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Start the travel
of success hand
in hand with Xiya

+

Exploration

Mount Jolmo Lungma 8844.43m



WUXI COMPRESSOR CO.,LTD.

Catalogue

XIYA

Enterprise Chapter

Company Brief	01
Reform & Events	03
Honor & Certificate	04
Technology Update & Cooperation	05
Organization Chart	06
Product Series	07
Machining Equipment	08
Marketing & Value	09
Service Commitment & Idea	10
Stringent Quality System	11

Product Series

11 ~ 185 kW Oil-less Screw Air Compressor	12
185 ~ 450 kW Oil-less Screw Air Compressor	13
Oil-free Screw Compressor	14
Air End for Screw Compressor	15
Low-noise Movable Screw Compressor	16
Movable Explosion-proof Screw Air Compressor for Coal Mine	17
Screw Compressor for Process Industry	18
Reciprocating Piston Compressor	20
Piston process Compressor	22
Heavy-Duty Labyrinth Compressor	24
Natural Gas Compressor	26
Multi-Stage Centrifugal Compressor	28
Ground cart for aerodrome	29



Founded 1955

50 YEARS OF UNREMITTING EFFORTS, XIYA PREVAILING AROUND THE WORLD



COMPANY INTRODUCT

Wuxi Compressor Co., Ltd. is state-level high-tech Key factory to produce dynamic and process compressor since it was founded in 1955.

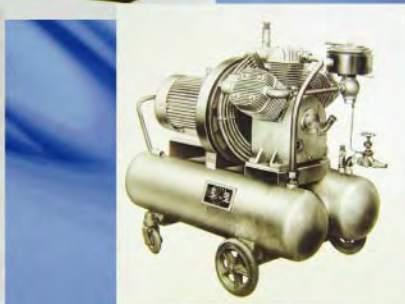
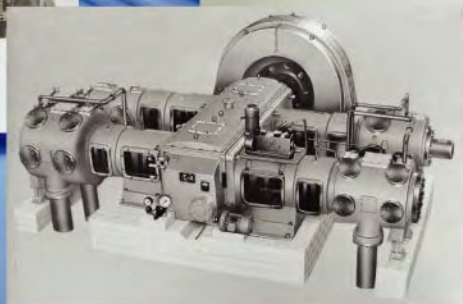
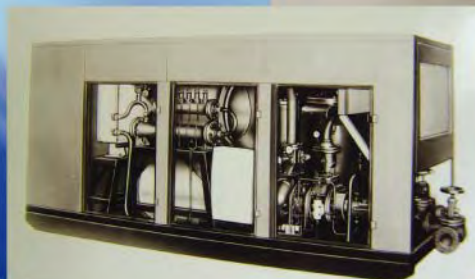
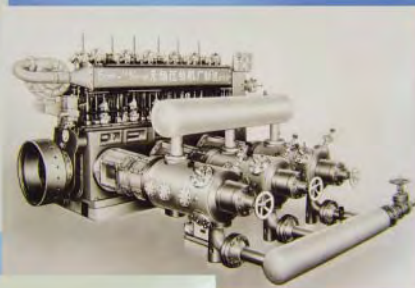
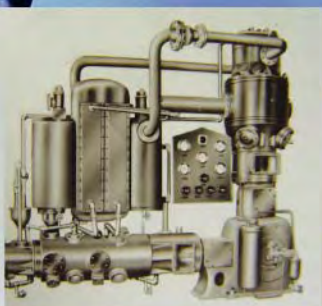
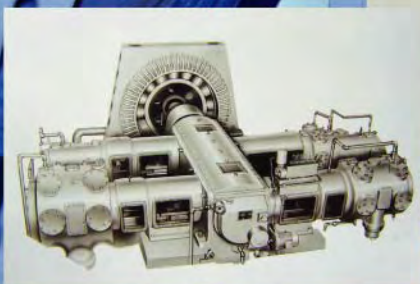
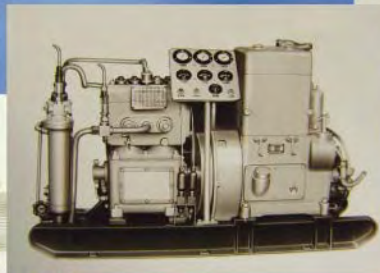
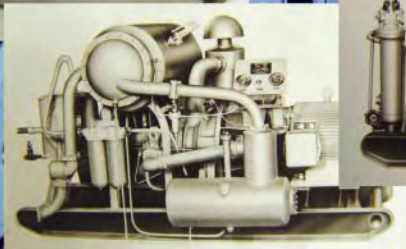
A series of compressors characted with piston compressor, oil-injected/oil free screw compressor, centrifugal compressor and CNG compressor are produced at China largest compressor professional premise with the advantage of own intellectual property rights and design research capability.

With experienced and matured fabrication expertise of more than half a century, it was transferred to stock company in 1992 and moved to Machinery, Optical and Electric (MOE) Park, New District, Wuxi City in 2008. Now company is boasted with with 580 million RMB capital asset, 100 thousand square meters of ground area, 650 employees, among 230 technical engineers.

Awarded with ISO9001 quality certificate and ISO14001 environment conservation certificate, company is largest premise in domestic compressor industry with advanced technology, scientific management, excellent production capability and experienced fabrication.

"XiYa" brand compressors are especially utilized to leakage testing of astronomic shuttle 5 and 6 as China first-level key equipment. A series of compressors are awarded with state-level high-tech prizes, especially with most marketing competent brand was issued by China Commerce Ministry in 2006, Now it is popular with customer satisfactory brand by China General Machinery Industry.





