



PLANT TURNAROUND AND S/D SERVICES

Heat Exchangers Maintenance
Cleaning and Repair of Columns & Drums
Pipeline Automatic Cleaning and Maintenance
Cleaning and Repair of Tanks and Oil Sump Pits
Steaming & Pipeline Pre-Commissioning
Automated Tank Cleaning
Truck Mounted & Aerial Bundle Pulling
Water Jet Surface Preparation
Mechanical Cleaning & Micro Blasting of Tube Internal
Hydro jetting Services
Aqua Milling and De-Blocking of Pipelines and Tubes
Lube Oil Flushing and Decontamination
Vacuuming Services and Waste Disposal

ONSITE BOLTING AND MACHINING SERVICES

Hydraulic Bolt Torqueing & Tensioning
In-situ Flange Facing
In-Situ Pneumatic Cold Cutting and Bevelling
In-House Precision Machining Services
In-Situ Milling
Boring, Burnishing Threading
Cylindrical Grinding
All Types of Machining and Fabrications

SPECIAL AND UNIQUE SERVICES

In-situ Hydro Cold Cutting (Waterjet Cutting) Technology
Dismantling of Obsolete Units of Oil & Gas Plants
Decommissioning of Flammable Storage Vessels
Concrete Hydro Demolition Technology
Demolition And Removal of Chocked Polymer Lumps
Flare Line Services

SCAN CODE



ADD TO CONTACT

COMPANY BROCHURE

Saudi Hydrodynamics Co. Ltd

P.O. Box 8099, Dammam 31482, Kingdom of Saudi Arabia

Mob: +966 50 482 1026, Tel: +966 13 384 6894, Email: info@saudihydro.com, Web: www.saudihydro.com

"Your perfect partner in industrial maintenance service, offering reliable leadership in turn around and shutdown, and inherited excellence in special unique services"

TABLE OF CONTENTS

Chairman's Word	04
About Us.....	05
Vision.....	05
Mission.....	05
ISO Certifications.....	06
Safety Policy.....	06
Quality Policy.....	07
Plant Turnaround and Shutdown Services.....	08
Heat Exchanger Maintenance.....	08
Cleaning and Repair of Columns, Vessels, Drums.....	08
Pipeline Cleaning and Maintenance.....	09
Cleaning and Repair of Tank and Oil Sump Pit.....	09
Automated Tank Cleaning System.....	10
Truck Mounted & Aerial Bundle Pulling Services.....	10
Water Jet Surface Preparation.....	11
Exchanger Tubes Mechanical Cleaning and Micro Blasting.....	11
Hydro jetting Services.....	12
Aqua Milling and De-Blocking of Pipelines and Tubes.....	12
Lube Oil Flushing, Chemical Cleaning & Decontamination.....	13
Steaming & Pipeline Pre-Commissioning Services.....	13
Onsite Bolting and Machining Services.....	14
Hydraulic Bolt Torqueing & Tensioning.....	14
In-Situ Pneumatic Cold Cutting and Bevelling.....	14
In-situ Flange Facing.....	15
In-House Precision Machining Services.....	15
In-Situ Milling.....	16
Boring, Burnishing Threading.....	16
Cylindrical Grinding.....	17
All Types of Machining and Fabrications.....	17
Special and Unique Services.....	18
Hydro Cold Cutting Technology.....	18
Decommissioning of Flammable Storage Vessels.....	18
Concrete Hydro Demolition Technology.....	19
Demolition And Removal Of Chocked Polymer Lumps.....	19
Testimonials.....	20
Clientele.....	21
Picture Gallery.....	22
Ongoing Projects at Saudi Aramco.....	24

CHAIRMAN'S WORD

Saudi Hydro has been faithfully serving our clients' needs for more than 28 years. From early 2019 we are adding more and more industrial service sections into our service portfolio. This development brings a host of new benefits and opportunities to Saudi Hydro's loyal clients, employees and brokers while maintaining the principles that have been the backbone of the company since our founding in 1992.

Saudi Hydro today offers explicit services covering various maintenance activities supporting Oil and Gas, and Petrochemical industries throughout the kingdom. Services in a nutshell includes, General maintenance during plant turn around or shutdown, Heat exchanger maintenance, Vessels, tanks, columns cleaning and repair, Pipeline maintenance, Decontamination and chemical cleaning, Hazardous waste management service, Flange torqueing and pneumatic cold cutting services.

As an entrenched firm, we are able to offer clients the same outstanding service and resources they know so well, along with a variety of new capabilities. Our special and unique experience, and in hand training of our team in Hydro cold cutting services, special tube cleaning services, decommissioning of pipelines and vessels and hydro demolition services for concrete repair, have made us the most reliable and trusted service provider in the kingdom.

We maintain our absolute commitment to client relationships and satisfaction, integrity and transparency. We are constantly enhancing our technology and risk management capabilities to ensure that you have the most state-of-the-art tools available at your fingertips. We have developed our own technology and partnered with many of the industry's best solutions providers to make sure you have a choice in finding tools that will help you meet your goals. We work extraordinarily hard to maintain an open dialogue with our clients to ensure that we continue to deliver products and services that you value.

