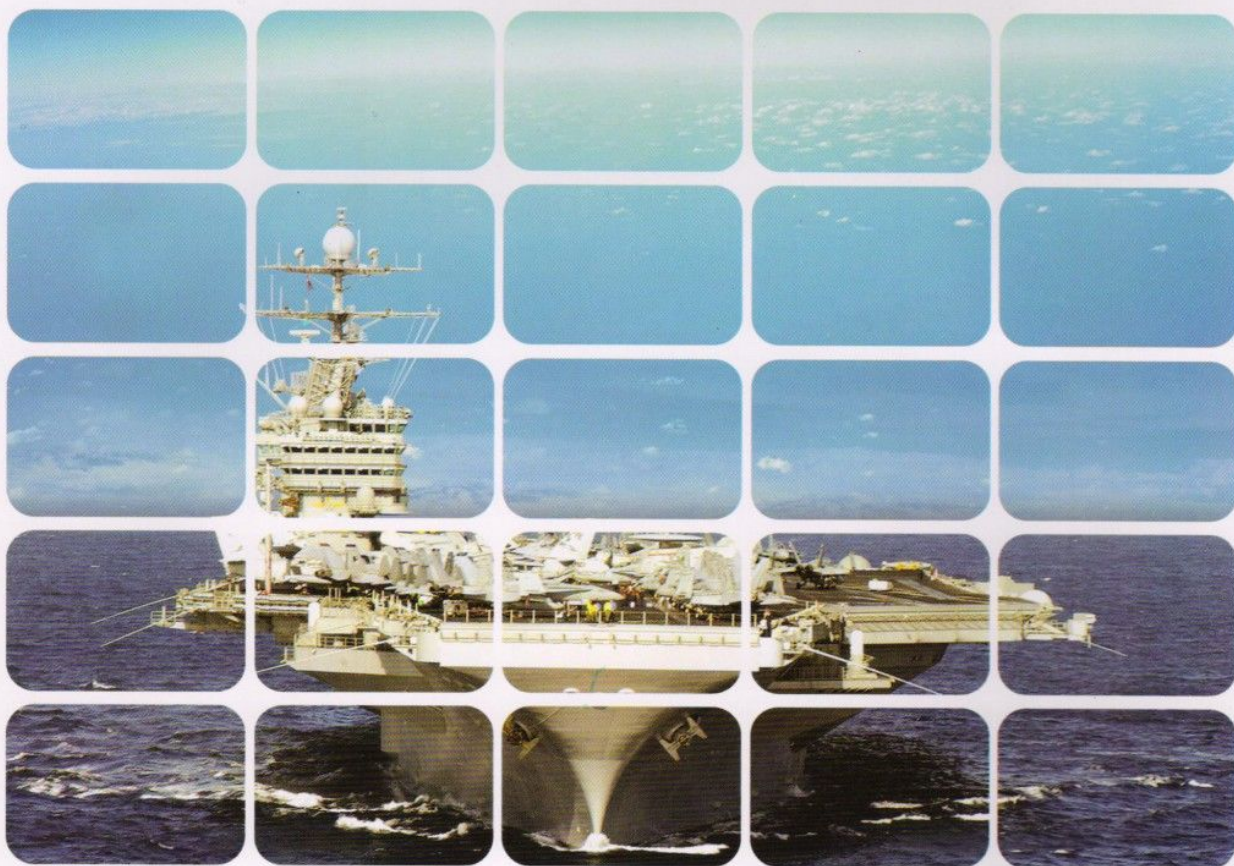




HAIHAO GROUP

**HEBEI HAIHAO HIGH PRESSURE FLANGE &
PIPE FITTING GROUP CO.,LTD**

Sincere trust, lasting cooperation



HAIHAO GROUP

Hebei Haihao High
Pressure Flange & Pipe Fitting
Group Co., Ltd

Group introduction

Established in 1982, Hebei Haihao High Pressure Flange & Pipe Fitting Group Co., Ltd. Our group is the biggest flange & pipe fittings manufacturer in our area, covers an area of 78,000 square meters with the building area of 55,000 square meters. We have fixed assets of 30 million Yuan. Situated in Industrial Area of Mengcun County, the Home of Elbow and Pipe Fitting of China, With Cangzhou Port in the east and Beijing and Tianjin cities in the north, we enjoy a convenient transportation.

