





XR 系列螺杆蒸汽压缩机

XR SERIES SCREW STEAM COMPRESSOR

Shanghai Xinran Compressor Co., Ltd X. E. S. industry (jiangsu) Co., 1td

Global hot line: 400-110-9566 Tel: 021-33581065 33580961 0516-89580911 89580933

Production base: 805, No. 2222 Huancheng Road, Jiading District, Shanghai

No. 1, High-tech Industrial Park, Fengxian Development Zone, Xuzhou City, Jiangsu Province

Mail box: master@xinrancompressor.com
Website: http://www.xinrangroup.cn
@Shanghai Xinran Compressor Co., LTD All rights reserved,

The Company reserves the right to modify the data parameters in the sample data without prior notice

X. E. S. industry (jiangsu) Co., 1td Shanghai Xinran Compressor Co., Ltd

简

Choose Xinran choose worry free

X. E. S. industry (jiangsu) Co., Itd

We are compressor production based joint venture, by Shang hai Xinran Compressor Co., Ltd. and Asia Pacific General Machinery Co., LTD Built as the Jiangsu production base of Shanghai Xinran Compressor Co., LTD., the main production company is the whole system List of products, of which the screw host and the whole machine production base covers a total area of 60 acres.



Shanghai Xinran Compressor Co., Ltd

Founded in 2004, is China's largest compressor manufacturer and exporter. Its leading product is screw air pressure Machine, mobile air compressor, high pressure air compressor, variable frequency air compressor, oil-freeair compressor, centrifugal compressor, vacuum pump, oil-free screwA full range of products, such as rod blower, drill truck, dryer precision filter, gas storage tank, pneumatic tools, etc. The company is in...The industry took the lead in passing the National Quality Certification Center (CQC) Certification the national industrial product production license, CE Certification, TUV certification, ISO9001:2008 quality management system certification, and successively won the "Chinese government procurement preferred brand", "High-tech products" and other honorary titles.

Asia-pacific General Machinery Co., LTD

It takes import and export of mechanical and electrical equipment as its core business and strategic investment as its business focusThe joint company. The main business covers: general machinery and equipment import and export, agency mechanical and electrical equipment import and exportPort, complete equipment project implementation, product manufacturing, venture capital platform, etc. The company to Skilled business level, the company has a sound qualification system and

strong technologySupport, extensive

service network at home and abroad, for "made in China" and overseasBuild a bridge to reach the market.

Qualification















INTRODUCTION

产品介绍

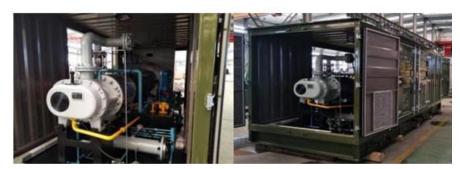
The screw steam compressor is a kind of high efficiency steam compressor specialized in recycling low-grade energy, it drives the screw steam compressor to rotate through the motor, when the low-grade thermal energy medium enters the screw groove, with the rotation of the rotor, the volume of the groove is rapidly reduced, the use of fluid compression and pressure boost to achieve energy conversion. From and make full use of energy to transform waste heat steam from low quality state to high quality state, and output high temperature and high pressure steam to meet the steam parameters required by users.

At present, in the production process of industrial and mining enterprises, a lot of low-grade steam and flash steam are produced. They are characterized by low temperature and low pressure and high humidity, although they contain a lot of latent heat energy of vaporization but can not be fully used, most of them are discharged or condensed into water to be recovered, wasting a lot of energy at the same time, not through the boiler, the condensate revaporization heating pressure to meet the needs of production steam, or to buy new steam from the thermal power plant. If the screw steam compressor is used to compress the low quality steam to meet the production steam standards, so that the steam can be recycled, which can not only purify the environment but also achieve energy saving and emission reduction goals, but also give enterprises

The industry brings huge economic benefits.



TECHNICA CHARACTERIS 技术特点



- ●Simple structure, safe and reliable screw steam compressor unit has simple structure, small size, stable operation, small vibration, safe, reliable and durable, simple operation and easy maintenance. The whole machine is assembled from the factory, and can be put into operation by connecting and debugging on site
- ●Large pressure difference width, strong applicability screw steam compressor maximum inlet and exhaust steam pressure difference up to 1MPa, far more than other steam supercharging equipment. High grade heat source can be obtained with less energy consumption, suitable for saturated steam, vapor-liquid two-phase and other force lifting.
- ●The screw steam compressor has the characteristics of forced steam delivery, the volume flow is almost not affected by the exhaust pressure, and can maintain a high efficiency in a wide range. In the case of no change in the structure of the steam compressor, it is suitable for a variety of working conditions
 - The energy saving effect is remarkable, and the return on investment is short. By increasing the pressure of the low-pressure steam, the steam is applied in the loop. Thus, it can reduce or even avoid the large energy consumption of steam in the process of condensation, pressure boost and reheating, realize the recovery of process steam tail steam, and save energy significantly. The equipment payback period is generally within one year.