50-years of compressor expertise,
over 100,000 sets around the world

Enterprise Reform

- 1955, Wuxi Agriculture Tools Works to produce double -wheel plow
- 1957, Wuxi General Machinery Works to produce general tools
- 1967, Wuxi Compressor Works to produce a series of compressor
- 1984, Wuxi Compressor Factory with several affiliates
- 1992, Wuxi Compressor Co., Ltd, the first firm of stock-share in Compressor industry in China

Events

- 1959 first set of 4L-20/8 type air compressor in China
- 1961 first set of 3W-9/7 type movable air compressor in China
- 1962 first set of 5L-40/8 type air compressors came out in China
- 1963 first set of 7 L-1000/8 type air compressors and P2-0.63/1000 type N₂ compressor in China
- 1974 first set of LGY-28-60/3 type oil-free screw air-source compressor in China
- 1976 15 sets of D 6.5 type series H₂ recycle compressor exported to Albania Ballsh Oil Refinery
- 1983 oil-injected screw compressor technology transferred from Atlas-Copco, Sweden
- 1988 4L-20/8 type air compressor awarded national silver-medal
- 1992 reform to the first stock company in the compressor industry in China
- 1995 20~50m³/min oil-free technology transferred from Kobelco, Japan
corporation with IHI to co-produce main parts of process gas compressor with piston force of 23T and 25T
- 1996 authorization of ISO9001:1994 and GJB/Z9001:1994
- 1997 famous brand of "Ninth Five-Year Plan" by State Economic and Trade Commission
- 1998 ministerial technical centers by State Administration of Machinery Industry
Company's CMIS system as the national machinery industry CAD / CAM application model projects
- 2000 national high-tech advanced technology by State Economic and Trade Commission
- 2001 first set of DW32 type CNG compressor with common skid exported to Burma
- 2002 certification of ISO14001
heavy-Duty labyrinth compressor as key equipment by State Economic and Trade Commission
- 2003 centrifugal compressor technology transferred from Samsung Korea
heavy-duty process gas compressor transferred from Kobe Steel
- 2004 first set of heavy-duty labyrinth compressor running in China
first set of CNG filling station establishment
- 2006 " BRAND CHINA" award by state commerce ministry
- 2008 new premise at Machinery, Optical and Electric (MOE) Industrial Park, New District, Wuxi City



最具市场竞争力品牌
BRAND CHINA

无锡压缩机股份有限公司“锡压”



