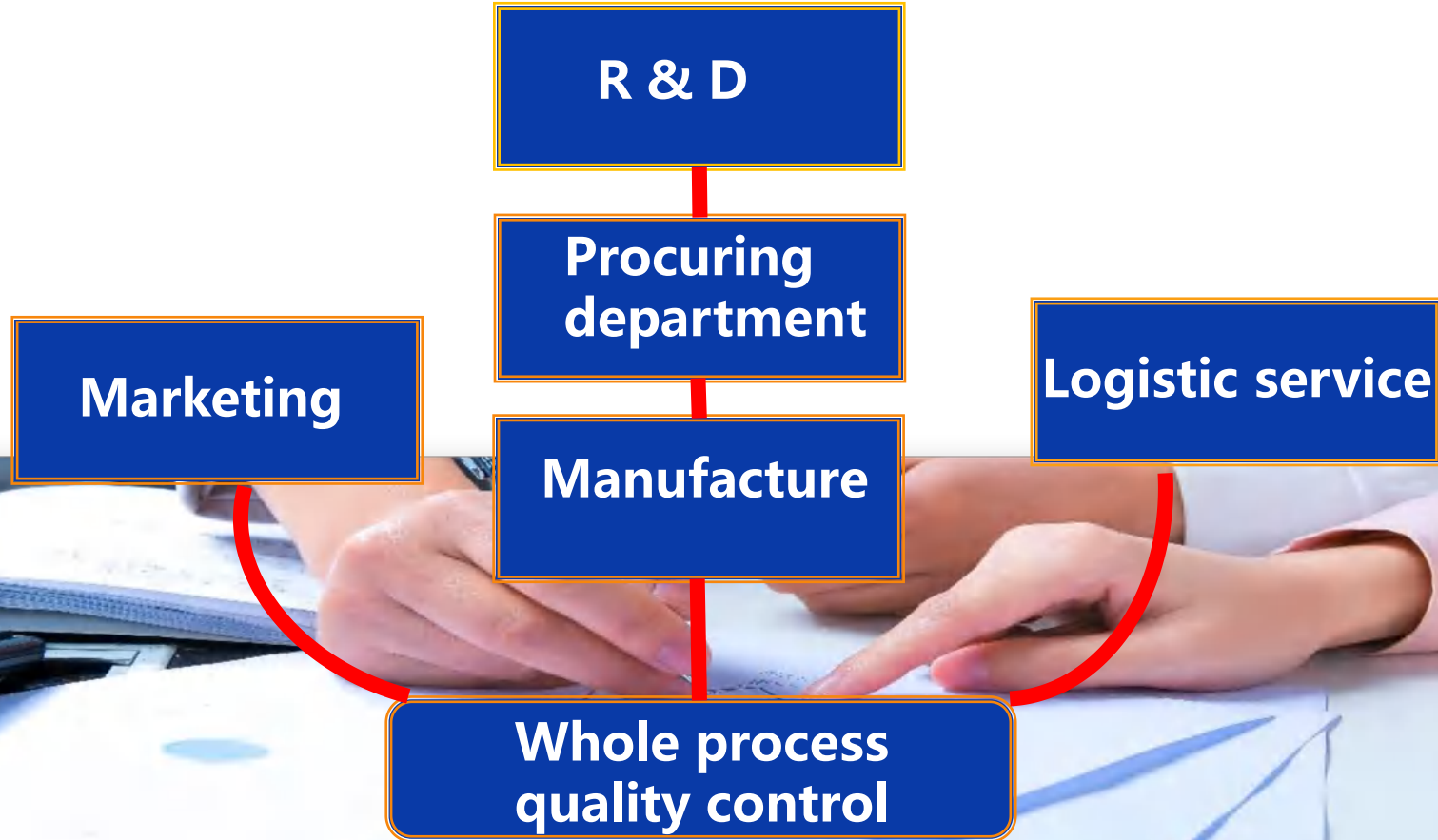
Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in accordance to the above-listed standards(s). The above Compliance Mark may be affixed on the product(s) accordingly to the ECM regulation about its use and its use. The regulation can be found at www.enfocem.it. The Certificate of Compliance can be checked for validity at www.enfocem.it.
The verification doesn't imply assessment of the production of the product(s).
Additional information: clarification about the CE Marking.
We attest that a TCF for the CE Marking process is in place, whenever the Manufacturer is responsible to start the CE Marking Certification procedure and to perform all the necessary activities as required by the Directive before placing the CE Mark on the product(s).

Date of issue 21 August 2018
Chief Manager

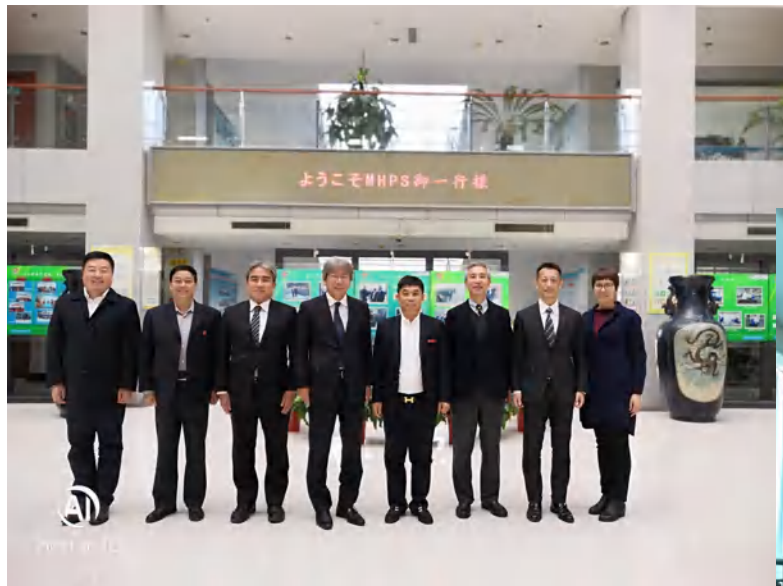

Expiry date 28 August 2023
Deputy Manager


Ente Certificazione Macchine Srl
Via Co' Bello, 243 - Loc. Capello di Sereviale - 40053 Valsamoggia (BO) - ITALY
☎ +39 051 6705141 ☎ +39 051 6705156 ✉ info@certificamc.it 🌐 www.certificamc.it

