

PARS COMPRESSOR



Technical Catalogue

www.pars-compressor.ir

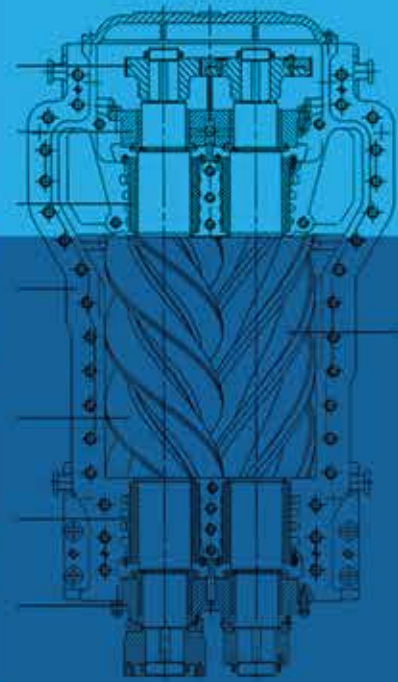
SCREW GAS COMPRESSORS

API 619/ISO 10440-1 DRY SCREW / OIL INJECTED

PARS COMPRESSOR

FOR 45 YEARS, WE HAVE
INCREASED OUR CUSTOMERS' PRODUCTIVITY

OLD BUT GOLD



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Pars Compressor

Stands For Quality, Innovation and Quick Response

For decades, we have been a trusted partner for our customers in various process industries and we made thousands of screw rotors At PARS COMPRESSOR through our unique Holroyd machines for Screw compressors.

We believe that innovation is a constant process. We never stop looking for more efficient, reliable and robust technologies for our customers in the process industries in addition to air compressors.

We supply some of the most reliable and efficient process gas screw compressors in accordance with API619-/ISO 1-10440 for the iron and steel, chemical, petrochemical, upstream/downstream units and industrial gases industries.

Experience

40 years experience in system design of screw compressor unit process

R & D

Relying on the military platform

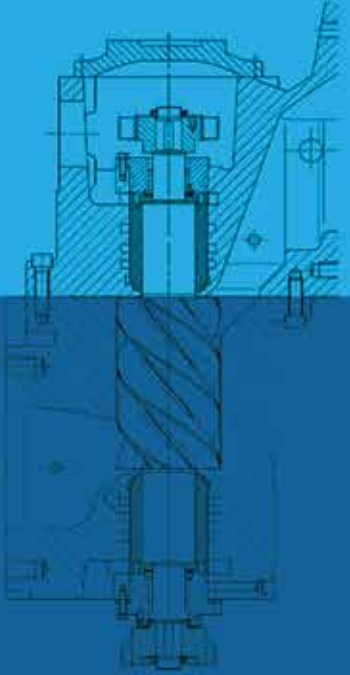
Process simulation and selection design software of screw compressor for proprietary intellectual property

Test

Screw compressor test platform of 3000kw . Steam decompression screw expander test platform of 1000kw

Manufacture

Automatic screw rotor producing equipment . The rotor processing diameter could up to 1000mm



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PARS COMPRESSOR in conjunction with technology transfer through FTI-Canada and SMDERI711- has started cooperation in joint venture agreement

Recently, Pars Compressor as a professional compressor manufacturer has formed a complete system of compressor design, selection, application, manufacturing, machining, test, commissioning and maintenance based on international standards with technology transfer from FTI-Canada and help of SMDERI (shanghai marine diesel engine research institute).