中华人民共和国商务部
2006



TECHNOLOGY INNOVATION AND COOPERATION



technology cooperation with Kobelco Japan



technology cooperation with Samsung Techwin Korea



technology cooperation with York USA

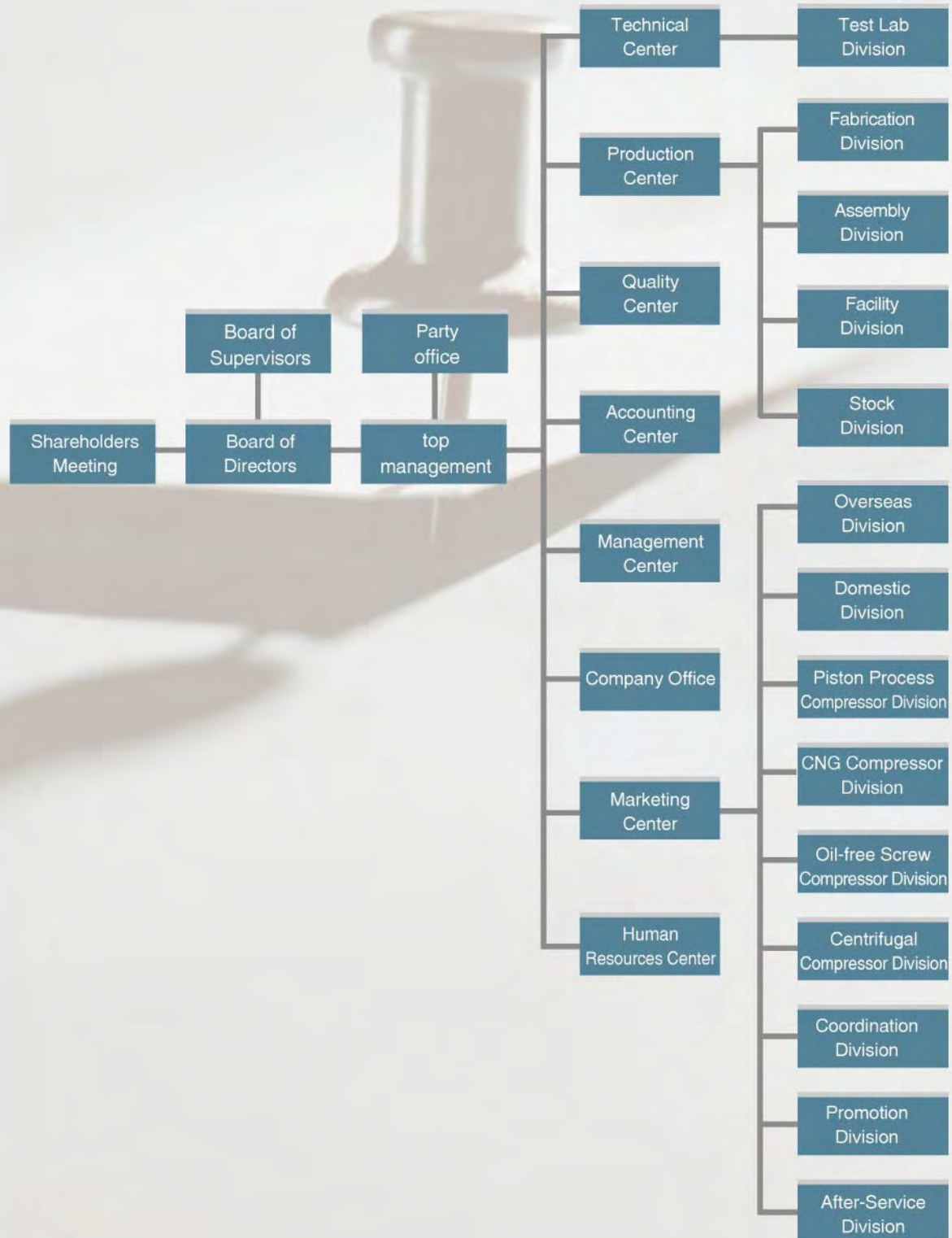


technology cooperation with same industry in China

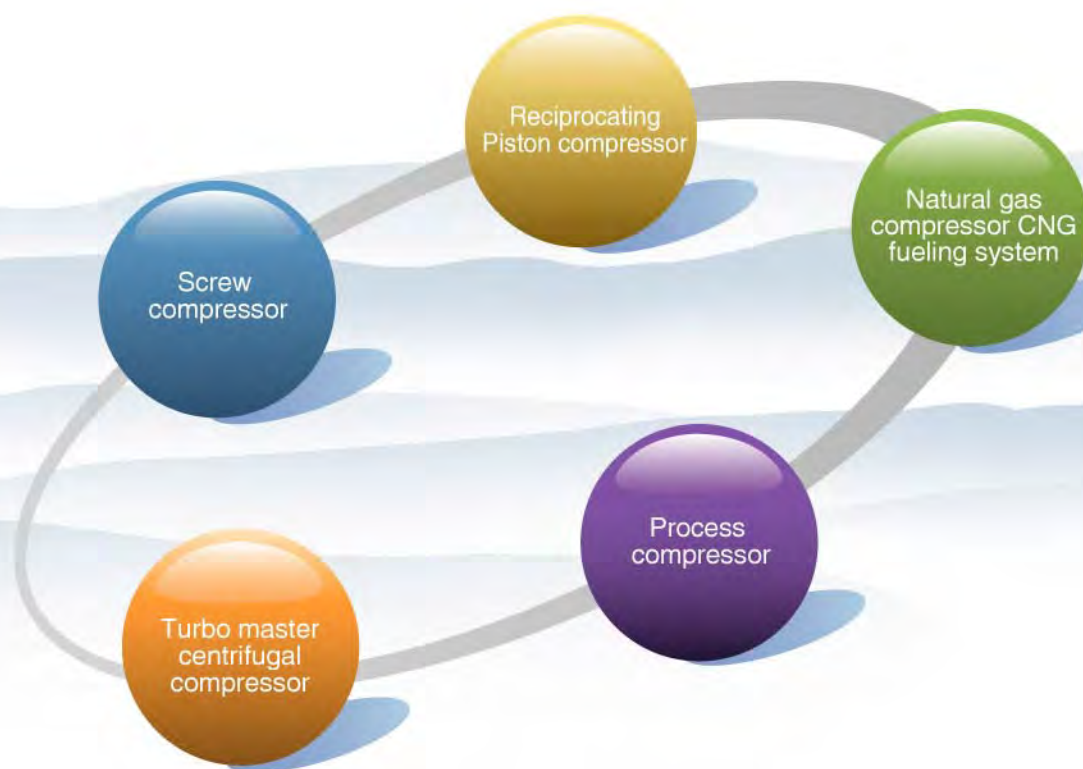


cooperation from overseas market

ORGANIZATION CHART



MAIN PRODUCTS



Application range



PROCESSING EQUIPMENT

TOP OF MACHINE TOOL AND TESTING EQUIPMENT



Japan SNK HF-4M CNC machining center



Japan Mori Seiki NH6300 DCG
horizontal machining center



German Sharman SOLON4 Machining
Center



UK HOLROYD CS-500 CNC Grinding
rotor center



USA Brown & Sharp Xcel 12210 3D
instrument

MARKETING AND IDEA

Competitive products and customized service are presented to all customers through an efficient marketing team.

Industrialized and intensive management are engaged in advanced and stable image.

Updated propaganda of new-design technology and products are conducted through a series of fairs.

Marketing concept

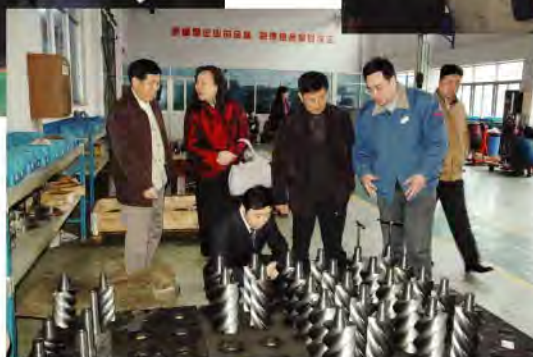
Collaborative development with customers is our target to better co-design, research and share fruits.

Business principle

Long-run interests are given top priority to our development.

Trading principle

Mutual trust and benefit are our real source to support products chains from customers, sub-suppliers and us on a fair and open pedestal.

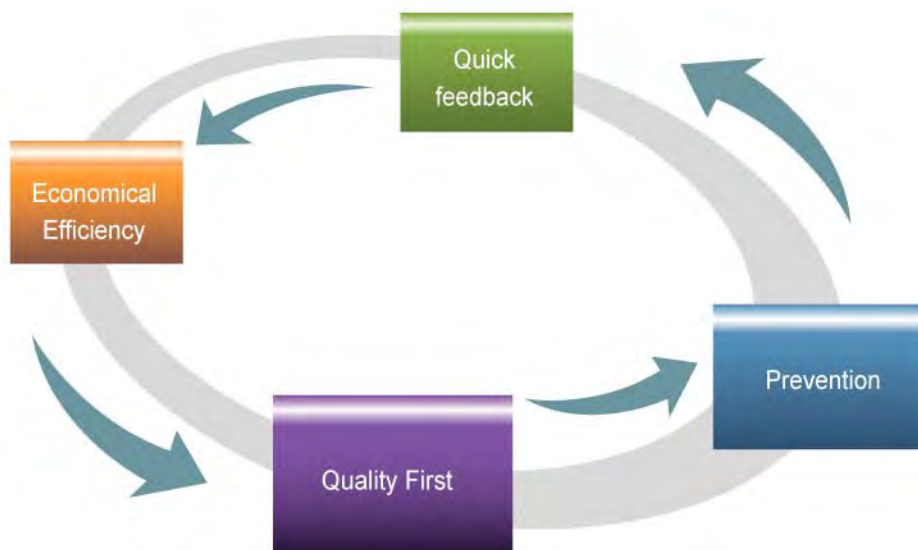


SERVICE COMMITMENT AND IDEA



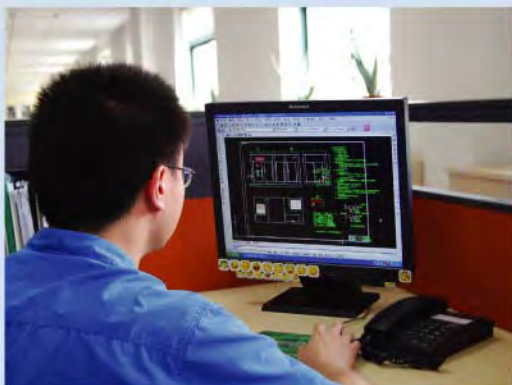
Perfect procedure by after-service department for quick solution of any emergency