Our company is a manufacturer specialized in producing flanges and pipe fittings. We have 660 workers and staff members with a strong technical force, including 26 engineers, 48 assistant engineers and 68 technicians. There are 3 sub-companies with 18 advanced production lines producing flanges and pipe fittings. Our techniques include forging, forging & pressing, mid-frequency pushing, machining, cold forming, heat protruding, hot extrusion and heat treatment. We have up-to-date detection capabilities of chemical analysis, metallographic test, physical inspection and nondestructive detection. We can produce different specifications of high, medium and low pressure pipe fittings in national and international standards, such as flanges, elbows, T-joints, convergent pipes, pipe caps, big elbows and socket joints made of stainless steel, alloy steel and carbon steel. The annual productive capability is more than 80,000 tons.

Our company got ISO9002 Quality System Certificate in 1999 and got ISO9001:2000 in 2002. We are a safety registration enterprise manufacturing pressure pipe fittings, a designated enterprise by China National Chemical Engineering Corporation, a member of Spare Part Supply Network of Power Station of China National Power Corporation, and a member of Spare Part Supply Network of China Petroleum and Natural Gas Group Corporation. We were approved as "Famous Brand Product Enterprise" by Hebei Quality Award Assessment Committee and "AAA Credit Enterprise" by China Agricultural Bank Hebei Branch. "Haihao" was confirmed as "Hebei Famous Brand" by Hebei Provincial Commerce and Industry Administration. In 2008, our group received the ABS (American Bureau of Shipping) TYPE APPROVED for our flanges & pipe fittings, with the ABS certificate, our products and group will be more quality and advance in our field.

Quality makes markets and honesty serves clients. We welcome you to pay a visit to our company for cooperation and mutual development.



HAIHAO GROUP

**HEBEI HAIHAO HIGH PRESSURE FLANGE &
PIPE FITTING GROUP CO., LTD**

Group honor

HSL CERTIFICATION SERVICE

QUALITY MANAGEMENT SYSTEM

CERTIFICATE

HSL

CERTIFICATION SERVICE

No. 11607Q1003180M

This is to certify that the quality system of

HEBEI HAIHAO HIGH PRESSURE FLANGE & PIPE FITTING GROUP CO., LTD.

Fulin Town, Xinda Road, Mangou County, Hebei Province 061400 China

has implemented and maintains a management system which

satisfies the requirements of the following standard:

GB/T19001-2000 idt ISO9001:2000

for the following field of activities:

The Production of the Steel Flanges and Steel Butt-Welding Seamless Pipe Fitting

Further clarifications regarding the scope of this certificate and the applicability of GB/T19001-2000 idt ISO9001:2000 requirements may be obtained by consulting the organization.

This Certificate shall remain in force until the expiry date printed below, subject to continuing compliance with ISO Certification Service requirements.

This certificate issued on 28 March 2007, Expiry date 27 March 2010

Shangjusheng

on behalf of HSL CERTIFICATION SERVICE

HSL **IAF** **CVAS**

ISO9001

ABS

CERTIFICATE OF

Design Assessment

This is to Certify that a representative of this Bureau did, at the request of

Hebei Haihao High Pressure Flange & Pipe Fitting Group Co., Ltd.

access design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS Classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate, and it will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Steel Pipe Fittings

MODELS: Buttwelding Fittings: 90° Long Radius Elbows, Straight Tees, Reducers
Socket Welding Fittings: Class 2000 90° Elbows, Class 2000 Tees, Class 2000 Couplings
Pipe Flanges: Class 150 Slip-On Welding Flanges, Class 300 Welding Neck Flanges

ABS RULES: 1-1-4.7.7, 4-6-2.5.5.1, 4-6-2.5.5.2 & 4-6-2.5.5.4 of Rules for Building and Classing Steel Vessels (SVR) 2007

OTHER STANDARDS: ASME B16.5-1996, ASME B16.9-2001, ASME B16.11-2001

AMERICAN BUREAU OF SHIPPING

T. M. H. H.

Takashi Matsuno
Manager of Engineering Service - Machinery

ABS

TYPE APPROVAL PROGRAM

CERTIFICATE OF

Manufacturing Assessment

This is to Certify that a representative of this Bureau did, at the request of

Hebei Haihao High Pressure Flange & Pipe Fitting Group Co., Ltd.