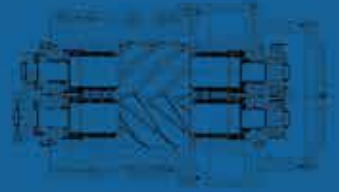
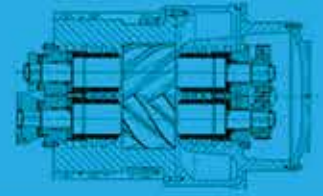
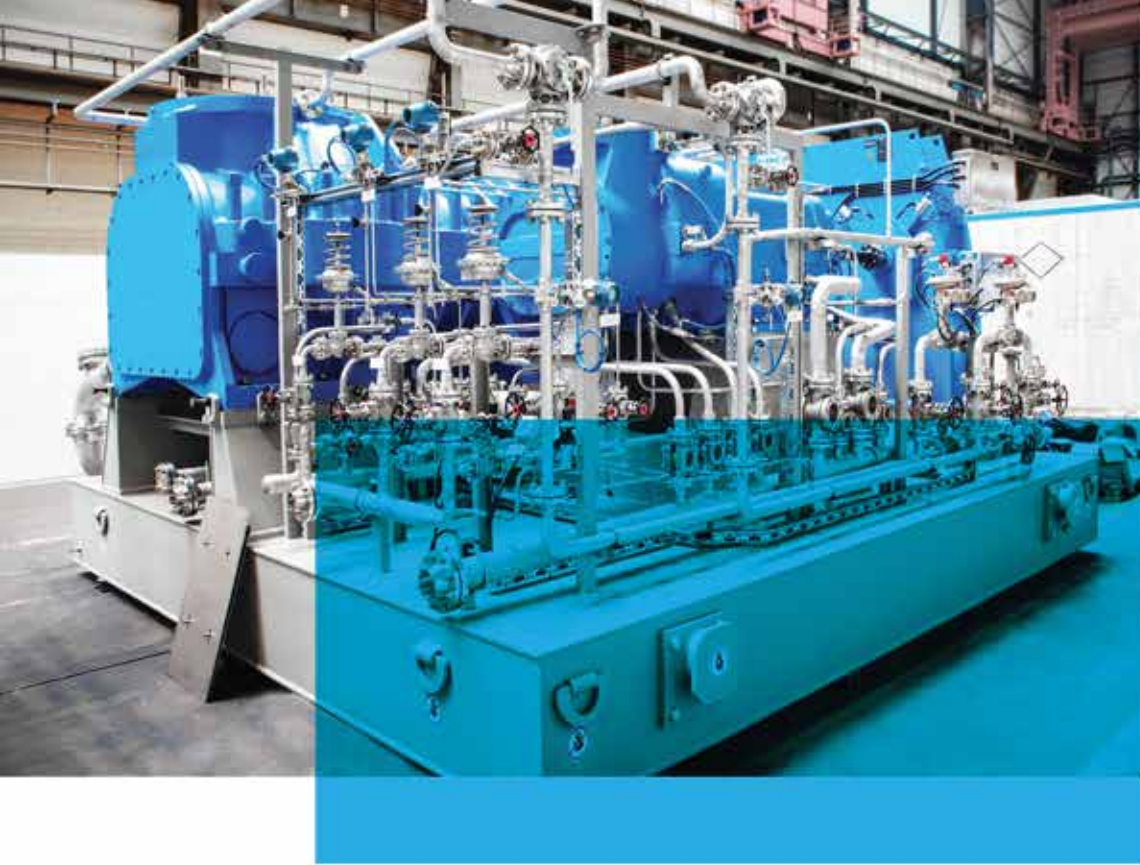
PARS
COMPRESSOR
پارس کمپرسور



FTI
International
Group Inc.



中国船舶集团有限公司第七一一研究所
SHANGHAI MARINE DIESEL ENGINE RESEARCH INSTITUTE



Dry Screw Process Gas Screw Compressors (API619-/ISO 10440-1)

An overview of technological advantages:

This design is very economical in compressing low gas volume flows, and is not sensitive to process gas molecular weight changes. It can be applied for all type of gases not limited to hazardous, explosive, corrosive and flammable gases.

Suitable for polymerizing, contaminated (dust and droplets) or thermally unstable gases, flare gas recovery units, gas gathering, low suction pressure

High pressure ratio, excellent partial-load behavior, no risk of surge

Excellent -24hour global aftersales support via PARS compressor after sales network



Advantages:

Due to their robust design, PARS COMPRESSOR screw compressors have outstanding advantages when operating with the following gases:

Gases with low mole weight:

As positive displacement compressors they are ideal for light gases like hydrogen.

Gases with varying mole weight:

Therefore they are an ideal technology for flare gas or recycle compressor applications.