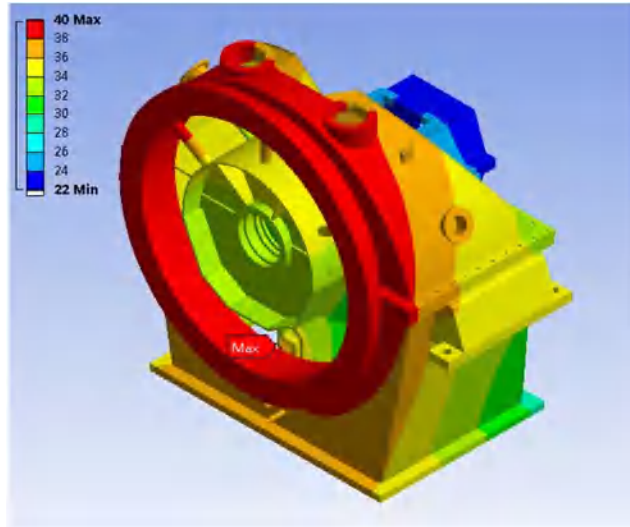
1+3+1 Complete Quality



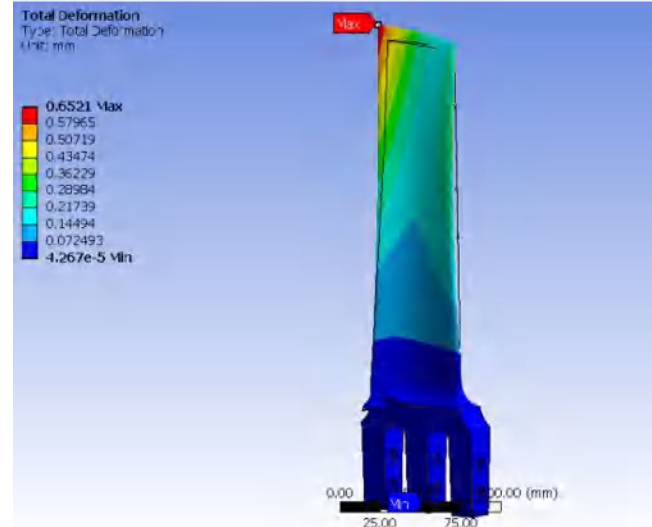
Business Cooperation



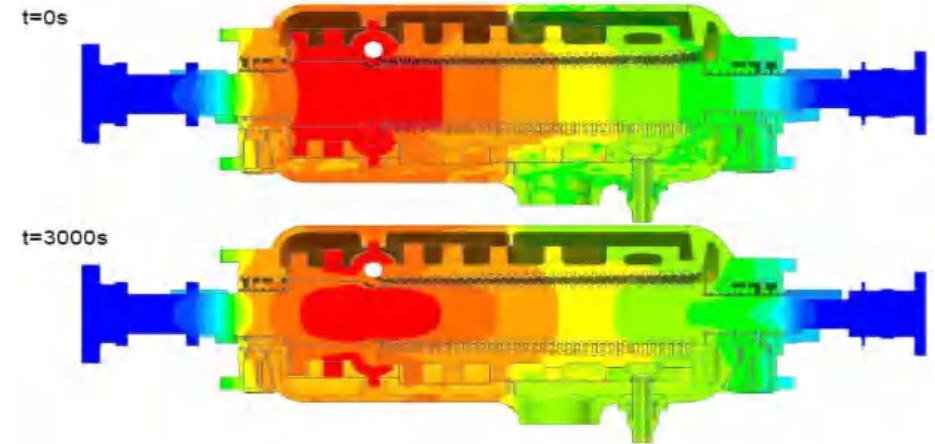
Advanced Design



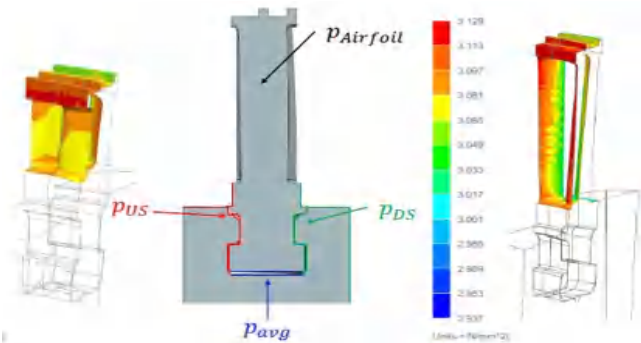
Hot state temperature field of steam turbine rear casing



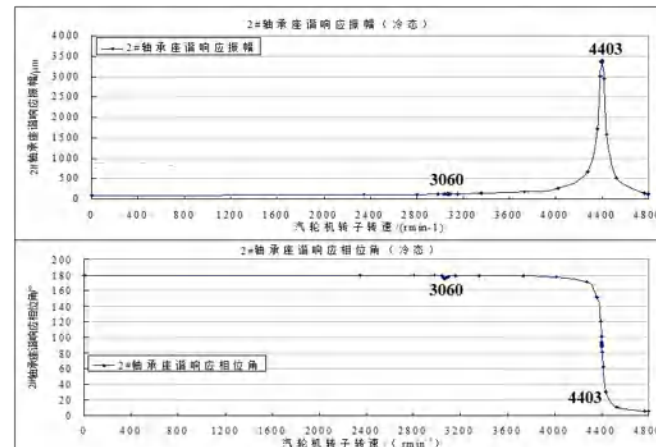
20b blade root deformation distribution chart



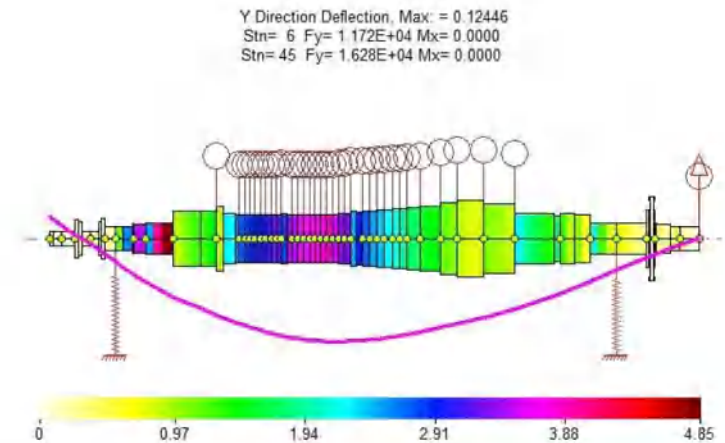
Technology of expansion difference and quick startup&stop



CAE analysis technology



Cold state harmonic response amplitude and phase angle of steam turbine rear casing



Rotor dynamics analysis

Global Procurement



Facilities

400+ sets of producing equipment

01



100+ sets of testing equipment

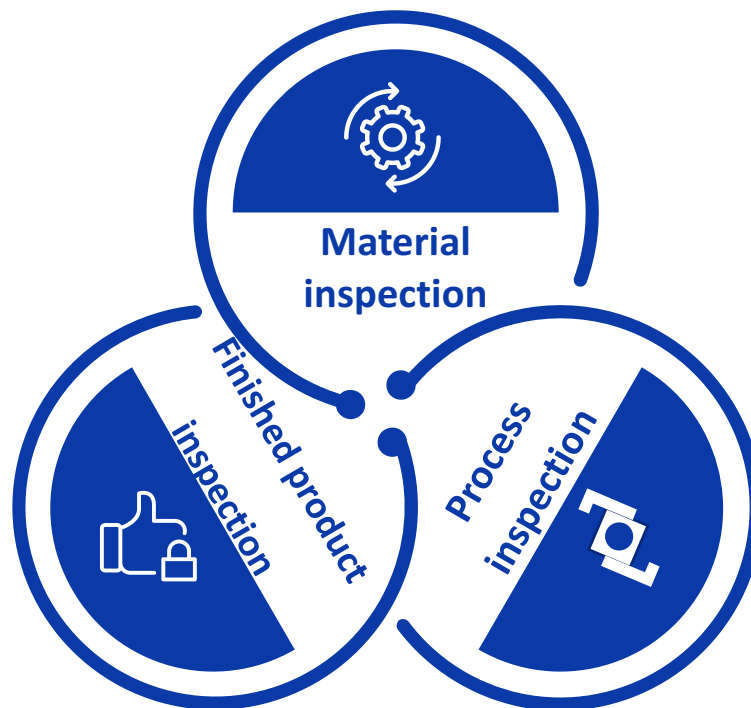
02



Verification certificates



Inspection



Expert's certificates

中华人民共和国 特种设备检验检测人员证

Inspector and Tester Certificate of Special Equipment
People's Republic of China
(无损检测人员)

姓名: 江可彬

证书编号: 370781198611132253

初次取证日期:

经考核, 批准项目如下:

项目	级别	代号	备注
渗透检测	高级 (III)	PT	

发证机关: 国家市场监督管理总局

发证日期: 2020年12月25日

有效期自: 2020年12月至2025年11月

中华人民共和国 特种设备检验检测人员证

Inspector and Tester Certificate of Special Equipment
People's Republic of China
(无损检测人员)

姓名: 江可彬

证书编号: 370781198611132253

初次取证日期: 2012年07月

经考核, 批准项目如下:

项目	级别	代号	备注
磁粉检测	II	MT	

发证机关: 山东省市场监督管理局

发证日期: 2023年10月25日

有效期至: 2023年10月至2025年02月

中华人民共和国 特种设备检验检测人员证

Inspector and Tester Certificate of Special Equipment
People's Republic of China
(无损检测人员)

姓名: 江可彬

证书编号: 370781198611132253

初次取证日期: 2010年09月

经考核, 批准项目如下:

项目	级别	代号	备注
脉冲反射法超声检测	II	UT	S

发证机关: 山东省市场监督管理局

发证日期: 2021年06月28日

有效期: 2022年02月至2027年05月

中华人民共和国 特种设备检验检测人员证

Inspector and Tester Certificate of Special Equipment
People's Republic of China
(无损检测人员)

姓名: 江可彬

证书编号: 370781198611132253

初次取证日期: 2018年06月01日

经考核, 批准项目和级别如下:

项目	级别	代号	备注
射线胶片照相检测	高级 (III)	RT	

发证机关: 国家市场监督管理总局

发证日期: 2021年06月28日

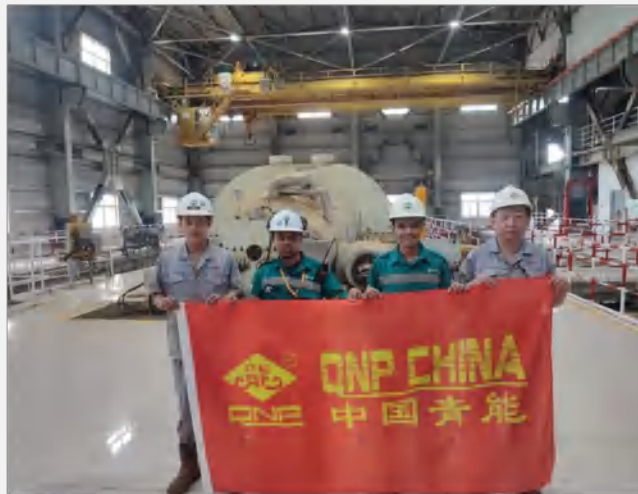
有效期: 2022年06月至2027年05月

Customers visiting

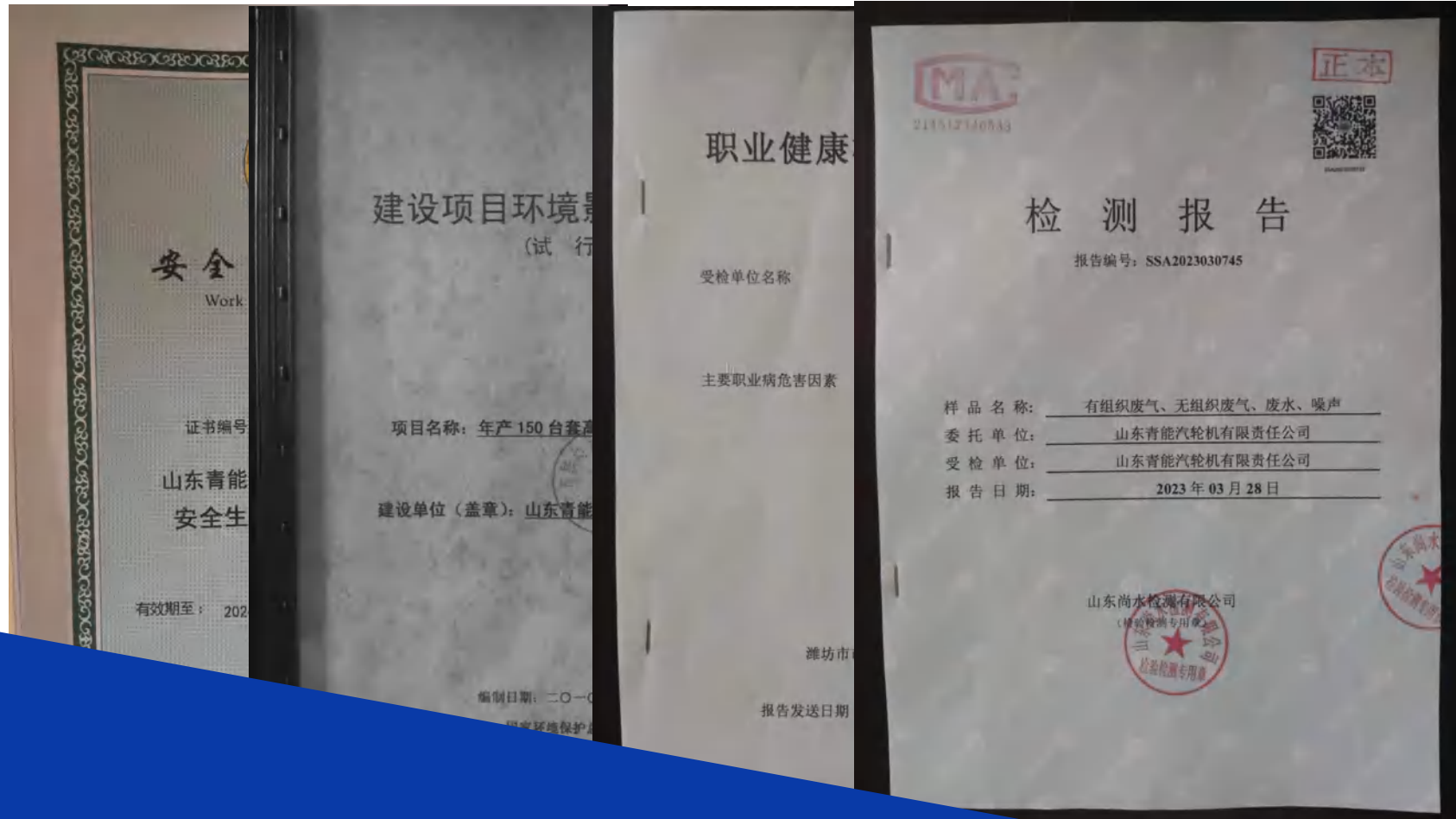


After-sale services

- Customer first
- Fast feedback
- 24x7 services
- Professional service team
- Video guidance



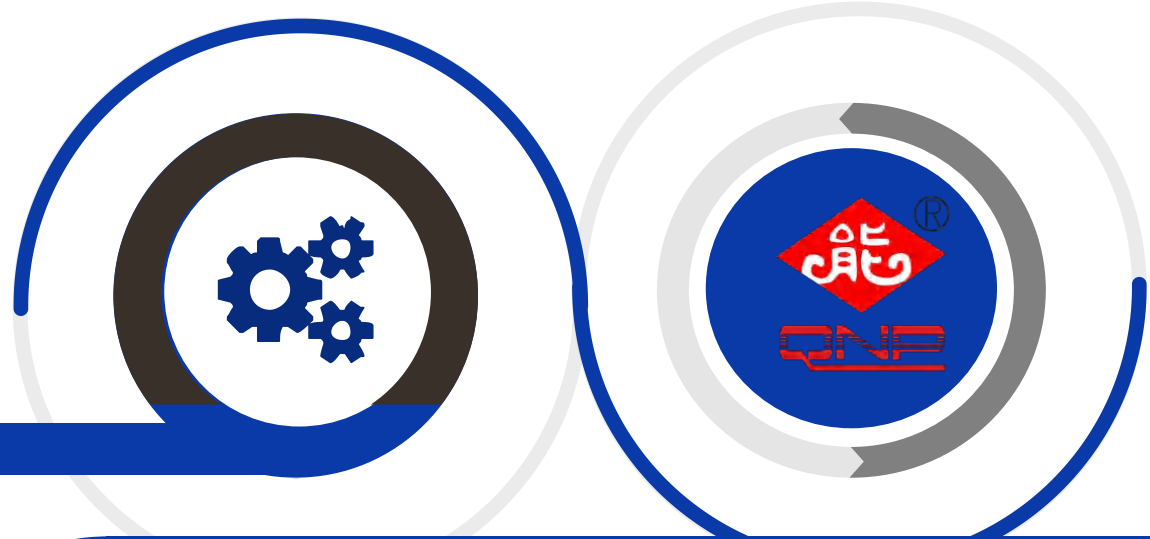
SHE (Safety, Health, Environment)