PERFORMANCE PARAMETER

产品性能参数

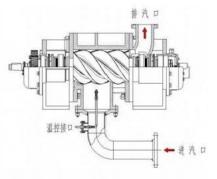
Inlet and exhaust pressure difference: 0.2-1.0MPa

Temperature rise range: 20-100°C

Maximum exhaust temperature: 250°C

Range of speed: 1500-4000r/min

Unit displacement range: 20-320m³/min Steam compression capacity: 0.5-20t/h



Some screw steam compressors product parameter

Model No.	Displacement (m²/min)		In/out pipe diameter(nm)	Capacity (t/h)	rotate speed(r/min)
XRY40-W	20-50	0. 2-1. 0	150/80	0. 5-2	1500-4000
XRY80-W	40-80	0. 2-1. 0	200/100	2-8	1500-3000
XRY130-W	65-130	0. 2-1. 0	300/150	3-12	1500-3000
XRY160-W	80-160	0. 2-1. 0	300/150	4-16	1500-3000
XRY320-W	160-320	0. 2-1. 0	350/200	10-30	1500-3000

APPLICATION AREA

产品应用领域

Screw steam compressor products can be widely used in petroleum, chemical industry, metallurgy, thermal power, steel, paper, light industry and other industrial enterprises of low pressure steam recovery.



petroleum



chemical industry



metallurgy



Electric power

APPLICATION PROJECT

应用项目

Low grade steam pressure recovery project

Steam source parameter

Saturated vapor pressure ≥ 0.3MPa(g): steam dryness 0.95-0.97 Quantity of steam≥4t/h.

Steam parameters after compression

Pressure:0.8MPa(g): temperature≥175°C,capacity:4t/h

Technology parameter

1.inlet: 0.3MPa (meter),saturation:144°C

2.outlet: 0.8MPa (meter),outlet temperature≥175°C

steam enters the process pipe network:

3.Compressed steam: 4t/h.

Equipment parameter

Model: XRY40-3000 speed: 3000r/min
Shaft power: 285KW Motor power: 315KW

Economic benefit (8000h)

Item	QTY	PRICE	AMOUNT
Annual steam recovery:	32000 Tons	140Yuan/ton	448ten thousand yuan
Annual power	232万kw. h	0.5Yuan/kw	-116ten
consumption cost:			thousand
			yuan
Annual total revenue	332ten		
	thousand yuan		

APPLICATION ITEM

应用项目

Steam compression recovery project of a plant in Zhejiang

Steam source parameter

Steam pressure 0.47MPa(g) Saturated wet steam: steam dryness 0.97: steam capacity ≥4t/h.

Steam parameters after compression

After compression, the steam pressure is 1.25MPa(g): the temperature is 200°C, the steam compression capacity is 4t/h, the equipment is matched with 220KW motor: the theoretical power consumption is 180KW.

Technical specification

1.inlet: 0.7MPa (meter),170°C:

2.displacement: 1.25MPa (meter) 2 0 0°C:

Steam enters the process pipe network:

3.capacity: 4t/h Equipment parameter

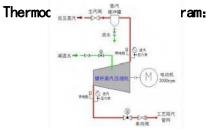
> Model: XRY20-1500 speed: 1500r/min Shaft power: 180KW Motor power: 220KW

Economic benefit (8000h)

Item	QTY	PRICE	AMOUNT
Annual steam 32000Tons		200Yuan/Tons	
recovery: :			thousand yuan
年耗电成本:	148万kw. h	0.7Yuan/kw	-103.6ten
			thousand yuan
年总收益:	536. 4ten		
	thousand yuan		

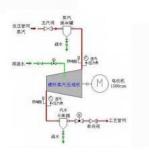
The site photo:











Choose Xinran choose worry free

APPLICATION PROJECT

应用项目

Steam compression recovery project in Anhui

Technical specification

1.inlet: 0.8MPa (meter),175°C:

2.displacement: 1.45MPa (meter),210°C:

Steam enters the process pipe network:

3.Compressed steam: 4t/h

Equipment parameter

Shaft power: 200KW

Model: XRY20-1500 speed: 1500r/min

Motor power: 220KW

Economic benefit (8000h)

