

COMPANY PROFILE



The first and only in-Kingdom pipe supports manufacturer and field services provider



ARAMCO-approved manufacturer and contractor

أرامكو السعودية soudi aramco





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www.keksa.com

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Kinetic Energy Factory Company – KEKSA is a subsidiary of AMCDE, which is one of the first Saudi Aramco approved licensed engineering firms in Kingdom of Saudi Arabia. AMCDE's growth and reputation has been stellar and it has grown into various organizations

including a JV with KBR under the banner of KBR-AMCDE and more recently into the further diverse ISEC & AMCL.

KBR - AMCDE has been established with a vision of developing its services to cover all the Saudi Hydrocarbon sector, then to expand to other sectors within Saudi Arabia and beyond as opportunities arose in the region and as capacity was built. Currently, KBR-AMCDE is providing multi discipline engineering services including conceptual design, detailed design, and project management in a fashion that meets Saudi Aramco's high quality requirements and procedures.

is providing a full range of engineering services including conceptual design, front – end engineering design, detailed design, and project management. ISEC is handling Architectural & Building Services, Urban Planning, Geographical Information Systems (GIS) & Survey, Traffic & Transportation, Power Transmission & Distributionand Project Management – Construction Supervision – Manpower Supply projects.

was created to leverage the knowledge and experience the owners have amassed over four decades in serving the market in the engineering services arena to diversify their portfolio of services and investments. The vision is to serve the local market by entering into partnerships & joint ventures (JVs) with other local and international companies that are not only experienced in their appropriate fields, but are also reputable by the quality of their services. The services that AMCL is targeting to offer through the various JVs and partnerships are: EPC's, Technical support services, manufacturing of specialized elements for the industrial sector and etc.

AMCDE has analyzed the increasing demands of pipe supports in GCC and has kept the vision in mind to manufacture pipe supports locally. In 2007, AMCDE has established KEKSA with a state-of-the-art manufacturing facility in the Industrial Hub of KSA. KEKSA specializes in manufacturing Spring Hangers and all kinds of Pipe supports for the harsh local environments and demanding applications of the petrochemical, oil, gas, power generation, LNG, renewable energy and water treatment industries. With the passage of time, through executing projects for BAPCO, Saudi Aramco, SEC, SABIC, MA'ADEN, KNPC, Qatar Petroleum, Kuwait Oil Company, Rabigh Power Company, Turkmengas, YASREF and others, KEKSA has garnered a reputation for reliability, quality, and project execution excellence.



As a Saudi local-based company, KEKSA provides reliable and quality pipe supports at competitive prices with shorter delivery times, having fewer customs hurdles than the competition for the GCC market. KEKSA also provide field services related to pipe supports. Being local results in quick response time for emergencies including inspection and adjustment, installation and commissioning, testing and calibrating for pipe supports.

With the engineering capabilities in the group, a local manufacturing facility and readily available service team, KEKSA ensures to cover complete requirements of clients for pipe supports.



In 2016, KEKSA formed a strategic partnership with Bergen Pipe Supports (BPS), part of Hill & Smith Holdings PLC, a UK based international group with leading positions in the supply of infrastructure products and galvanizing services to global markets.

Established in 1968, Pipe Supports Group is a global manufacturer and supplier of pipe supports and restraint equipment to the power generation, oil, gas, petrochemical, LNG renewables and waste water industries with manufacturing Centers of Excellence in USA & India.

This strategic alliance brings forth the strength of both organizations so as to benefit the customers in the Gulf Cooperation Council (GCC) and Middle East regions. KEKSA contributes by being a local Saudi Arabian establishment with experience in the regional conditions and BPS bring forth their experience as an international specialist and a global supplier of pipe supports. BPSL has a manufacturing center of excellence and brings its vast experience and extensive product range to the partnership.





Mission + Vision + Strengths

<image>

Our Mission

KEKSA's core purpose is to offer superior-quality pipe supports and services to the GCC market. We maintain our strong reputation as a local company through offering localized expertise, competitive prices, shorter delivery times, and world -class quality.

Our Vision

To become the premier pipe supports manufacturer and services provider in KSA, the GCC, and the greater Middle East by nurturing our partnerships, building on our client base, and creating long-term value for the petrochemical, oil, gas, and power generation industries. KEKSA aims to be recognized as the key Partner to keeping these industries up and running.