We thank you for entrusting your business to us or considering our services for the future.

Haider Masood Al Hammam
Chairman and CEO

ABOUT US

With a prodigious successful record of accomplishment for past three decades, Saudi Hydro leads its operation in the field of industrial service for plant maintenance and support services providing to Oil and Gas, Petrochemical industries. Saudi Hydro's primacy in plant shutdown and maintenance is met, confirming to safe execution, quality of work and consistent in delivering results under tight schedules. We have a performance history of cost reduction for our clients whilst working closely with them to achieve considerable service improvements.

Saudi Hydro is an approved vendor of Saudi Aramco, Sabic, Saudi Electricity Company, Marafiq, Swcc, Satorp, Sipchem, Sasref, Tasnee, Saudi Chevron and many other reputed companies. Saudi Hydro progress is also driven by our commitment to sharing knowledge and continuously defining and re-defining the best industrial practices. Saudi Hydrodynamics is a most reliable partner of various Oil and Gas, and Petrochemical affiliates across the kingdom in providing state of art services in maintenance of Industrial and Hydrocarbon plants.

We emphasis on the prime shutdown goals of Safest execution, on budget, quality workman ship, and meeting the tight timeline. Saudi Hydro's work force is capable of meeting the shutdown goals through which the success of the shutdown is gauged, whilst working closely with plant standards, procedures and safety guidelines.

Our dedicated Management team with planning and scheduling team works in cohesion with client's requirements and our execution team, which ensures that the ultimate client satisfaction is achieved, by accomplishing the completion of the entire TA/ T&I activities ahead of the schedules, without compromising in safe execution and quality workmanship.

VISION

"To be a preferred specialized industrial maintenance services company in the kingdom and sustain that reputation through our continued quality performance in execution and client satisfactions."

MISSION

"To exceed our client expectations in quality, delivery and cost through continuous improvement without compromising safety, health and environment".

SAFETY POLICY

"Saudi Hydro stands behind the development, implementation and maintenance of an up-to date safety and health program consist with what we believe to be the best establishment management practice in a sincere effort to prevent the pain, suffering and economic losses attributes to accidents. This program will not take precedence over the workplace safety and health Act or Regulation under this Act.

We realize that accident prevention is a shared responsibility and on order to achieve our goal all employees must take the responsibility to work together in identifying, eliminating or controlling the hazards present in our work Environment. Through consciences contribution and continuous wholehearted support, we can, and will improve our safety performance and assure a healthier, happier and more secure future all concerned.

At Saudi Hydro, safety is not by accident it is our traditions. Since beginning, safety & training have been a top priority in the company. Our strategy of no compromise on safety and proper training of our men gave us good mileage in gaining the confidence of customers. Leaving nothing to chance, we believe it is essential that all our personnel adhere to strict safety guidelines and undergo extensive training. Every member of Saudi Hydro operation undergoes frequent in-house safety awareness and refreshment programs which enable us to handle the jobs in a safety way.

QUALITY POLICY

The management of Saudi Hydrodynamics Co. Ltd. is committed to comply with the requirements of the ISO 9001: 2015 and all other industrial standards, as applicable to its scope of operations with the following corporate objectives, which shall be realized by setting and achieving process related objectives at various functions and levels.

We aim, to ensure that approved methods and procedures are in place, to minimize the wastage during the production processes, to ensure that safety of the personnel and facilities, to comply with International standards while planning and executing the customers' projects, to ensure that quality requirements shall be determined and satisfied at all phases of production & delivery to the customers, to ensure that inspection and audits are conducted at all processes and analysis of the results carried out, and to ensure prompt detection of deficiencies and undertaking corrective actions in a timely manner.

And thus, to provide quality products and services that meet customers' needs and expectations by complying with the requirements of Specifications and Standards as contractually agreed as well as any relevant Statutory and Regulatory requirements as applicable. And to continually improve its performance in Quality Management System by conducting periodic reviews and assessment of the Management System, Policies and Objectives for continuing suitability and effectiveness.



CERTIFICATE

This is hereby certified that the Quality Management System of

SAUDI HYDRO

[SAUDI HYDRODYNAMICS CO. LTD]

P.O Box: 8099, King Fahad Bin Abdul Aziz Street, Ghirnatah Dist., Dammam 32243,
Kingdom of Saudi Arabia

Has been found to comply with the requirements of

ISO 9001: 2015

This certificate is applicable for the following scope:

Construction, Maintenance and Operating of Electrical, Mechanical and Industrial works, Sewage Pipes. Water Jet Cutting of Steel & Concrete and Removal using High Water Pressure, Industrial Services (Maintenance) & Chemical Cleaning.