Attend their facilities at the location noted above, in order to carry out an audit of their facilities and associated quality assurance and quality control procedures. The facility is considered capable of consistently manufacturing:

Steel Pipe Fittings

In compliance with their ABS Product Design Assessment Certificates and the designated standards defined therein. The product listed on their current Product Design Assessment Certificate are eligible to be placed on this Bureau's List of Type Approved Products, subject to annual facility audits by a representative of this Bureau, and renewal of this Certificate after five (5) years.

ISSUE DATE: 14 January 2008

EXPIRATION DATE: 13 January 2013

SUPPLIER'S SIGNATURE: *M. G. H.*

FIRST ANNUAL ENDORSEMENT: *M. G. H.*

SECOND ANNUAL ENDORSEMENT: *M. G. H.*

THIRD ANNUAL ENDORSEMENT: *M. G. H.*

FOURTH ANNUAL ENDORSEMENT: *M. G. H.*

ABSTRACT: This certificate evidences compliance with one or more of the Rules, Codes, standards, or other criteria of American Bureau of Shipping, or a national, industrial or manufacturer's standard, and is issued solely for the use of the Bureau, its customers, its clients, or other authorized entities. This certificate is governed by the terms and conditions on the reverse side hereof.

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Hebei Haihao High Pressure Flange & Pipe Fitting Group Co., Ltd





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HEBEI HAIHAO HIGH PRESSURE FLANGE &
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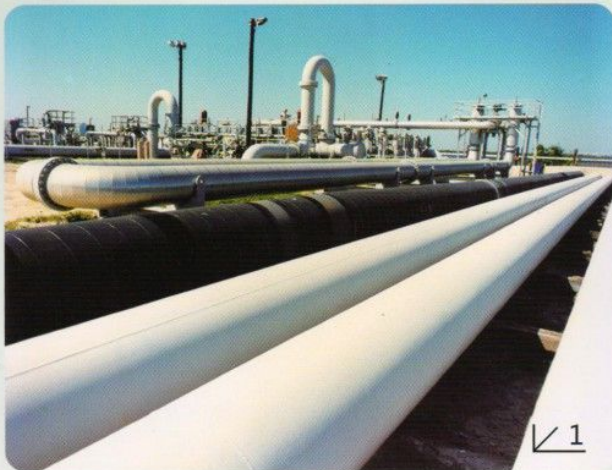
Enterprise outer door scene



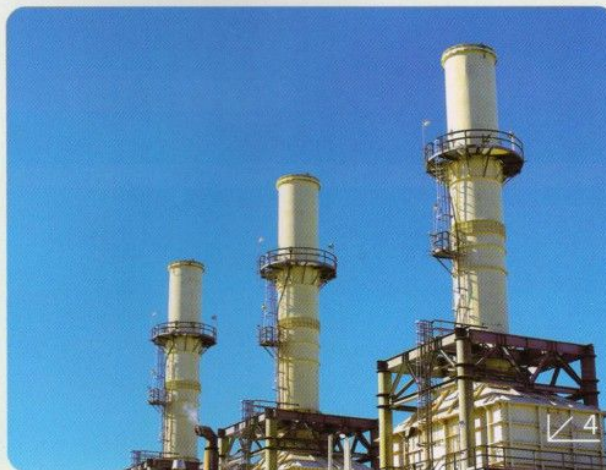
HAIHAO GROUP

Hebei Haihao High
Pressure Flange & Pipe Fitting/05
Group Co.,Ltd

HH pipe engineering, service for world flowing



- ✓ 1 Oil & gas pipeline
- ✓ 2 Electrical power engineering
- ✓ 3 Marine projects
- ✓ 4 Chemical engineering





HAIHAO GROUP

HEBEI HAIHAO HIGH PRESSURE FLANGE &
PIPE FITTING GROUP CO.,LTD

PRODUCTS RANGE

SEAMLESS BUTT WELDING PIPE FITTINGS:

ELBOW, TEE, REDUCER, CAP

ASME/ANSI B16.9 / B16.28 / MSS SP-75 / JIS B2311/ B2312 / DIN 2605/2615/2616

SOCKET WELDING PIPE FITTINGS:

ELBOWS, TEES, COUPLING

ASME/ANSI B16.11 / JIS B2316

FLANGES:

BLIND FLANGE, SLIP ON FLANGE, WELD NECK FLANGE, PLATE FLANGE.