Applicable Standard

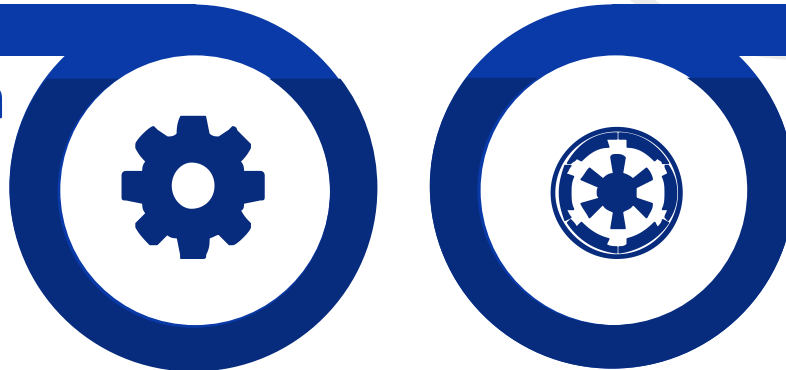
1. Applicable Chinese Standard

GB/T 5578



2. Applicable Russian Standard

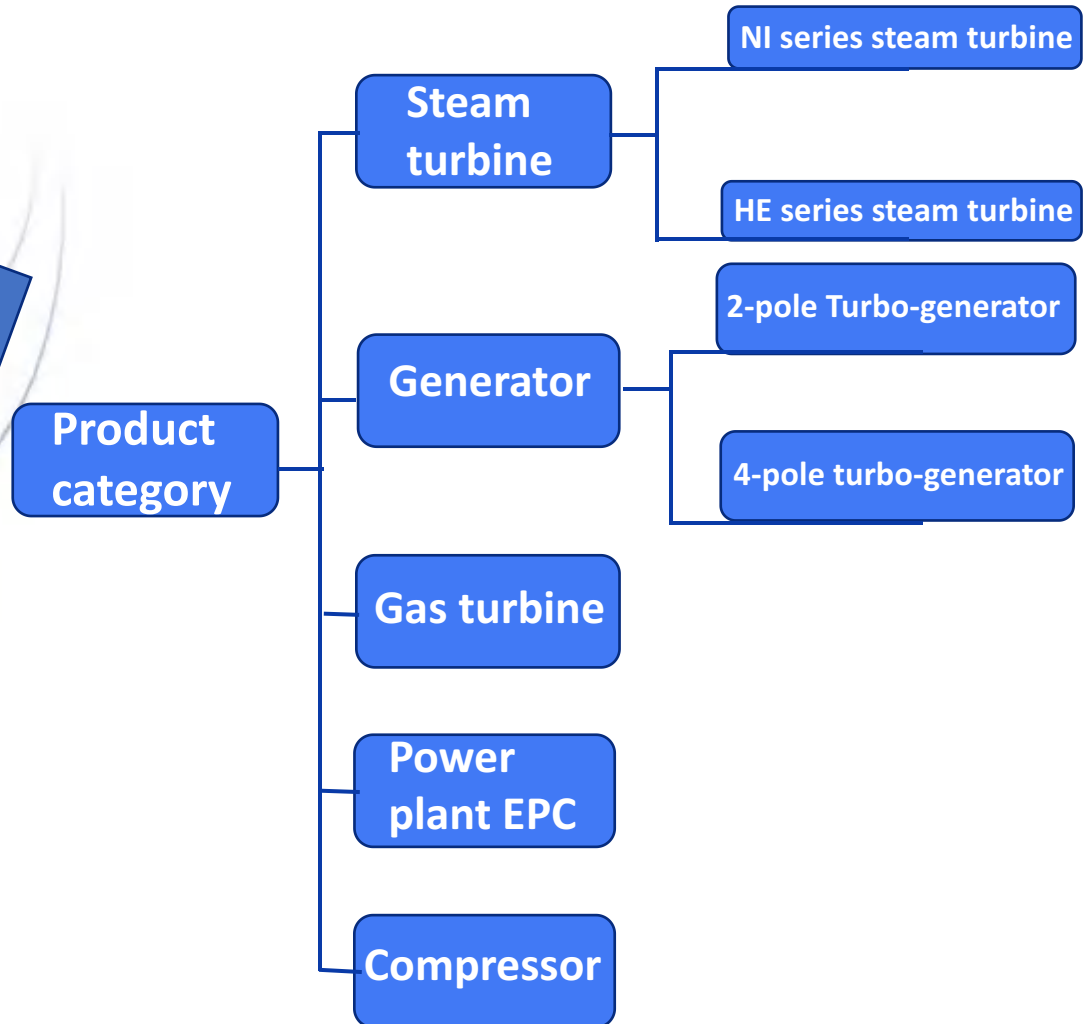
GOST 28969
GOST 24278



3. Applicable API Standard

API 611	API 612
API 613	API 614
API 617	API 670
API 671	

Product category



NI series steam turbine

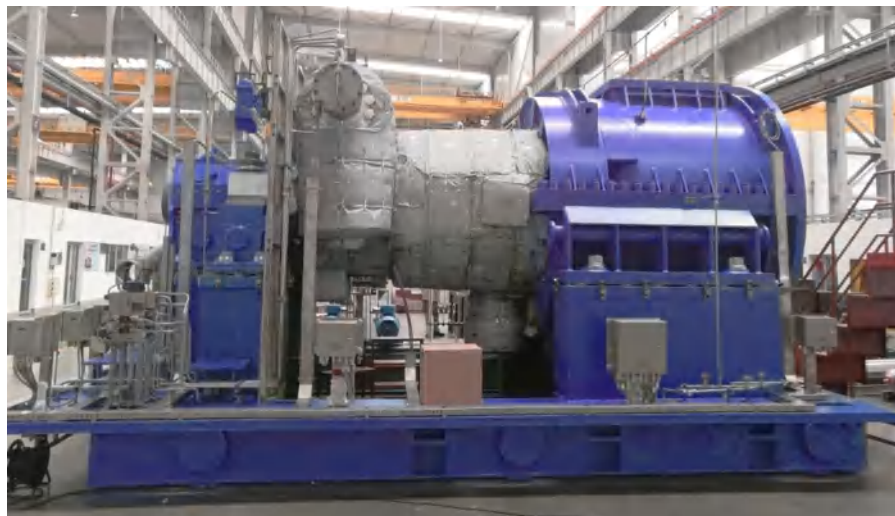


NI series

- Mature configuration
- Stable structure
- Simple and fast
- Widely applicable
- Short delivery time
- High cost performance
- Pre-design,modulized



HE series steam turbine



- 4th HE steam path design
- High speed, high efficiency, low steam rate
- High reliability
- High flexibility
- High intelligentization



High-efficiency back pressure steam turbine



- Small enthalpy drop structure of multiple stage, conventional speed, high-efficiency design.

Generator series

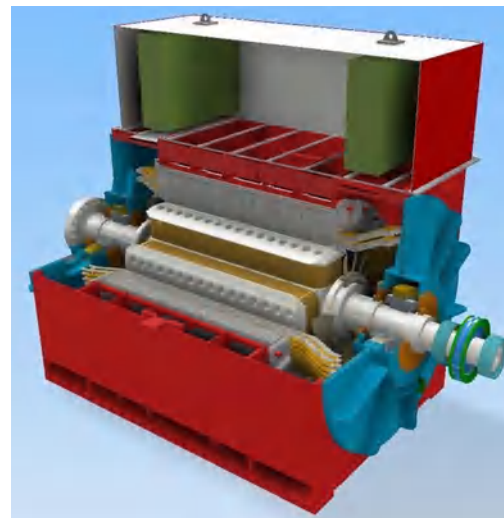
Generator series

2-pole
Turbo-
generator

4-pole
Turbo-
generator

Generator

- Light structure, strong, endurance
- Low consumption, high efficiency
- Large output margin
- Reliable operation, long use life



Gas turbine



- QNP sells gas turbines of various international brands and supplies gas turbines and complete sets of GT projects of 200MW and below, providing complete sets of solutions according to user needs.

EPC



Shandong natural gas project



Indonesia power plant



Indonesia ferronickel plant project

EPC

- Safe and reliable, excellent quality, reasonable cost, easy to operate, professional team and fast service
- Reference distribution: more than ten countries on four continents
- Engineering projects in 25 industries including electric power, chemical industry, papermaking, municipal administration, petroleum, metallurgy, building materials, machinery, medicine, etc.