Our Strengths

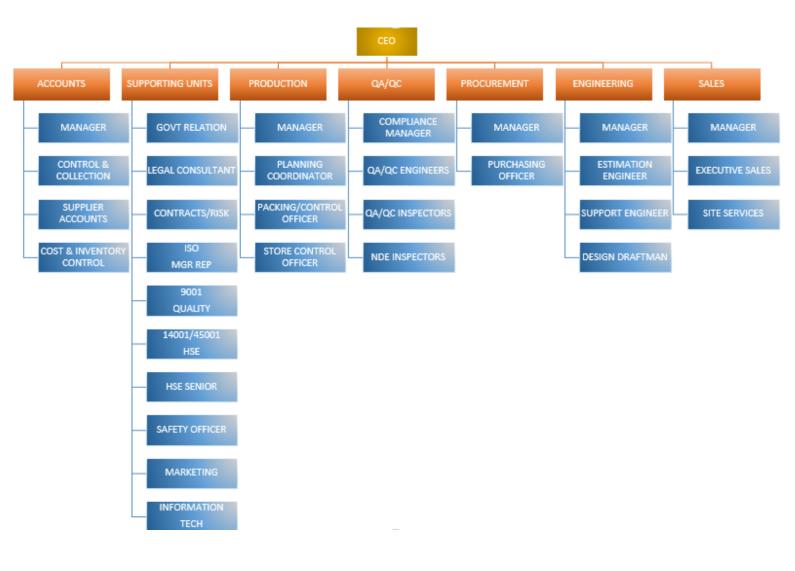
As a local manufacturer and services provider, KEKSA:

- Offers high quality pipe supports for the GCC at competitive prices
- Offers local field services with quick response time for emergencies
- Ensures shorter delivery times and fewer customs hurdles than facilities in Europe, U.S., & Asia
- Strategic Partner Bergen Pipe Supports Ltd.



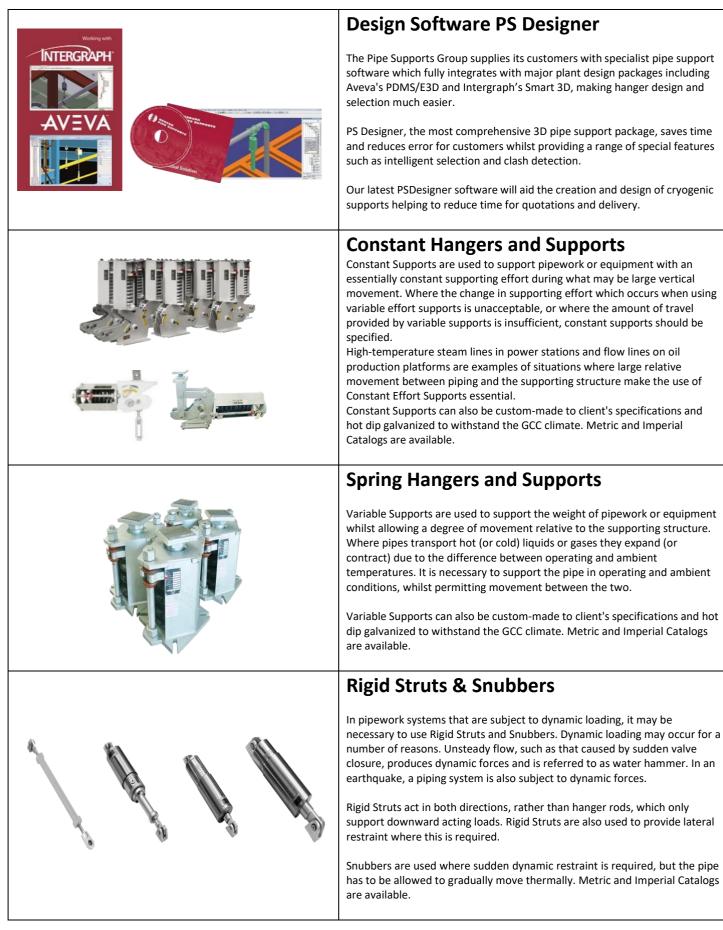
Organizational Chart

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⁺ Our Products



Pipe Connection Parts

Pipe clamps, clamp bases, weld -on lugs, and U-bolts are essential as pipe connection components. They are highly stressed in high temperature piping systems and therefore must be of high quality. These components and the loads they cover, comprise a broad spectrum of the practical field of application. Clamps can be designed for operation in temperatures up to 650°C.