Less expenditure by customers and solution with high efficiency by us



Service kits recommendation against any unforeseen emergency

Advanced and high-tech products as solid support embodiment to design and fabrication



STRINGENT QUALITY ASSURANCE



11 ~ 185kW OIL-LESS SCREW COMPRESSOR

Motor Power: 11~185kW Capacity: 1.2~33.2 m³/min Outlet Pressure: 0.7~1.3 Mpa

11kW~15kW low noise oil-less screw compressor



New-design belt-driven compressor with air-cooling, imported control valve, less piping joint, more compact package lower than one square meter.

18.5kW~185kW low noise oil-less screw compressor



- stable performance with obvious advantage of efficiency, energy-saving, low noise and conformance to environmental conservation standard
- design concept of low speed, big rotor and big bearing for compressor durability
- gear box matching to air end for more options
- easier installation of bearing for improvement of rigidity and stability
- big clearance design for better safety standard
- 3 separate layout of compressor structure

185 ~ 450kW OIL-LESS SCREW COMPRESSOR

Motor Power: 185 ~ 450kW Capacity: 35 ~ 65m³/min Outlet Pressure: 0.45 ~ 1.2 Mpa



- ◆ continuous performance without observation
- ◆ obvious energy-saving with high efficiency and long working life
- ◆ perfect design of piping and ventilation
- ◆ quality of compressed air for wide ranges of application
- ◆ optimal performance approval before delivery
- ◆ oil seal with fluorin filling
- ◆ outlet air tempt auto-control by thermostatic valve, magnetic solenoid valve for 500,000 times of activation.
- ◆ SKF bearing at air end
- ◆ protective functions of main motor overload, outlet air tempt over higher, fan motor overload.

OIL-FREE SCREW COMPRESSOR

Motor Power: 75~630kW Capacity: 6~100 m³/min Outlet Pressure: 0.25~1.0 Mpa

Water-cooling, low noise, stationary oil free screw compressor package of air end, main motor, oil/air cooler, control system and piping.

Compressor Unit with High Efficiency and Stable Performance

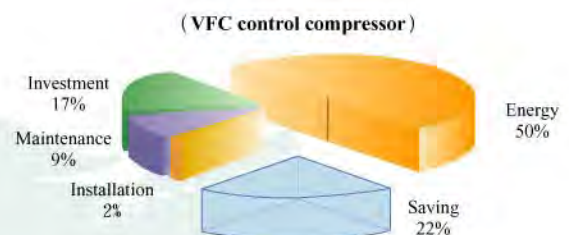


Advantage

- pure air without any oil from this compressor package
- easier installation and performance
- less easy-worn parts, low running cost, less lubricated oil to gear box
- advanced PLC control system for accurate analysis of any failure and proper protection
- lower pulsation of delivery air and compact package
- rotors and casing with special coating against any rust to pollute air
- timing gear to make rotors non-contact for smooth performance
- VFC control as option to make delivery air more stable and energy saving obvious