ASME/ANSI B16.5/B16.47 / DIN 2630-2638/2573/2576/2527 / JIS 2220/ Bs4504

FORGING:

NON-STANDARD FORGINGS AND FLANGES,

ACCORDING TO CUSTOMERS' REQUIREMENTS AND DRAWINGS.

SEAMLESS STEEL PIPES:

ASTM A106/A53, API 5L, ASTM A192, DIN17175 DIN1629 ST35.8/ST37/ST45/ST52, ASTM A210, ASTM A179

Quality policy

ABS(American Bureau of Shipping) TYPED APPROVED in last year, our group established a laboratory of quality inspection with the Supervision Bureau of Quality and Technology of China. We have been a long terms partner with CNPC and SINOPEC. Then our main raw material, the pipes for the oil casing pipe, the pipe fittings and other raw material for flanges and pipes are all supplied by Bao steel group and Shougang steel group which belong to Chinese government.

To fulfill each and every requirement of customers and to meet with International specifications and dimensional standards, we follow stringent quality policy:

Organisation: We have a quality control department handled by a team of Q.C. experts whose work is to maintain all the records & supervision of Q.C. Inspectors.

Processing System: While selecting raw material we carry out a physical and chemical test. After acceptance of it, a control number is issued which is marked on whole of the material that is to be used. At the time of forging and forming of flanges, fittings etc same control number is transferred to further operation. After final forging or heat treatment a batch number is allocated a lot and this batch number is stamped on each pipelining component. Time and date of final forging is also mentioned on the temperature chart.

Machining: After final heat treatment process, all the pipelining components are sent for machining that includes O/D and I/D matching as per dimensional codes. A expert quality control engineer keeps constant vigil on every machining operation. All the machining is carried out as required by the codes.

Testing: In this step, three types of testing are performed: Tensile testing, Hardness testing and Impact testing. In tensile testing, sample is taken from the pipelining components in accordance with codes as required by purchaser on universal testing machine calibrated & approved by the authorized inspection agencies. In hardness testing, results are recorded in separate register and it is performed on atleast 10% of whole lot.

Finishing: After pickling and passivating all pipes, tubes, fittings etc., scale is removed that is formed during forging operations. Finally dimensional check is carried out and recorded.

Marking: After the final dimensional check each fitting is marked for size, schedule, fitting specification, heat mark & batch number.

Certificate: All of our pipelining components supplied to the purchaser are furnished with manufacturer's test certificate which includes data i.e. raw material composition, heat treatment done, heat mark, batch number, hardness value, chemical & physical test results, radiography results, size, schedule, specification and quantity supplied.

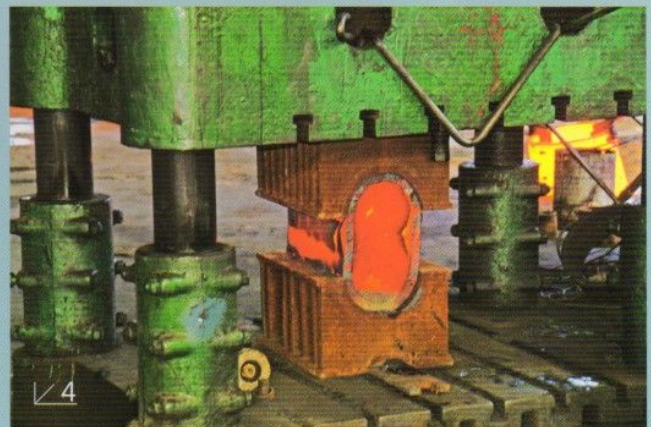
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Hebei Haihao High
Pressure Flange & Pipe Fitting / 07
Group Co., Ltd



