

2023 - 2024

HAMI ANAT

KEYHAN

Trusted Quality, Global Standards

Expand your operation
into the new frontiers!

Make robust operation
with high quality
machinery...

Have production
without any delay.



CONTENTS



01

FILTERS

- Particulate Filters
- Water Separation Filters
- Activated Carbon Filters
- Depth Filters

BRANDS: Parker Hannifin,
Donaldson, Pall Corporation,
HYDAC, Eaton



02

GREASE AND OIL

Shell
Mobil
Castrol
Chevron
Shell Gadus
Mobilgrease
SKF
Klüber



03

BEARINGS

1. SKF
2. FAG
3. SNR
4. NSK
5. TIMKEN
6. SOLAR
7. NTN



04 05 06

SEALS

Mechanical Seals
O-Rings and gaskets
labyrinth seals
lip seals
Metal Seals
Brands:
John Crane
EagleBurgmann
Flowserve
Parker
SKF

INSTRUMENTS

1. CONTROL VALVES
2. MONITORING ELEMENTS

ADSORBENTS

Molecular Sieves
Carbon Molecular Sieves
Silica Gel
Activated Alumina



07

PROCESS PUMPS

Centrifugal Pumps

Positive Displacement Pumps

Diaphragm Pumps

Submersible Pumps

Gear Pumps

Multistage Pumps



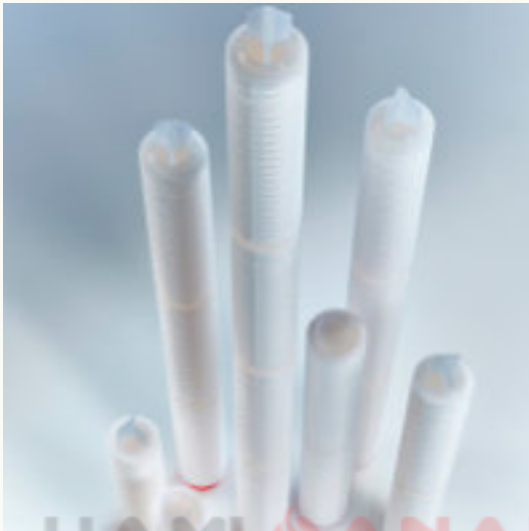
Industrial Filter Cartridges

- **Core Functions:** Filter cartridges are designed to remove contaminants such as particulates, water, and hydrocarbons from various fluids including oils, lubricants, and process water. They are crucial for protecting equipment, reducing maintenance costs, and ensuring product purity in downstream processes.
- **Types of Cartridges:** Various types of filter cartridges are used based on specific application requirements:
 - **Particulate Filters:** These capture solid contaminants, often at micron levels, to prevent equipment wear.
 - **Water Separation Filters:** Effective in removing water from hydrocarbons and other fluids.
 - **Activated Carbon Filters:** Used for capturing dissolved hydrocarbons and other organic compounds.
 - **Depth Filters:** Provide layered filtration for extended contaminant holding capacity, ideal for heavy-duty operations.

Industrial filter cartridges and casings play a pivotal role in sustaining operations in the oil and gas industry, where quality and reliability are non-negotiable. Regular supplementation of these filters ensures the longevity and performance of critical equipment, enabling operators to maintain efficiency while protecting both the environment and their assets.

Our industrial filtration solutions include a wide range of premium filter cartridges and casings, carefully selected from globally renowned brands that meet the rigorous demands of the oil and gas industry. On request, we supply high-quality products from top manufacturers like Parker Hannifin, Donaldson, Pall

Corporation, HYDAC, and Eaton, each offering a variety of filters that deliver robust and efficient performance in challenging environments.



Oil and Greases

Industrial Oils

Industrial oils are specially formulated to minimize friction, reduce heat, and prevent wear on moving parts in rotary equipment's. They also protect against oxidation and the buildup of sludge and varnish, which can clog systems and reduce efficiency. For the oil and gas industry, oils must withstand high operating pressures and temperatures and maintain their viscosity over extended operating periods.

We supply industrial oils from leading brands such as Shell, Mobil, Castrol, and Chevron, known for their stability and ability to handle demanding conditions. These oils come in various formulations, including synthetic, semi-synthetic, and mineral-based, to match specific application needs. Shell's Corena Series, for example, is renowned for long-lasting protection and reduced oil change frequency, making it ideal for industrial use.