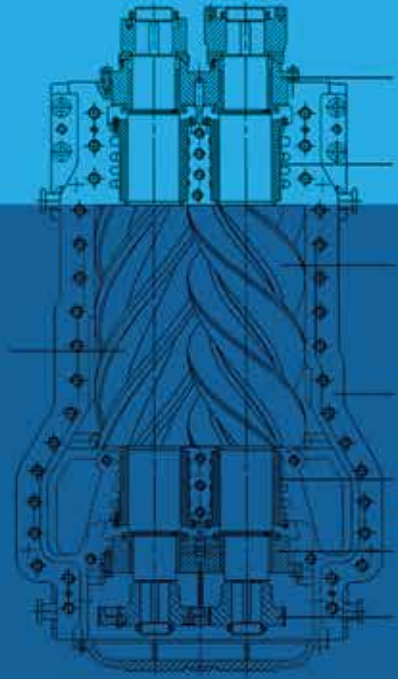
Dirty and polymerizing gases:

Screw compressors have a very rigid rotor and casing design.

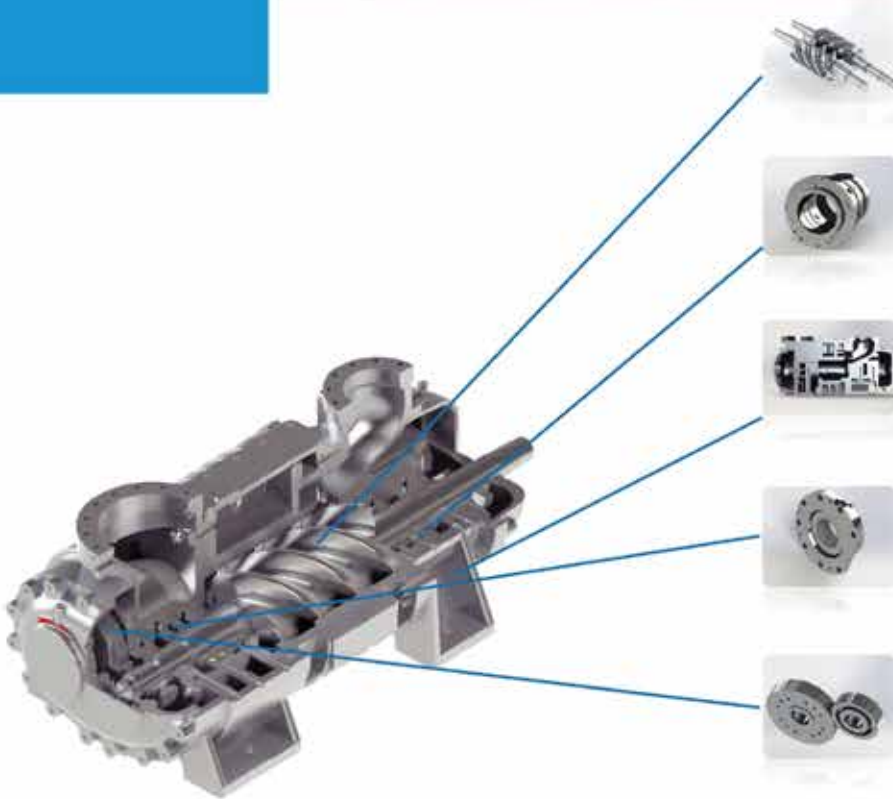
They can handle extremely dirty and dusty gases.

Pars Compressors screw compressors cover the full spectrum of oil & gas and industrial applications including:

- Oil & gas production
- Refinery
- Flare gas recovery
- Butadiene extraction
- Styrene monomer production
- Hydrogen purification
- Power generation
- Soda Ash production
- Steel production (Coke Oven Gas)
- Refrigeration
- Hydrogen Sulfide
- Methyl chloride
- Chlorine
- Hydrocarbon Mix



Principle



Rotor

Over a series of screw rotor profile patents of invention, to ensure the compression efficiency of the final.

Seals

Seals in process gas screw compressor take double effects on preventing medium gas leak and isolating process gas from being polluted by lube oil. We designed different combination types of front seals and main seals.