Production equipment

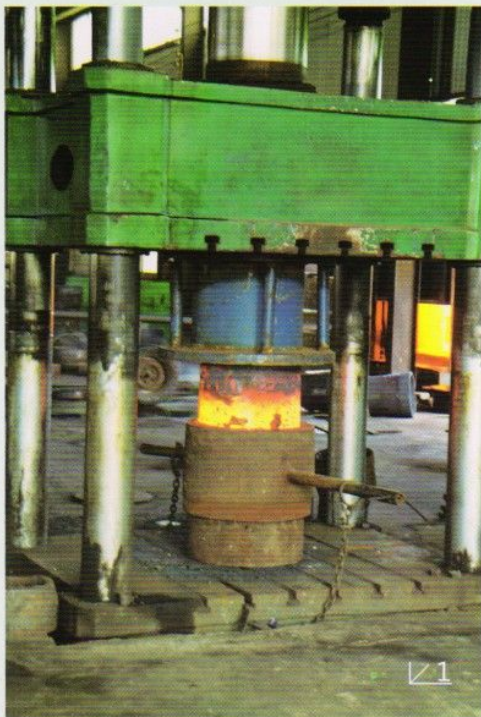
- ✓ 1 5M vertical lathe
- ✓ 2 IF pushing machine
- ✓ 3 2000T Hydraulic machine
- ✓ 4 Tee processing scene
- ✓ 5 Beveling machine





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HEBEI HAIHAO HIGH PRESSURE FLANGE &
PIPE FITTING GROUP CO.,LTD

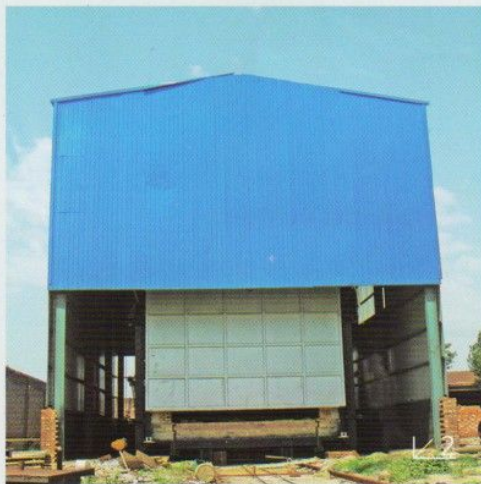


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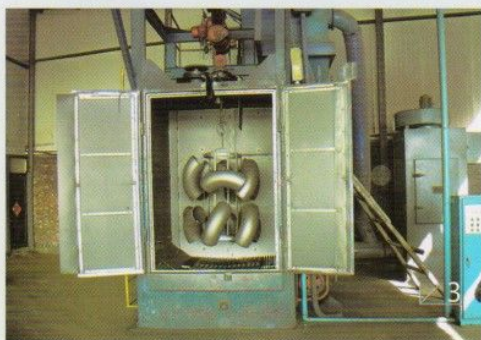


4

- 1 Reducers processing scene
- 2 Heat treatment furnace
- 3 Polishing machine
- 4 Beveling machine
- 5 Flange processing workshop



2



3

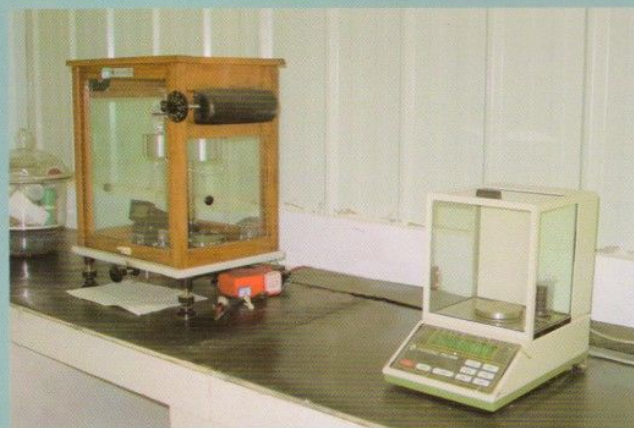
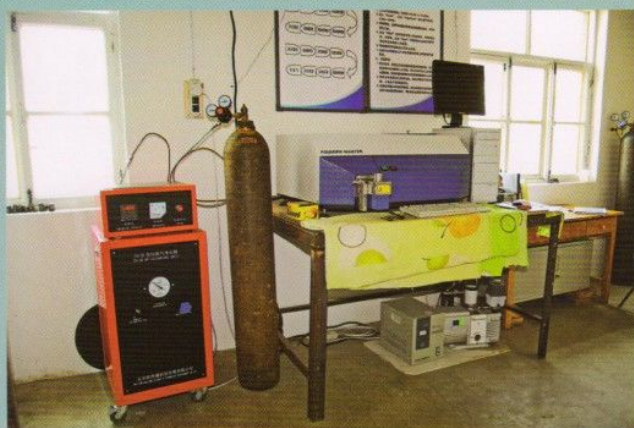