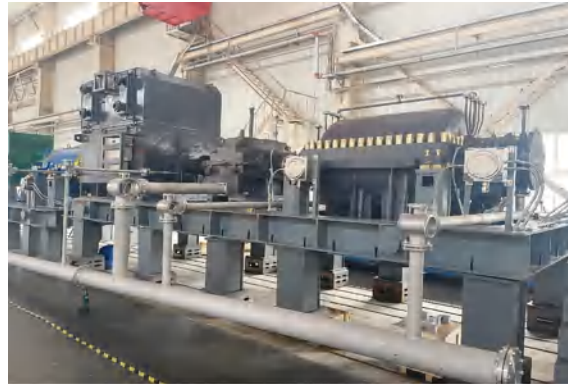


Xinjiang CHP generation project

Compressors

Product

- Rich gas compressor
- Hydrogen cycle compressor
- Reforming hydrogen compressor
- Ethylene refrigeration compressor
- Propylene refrigeration compressor
- Pyrolysis gas compressor
- Product gas compressor

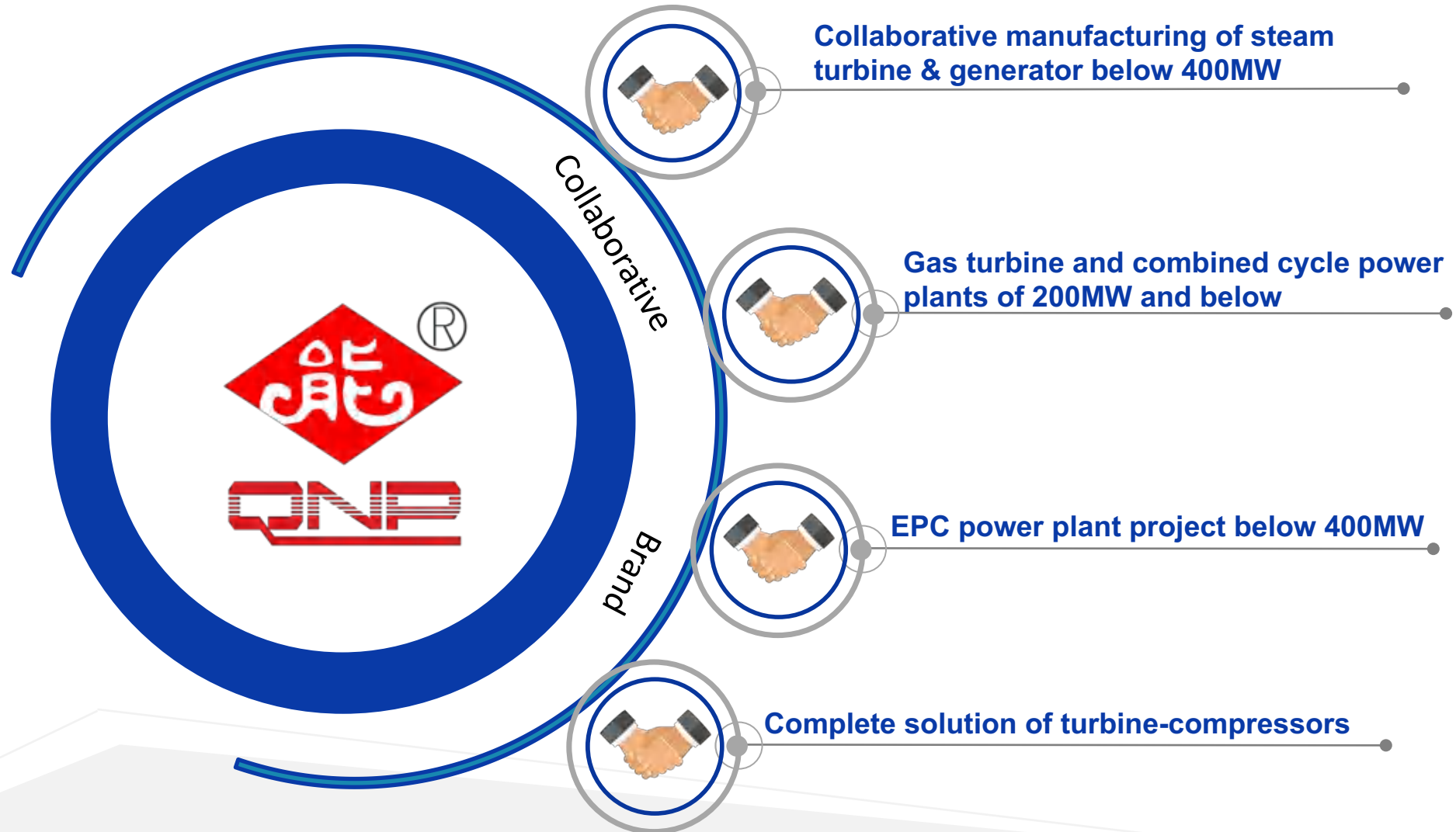


Advantage Characteristic

- Efficiency is 5% higher than other similar products
- Monitoring of the entire production process
- Stable and reliable



Strategic Cooperation Brands



World market map

QNP's agents and products are distributed in around 30 countries and regions worldwide.



Typical references

There are a total of 421 sets of typical reference of turbine generator sets below 100MW. Some cases are as follows:

Serial Number	User name	Steam turbine model	Serial Number	User name	Steam turbine model
1	Anhui Science and Technology Company Project	C5.1-3.43/0.3	14	Project of Shenzhen Science and Technology Engineering Company	N3-2.4/425+QF-3-2-10.5
2	Guizhou Waste Heat Power Generation Project	N9-2.35(0.5)/420	15	Shaanxi Coal Industry Chemical Project	N60-13.24+QF-60-2-10.5
3	Shanxi Renewable Resources Recovery Project	N12-6.2/435	16	Yunnan Carbon Materials Company Project	C22-4.9/0.95+QF-22-2
4	Shandong Renewable Energy Utilization Project	SN2.11-0.8	17	Russian project	C6.8-3.9(1.1)/0.5+QFW-7.5-2
5	Russian project	N7-3.6/430	18	Shandong Thermal Power Company Project	CB25-9.3/0.9+QF-30-2
6	Russian project	C12.5-12.5/0.69+QF-15-2	19	Shaanxi Chemical Company Project	N30-8.83+QF-30-2
7	Russian project	C16.4(20.6-3.8/1.15+QFW-25-2	20	Xinjiang Chemical Company Project	N2.25-0.25/0.995
8	Shaanxi Chemical Company Project	BN15-1.0/0.3+QF-15-2	21	Shandong Petrochemical Company Project	B12-8.83/3.82/535+QF-15-2
9	Russian project	CB12-3.5-1.0-0.65/QFW-12-2	22	Sichuan Salt Chemical Company Project	B4.5-3.43 (0.95) /0.4+QF-4.5-2
10	Russian project	C6.5-3.9/ 1.2+QF-7.5-2	23	Shandong Thermal Power Company Project	C15-8.83/0.981
11	Shandong Carbon Materials Company Project	C22-4.9-1.6+QF-22-2	24	Shanxi Aluminum Company Project	B30-8.83/0.8+QF-30-2
12	Russian project	C12-3.44/0.98+QF-12-2	25	Shanxi Aluminum Company Project	N2.35-0.65;N3.15-0.6
13	Shandong Power Generation Company Project	BN15-1.6/0.45+QF-15-2	26	Shandong Paper Company Project	CB14.4-7.6/1.5/0.981+QF-18-2