Industrial Greases

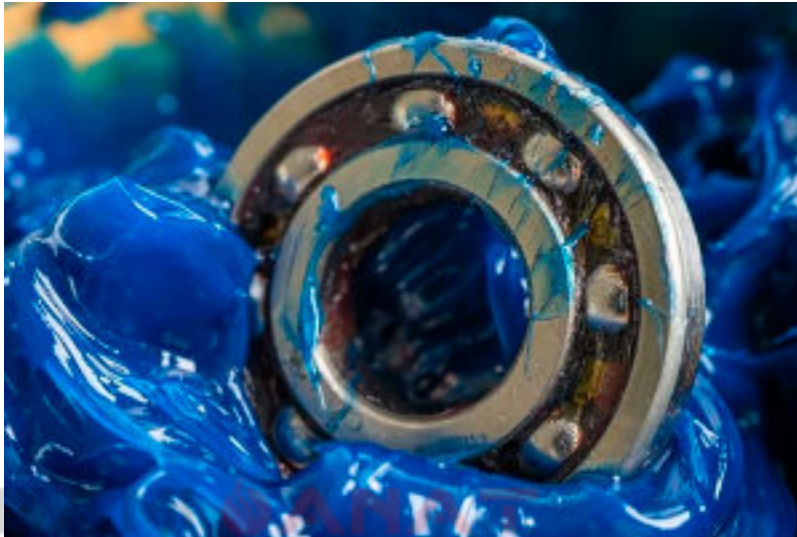
Greases provide the heavy-duty lubrication required for parts exposed to high friction and pressure, such as bearings, gears, and hinges in industrial machinery. They act as a sealant to protect components from contaminants like dust, moisture, and corrosive chemicals. For the oil and gas industry, greases must resist washout, handle high loads, and perform in extreme temperatures.

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We offer a range of industrial greases from reputable brands, including Shell Gadus, Mobilgrease, SKF, and Klüber Lubrication. These brands provide specialized greases like EP (Extreme Pressure) greases, which are ideal for applications involving heavy loads and shock loads, and high-temperature greases for areas exposed to intense heat. Shell's Gadus S2 V220, for instance, is highly recommended for its durability and long-lasting protection, even in demanding environments.

By partnering with trusted brands, we ensure that our customers receive lubricants tailored to maximize the performance and lifespan of their equipment in even the most challenging industrial environments.

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Welcome to Hami Sanat Keyhan

Founded in 2020, Hami Sanat Keyhan has established itself as a trusted provider of high-quality machinery, spare parts, and related industrial solutions. With a robust team of engineers boasting over a decade of expertise, we deliver excellence in every aspect of industrial equipment—from pumps and instrumentation to essential consumables such as oils and specialized chemicals like molecular sieves.

Our extensive network of reputable suppliers worldwide ensures that we meet the demands of various industries, delivering solutions that are

both reliable and efficient. At Hami Sanat Keyhan, we are committed to supporting your operations with products that adhere to the highest standards of quality and performance.

Explore our comprehensive catalogue to discover how our products and services can empower your business.

BEARINGS

In the demanding environments of oil and gas, specialized journal and industrial bearings are essential for ensuring the smooth, reliable operation of heavy machinery and high-speed equipment. Bearings in these settings must withstand extreme conditions, including high pressures, varying loads, and corrosive environments. We offer a comprehensive selection of industrial bearings from renowned brands known for quality and durability.

