



SZFH

神州封头
SHEN ZHOU FORMED HEAD

COMPANY INTRODUCTION

Xinxiang, Henan, China

Henan Shenzhou Precision Manufacturing Co., Ltd.

• 诚信 / 厚德 / 专注 / 卓越 / 品牌 •

CONTENT

- 1 **Company Profile**
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PART 1

Company Profile



Development History



- 1973** — Established in Xinxiang, Henan Province.
- 1993** — Introduced the Italian cold spinning production line.
- 1997** — 8000T hot formed production line went into operation.
- 2008** — Established a subsidiary-Anhui XinLianXin Heavy Head Co.,Ltd. in Anhui Province.
- 2011** — Established an automatic cold formed line in Xinxiang.
- 2013** — Obtain the ASME U certificate.
- 2015** — Renamed as " Henan Shenzhou Precision Manufacturing Co.,Ltd."
- 2016** — Listed in China National Equities exchange and quotations.
- 2019** — Build new plants in Henan and Anhui Companies, the 39,000 tons capacity hot formed machine went into operation.

Company Profile

The Shenzhou Company is one of the first professional enterprises in China that obtained the production license for the heads of boiler and pressure vessel. It covers an area of 180,000 m², with 25,000 m² of floor area, and its fixed asset is USD\$23million.

The new factory covers an area of more than 100,000 m². The planned total assets is USD\$50million and the area of structure is 58,500 m². After completion, it will be the largest modernized manufacturing integrated enterprise for stamping parts with ability of R&D, manufacturing, marketing and technical services in China.



Company Profile



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Xinxiang, Henan Province Hot formed plant

Structure area (m²) =25,000
Established in 1973



Xinxiang, Henan Province Cold & Segmental formed line

Structure area (m²) =58,500
Established in 2011



Chuzhou, Anhui Province Professional in special material

Structure area (m²) =20,000
Established in 2008





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PART 2

Qualification Certificate





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Qualification Certificate

The company has taken the lead in obtaining manufacturing license for the head and the ASME certificate, passing ISO90001, ISO14001, OHSAS18001 Management System Certification, obtain the certificate of new & high-tech enterprise, membership card of the Chemical Industrial Equipment Association, and the AAAA certificate of Confederation of Chinese Metalforming Industry, the standing director of the China Container Head Group, the director of the Chinese Pressure Vessel Association, membership of the Chinese Chemical Industry Equipment Association, membership of the Chinese Nuclear Power Association, membership of the Chinese General Machinery Union Valve Association, and the member of the Chinese Special Vehicle Association.




Qualification Certificate



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THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS

*Certificate of Authorization
to Register*



This is to certify that

Henan Shenzhou Precision Manufacturing Co., Ltd.
No. 464, Qingnian Road, Xiaoji Town
Xinxiang City, Henan Province 453731
China


is authorized to apply the "NB" mark and register boilers, pressure vessels or other pressure retaining items with the National Board.


The scope of Authorization is limited to items manufactured in accordance with:

ASME Designator(s): U, PRT

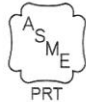
Issue Date: August 16, 2016

This Certificate of Authorization to Register will remain in effect as long as the manufacturing organization holds a valid Certificate of Authorization issued by the American Society of Mechanical Engineers.

Executive Director 



ASME " NB "



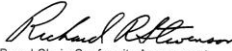
**CERTIFICATE OF
AUTHORIZATION**


The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY: **Henan Shenzhou Precision Manufacturing Co., Ltd.**
No.464, Qingnian Road, Xiaoji Town
Xinxiang City, Henan Province 453731
China


SCOPE:
Fabrication of parts without design responsibility for ASME Section I at the above location.

AUTHORIZED: August 16, 2016
EXPIRES: August 2, 2019
CERTIFICATE NUMBER: 53,475

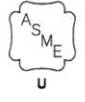

Board Chair, Conformity Assessment


Director, Conformity Assessment

The American Society of Mechanical Engineers



ASME " PRT "




**CERTIFICATE OF
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The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY: **Henan Shenzhou Precision Manufacturing Co., Ltd.**
No.464, Qingnian Road, Xiaoji Town
Xinxiang City, Henan Province 453731
China


SCOPE:
Manufacture of pressure vessel parts at the above location only.