Typical references

Serial Number	User name	Steam turbine model	Serial Number	User name	Steam turbine model
27	Henan Chemical Fiber Company Project	B25-8.83/0.785+QF-30-2	40	Jilin Thermal Power Company Project	C15-4.9/0.785+QF-15-2
28	Shandong Metal Materials Company Project	N15-8.83/535+QF-15-2	41	Shaanxi Power Generation Project	N30-8.83+30MW
29	Tianjin Company Project	C9-4.9/0.9+QF-10-2	42	Shanxi Company Project	N12-8.83
30	EPC Project of Tianjin Company	C11.5-4.9/1.2+20MW 10.5KV	43	Hebei Chemical Fiber Company Project	CB3-4.9/2.5/1.5
31	Russian project	C6.9-4.0/0.22	44	Project of Nanjing Energy Saving and Environmental Protection Equipment Company	C4.7-2.5/0.9
32	Liaoning Biomass Energy Project	C19-8.83/0.981; QF-22-2	45	Shandong Thermal Power Company Project	N4.866-3.43/435
33	Hebei Paper Industry Project	N6-0.7; B10-6.4/0.8	46	Tajikistan project	C3-3.43/0.785
34	Changzhou project	C10.5-4.9/0.98+12MW; B3.55-4.9/0.98+4MW	47	Shandong Industrial Company Project	CB6-4.9/2.2/0.981
35	Shaanxi Coal Industry Chemical Project	BN15-3.43/1.2×2 ; QF-15-2×2	48	Shandong Thermal Power Company Project	B6.4-8.83/3.82
36	Thailand project	N10-3.43/435+QF-10-2	49	Shandong Thermal Power Project	B5.85-8.92/4.9
37	Shaanxi New Energy Company Project	BN6.0-3.43/0.4+QF-6-2	50	Hubei Chemical Company Project	B12-3.42/0.2
38	Shenzhen Kaisheng Project	N3-2.18/423+QFD-3-2	51	Shanxi Science and Technology Company Project	B12-8.83/0.785
39	Shandong Thermal Power Company Project	B24.7-8.83/0.785+QF-30-2	52	Hubei Environmental Equipment Company (Shandong Project)	N12-3.8

Typical references

Serial Number	User name	Steam turbine model	Serial Number	User name	Steam turbine model
53	Shaanxi Electric Power Company Project	N15-4.9	66	Chongqing Company Project	C3-3.43/0.981
54	Beijing Energy Company Project	BN12-1.6/0.25	67	Shaanxi Activated Carbon Company Project	N30-3.43
55	Chongqing New Materials Company Project	BN4.5-0.9/0.3	68	Serbia project	B1.7-4.2/0.2
56	Zibo Bio-thermal Power Company Project	N12-0.981	69	Indonesia Boiler Plant Project	N9.5-4.9
57	Harbin Thermal Power Company Project	CB15-4.9/0.981/0.294	70	Singapore company project	N4-3.43
58	Shenzhen Kaisheng Project	N15-3.53/380	71	Shandong Thermal Power Company Project	B6-4.9/0.981
59	Tibet Project	N1-1.28	72	Beijing Science and Technology Company Project	BN7-1.96/0.35
60	Beijing Energy Saving Company Project	BN8-1.20/0.4	73	Shanxi Electric Power Construction Project	N15-4.9
61	Shanxi Thermal Power Company Project	B25-3.43/0.981	74	Macau company project	C7-3.43/0.785
62	Yun'nan Fertilizer Company Project	C15-3.43/0.68	75	Jiangsu Trading Company Project	N15-3.53
63	Shanxi Science and Technology Company Project	C18-8.83/0.785	76	Shanxi Power Generation Project	C15-3.43/0.49
64	Pakistan project	B3-4.51/0.247	77	Sichuan Engine Company Project	C3-3.43/1.86
65	Shandong Sinochem Petrochemical Project	CB25-8.83/3.82/0.981	78	Sinopec Nanjing Company Project	B6-3.43/0.69

Typical references

Serial Number	User name	Steam turbine model	Serial Number	User name	Steam turbine model
79	Beijing Science and Technology Company Project	CC20-4.9/1.27/0.294	92	India Project	C2.2-3.9/0.981
80	Jiangsu Trading Company Project	C15-3.43/0.49	93	Jiangxi Company Project	CB6-3.43/1.37/0.588
81	Indonesia project	N9.5-4.9/470	94	Brazil Project	N1.5-2.35
82	Indonesia project	N3.8-3.53/435	95	Shandong Petrochemical Company Project	B6-4.9/0.981
83	Indonesia project	C3-3.43/0.58	96	Chongqing Cement Company Project	N12-1.25
84	Morocco Project	N3-3.43/430	97	Shandong Thermal Power Project	B6-4.9/0.981
85	Hebei Company Project	B3-3.43/0.49	98	Belarus Project	N3-2.35
86	Hebei Glass Company Project	N25-2.35	99	Anhui Thermal Power Project	S3-0.5
87	Yunnan Industrial Company Project	BN3-1.6/0.35	100	Yunnan Chemical Company Project	C15-3.43/0.49
88	Yunnan Industrial Company Project	N15-3.43	101	India Project	B3.4-3.06/1.9
89	Gansu Industry and Trade Company Project	C15-4.9/0.981	102	Shandong Chemical Company Project	B6-3.43/1.37
90	Gansu Industry and Trade Company Project	B15-4.9/0.981	103	Belarus project	N1.5-1.3
91	Beijing Science and Technology Company Project	CB12-3.43/1.5/0.8	104	Shandong Thermal Power Company Project	B12-4.9/1.27

Typical references

Serial Number	User name	Steam turbine model
105	Henan Biomass Power Plant Project	C15-3.43/0.98
106	Sichuan Paper Company Project	CB6-3.43/1.27/0.49
107	Sichuan Paper Company Project	C6-3.43/0.49
108	Guangdong Industrial Company Project	CB6-3.43/0.981/0.294
109	Shandong Chemical Company Project	B2.24—2.35/0.3
110	Hunan Cement Company Project	N3-1.25
111	Shandong Thermal Power Company Project	N12-3.43
112	Zibo Thermal Power Plant Project	N6-3.5
113	Hebei Alkali Thermal Power Plant 1 # 2 #	C60-8.83/0.98
114	Vietnam Thermal Power Plant 1 # 2 #	N57.5-8.83/535
115	Yunnan Phosphorus Power Company 1 # 2 #3 #	N55-8.83

Serial Number	User name	Steam turbine model
116	Shandong Iron and Steel Company Project	N55-8.83
117	Henan Company 2 # Project	N50-8.83
118	Zuo Quan 1 # 2 # Project	N (C) KC50-8.83
119	Haihua Phase IV Project	C50-8.83/4.12
120	Shandong Iron and Steel Company 2 #	C55-8.83/3.8/535
121	Sichuan Yibin Company 1 # 2 #	C50-8.83/0.981
122	Shandong Thermal Power Plant 4 # (General Contractor)	C50-8.83/4.12
123	Baling Petrochemical Project	CC50-8.83/3.82/0.98
124	Xinjiang Coal-to-Oil Power Plant 1 # 2 #	KCC50-9.6/4.4/1.3
125	Sichuan Yibin Company Project	CB50-8.83/3.5/0.98
126	Hubei Chemical Company	CB35-8.83/3.7/0.7

Typical references

Totally 242 typical references of 100MW-400MW steam turbine generator sets completed, partially as below:

Serial Number	User name	Steam turbine model
1	Anhui Iron and Steel Company 1 #	NC135-12.75/535/535
2	Thailand Power Plant Project	N150-13.63/535/535
3	Vietnam Power Plant 1 # 2 #	N110-8.83
4	Shanxi Power Plant 3 # 4 #	N(C)100-8.83/0.196
5	Xinjiang Biotechnology Co., Ltd. 1 # 2 #	NC135-13.2/0.7845/0.0052
6	Indonesia Thermal Power Plant 1 # 2 #	N110-8.83
7	Shandong Science and Technology Company Project	NC100-8.83/0.981
8	Indonesia Medan Project, 1 # 2 #	N220-12.75/535/535
9	Laos Clean and High-efficient Power Plant Project	N220-13.24/535/535
10	Shanxi Power Plant 1 # 2 #	N(C)210-12.75/535/535
11	Jilin Thermal Power Company 1 # 2 #	N(C)200-12.75/535/535
12	Inner Mongolia Chemical Power Branch	JKC200-13.24/0.98/535/535
13	Indian Coal-fired Thermal Power Plant 1 # 2 # 3 # 4 #	N330-17.75/540/540