Pipe bearings and saddle components are ideal as supports for piping systems arranged horizontally over long stretches. To allow normal thermal movement, the support points are designed as either sliding or roller types.

Cryogenic Supports

Cryogenic pipe supports are used in cold temperature applications. These supports are made of High-Density Polyurethane Foam (HD PUF). Anchors and stops can be supplied with fitted spools, ready for installation on site.

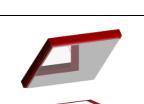
Our close relationship with chemical specialists enable us to produce rigid-high density polyurethane in densities ranging from 100 to 600kg/m³. The chemical is completely CFC and HCFC free and gives extremely low thermal conductivity combined with good compressive, flexural and tensile strength properties.

Connecting Elements

Connecting Elements are the hardware that complement spring supports and allow the connection of the pipe to the building structure. These include threaded connecting elements like clevises, turnbuckles, eye nuts, rod couplers, and hanger rods. All components are drop forged, and designed (apart from turnbuckles) to allow slight length adjustments, despite their limited installation height.

Customized Supports

KEKSA offers wide range of engineering solutions to our customers. We are also capable of designing and delivering customized pipe supports as per project requirements. We are equipped to meet the special surface protection requirements of projects.



PTFE slide bearings

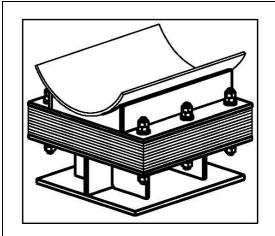
EASISLIDE LOW FRICTION BEARINGS -Bergen Supports Group and affiliates offers a comprehensive range of slide bearings suitable for many industrial applications. We supply bearings in a range of materials to standard designs and we also design and supply non-standard bearings to suit particular applications.







+ Our Products



BERGATHERM

Bergatherm is the range of Composite blocks, manufactured by Bergen & affiliates, using high strength glass fabrics and specially formulated epoxy resin and developed for cryogenic and other similar and demanding applications.

We use a highly sophisticated vacuum infusion manufacturing process to ensure the resin impregnates fully and any possibility of air entrapment is totally eliminated. Air entrapment is a common problem in products made using conventional open contact moulding processes and the Infusion process adapted by us ensures consistent and uniform laminate properties across the product.

After completing the Infusion, blocks are suitably post cured and then precision machined on CNC machining centers to ensure extremely accurate drilling location and dimensional accuracy.

The material selection has been carefully done to achieve very superior mechanical and thermal properties for critical applications in the cryogenic environment.

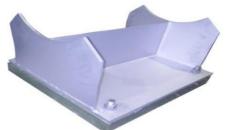
Typical Properties of **Bergatherm** Composite Blocks are tabulated below:

Specific gravity	gm/cm3	ISO 1183	1.80 ~ 1.95
Water Absorption	%	ISO 62	< 0.30
Glass Content	% by Weight	ISO 11358	60 ~ 70
Tensile Strength	N/mm²	ISO 527-4/5	> 100
Compressive Strength	N/mm ²	ISO 604	> 300
Impact strength un- notched	KJ / m2	ISO 180	>80
Thermal conductivity RT	W/mK	ISO 22007-2	< 0.30
Flammability	Seconds	UL-94	V0/ <50
Thermal Classification	°C	_	-196 to +150

Additional Tests and Testing at different standards can also be conducted by prior agreement to specific customer requirements.

This data has been achieved under controlled circumstances. The user must assure himself of the suitability of the material for use in specific environments & conditions.











KEKSA services will make a valuable contribution to the functional safety and longevity of pipe supports and avoid costly damages or shutdown of the plant.

Field Service Objectives:

- Increase operational safety
- Guarantee plant availability
- Prevent costly shut-downs and damage
- Secure long life of pipe supports

Site Surveys and Inspection

To avoid costly damage and operational breakdown the regular inspection of thermal movement in piping systems and the condition of supports - especially in older installations - is widely encouraged. Our engineers will produce comprehensive reports and provide the appropriate recommendations for a solution if needed.