VFC control comparison

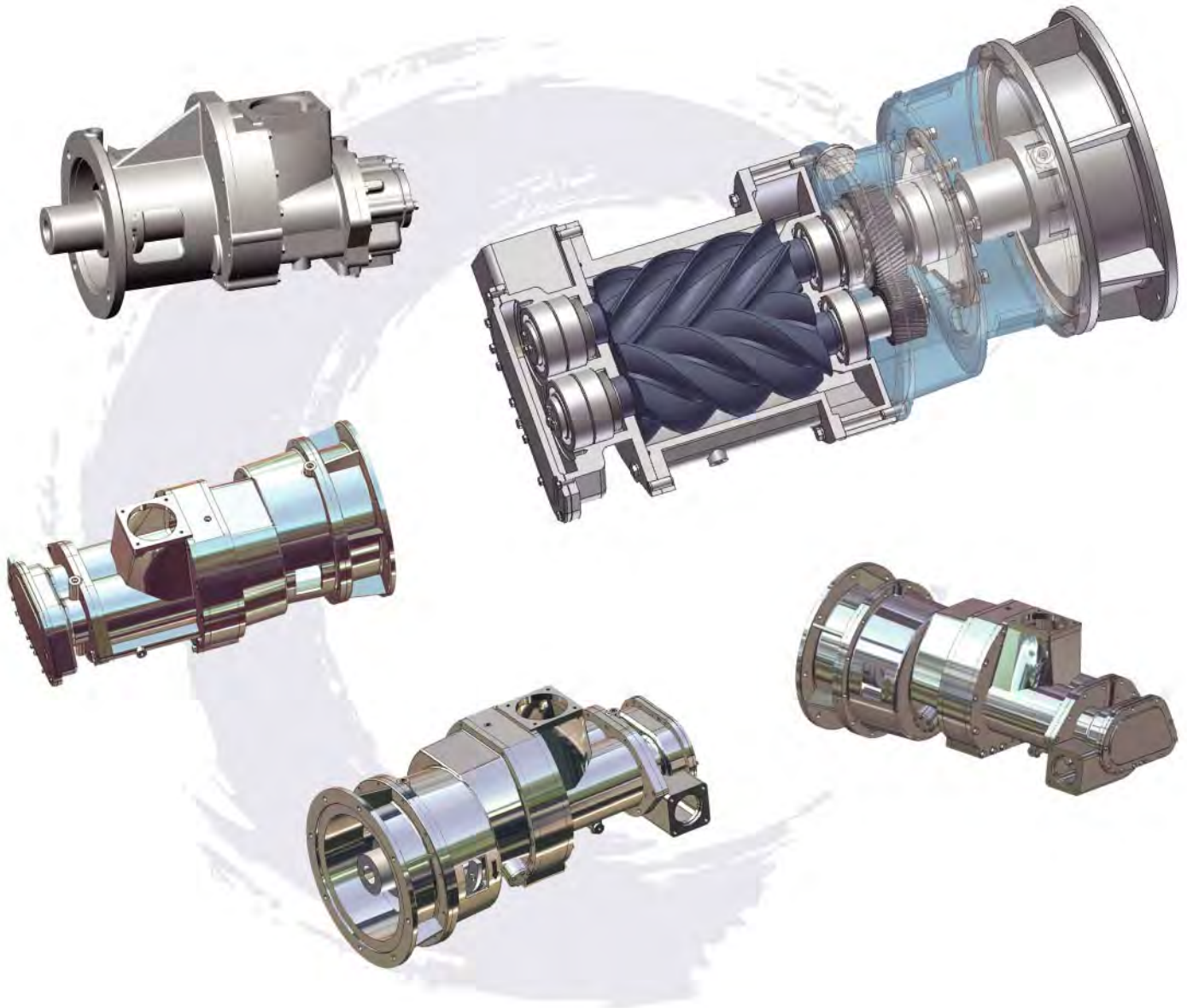
Running cost



SCREW COMPRESSOR AIR END

Motor Power: 11~400kW Capacity: 1.2~65 m³/min Max Outlet Pressure: 15bar Belt or Gear driven transmission

Air end fabrication by our own research, design, machining and testing as unique advantage of Chinese compressor industry for perfect master of its performance and continuous development.



MOVABLE SCREW COMPRESSOR

Motor Power: 45~336kW Capacity: 6.1~32 m³/min Outlet Pressure: 0.7~1.2 Mpa

Movable screw compressor matching with Cummins and other brands of diesel engine are widely used in domestic and overseas market, obvious advantage are presented of stable performance, compact structure, proper layout, less easy-worn parts, lower lubricated oil etc.

Wide applications are popular in factories, constructions of bridge, road, tunnel, civil engineering, geologic exploration, oil drilling, mining etc.



MOVABLE EXPLOSION-PROOF SCREW AIR COMPRESSOR OF MINE

Motor Power: 22 ~ 132kW Capacity: 2.1 ~ 23 m³/min Outlet Pressure: 0.7 ~ 1.25 Mpa

MLG (F) series of compressor are widely used underground at coal mines, all electric parts are provided with explosion-proof certificate and coal-mine safety certificate.

Explosion-proof Components

- Explosion — proof motor with stringent safety certificate, explosion proof grade : Exd I".
- Explosion — proof vacuum electromagnetic start cabinet with protective functions of explosion, overload, short circuit, phase stop, creepage, over-current, and also protection of compressor against over-temperature, over-pressure, water-stop, oil-stop.
- Other explosive-proof components — wiring cable, chassis with coal-mining safety certificate.



SCREW COMPRESSOR FOR PROCESS INDUSTRY



Screw CO₂ compressor

Product Introduction

Process screw compressor was launched following dynamic screw compressor. Now process screw compressors are widely used in a lot of industries of gas, petrol, natural gas, chemicals, fertilizer, alkali and also extended to pharmaceutical and rare gas separation industry.

Typical Products



CNG screw gas compressor



Screw Vinyl chloride compressor



Screw LPG compressor



Screw torch gas compressor



Screw cracked gas compressor



Screw CO₂ compressor



Screw CO₂ compressor



Screw CO₂ compressor

More than 40 years of abundant experience of process screw compressor in design and fabrication, they are widely used to many industries and accumulate expertise against explosion, leakage, corrosion etc.

Inlet capacity range is 8~445m³/min, max working pressure for 2.5 Mpa, max outlet temperature for 220°C. Inlet capacity can be adjusted according to customer requirement.

RECIPROCATING PISTON COMPRESSOR

Reciprocating piston compressor capacity for 10~200 m³/min, outlet pressure for 0.1~4.0Mpa, with wide ranges. 20m³ and 40m³ series are awarded with national silver medals and share biggest share in domestic market. H₂ and other gas compressor with P, D and M type (piston power range: 1.5T~80T, max pressure for 32 MPa).

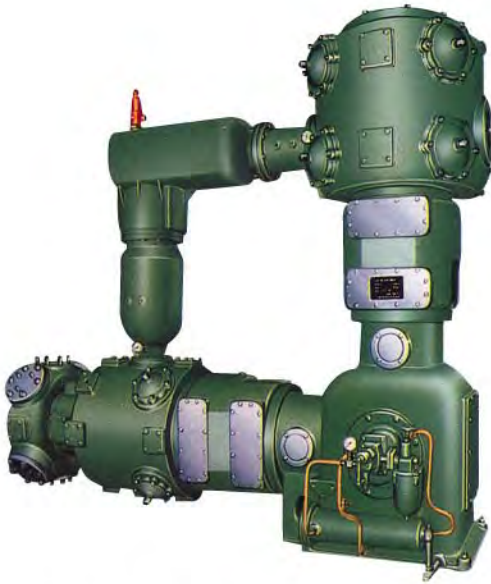
This series of products are popular in many industries of petro-chemical, mechanics, electronics, foodstuff, pharmacy, tobacco, textile, aviation, metallurgy, mining and research department etc.