Serial Number	User name	Steam turbine model
14	Indonesia Power Plant 1 # 2 # 3 #	N330-17.75/540/540
15	Vietnam Thermal Power Plant	N330-17.75/540/540
16	Xinjiang Power Generation Co., Ltd. 1 # 2 #	NC330-17.75/540/540/0.3
17	Shanxi Power Plant 1 # 2 #	NZK300-17.75/540/540
18	Xinjiang Power Generation Company 1 # 2 #	CK310-17.75/1.0/540/540
19	Liaoning Development Zone Thermal Power 1 # 2 #	NC350-24.2/0.4/566/566
20	Shandong Supply Co., Ltd. 1 #-6 #	N360-17.75/540/540
21	Beijing Thermal Power 1 # 2 #	NC350-24.2/0.4/566/566
22	Chongqing Aluminum 1 # 2 #	NC330-17.75/0.981/540/540
23	India Coal-fired Thermal Power Plant 1 # 2 #	N330-17.75/540/540
24	Xinjiang Aluminum Power Plant 1 # 2 # 3 # 4 #	NJK360-17.75/540/540
25	Hebei Dongjiao Thermal Power Plant 1 #	NC350-24.2/0.4/566/566
26	Xinjiang Aluminum Power Plant 5 # 6 #	NJK360-24.2/0.4/566/566

Typical references

There are a totally of 450 typical references of EPC general contracting projects. Some cases are as follows:

Serial Number	User name	Project scale
1	Xinjiang	General Contracting Project for Civil Engineering and Installation of 2 × 1176T/H Pulverized Coal Steel Furnace and 2 × 350 MW Unit Expansion of 8 × 795 t/H High Efficiency Supercritical Gas Boiler and Subcritical Circulating Fluidized Bed Steel Furnace and 8 × 75 MW Back Pressure Unit General Contracting for Civil Engineering & Installation
2	Ningxia Gangue Power Plant	1 x 1177T/H CFB boiler and 1 x 330MW air-cooled generator set
3	Xinjiang Mining Company	2 × 670T/H pulverized coal boiler and 2 × 200MW unit
4	Guangxi New Material Company	2 × 670T/H high-temperature and ultra-high pressure circulating fluidized bed and 2 × 60 MW extraction back pressure turbine generator set
5	Fujian Company Project	2 × 680T/H high-temperature and ultra-high pressure boiler and 1 × 200MW + 1 × 80MW steam turbine unit
6	Shandong Gas Thermal Power Company	1 × 130T/H waste heat boiler and 2 × 200MW gas turbine
7	Ningxia Coal Industry	General contracting project of civil engineering and installation of 4 × 600T/H pulverized coal boiler + 3 × 240 T/H + 4 × 280 T/H circulating fluidized bed boiler and 1 × 25 MW + 1 × 50 MW unit
8	Shandong Paper Industry Company	2 × 600T/H + 2 × 670T/H circulating fluidized bed boiler and 3 × 155MW unit
9	Shandong Paper Industry Company	3 × 520 t/H pulverized coal boiler and 2 × 60 MW and 1 × 135 MW units
10	Inner Mongolia Science and Technology Company	1 x 500T/H high-temperature and high-pressure circulating fluidized bed boiler and 1 x 60MW high-temperature and high-pressure extraction back pressure turbine generator set
11	Xinjiang Thermal Power Co., Ltd	1 × 500 T/H pulverized coal boiler and 1 × 125 MW unit, 3 × 480 t/H boiler and 2 × 135 MW unit
12	Shaanxi Coal Chemical Company	2 x 490T/H CFB Boiler and 2 x 125MW Unit
13	Zhejiang Company	3 × 480T/H high-temperature and high-pressure circulating fluidized bed boiler and 2 × 50 MW extraction back pressure steam turbine unit

Typical references

Serial Number	User name	Project scale
14	Inner Mongolia Coal Chemical Industry	1 × 480 T/H pulverized coal boiler and 1 × 50 MW unit in thermal power plant of olefin production project
15	Xinjiang Petrochemical Company	5 x 440T/H circulating fluidized bed boiler and ancillary facilities of 3 x 100MW unit
16	Shandong Power Generation Company	Installation Project of 1 × 135MW Intermediate Primary Reheat Condensing Steam Turbine + 1 × 150MW Generator and Supporting Auxiliary Facilities
17	Henan Iron and Steel Company	1 × 420T/H ultra-high temperature subcritical coal gas boiler and 1 × 135 MW condensing steam turbine unit
18	Xinjiang Energy Company	General contracting project of civil engineering and installation of 5 × 280 T/H circulating fluidized bed boiler and 1 × 60 MW + 1 × 12 MW unit
19	Ningxia Chemical Company	Installation project of 2 × 260 t/H pulverized coal boiler and 2 × 70 MW unit
20	Shandong Clean Energy Co., Ltd	Natural gas cogeneration 2 × 240 T waste heat boiler + 3 × 50 T gas steel furnace and 1 × 18 MW back pressure steam turbine + 2 × 100 MW extraction condensing steam turbine + 2 × 180 MW gas steam turbine
21	Heilongjiang Special Steel Co., Ltd	1 × 140 T/H ultra-high temperature and ultra-high pressure blast furnace gas boiler and 1 × 35 MW ultra-high temperature and ultra-high pressure primary intermediate reheat condensing steam turbine generator set
22	Jiangsu Company Project	4 × 330T/H ultra-high temperature subcritical gas boiler and 4 × 100MW intermediate primary reheat steam turbine unit
23	Guangdong Iron and Steel Company	1 x 475T/H ultra-high temperature subcritical reheat coal gas boiler and 1 x 150MW condensing steam turbine unit
24	Xinjiang Power Generation Co., Ltd	2 × 480T/H ultra-high temperature subcritical gas boiler and 2 × 135 MW turbine generator set
25	Shandong Power Generation Co., Ltd	Installation of 1 × 440T/H ultra-high temperature subcritical coal gas boiler, 1 × 135 MW intermediate primary reheat condensing steam turbine + 1 × 150 MW generator and supporting auxiliary facilities
26	Jiangsu Iron and Steel Co., Ltd	1 x 180 T/H ultra-high temperature and ultra-high pressure reheat coal gas boiler and 1 x 50 MW ultra-high temperature and ultra-high pressure condensing steam turbine with primary reheat + 1 x 55 MW generator

Typical references

Serial Number	User name	Project scale
27	Jiangsu Biomass Energy Power Generation Company	General Contracting Project for Construction and Installation of 2 × 75 T/H Straw Incinerator and 2 × 12MW Unit
28	Henan Biomass Energy Co., Ltd	1 × 140 T/H biomass grate boiler and 1 × 35 MW extraction condensing generator
29	Hubei Biomass Thermal Power Co., Ltd	4 × 75T/H water-cooled vibrating grate high-temperature and high-pressure boiler and 4 × 15MW high-temperature and high-pressure turbine generator set
30	Heilongjiang Biomass Thermal Power Co., Ltd	1 × 130T/H Biomass High-Temperature and Ultra-High Pressure Circulating Fluidized Bed Boiler and 1 × 30MW High Temperature and Ultra-High Pressure Extraction Condensing Steam Unit
31	Jilin Energy Company	1 × 130t/h high-temperature and high-pressure water-cooled vibrating grate boiler and one set of 30MW high-temperature and high-pressure extraction condensing turbine generator set
32	Henan Industrial Company	1 x 130T/H fluidized bed biomass steel furnace + 1 x75T/H fluidized bed biomass boiler and 1 x 40MW + 1 x 20MW unit
33	Heilongjiang	2 × 75 T/H high-temperature circulating fluidized bed boiler and 2 × 15 MW extraction condensing steam turbine unit
34	Shandong Biomass Electric Power Company	2 × 75T/H High Temperature and High Pressure Circulating Fluidized Bed Biomass Boiler and 2 × CC 15MW High Temperature and High Pressure Extraction Condensing Turbine Generator Set
35	Fujian Company Project	Phase II Installation project of 1 × 250 t/d waste incineration waste heat boiler, 2 × 400t/d waste incineration-waste heat boiler and supporting 1 × 20 MW units, Installation project in of 2 × 750 t/d waste incinerator boiler and 1 × 40 MW units in Phase III
36	Sichuan Environmental Protection Power Generation Company	Installation project of 1 × 600 t/d mechanical grate garbage incinerator and 1 × 12 MW high-speed steam turbine generator set
37	Tianjin Garbage Disposal Company	Installation project of 2 × 500t/d mechanical grate garbage incinerator equipped with two medium temperature and medium pressure waste heat boilers and 1 × 18 MW condensing steam turbine generator set
38	Shaanxi Environmental Protection Energy Company	Installation project of 2 × 300t/d garbage boiler + 1 × 15 MW unit