Casing

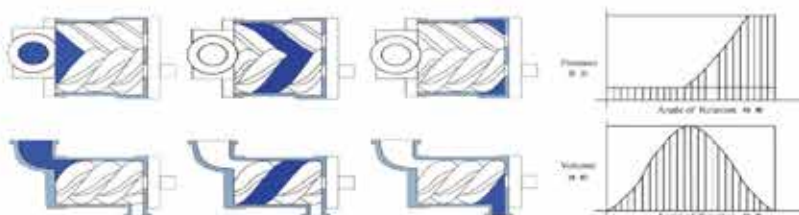
According to the actual process requirements, the targeted selections of the compressor casing split types, internal, input and output ports will be selected.

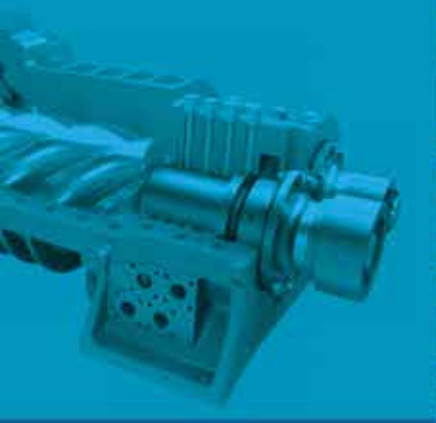
Bearing

According to the speed and form of the compressor, different bearing forms are selected to ensure that the compressor can run continuously for a long time.

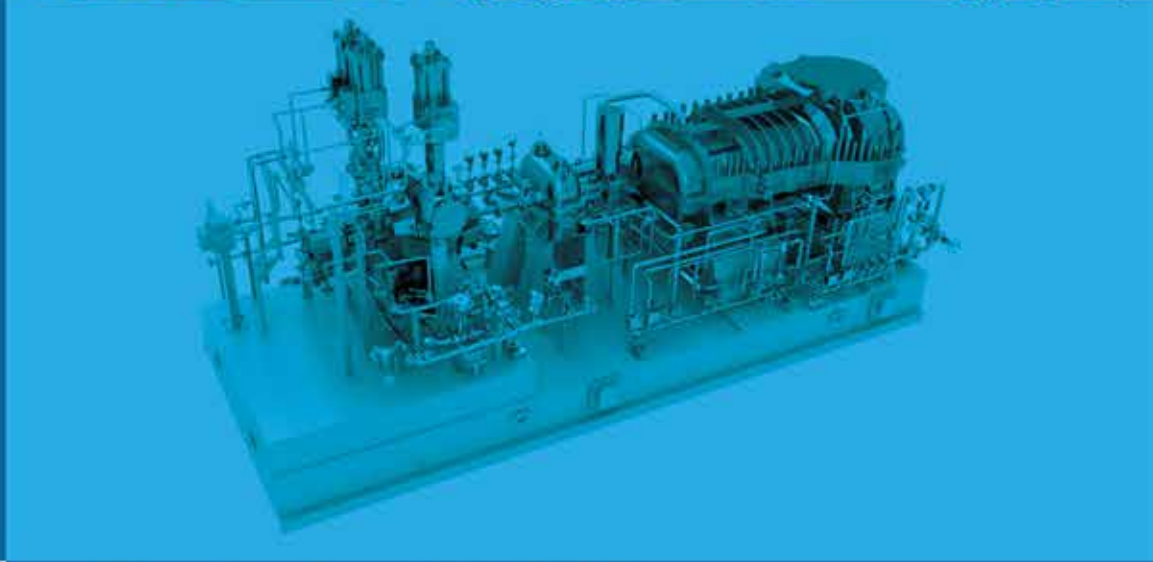
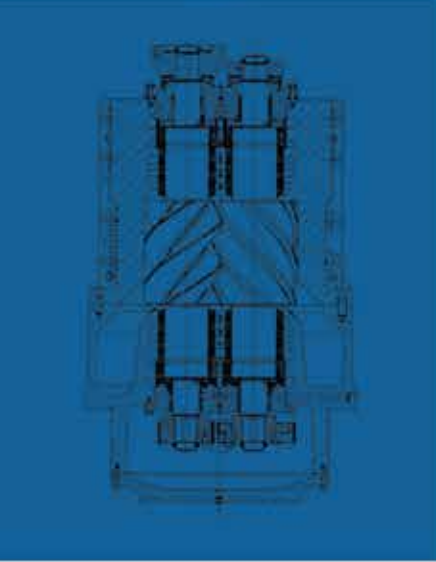
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The torque measurement and synchronization locating between rotors is completed by a pair of timing gears, which can ensure the screw rotor series mesh each other, whenever it is positive rotation or negative rotation.