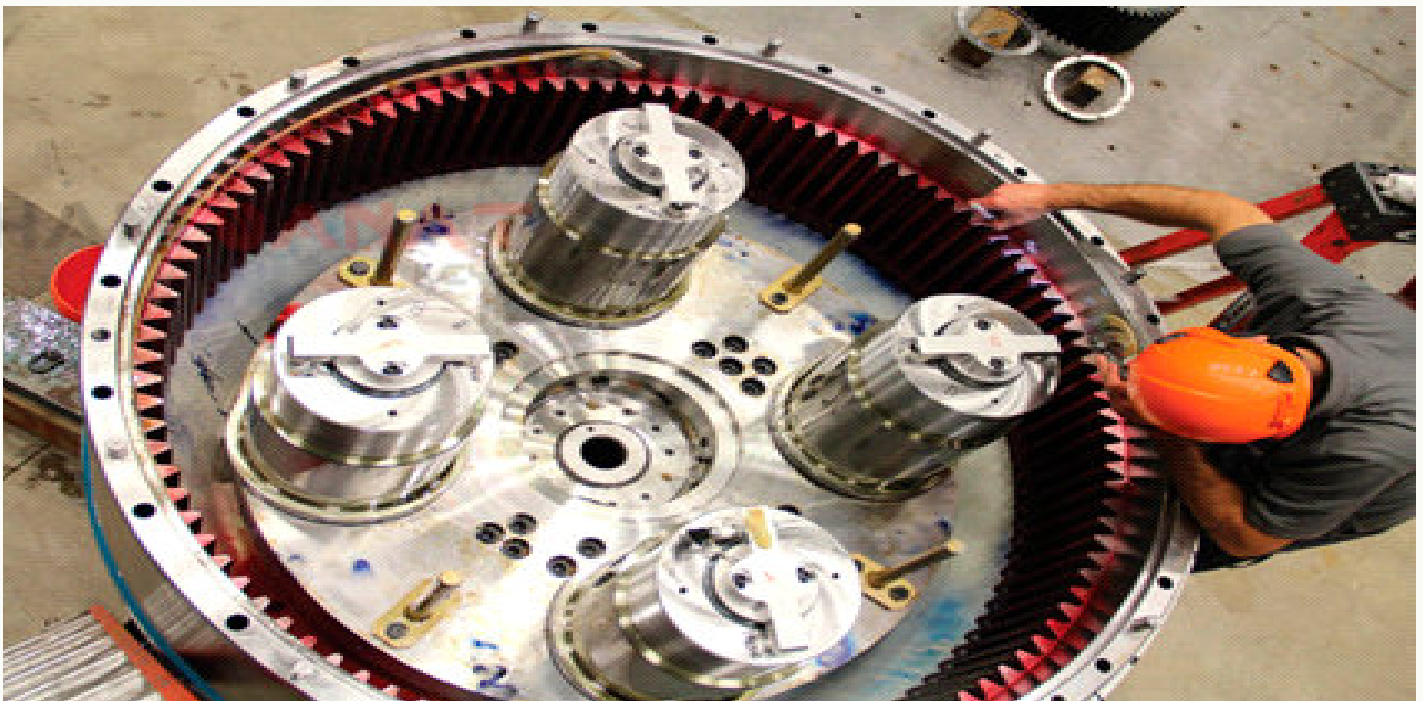
Specialized Journal Bearings

Journal bearings are critical for high-speed and high-load applications, where minimizing friction and heat is crucial to prevent equipment failure. These bearings are commonly used in compressors, turbines, and pumps, as well as other rotating machinery. We provide specialized journal bearings from trusted brands. These brands design bearings to provide stable performance and high resistance to wear, ensuring a longer life span for equipment in continuous operation.

For example:

- SKF bearings are known for their high precision and ability to handle heavy-duty industrial applications.
- TIMKEN offers custom journal bearing solutions for turbines that operate under extreme thermal and mechanical loads, making them ideal for gas compression and power generation.
- SNK bearings are built with advanced materials that support efficient lubrication and low friction, essential for centrifugal compressors and other rotating machinery.

By offering specialized journal and industrial bearings from these reputable brands, we ensure our customers receive the best options available to support their equipment's durability and performance in challenging operational settings.



SEALS

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Seals are essential components in industrial machinery, providing containment and preventing leaks in applications involving fluids, gases, or chemicals. In the oil, gas, petrochemical, and other heavy industries, seals must withstand extreme pressures, temperatures, and corrosive environments, making quality and reliability crucial. Hami Sanat Keyhan proudly supplies a comprehensive range of seals from industry-leading brands to ensure machinery in these sectors operates efficiently and safely.



Mechanical seals O-Rings and Gaskets

Labyrinth Seals

Lip Seals

Metal Seals

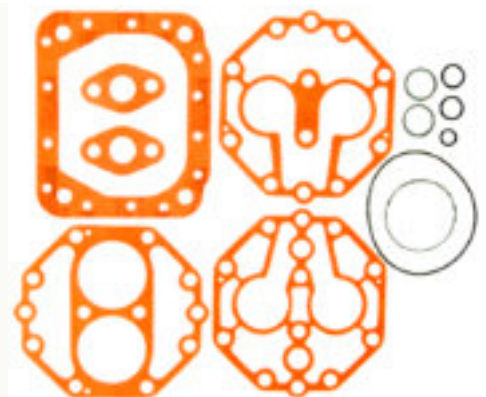
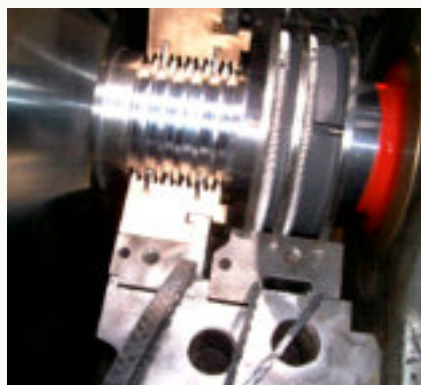
Hami Sanat Keyhan's Commitment to Quality

We provide seals from trusted brands such as John Crane, EagleBurgmann, Flowserve, Parker, and SKF, ensuring that our clients receive the highest quality products for their machinery. Our experts work with customers to identify the right seal solutions for specific equipment, enhancing operational efficiency and preventing costly downtime. With a comprehensive inventory and the ability to source specialized parts, Hami Sanat Keyhan is your reliable partner for all sealing solutions in industrial applications.