Typical references

Serial Number	User name	Project scale
39	Shandong Cement Company	9MW Pure Low Temperature Waste Heat Power Generation Project of 2 × 2500 t/D Cement Clinker Production Line
40	Indonesia	3 × 45T/H boiler and 2 × 7MW unit
41	Vietnam Fertilizer Plant	4 × 130 T/H circulating fluidized bed boiler and 3 × 12MW unit in (coal head) chemical fertilizer project
42	Indonesian Thermal Power	Installation project of 2 × 430 T/H circulating fluidized bed boiler and 2 × 110 MW unit
43	Vietnam Power Plant	Installation project of 2 × 240 T/H boiler and 2 × 50MW unit
44	Bangladesh	100MW Single Cycle Power Plant Project
45	Ethiopia	Omo Kuraz-1 1 x B20MW + 1 x C25MW power plant Project
46	Vietnam	Phase II 1 × 130T/H circulating fluidized bed boiler island and BOP of the whole plant
47	Coal-fired Power Plants in Indonesia	Project of 2 × 130T/H CFB Boiler + 2 × 25MW Unit
48	Laos Pulp and Paper	Installation project of biomass 1 × 90 T/H boiler in pulp and paper project
49	Coal-fired Power Plants in Indonesia	2 x 230T/H pulverized coal boiler + 2 x 56MW unit project
50	Indonesia	Installation project of one 60MW and one 125MW steam turbine generator set body and related steam-water pipeline
51	Indonesia	2 × 40T/H boiler + 2 × 7.5 MW generator set in coal-fired power plant
52	Indonesia	Installation, commissioning and construction of 2 × 100 MW gas generator set (DXSIP) in iron and steel construction project with an annual output of 3.5 million tons

Typical references

Serial Number	User name	Project scale
53	Vietnam	Installation Bid Section of UPPC 1 × 25 MW Thermal Power Plant Project
54	Ethiopia	BELES-1Kuraz-11 × B20MW + 1 × C25MW Sugar Factory Self-provided power plant Project
55	Laos	2 × 280 t boiler + 1 × CN60-8. 83/0. 981 extraction condensing steam turbine generator set + 1 × CB50- 8. 83/0. 981/0.49 extraction back pressure steam turbine generator set
56	Bolivia	10 sets of 20V35/44G gas generator sets and related electrical systems
57	Indonesia	2 × 1212t/h supercritical circulating fluidized bed + 2 × 380MW condensing unit in self-provided power plant
58	Mozambique	5000t/d clinker cement production line 3 × 12 MW coal-fired self-provided power plant project
59	Indonesia	1 × 250 MW thermal power generation construction project
60	Vietnam	Installation of 1 × 50 MW high temperature and ultra-high pressure coal gas power generation project
61	Indonesia	General Contracting for Construction and Installation of 2 × 495 T/H High Temperature and Ultra High Pressure Circulating Fluidized Bed Boiler and 2 × 150 MW Coal-fired Unit in Auxiliary Power Plant Project of OBI Nickel-Iron Project
62	Indonesia	Self-provided power plant project 2 × 135 MW steam turbine generator set + 2 × 440T/H boilers (# 3, # 4) and main workshop construction project
63	Indonesia	IKK 1 × 410T/H + 1 × 70MW Coal-fired Power Plant Project 1 × 410T/H High Temperature and Ultra High Pressure Circulating Fluidized Bed Boiler and 1 × 70MW Extraction Condensing Steam Turbine + 1 × 70MW Generator Set
64	Vietnam	1 × 30 MW thermal power plant project
65	Vietnam	Installation project of 1*300t/d mechanical grate boiler +6MW steam turbine generator in concentrated domestic garbage treatment area

Typical references

There are 227 typical references of compressors, and partial cases are as follows:

Sr1 No.	Unit and use	Name	Model	Drive	Media	Mol. wt.	Inlet flow Nm ³ /h	Inlet pressure Mpa (A)	Inlet tem. °C	Outlet pressure Mpa (A)
1	80 x 104t/a catalytic cracking unit	Rich gas compressor	2HSMC456	Steam turbine	Rich gas	35.979	17955	0.2	42	1.7
2	80 x 104t/a catalytic cracking unit	Standby main blower	G1300	Electric Motor	Air	28.6	75600	0.1	29.8	0.4
3	80 x 104t/a catalytic cracking unit	Booster	G90-11	Electric Motor	Air	28.6	13860	0.4	178.5	0.5
4	1.4 million tons/year delayed coking rich gas unit	Rich gas compressor	2HSMC527	Steam turbine	Rich gas	31.2	16152	0.4	40	1.3
5	60 x 104t/a catalytic cracking unit	Rich gas compressor	2HSMC456	Steam turbine	Rich gas	35.34	16960	0.1	42	1.4
6	1 million tons/year delayed coking unit	Rich gas compressor	2HSMC457	Steam turbine	Rich gas	27.3	17325	0.2	42	1.6
7	80 x 104t/a catalytic cracking unit	Rich gas compressor	2HSMC457	Steam turbine	Rich gas	30.47	11573	0.1	42	1.5
8	80 x 104t/a gasoline and diesel hydrogenation upgrading unit	Circulating hydrogen compressor	VSMC408	Steam turbine	Circulating hydrogen	2.72	85731	11.3	53	13.3
9	Energy-saving retrofit of catalytic cracking unit	Rich gas compressor	2HSMC606	Steam turbine	Rich gas	34.3	34650	0.1	42	1.7
10	800,000tons/year heavy oil catalytic cracking unit	Main blower	HSMC904	Electric Motor	Air	28.6	72450	0.1	33.6	0.4

Typical references

Srl No.	Unit and use	Name	Model	Drive	Media	Mol. wt.	Inlet flow Nm ³ /h	Inlet pressure Mpa (A)	Inlet tem. °C	Outlet pressure Mpa (A)
11	800,000tons/year heavy oil catalytic cracking unit	Standby main blower	HSMC904	Electric Motor	Air	28.6	72450	0.1	33.6	0.4
12	800,000tons/year heavy oil catalytic cracking unit	Rich gas compressor	2HSMC456	Steam turbine	Rich gas	37.82	11970	0.2	42	1.7
13	800,000tons/year heavy oil catalytic cracking unit	Booster	G120	Electric Motor	Air	28.6	13860	0.3	189	0.4
14	1.4 million tons/year catalytic cracking unit	Booster	G120-12	Electric Motor	Air	28.6	18900	0.4	215.3	0.5
15	1.4 million tons/year catalytic cracking unit	Rich gas compressor	2HSMC606	Steam turbine	Rich gas	40.83	41517	0.1	42	1.6
16	1 million tons/year heavy oil catalytic olefin production unit	Rich gas compressor	2HSMC526	Steam turbine	Rich gas	38.98	35910	0.2	42	1.7
17	1 million tons/year heavy oil catalytic olefin production unit	Standby main blower	HSMC1103	Electric Motor	Air	28.6	114660	0.1	33.6	0.3
18	1 million tons/year heavy oil catalytic olefin production unit	Booster	G120	Electric Motor	Air	28.6	13860	0.4	199.5	0.5
19	60 x 104t/a heavy oil catalytic cracking unit	Rich gas compressor	2HSMC456	Steam turbine	Rich gas	34.2	17703	0.3	42	1.7
20	60 x 104t/a heavy oil catalytic cracking unit	Main blower	HSMC1004	Electric Motor	Air	28.6	86940	0.1	27.7	0.4

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