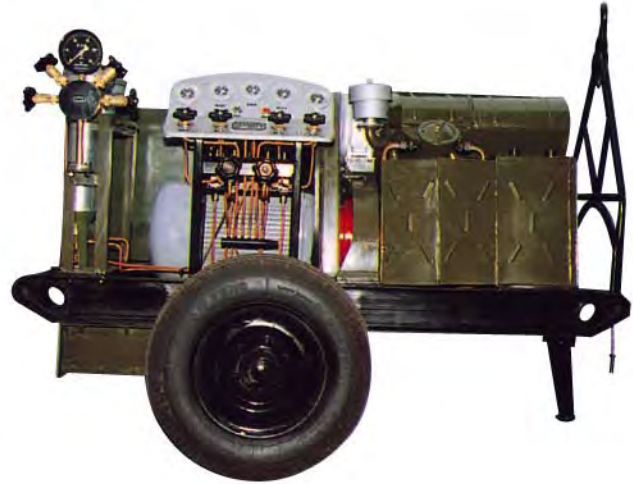
L250/202 oil-lubricated piston air compressor



LW132/204 oil free piston air compressor



LW250/206 G type oil free air compressor



VF-12.5/200-X piston air compressor



LW-4/8-X oil free piston air compressor unit (steel mill)



LW-22/7-X oil free piston air compressor unit (cement factory)



LW-40/10-X oil free piston air compressor unit (electronic factory)

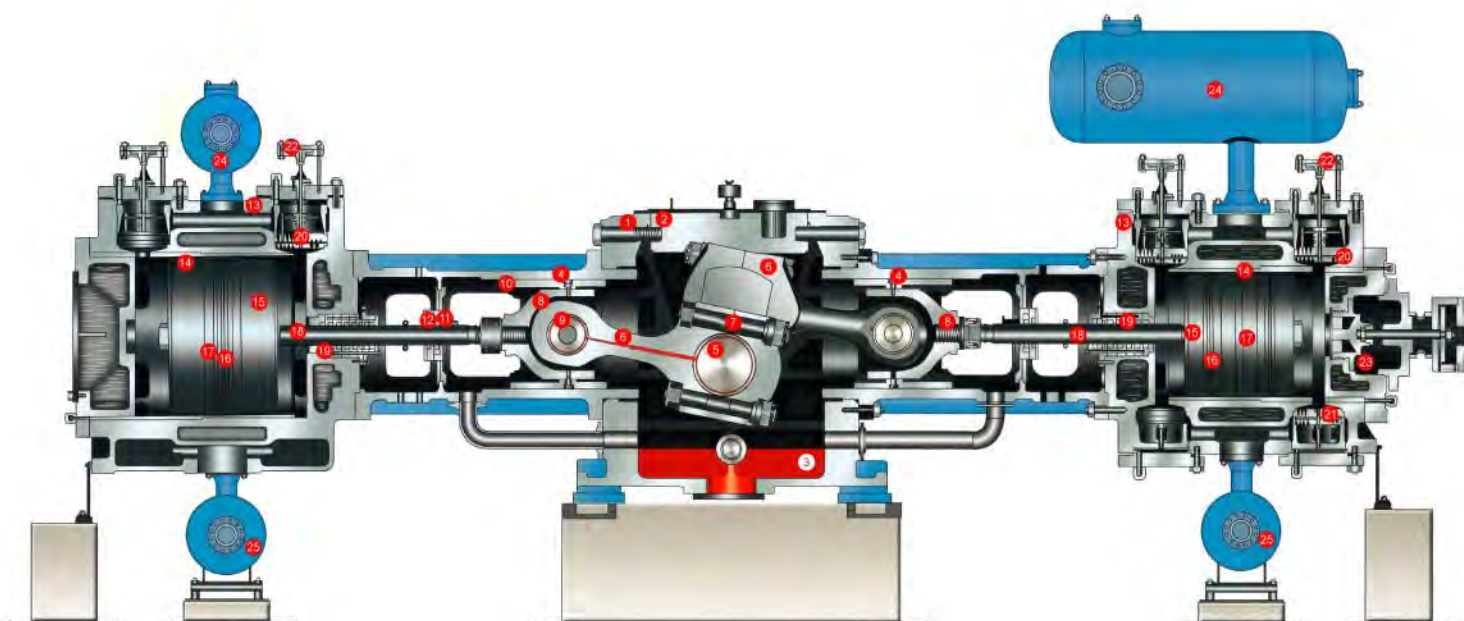


LW-20/25-X oil free piston air compressor unit (glass factory)

PISTON PROCESS COMPRESSOR



Piston process compressor in conformance to API618 standard and with technology of KR 60 from Kobelco Japan, piston force from 2.5 T to 100 T, wide application to a series of refineries and petro-chemicals.



Compressor structure

- | | | | | |
|--------------------|--------------------|--------------------|------------------------|----------------------------|
| 1. frame | 6. connecting rod | 11. oil wiper ring | 16. piston ring | 21. discharge valve |
| 2. tie rod | 7. big end bolt | 12. seal ring | 17. rider ring | 22. suction valve unloader |
| 3. lubricating oil | 8. crosshead | 13. cylinder | 18. piston ring | 23. clearance pocket |
| 4. crosshead guide | 9. crosshead pin | 14. cylinder liner | 19. piston rod packing | 24. inlet buffer |
| 5. crankshaft | 10. crosshead shoe | 15. piston | 20. suction valve | 25. outlet buffer |