Installation & Commissioning Supervision

Most mistakes in piping supports are made during installation and commissioning. Our engineers will supervise installation of piping systems into the supports prepared, inspect the system for correct installation according to drawings, de-block and commission the supports, conduct load and travel checks after commissioning, and inspect for freedom of movement of the pipe system in all three planes.

Maintenance, Testing & Calibrating

Our engineers will conduct maintenance based on inspection findings, as well as preventive maintenance (PM). To ensure the mechanical integrity and functionality of spring supports, it is recommended to conduct PM on all pipe supports at every planned shutdown. Our engineers will also calibrate spring supports at our testing facility if required.



Installation & Commissioning



Testing & Maintenance





F Site Survey Discoveries



Corrosion worsened by painting rather than by using HDG.



Corrosion worsened by painting rather than by using HDG.



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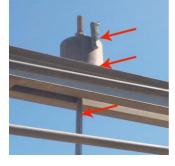
Improper installation – blocking not removed properly.



Completely rusted Spring Hangers after years of services.



Load adjustment required as per name plate.



Blocking of Spring Hanger was done incorrectly. Hanger is misaligned due to the absence of a base plate. Hanger Rod is bent due to misalignment of Spring Hanger.



Stress Analysis not done properly, huge misalignment causing breakage.



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"During the project, KEKSA displayed full commitment towards quality and delivery for all the products provided. Their local presence in the Kingdom of Saudi Arabia has simplified and streamlined technical discussions which have in turn enabled us to execute the project within the window of a very aggressive time schedule."

-- Hamad AI Rashidi, Director of Projects & Expansion Dept., Ma'aden Phosphate Company

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"KEKSA's approach to the project was one of complete Professionalism throughout. Their communication skills for the duration of the contract, the submission and quality of their documentation and their ability to perform under pressure were essential to the timely completion of the project. We would welcome the opportunity to work with them on future projects."

-- Sukru Aytemiz, Project Manager, Tekfen Construction



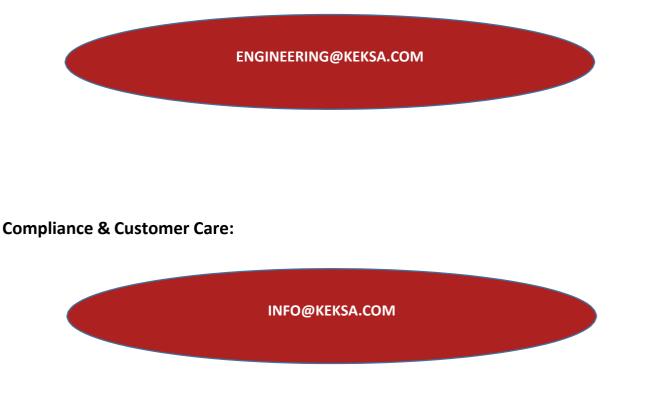


The contact information of selected Departments is located below to ensure clear and easy communication between KEKSA and our clients.

Sales, Marketing & Prequalification:



Engineering & Manufacturing:





+ Our Clients (End Users)























+ Address & Contacts

Kinetic Energy Factory Company - KEKSA

Head Office:

AMCDE Building Prince Sultan Bin Abdulaziz Road, Rakah Al-Khobar-Dammam Highway P.O. Box 3594, Al-Khobar, 31952 Kingdom of Saudi Arabia Tel : +966 (13) 8588877 Ext. 453 or 483 Fax : +966 (13) 858 8866

Plant:

Jubail Support Industrial Area Al-Jubail, Kingdom of Saudi Arabia Tel : +966 (13) 341 8899 Ext. 124/129/145/150 Fax: +966 (13) 341 7799

Website: www.keksa.com

E-mail: info@keksa.com

Bahrain Office:

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Strategic Partner

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Bergen Pipe Supports India

Bergen Pipe Supports (India) Private Ltd. No. 720, Belerica Road Sector 22, Sri City DTZ Varadaiahpalem Taluk (Mandal) Chittoor District– 517541 Andhra Pradesh India Tel: +91 8576 305666 E-mail: bpsi@pipesupports.com