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Overview of portfolio of oil-free screw compressors

TYPE P ARS-V

The vertical split casing
Allows high pressure operation.
Volume flows: 200 – 20,000 m³/h (120 – 12,000 cfm)
Discharge pressure: ≤ 70 bar

TYPE PARS-H

Designed for huge volume flows.
Horizontal split casing
Allows easy maintenance even for huge compressor sizes.
Volume flows: 4,000 – 100,000 m³/h (2,400 – 59,000 cfm)
Discharge pressure: ≤ 16 bar

www.pars-compressor.ir
info@pars-compressor.ir

REFERENCE LIST IN IRAN:

Aghajari 01 Compressor station:

Persian Gulf Bid Boland Gas Refinery is currently designed to receive 2000 MMSCFD feed gas including 1700 MMSCFD sour gas from NGLs 900 & 1000 and 300 MMSCFD sweet gas from NGLs 1200 & 1300. Regarding the dependency of the feeds' availability to the projects defined upstream of NGLs 900 & 1000 and gathering of the associated gas streams upstream of NGLs 1200, 1300 & 1500, CLIENT tends to perform Basic Design & FEED on these areas. The project goal is to ensure the gathering and treatment of the existing flared gas streams and transferring them to Persian Gulf Bid Boland Gas Refinery.

Feed gas for Bid Boland -II gas refinery is providing from low pressure Flare gas, heavy, Sour and wet gas

PROJECT: Supplying feed from Flared Gas Streams to Persian Gulf Bid Boland Refinery, Basic Design & FEED Preparation
OWNER: National Iranian South Oilfields Company (NISOC)
CLIENT: Persian Gulf Bidboland Gas Treating (PGBGT)
MC Managing Consultant: Petrochemical Industries Development Managing Company (PIDMCO)
EPC Contractor: Petrochemical industries design & engineering company(PIDEC)
Awarded Time: 2022
Delivery time: 2024
Quantity: 6X Dry Screw gas compressors
Manufacture: SMDERI+PARS COMPRESSOR

Aghajari 03 Compressor station:

PROJECT: Supplying feed from Flared Gas Streams to Persian Gulf Bid Boland Refinery Basic Design & FEED Preparation
OWNER: National Iranian South Oilfields Company (NISOC)
CLIENT: Persian Gulf Bidboland Gas Treating (PGBGT)
MC Managing Consultant: Petrochemical Industries Development Managing Company (PIDMCO)
EPC Contractor: Petrochemical industries design & engineering company(PIDEC)
Awarded Time: 2022
Delivery time: 2024
Quantity: 4X Dry Screw gas compressors
Manufacture: SMDERI+PARS COMPRESSOR

Aghajari 04 Compressor station:

PROJECT: Supplying feed from Flared Gas Streams to Persian Gulf Bid Boland Refinery Basic Design & FEED Preparation
OWNER: National Iranian South Oilfields Company (NISOC)
CLIENT: Persian Gulf Bidboland Gas Treating (PGBGT)
MC Managing Consultant: Petrochemical Industries Development Managing Company (PIDMCO)
EPC Contractor: Petrochemical industries design & engineering company(PIDEC)
Awarded Time: 2022
Delivery time: 2024
Quantity: 4X Dry Screw gas compressors
Manufacture: SMDERI+PARS COMPRESSOR

Aghajari 05 Compressor station:

PROJECT: Supplying feed from Flared Gas Streams to Persian Gulf Bid Boland Refinery Basic Design & FEED Preparation
OWNER: National Iranian South Oilfields Company (NISOC)
CLIENT: Persian Gulf Bidboland Gas Treating (PGBGT)
MC Managing Consultant: Petrochemical Industries Development Managing Company (PIDMCO)
EPC Contractor: Petrochemical industries design & engineering company(PIDEC)
Awarded Time: 2022
Delivery time: 2024
Quantity: 4X Dry Screw gas compressors
Manufacture: SMDERI+PARS COMPRESSOR

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