2D20 dimethyl ether compressor



compressor with common skid



4M25 hydrogen compressor



KR60-2 hydrogen compressor



first set of 3-throws labyrinth piston compressor for 20 t/year polypropylene

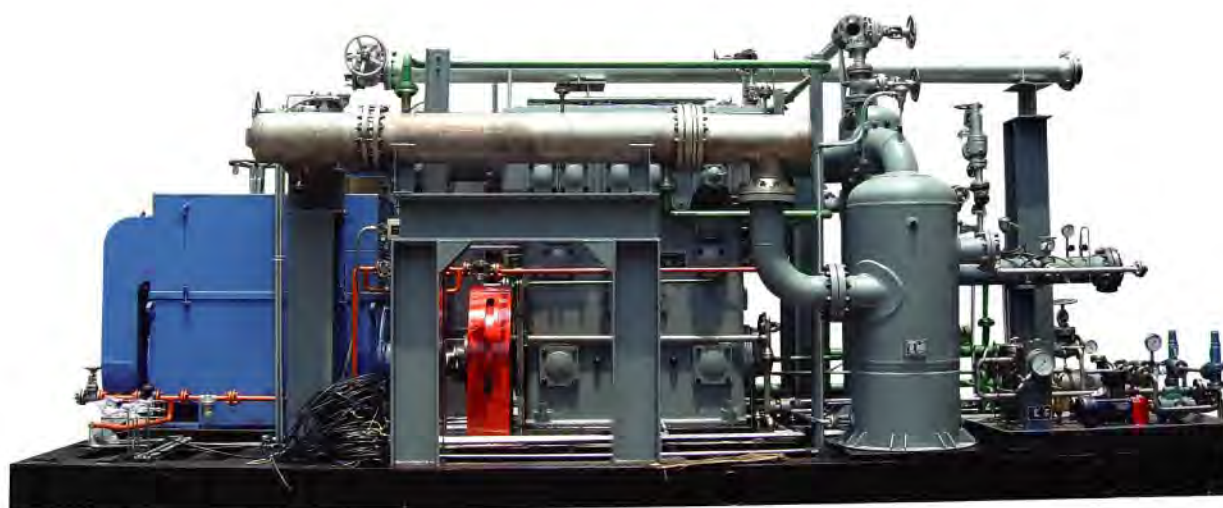


KR60-3 compressor installation

HEAVY-DUTY LABYRINTH COMPRESSOR

Capacity: 8000 Nm³/h Suction pressure: 0~4.5 Mpa Outlet pressure: 30.0 Mpa Shaft power: 2000 kW
Piston power: 22t Compression stages: 1~4 throws: 1~4 Structure: vertical

Labyrinth piston compressor as updated series to a series of state key projects, now several sets in stable performance at polypropylene production line for China petrol-chemical group, awarded with advanced scientific certificate by Sinopec in 2006. this series of compressor are top priority to gas compression harmful with flammability, explosion, particles.



Working principle

Labyrinth seal reliability through leakage (refer to picture right), less gas volume available at small clearance flowing from higher pressure end to lower pressure end through throttle points, by where gas is converted from pressure energy to kinetic energy. As the sudden expansion of the volume, gas speed decline rapidly (close to zero), and some of gas volume the kinetic energy into heat energy, others into vortex energy. After continuous effect of even throttle and groove spaces, leakage gas pressure is reduced to low pressure end, so it keeps airtight condition by labyrinth effect.



Design features

- Labyrinth sealing system on piston and piston rod gland
- Non-lubricated cylinder section (no oil required, no contamination of the gas)
- No contact seals required for trouble free compressor operation with dirty gas
- Vertical piston rod guiding arrangement
- Lubricated piston guiding system for precise alignment and long life
- Top quality compressor valves for high reliability
- Standard executions available with: open distance piece; closed and purged distance piece; gas- and pressure-tight crankcase (zero leakage)

Applications

- Industrial gas industry
- Bottling Plants for gas cylinders
- Air separation plants
- Steel industry
- Chemical industry
- Fertilizer production
- Product pipelines
- Food and beverage industry
- Refrigeration and cryogenic installations
- Boil-off gas handling
- LNG boil-off gas
- Oil and gas industry
- petrochemical Industry
- Polymer production
- Polypropylene
- Polyethylene
- EVOH
- Ethylene oxide / glycol

Gas handled

- Ammonia
- Argon
- Carbon dioxide
- Carbon monoxide
- Dust laden gases
- Hydrocarbon gases
- LPG, LNG
- Mixed gases
- Nitrogen
- Oxygen
- Process air
- Refrigerants
- VCM

Projects



Sinopec Qilu Petrochemical Company 650,000 tons / year ethylene project



Sinopec Tianjin Petrochemical Company 1,000,000 tons / year ethylene project



Sinopec Shenyang Chemical Group 100,000 tons / year LLDPE project



Sinopec Zhanjiang Dongxing Petrochemical 140,000 tons / year project



Sinopec Zhenhai Refinery Co. Ltd 1,000,000 tons / year ethylene project

NATURAL GAS COMPRESSOR CNG FULING SYSTEM

Balanced, opposed CNG compressor with common skid with 3 models of D, M and P types.

Capacity range: 500~5000Nm³/h, suction gas pressure: 0.1~20 Mpa, outlet gas pressure: 25 Mpa.



Standard station of D type compressor



Mother station of M type compressor

Technical Quality

- CNG compressor design in conformance to API618 & API111P;
- with common skid, easy access to installation and maintenance;
- horizontal balance-opposed profile with stable performance and less vibration;
- non-lubricated system applicable to cylinder, no pollution against compressed medium;
- large capacity volume efficiency, wide range of inlet pressure;
- low rotary speed, long working duty for easy-worn parts and low noise;
- main and auxiliary pumps applicable to oil flow to ensure durable performance;
- PLC control system, automatic operation and monitoring;
- oil flow access to piston rod for effective cooling to prolong time of sealing parts
- PEEK valve of long working life and reduce noise.