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HAIHAO GROUP

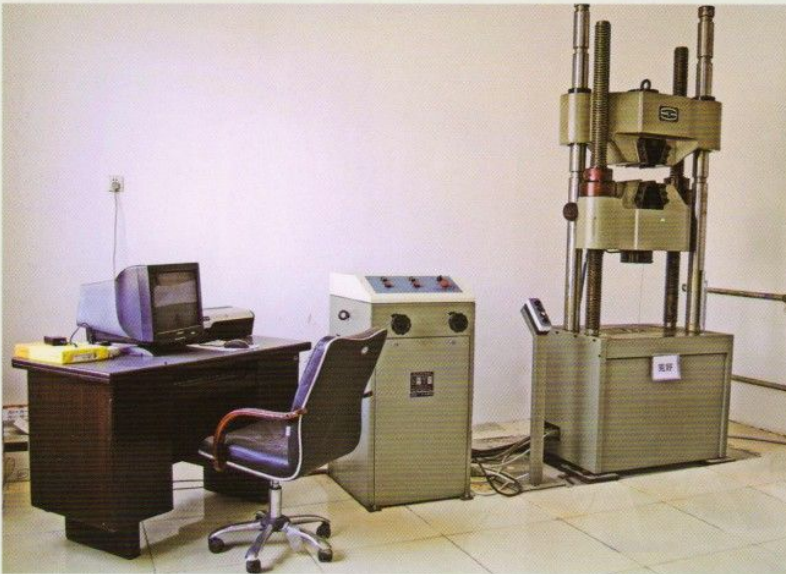
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Pressure Flange & Pipe Fitting/09
Group Co.,Ltd

Detecting equipment





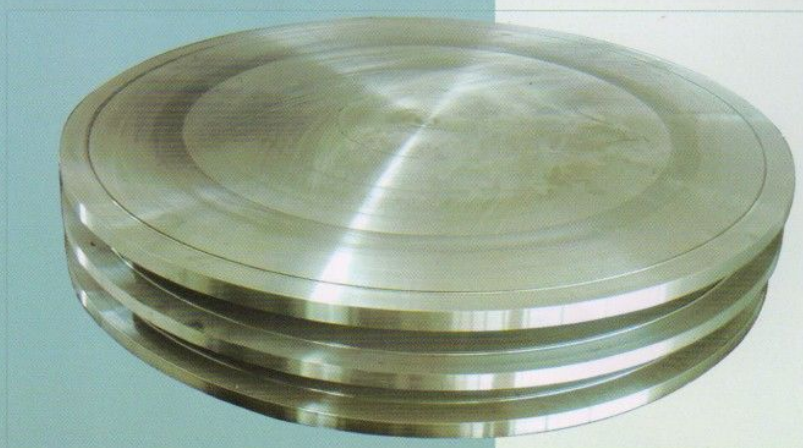
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**HEBEI HAIHAO HIGH PRESSURE FLANGE &
 PIPE FITTING GROUP CO.,LTD**