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In industrial applications and pumps depend on precision control and monitoring systems to maintain efficiency, safety, and reliability. Control valves and instruments play a crucial role in managing pressure, flow, temperature, and other operational parameters, ensuring that equipment runs smoothly and safely. Hami Sanat Keyhan has built a reliable network of suppliers worldwide, offering a comprehensive selection of control valves and instrumentation solutions for oil and gas, petrochemical, and heavy industries.



Essential Control Valves and Instrumentation



2. Monitoring Instruments:

- Accurate monitoring of operational conditions is essential to ensure equipment efficiency and longevity. Key instruments include:
 - Pressure Transmitters and Gauges: These measure and display pressure within systems, helping prevent overpressure and maintaining consistent operation.
 - Temperature Transmitters and Sensors: Vital for monitoring the temperature of fluids, gases, and machinery components to prevent overheating and thermal degradation.
 - Flow Meters: Measure the rate of fluid or gas flow within pipelines, crucial for processes that require precise flow rates for optimal performance.
 - Level Transmitters: Ensure that fluid levels within tanks and reservoirs are maintained, preventing issues caused by low or excessive levels.
 - Vibration Sensors: These sensors detect irregular vibrations in rotating machinery, helping prevent failures by identifying maintenance needs early.
 - Gas Analyzers: Monitor gas compositions, detecting potential hazards and ensuring compliance with safety and environmental regulations.

1. Control Valves:

- Control valves regulate the flow, pressure, and temperature of fluids or gases in pipelines and machinery, essential for maintaining optimal operating conditions in compressors, pumps, and turbines. Key types include:
 - Pressure Relief and Safety Valves: Protect machinery by releasing excess pressure, preventing system damage or failure.
 - Globe and Gate Valves: Used for flow control and shutoff functions in pipelines.
 - Butterfly and Ball Valves: Commonly employed for quick shutoff and flow regulation, particularly useful in high-flow applications.
 - Needle and Check Valves: Allow precise flow control and prevent reverse flow, important for maintaining consistent operation in rotating machinery.



ADSORBENTS

Adsorbents for Industrial Applications: Molecular Sieves, Carbon Molecular Sieves, Silica Gel, and Activated Alumina

In the oil, gas, petrochemical, and other heavy industries, adsorbents play a critical role in processes like dehydration, gas purification, and the removal of impurities. Hami Sanat Keyhan supplies a range of high-quality adsorbents, including **molecular sieves**, carbon molecular sieves, silica gel, and activated alumina, which are integral to applications such as the dehydration of compressed air and gases, and in PSA (Pressure Swing Adsorption) packages. Our global network allows us to source these materials from reputable brands, ensuring top performance and reliability for your industrial needs.

1. Molecular Sieves:

- Molecular sieves are synthetic zeolites with a highly porous structure, making them highly effective for adsorption and dehydration. They are available in various types, such as 3A, 4A, 5A, and 13X, each with different pore sizes to target specific impurities.
- Applications: Commonly used for the dehydration of natural gas, compressed air, and other industrial gases, molecular sieves are ideal for removing water molecules and light hydrocarbons, ensuring moisture-free operations and protecting equipment from corrosion and freezing.



2. Carbon Molecular Sieves (CMS):

- CMS is specifically designed for nitrogen generation and gas separation applications. Its unique structure enables it to separate gases based on the size and shape of molecules, with exceptional selectivity for nitrogen production in PSA units.
- Applications: In PSA nitrogen generators, carbon molecular sieves allow for the efficient separation of nitrogen from oxygen and other gases, making them critical for industries like petrochemical, food, and electronics manufacturing.



3. Silica Gel:

- Description: Silica gel is a highly porous, non-crystalline form of silica with a large surface area, making it an effective desiccant. Available in granular and bead forms, silica gel has the ability to adsorb moisture quickly.
- Applications: Silica gel is widely used for dehydration in compressed air systems, gas drying, and even packaging applications to protect products from humidity. It is valued for its low cost and high adsorption capacity in low-temperature environments.