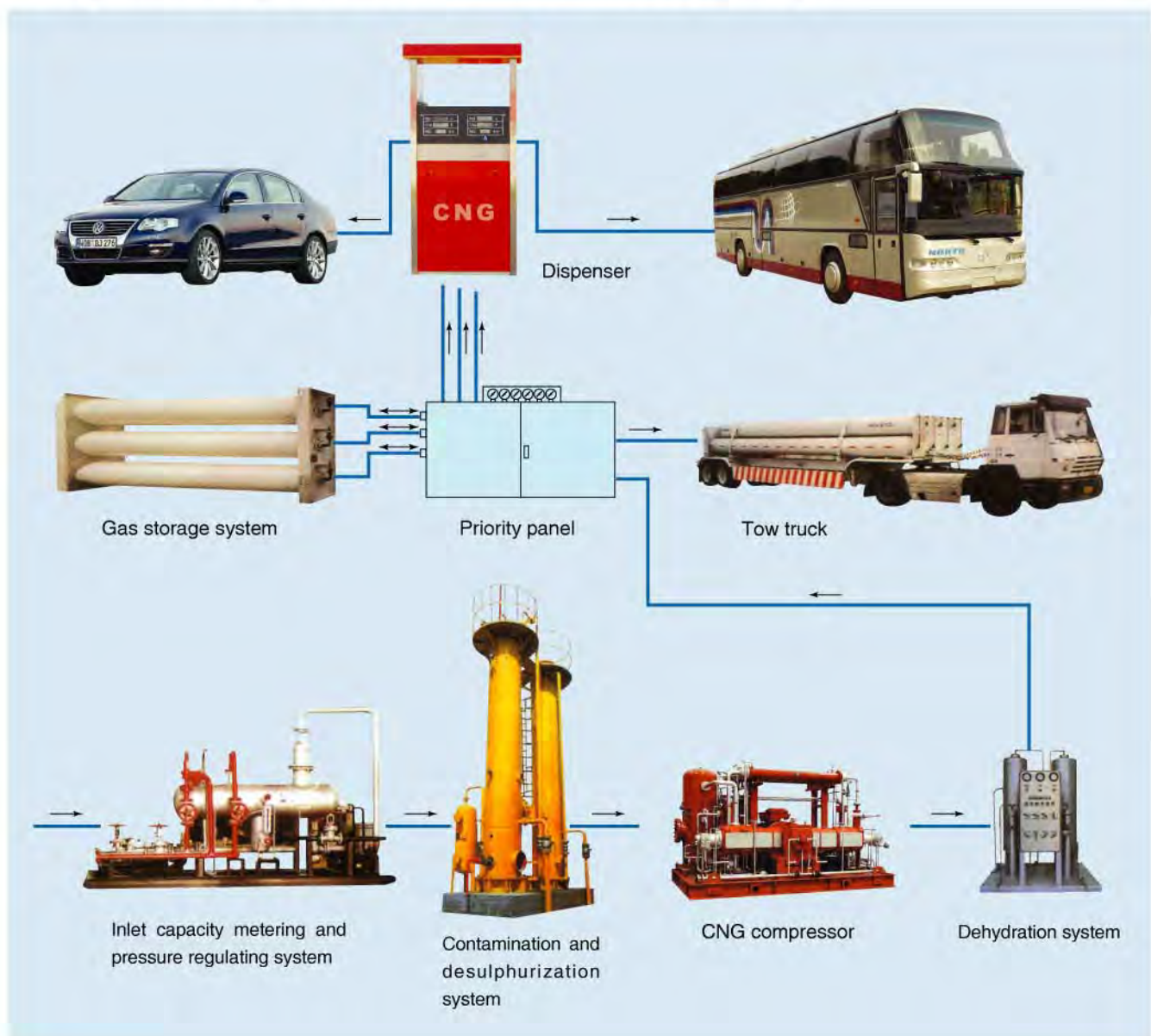


Daughter station of P type compressor

This compressor applies to filling child-station and has following features:

- design in conformance to API 618 & API11P;
- horizontal profile with stable performance;
- no balance section for cylinder, energy saving;
- non-lubricated system applicable to cylinder, no pollution against compressed medium;
- automatic suction shift to make 1st stage compression or 2nd stage compression;
- main and auxiliary pumps applicable to oil flow to ensure durable performance.

CNG procedure (mother station or standard station)



MULTI-STAGE CENTRIFUGAL COMPRESSOR

SAMSUNG

TURBO MASTER®
SAMSUNG TURBO AIR COMPRESSOR

Since deep investigation of domestic centrifugal compressor industry made by Wuxi Compressor Co., Ltd. And Korean Samsung, technology license agreement was signed in 1999. Wuxi-Samsung, perfectly combined outstanding technology in aircraft engines from Korean Samsung and advanced technology process and abundant manufacturing experience from Wuxi Compressor Co., Ltd., will be successful in centrifugal compressor. "Turbo Master", developed using our own technology based on years of experience in aircraft engines, is now ready to meet all of your requirements. Samsung Aerospace will continue to expand with latest technology.

Quality

1. compact structure with common skid
2. no need of any foundation, easier preparation before performance
3. with full canopy noise $\leq 76\text{Db(A)}$
4. cooler with horizontal split structure and easier removal of complete part ass'y
5. customized control system to optimize maintenance



GROUND CART FOR AERODROME

Oxygen source ground cart, nitrogen source ground cart, air source cart, refrigeration ground cart

Oxygen source ground cart as key support equipment for the applications of oxygen storage inside airplane, medical oxygen for breathing on the ground.

CYE-1.25/150A oxygen source ground cart for airplane

CYE-1.25/150A oxygen source ground cart specifications

Capacity (Nm ³ /min)	1.25
Medium	medical oxygen
Suction pressure(MPa)	≥5
Max outlet pressure(MPa)	20 external 15 internal
compressor model	ZW-0.027/(50-250)- X
Max working pressure of oxygen storage (Mpa)	15
Total storage capacity (L)	600
Noise dB(A)	85



GCW-73/290 oxygen source ground cart for airplane

GCW-73/290 oxygen source ground cart specifications

Capacity(Nm ³ /h)	85
Compressed medium	medical oxygen
Suction pressure(MPa)	3.5~25
Max outlet pressure(MPa)	35
External filling pressure(MPa)	35Mpa, 23Mpa (fixed pressure), 3~15Mpa (regulating pressure)
Internal pressure (Mpa)	3.5~20
Compressor model	GDZ12/184
Max working pressure of oxygen storage (Mpa)	35
Total storage capacity (L)	600
Noise dB (A)	85



Strategic cooperation with famous brands

SIEMENS

COOPER

YORK®
INTERNATIONAL

Cummins

MITSUBISHI

SAMSUNG
TECHWIN

SKF

Atlas Copco

KOBELCO
KOBELCO STEEL, LTD.

DEUTZ

中国石化
SINOPEC

中国石油

中国石化

中国一汽

小天鹅
XIAOTIANUE

小天鹅

HO do
Group

SKYWORTH
创维

华润集团

华润集团

Linde

BAOSTEEL
宝钢集团

CHANGHONG
长虹

中国航天
CASC

中国航天

风行汽车

风行汽车

浙玻股份

浙玻股份

CSIC

中船重工

娃哈哈®
Wahaha

.....



LOADING

Corporate Motto

8000 years of gorgeous historic culture residue
Embodiment with spirit of China and her people
Embrace with unremitting and creative
prosperity

XIYA

As a forerunner of compressor industry
Devotion to National industry
Dedication to advanced compressor
manufacturer basement

We do utmost

Survival from perfect service
Progress from scientific update
Customer share most value from XIYA



XIYA — Expert of Compressor

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ISO9001 / ISO14000