AUTHORIZED: August 16, 2016
EXPIRES: August 2, 2019
CERTIFICATE NUMBER: 45,564


Board Chair, Conformity Assessment


Director, Conformity Assessment

The American Society of Mechanical Engineers



ASME " U "

Qualification Certificate



ISO9001



ISO14001



OHSAS18001



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Patent Certificate (Partial)

Utility Model Patent

Patent Name

ZL 2012 2 0379366.0	Segmental bell mouth Heads
ZL 2012 2 0377406.8	Three-layer composite plates heads
ZL 2012 2 0377217.0	Super-large size dished Heads
ZL 2012 2 0377220.2	Conical Heads
ZL 2012 2 0376052.5	Large-diameter Dished only heads with thin thickness
ZL 2012 2 0379743.0	Large-diameter Nuclear Project steam separator heads
ZL 2012 2 0376226.8	BHW series high strength steel hemispherical heads
ZL 2012 2 0376386.2	Deep submergence vehicle used hemispherical heads





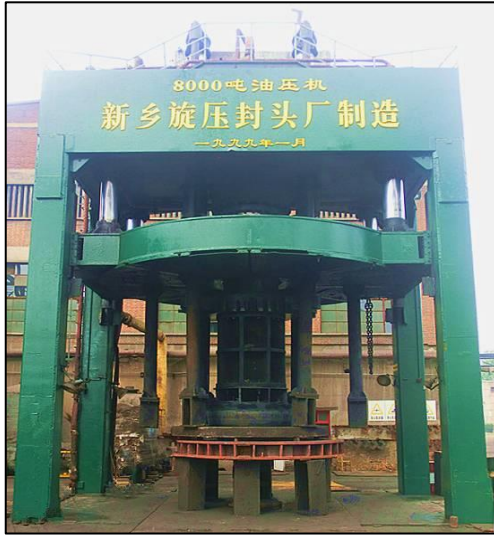
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PART 3

Main Equipment



Main Equipment



Oil Press

Natural Gas
Furnace

Oil Press

Natural Gas
Furnace

Y32-8000T

7.5*7.5*2.5M

SY1-3000T

4.6*4.8*1.6M

Main Equipment



Oil Press

Natural Gas
Furnace

Cold Pressing

Revolving Drum
Press

SY3-2000

2.4*2.4*1.6M

YH24-2000/4000A

PAO 600/6200

Ancillary Equipment



MTS 2BC230c2-C
Pendulum Impact Tester



MTS CM5305 Electronic
Universal Testing Machine



Analysis Meter of German
Spectro SPECTROMAXx
Direct-reading Spectromet



Hand-held Spectrometer



X-ray Radiographic
Inspection Equipment



Magnetic Tester

Ancillary Equipment



Numerical Control Cutting Machine



(P+T) Automatic Welder



Large-scale Imported Automatic Welder



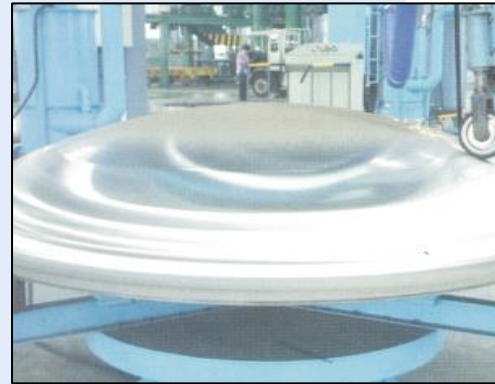
Semi-automatic Submerged Arc Welder



Gantry Welder



Deflection Welder



Polishing and Bumishing Machine



Full Automatic Sandblasting Room

Main Equipment under Construction (Henan)

Type	Specifications	Company
6,000 T Cold Formed Machine	Forming diameter range from ϕ 1600 to 3400mm	Henan
4,100 T Cold Formed Machine	Forming diameter range from ϕ 500 to 1700mm	Henan
Three-roller Symmetry Rolling Machine	Maximum Rolling capacity:W3000 and 50mm THK.	Henan
10 M Vertical Lathe	Chuck diameter: ϕ 5000mm; Max. turning dia. ϕ 11000mm	Henan
39,000 T Hot Formed Machine	Forming Elliptical heads maximum ϕ 6500 Forming Hemisphere heads maximum ϕ 5600	Henan
Trolley Type Natural Gas Heating Furnace	The dimension:10.5 m * 10.5 m * 3.5 m	Henan
Automatic Sand Blasting Machine	Processing heads with 5.7meter	Henan

Main Equipment under Construction (Anhui)