HAIHAO GROUP

Hebei Haihao High
 Pressure Flange & Pipe Fitting / 11
 Group Co., Ltd

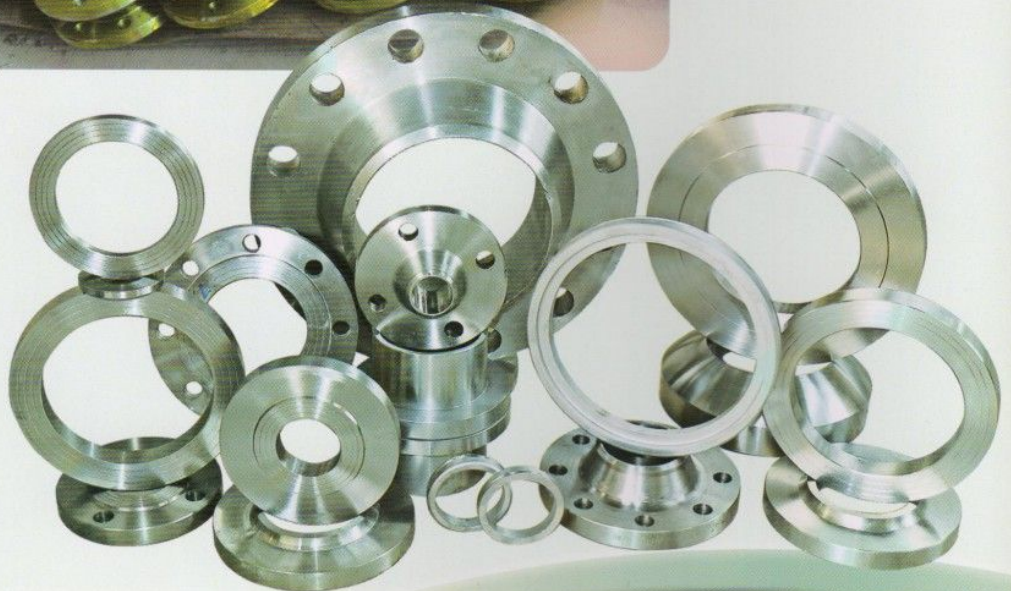
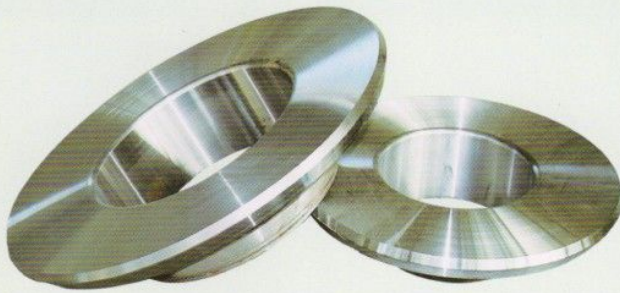
Flange products





HAIHAO GROUP

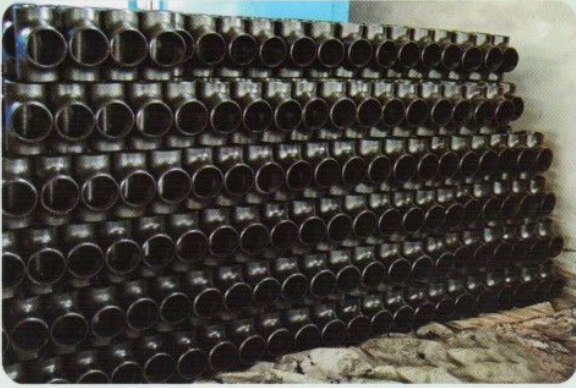
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PIPE FITTING GROUP CO.,LTD



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Pressure Flange & Pipe Fitting/13
Group Co.,Ltd

Butt-welding pipe fittings products





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PIPE FITTING GROUP CO.,LTD

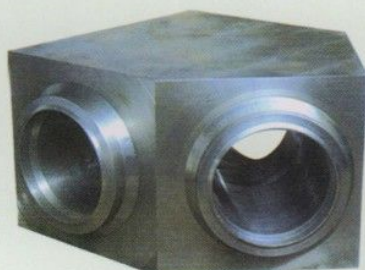


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Hebei Haihao High
Pressure Flange & Pipe Fitting/15
Group Co.,Ltd

High-pressure pipe fittings products

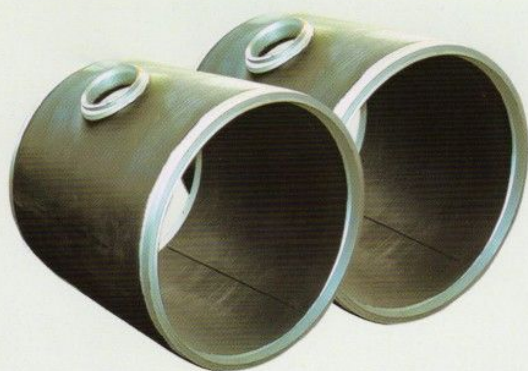
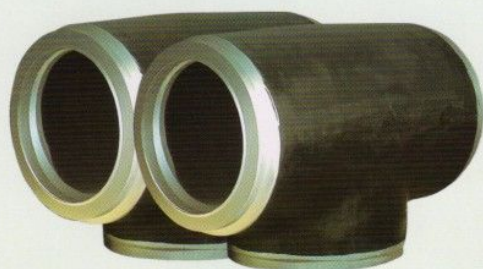