4. Activated Alumina:

- Description: Activated alumina has a high surface area and strong adsorptive capabilities, particularly for polar compounds such as water. It is highly resistant to thermal shock and can be regenerated for extended use.
- Applications: Commonly used for dehydration of air and gases, activated alumina is effective for removing moisture in compressed air systems and is also utilized in oil and gas applications to adsorb fluoride, arsenic, and other impurities from water and gases.

For customers requiring dependable, high-performance adsorbents, Hami Sanat Keyhan ensures product availability from trusted names around the world, backed by expert support and flexible sourcing options.

PROCESS PUMPS

Process Pumps for Industrial Applications

Process pumps are essential components across a wide range of industrial sectors, including oil and gas, petrochemicals, power generation, and water treatment. Hami Sanat Keyhan sources a variety of process pumps from industry-leading brands such as Sulzer, KSB, Milton Roy, Ebara, Lowara and SEKO ensuring our clients receive reliable, high-performance equipment suited to their specific needs. Our extensive partnerships enable us to provide an array of pumps, each designed for unique applications and operational conditions.

Types of Process Pumps and Their Applications

1. Centrifugal Pumps:

- Description: Centrifugal pumps use rotational energy to move fluid through a system, typically via a spinning impeller. This type is one of the most versatile and widely used pumps in industrial applications.

- Applications: Ideal for low-viscosity fluids, centrifugal pumps are common in water treatment, chemical processing, and refinery applications where high flow rates are required. Brands like Sulzer and KSB offer highly durable centrifugal pumps that are suitable for high-temperature, high-pressure environments.



2. Positive Displacement Pumps:

- Description: Positive displacement pumps move fluid by trapping a fixed volume and forcing it through the discharge. These pumps provide a steady, consistent flow, making them suitable for handling viscous or high-solid content fluids.

- Applications: Used in the food, pharmaceutical, and chemical industries, positive displacement pumps are ideal for precise dosing, metering, and high-viscosity applications. Milton Roy specializes in positive displacement pumps, offering reliable solutions for chemical dosing and fluid metering.



3. Diaphragm Pumps:

- Description: Diaphragm pumps are a subset of positive displacement pumps that use a flexible diaphragm to move fluid, isolating the fluid from moving parts. This design provides high resistance to corrosion and abrasion.

- Applications: Common in chemical transfer, wastewater treatment, and slurry handling, diaphragm pumps are effective for fluids with solid particles or highly corrosive materials. Milton Roy is known for its robust diaphragm pumps, especially in metering applications where precise dosing is critical.



4. Submersible Pumps:

- Description: Designed to operate while submerged in fluid, submersible pumps use a hermetically sealed motor close-coupled to the pump body, making them highly effective for submerged applications.

- Applications: These pumps are primarily used in wastewater management, groundwater extraction, and dewatering applications in the mining and construction industries. Ebara and Lowara offer a range of submersible pumps designed to handle challenging conditions and ensure longevity under continuous operation.



5. Gear Pumps:

- Description: Gear pumps, another type of positive displacement pump, use the meshing of gears to move fluid. These pumps provide consistent flow rates and are suited for moving viscous liquids.

- Applications: Ideal for applications requiring the transfer of viscous fluids such as oil, resins, or heavy fuels, gear pumps are frequently used in lubrication systems, chemical processing, and food manufacturing.



6. Multistage Pumps:

- Description: Multistage pumps have multiple impellers installed in series within the pump body. Each impeller increases the pressure of the fluid, making these pumps suitable for applications requiring high head.

- Applications: Often used in water supply systems, boiler feed operations, and high-pressure cleaning systems, multistage pumps are ideal for applications requiring high pressure at moderate flow rates. KSB and Sulzer manufacture durable, efficient multistage pumps capable of handling high-pressure requirements.



Hami Sanat Keyhan's Expertise in Process Pumps

At Hami Sanat Keyhan, we understand that selecting the right pump type is essential to maximizing efficiency and minimizing downtime in industrial processes. Our global network allows us to source high-quality pumps from trusted brands, ensuring that each unit meets rigorous industry standards for performance and durability. Our team works closely with clients to identify specific needs, recommending pumps that suit each application, fluid type, and environmental condition.

For a detailed consultation on selecting and sourcing the ideal pump for your operations, contact Hami Sanat Keyhan. Our commitment to quality and our partnerships with Sulzer, KSB, Milton Roy, Ebara, Lowara, and other reputable manufacturers allow us to deliver reliable, high-performance solutions for even the most demanding industrial applications.



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Thank You for Exploring Our Products!

We're here to help you make the perfect choice. If you have any questions, need more details, or would like personalized recommendations, don't hesitate to reach out. Your satisfaction and experience matter to us, and our team is ready to assist you every step of the way.

Give us a call today—we'd love to hear from you!

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