Type	Specifications	Company
Flanging Machine	Maximum capacity ϕ 5200 * 30 mm THK.	Anhui
8,000T Hot Formed Machine	Formed capacity Maximum ϕ 3800mm	Anhui
8M Vertical Lathe	Chuck diameter: ϕ 5000mm; Max. turning dia. ϕ 8500mm	Anhui
Flanging Machine	Maximum capacity ϕ 8000 * 40 mm THK.	Anhui
Press Machine	Maximum capacity ϕ 8000 *40 mm THK.	Anhui
3,600 T Gantry Press Machine	Deflection size:6000mm	Anhui
Trolley Type Natural Gas Heating Furnace	The dimension:W6.2 m * L7 m *H2.3 m	Anhui



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PART 4

Product Presentation



QUALITY ASSURANCE

It can conventional heads and segmental heads by cold forming, hot forming or cold spinning according to users' requirements. Materials from carbon, alloy and low alloy steels, clad plate, titanium, nickel, Aluminum, Tantalum and other nonferrous metal etc. with many varieties;

Our products are primarily intended for use as pressure vessels, tanks, boilers and cryogenic storage equipment, manufactured to all applicable China GB, ASME, DIN, and GOST standards.

Testing & Inspection

- Radiography • Charpy V-notch Tests • Ultrasonic Soundness • Magnetic Particle • Brinell Hardness

Heat Treatment

- Annealing • Normalizing and Quenching • Stress Relieving • Solid solution • Tempering

Welding

- Stick-electrode • Semiautomatic • Gas shielded • Submerged-arc



Manufacturing Range

Conventional Heads Formed in One Piece

Head Type	Cold forming		Hot forming	
	Diameter (mm)	Thickness(mm)	Diameter (mm)	Thickness(mm)
Elliptical heads	1500-7000	5-50	89-6000	3-320
Dished heads	1400-7500	5-50	300-6000	5-320
Dished only	1500-8000	5-50	300-6500	5-320
Cone heads	1400-7000	4-50	300-5000	5-320
Hemispherical heads			300-4600	5-320
Flat heads			300-6000	4-80
	Segmental Heads			
	Diameter(mm): no limit		Thickness(mm): 4-360	

Various kinds of special heads
(furnace bottom, furnace shell, furnace top, deflection cone, reduced cone, egg shape, bell mouth, etc)

Company Performance (Partial)

No.	CUSTOMER	SPECIFICATION (mm)	MATERIAL	REMARKS
1	Dongfang (Guangzhou) Heavy Machinery Co., Ltd. http://en.dfem.com.cn/	EHA5700×56	SA516Gr70	Taishan Nuclear Power Plant gas-water separator
		∅5350×56	SA516Gr70	
2	Harbin Electric Corporation(QHD) Heavy Equipment Company Limited http://www.hpecqhd.com/	Hemispherical head SR800×60	SA516Gr70	Sanmen Nuclear Power Station AP1000 moisture separator preheater and drain tank
		Hemispherical head SR550×32	SA516Gr70	
3	Harbin Boiler Company Limited http://www.hbc.com.cn	Dished head I.D.4600*8	10CrNiCu	Military products
		Cone ∅4150/3200×162	SA387Gr11cl2	Coal-to-olefin Project/gasifier

Company Performance (Partial)

No.	CUSTOMER	SPECIFICATION (mm)	MATERIAL	REMARKS
4	China FIRSTHEAVY Industries http://www.cfhi.com/en/	EHA7440×60	SA302GrC	Ethylene oxide reactor
		EHA3400×35+3	SA-302 Gr C+S30403	Ethylene oxide reactor/ cooling unit
5	Wuhan Boiler Co.,Ltd. http://www.wbcl.com.cn/	Hemispherical head SR882.7*110	13MnNiMo54(BHW35)	Combined heat and power generation project
		Hemispherical head SR949.8*81	SA-299M	Combined heat and power generation project
6	Morimatsu group (China) Shanghai morimatsu pressure vessel Co., Ltd. http://www.morimatsu.com.cn/en/	∅ 17596*8	SA240-304H	Jordan &India Fertilizer Project
		2:1 Elliptical head I.D.3312×65	SA516Gr70	UOP Project

Company Performance (Partial)