Item	QTY	PRICE	AMOUNT
Annual steam recovery:	32000Tons	150Yuan/Tons	480ten thousand yuan
Annual electricity consumption cost:	164万kw. h	0.5Yuan/kw	-82ten thousand yuan
Annual gross return:	398ten thousand yuan		

The site photo: Thermodynamic system diagram:



APPLICATION ITEM

应用项目

Saturated steam pressurization project of a company

Steam source parameter

The steam pipe network (operating pressure is 0.4~0.6MPa.g) in the plant is supplied with saturated steam generated by vaporizing cooling of the company's heating furnace. During the non-heating season (in principle, from February 30 to November 30 of the following year), the steam pipe network pressure is maintained at 0.4~0.6MPa.g by controlling steam release. The estimated dispersion is about 8t/h. The saturated steam temperature is about 140~150°C.

The second steelmaking initial smelting includes 3#100t electric furnace and 120t converter, which require a very high proportion of VD furnace vacuum, and the waste heat boiler of the electric furnace has been operated under reduced pressure due to aging, and the steam generated by the pipe network in the plant area is no longer used for the second steelmaking production. Converter vaporization cooling steam into 150m³ heat storage

After the device is reduced to 1.3MPa.g for VD furnace vacuum use. The part with insufficient steam needs to be supplied by 25t/h gas boiler. At present, the set pressure of the boiler is 1.65MPa.g, the pressure of the boiler outlet pipeline supplied during the current normal production period in the boiler station is 1.25-1.4mpa. g, and the pressure of the user side inlet is 1.2-1.3mpa. g.

requirement of project

The project plans to build a set of variable frequency pressure equipment for saturated steam near the 25t/h boiler. After increasing the pressure, the discharged saturated steam will reach the outlet pressure and temperature that meet the requirements of use, and then connect it to the same supply pipeline near the boiler outlet. Under the condition that the pressurized steam is used first, it can supply VD production of second steelmaking at the same time as the 25t/h boiler. Reduce the boiler output, so as to reduce the output of 25 tons of boiler and save the purpose of natural gas consumption. After compression, the steam pressure is 1.5MPa.g, and the steam temperature is 210-220 °C(saturation temperature is 198.3°C). Steam flow 8t/h

Technical specification

- 1. Inlet: 0. 5MPa (meter), saturation159°C;
- 2. Displacement: 1.5MPa (meter), enter into the steam pipe;
- 3. compressed steam: 8t/h

Equipment parameter

Model: XRY60-2250 speed: 2250 r/min; Shaft power: 680 Kw; Motor power: 900 Kw;

Economic benefit (8000h)

Item	QTY	PRICE	AMOUNT
nnual steam recovery:	64000Tons	160Yuan/Tons	1024ten thousand yuan
Annual electricity consumption cost:	584万kw. h	0.5Yuan/Tons	-274ten thousand yuan
Annual electricity consumption cost:	750ten thousand yuan		

Site equipment photos:





	Screw compressor product order data table				
No.		User Info			
1	username				
2	project name				
3	project location				
4	forms of application:	Screw steam compressor			
		Steam parameters and characteristics fo	or plant/p	orocess	
5	Device/Process Name:				
6	Annual running time:H				
7		steam pressure: MPa.g ra	ated:	Mini	Max:
8	Exhaust parameter	steam temperature: °C ra	ated:	Mini:	Max:
9		steam flow; t/h	ated:	Mini:	Max:
10	Steam parameter	Steam Pressure: MPa.g ra	ated:	Mini:	Max:
11	Oteam parameter	Steam temperature: °C ra	ated:	Mini:	Max:
12	In vapor form	Direct access steam equipment ☐; Access to steam network ☐; Others: □(Note:			
	Power Supply Properties				
13	power	voltage : 380/400V ☐ ; 6000/6300V ☐ ;1000 HZ: 50Hz Others ☐ (Note: _)	00/10500\	/ □;	
14	control power supply	220V □ 380V □ Others □(Note: _)			
Field 6	energy/media prices - Econom	ic accounting			
15	Local electricity price:	\$/KW			
16	softened water:	\$/T			

17 Steam Price:	\$/T
Note:	
1, if the on-site industrial water qual	lity is very good, there is no need to support the circulating cooling water system, can directly use industrial
water as the sealing cooling water;	
if it is necessary to reduce the ter	mperature/dryness of the steam intake of the unit, such as strict requirements for steam quality, it is
recommended to use deoxygenated	d water.