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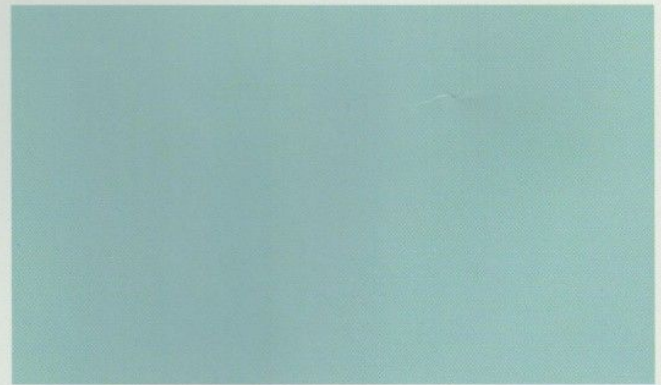


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Hebei Haihao High
Pressure Flange & Pipe Fitting / 17
Group Co., Ltd



Steel pipe products





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PIPE FITTING GROUP CO.,LTD

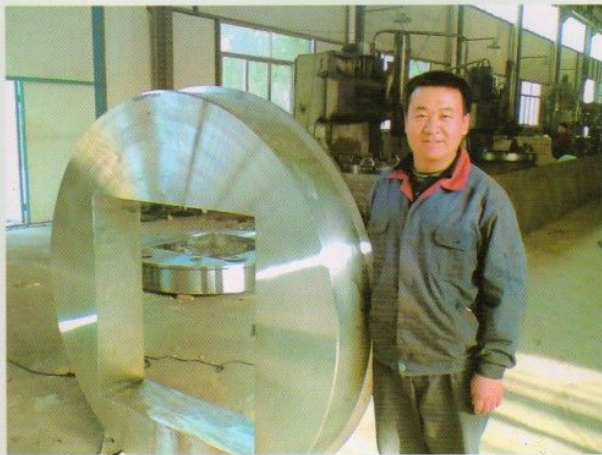


HAIHAO GROUP

Hebei Haihao High
Pressure Flange & Pipe Fitting/19
Group Co.,Ltd



Non-standard forgings and flanges





HAIHAO GROUP

**HEBEI HAIHAO HIGH PRESSURE FLANGE &
PIPE FITTING GROUP CO.,LTD**

Our company put the quality and reputation on the first position. We initiate the culture of enterprise. We got acclaim from customers by superior products and good service. The "Haihao" brand products will go towards the world successfully. And our group established a laboratory of quality inspection with the Supervision Bureau of Quality and Technology of China. We have been a long terms partner with CNPC and SINOPEC. Then our main raw material, the pipes for the oil casing pipe, the pipe fittings and other raw material for flanges are all supplied by Bao steel group and Shougang steel group which belong to Chinese government.

Customer List

CHINESE NATIONAL PETROLEUM CORP (CNPC)
SINO PETROLEUM CORP (SINOPEC)
WEST PACIFIC PETROCHEMICAL CO.,LTD DALIAN
ENGRO CHEMICAL PAKISTAN CO.,LTD
ROYAL DUTCH SHELL PUBLIC LIMITED COMPANY ZHEJIANG
CHEMICAL PLANT OF DAQING PETROLCHEMICAL WORKS
BEIJING ELECTRIC POWER CONSTRUCTION COMPANY
HEBEI ELECTRIC POWER CONSTRUCTION COMPANY
TIANJIN ELECTRIC POWER CONSTRUCTION COMPANY
HENAN FIRST ELECTRIC POWER CONSTRUCTION COMPANY
HENAN SECOND ELECTRIC POWER CONSTRUCTION COMPANY
THE INNER MONGOLIA ELECTRIC POWER CONSTRUCTION COMPANY
THE INNER MONGOLIA ELECTRIC POWER COMPANY
BEIJING GAS GROUP COMPANY
CANGZHOU OIL REFINERY
HEILONGJIANG PROVINCE FERTILIZER PLANT
GUANGDONG TAISHAN ELECTRIC POWER COMPANY
GUANGDONG SHANTOU ELECTRIC POWER COMPANY

HAIHAO GROUP

Hebei Haihao High
Pressure Flange & Pipe Fitting/21
Group Co.,Ltd

HEBEI HAIHAO HIGH PRESSURE FLANGE & PIPE FITTING GROUP CO., LTD.

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HAIHAO GROUP

HEBEI HAIHAO HIGH PRESSURE FLANGE &
PIPE FITTING GROUP CO.,LTD

- COMPANY PROFILE
- PRODUCT TECHNICAL DATA
- REFERENCE CERTIFICATES & PROJECTS



HAIHAO GROUP

HEBEI · CHINA