No.	CUSTOMER	SPECIFICATION (mm)	MATERIAL	REMARKS
7	Shanxi Fengxi Chemical Equipment Co., Ltd. http://www.sxfxhg.com/	Hemispherical head SR1415× (58+4)	14Cr1MoR+347H	Datong Coal Mine Group-- shift converter
		Hemispherical head SR1610× (54+4)	14Cr1MoR+347H	
		Hemispherical head SR1709× (50+4)	14Cr1MoR+347H	
8	Zhenhai Petrochemical Jianan Engineering Co.,Ltd. http://www.izpec.com/	Hemispherical head SR1226.5× 80	12Cr2Mo1R	Sinopec--heat exchanger
		Hemispherical head SR1250× 85	12Cr2Mo1R	Sinopec—mixed feeder
		Hemispherical head SR1325× 90	12Cr2Mo1R	Sinopec--heat exchanger

Company Performance (Partial)



Cone:	4479/3519*162mm	Cone:	4570/2115*182mm
Material:	SA387Gr11CL2	Material:	SA387Gr11CL2

Company Performance (Partial)



Specification:

2:1 Elliptical heads I.D20000mm,
Min.thickness 16mm

Material:

SA516GR.70

Specification:

Elliptical heads I.D11000mm,
Min.thickness (74+3)mm

Material:

Clad SA516GR.70+SB265GR.1

Company Performance (Partial)



Specification: Hemispherical heads I.D15920mm,
Min.thickness 21mm

Material: EN10028-6 P690QL1

Specification: Dished heads I.D9920mm,
Min.thickness 50mm

Material: ASTM A240 UNS S32205

Company Performance (Partial)



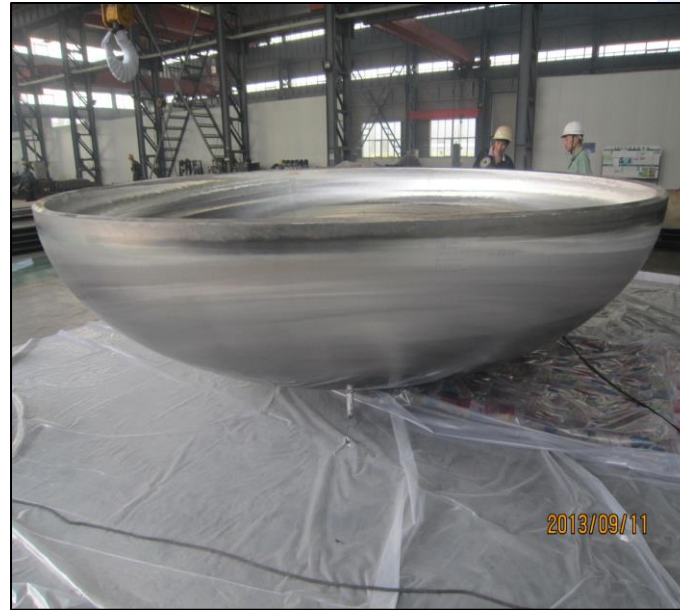
Specification:	Elliptical heads I.D12500mm, Min.thickness 50mm	Specification:	Dished heads I.D7600mm, Min.thickness 12mm
Material:	Duplex Steel ASTM A240 UNS S32205	Material:	NO6600
Customer:	Valmet Corporation	Customer:	ANDRITZ

Company Performance (Partial)



Specification:	Flat heads I.D. 4800mm, T.H.K 80mm (min)	Specification:	EHA 3400mm*(2+2+16)mm
Material:	ASME SA240 316L	Material:	Zr702+TAI+16MnR (Cladded material)
Customer:	Morimatsu (Japan)	Customer:	SMEC

Company Performance (Partial)



Specification:	Spherical heads I.D1830mm,Min.thickness 22mm	Elliptical heads I.D4600mm,Min.thickness 66mm	Hemispherical heads I.D4740mm,Thickness 74mm
Material:	SA240-304H	SA240 304H	A240 UNS 31803
Customer:	DOW Chemical	DOW Chemical	DOW Chemical

Cooperative Partner



BASF



Dow Chemical



CNPC
CNPC



GE

FLUOR

FLUOR



Hyundai



Hualu

Technip

Technip Coflexip

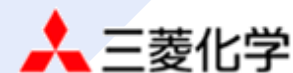


TOYO



Bayer

Bayer



Mitsubishi



Sinopec

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HQCEC



BP



CASC



森松集团(中国)
MORIMATSU GROUP CHINA

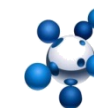
HITACHI
Inspire the Next

ANDRITZ



华鲁恒升
HUALU-HENGSHENG
HuaLu HengSheng

CIMC 中集



SASOL
reaching new frontiers

THANK YOU



Official Website



WeChat Official Account

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**SHEN ZHOU
FORMED HEAD**