Certificate Number: **KAQM202411059**

Certified Since: 09 November 2023

Date of initial registration: 12 November 2024

Surveillance audit on/before: 12 October 2025

Certificate expiry: 12 November 2025

Recertification due: 11 November 2027



Authorized Signatory
KVQA Assessment Pvt. Ltd.

Website: www.iso-registration.com | Email: info@iso-registration.com

KVQA Assessment Private Limited is accredited to United Accreditation Foundation (UAF). UAF is internationally recognized by having a signatory status across multilateral recognition arrangement of International Accreditation Forum (IAF) and Asia Pacific Accreditation Cooperation (APAC).

The certificate is valid subject to successful completion of surveillance audits. Verify validity/status on www.iso-registration.com or on email at info@iso-registration.com

UAF address: 400, North Centre Dr, STE 202, Norfolk, VA23502, United States of America



CERTIFICATE

This is hereby certified that the Environmental Management System of

SAUDI HYDRO

[SAUDI HYDRODYNAMICS CO. LTD]

P.O Box: 8099, King Fahad Bin Abdul Aziz Street, Ghirnatah Dist., Dammam 32243,
Kingdom of Saudi Arabia

Has been found to comply with the requirements of

ISO 14001: 2015

This certificate is applicable for the following scope:

Construction, Maintenance and Operating of Electrical, Mechanical and Industrial works, Sewage Pipes. Water Jet Cutting of Steel & Concrete and Removal using High Water Pressure, Industrial Services (Maintenance) & Chemical Cleaning.

Certificate Number: **KAEM202411035**

Certified Since: 09 November 2023

Date of initial registration: 12 November 2024

Surveillance audit on/before: 12 October 2025

Certificate expiry: 12 November 2025

Recertification due: 11 November 2027



Authorized Signatory
KVQA Assessment Pvt. Ltd.

Website: www.iso-registration.com | Email: info@iso-registration.com

KVQA Assessment Private Limited is accredited to United Accreditation Foundation (UAF). UAF is internationally recognized by having a signatory status across multilateral recognition arrangement of International Accreditation Forum (IAF) and Asia Pacific Accreditation Cooperation (APAC).

The certificate is valid subject to successful completion of surveillance audits. Verify validity/status on www.iso-registration.com or on email at info@iso-registration.com

UAF address: 400, North Centre Dr, STE 202, Norfolk, VA23502, United States of America



CERTIFICATE

This is hereby certified that the Occupational Health & Safety Management System of

SAUDI HYDRO

[SAUDI HYDRODYNAMICS CO. LTD]

P.O Box: 8099, King Fahad Bin Abdul Aziz Street, Ghirnatah Dist., Dammam 32243,
Kingdom of Saudi Arabia

Has been found to comply with the requirements of

ISO 45001: 2018

This certificate is applicable for the following scope:

Construction, Maintenance and Operating of Electrical, Mechanical and Industrial works, Sewage Pipes. Water Jet Cutting of Steel & Concrete and Removal using High Water Pressure, Industrial Services (Maintenance) & Chemical Cleaning.

Certificate Number: **KAOH202411034**

Certified Since: 09 November 2023

Date of initial registration: 12 November 2024

Surveillance audit on/before: 12 October 2025

Certificate expiry: 12 November 2025

Recertification due: 11 November 2027



Authorized Signatory
KVQA Assessment Pvt. Ltd.

Website: www.iso-registration.com | Email: info@iso-registration.com

KVQA Assessment Private Limited is accredited to United Accreditation Foundation (UAF). UAF is internationally recognized by having a signatory status across multilateral recognition arrangement of International Accreditation Forum (IAF) and Asia Pacific Accreditation Cooperation (APAC).

The certificate is valid subject to successful completion of surveillance audits. Verify validity/status on www.iso-registration.com or on email at info@iso-registration.com

UAF address: 400, North Centre Dr, STE 202, Norfolk, VA23502, United States of America

Reliable leadership in PLANT TURNAROUND AND SHUTDOWN SERVICES

HEAT EXCHANGER MAINTENANCE

A heat exchanger is a critical component in many processes. Saudi Hydro provides methods that enable a large extent of on-site maintenance, inspection and cleaning with minimal reaching time. Pro-active measurements implemented on entire systems help prevent down time and will ensure system integrity between planned maintenance and inspection intervals.

Saudi Hydro can perform all operations in its own workshops. When responsible for a complete overhaul, the heat exchanger is returned fully documented to the client once ready.

Saudi Hydro is fully equipped and experienced to perform blind to blind isolation, Bundle pulling service (Truck mounted and Aerial Bundle puller), Cleaning Service, Retubing, Leak Testing, Plugging of Tubes, Bolt Torqueing & Tensioning, Tube Sheet Machining and Flange Facing associated with heat exchanger repair.



PIPELINE CLEANING AND MAINTENANCE

Process pipe work in industry becomes corroded, scaled up or even totally blocked which reduces plant efficiency, even stopping production. A range of pressures between 500 & 3000bar can be used to clean pipes, depending on the type of deposit but 1000bar is a useful performance for a variety of cleaning tasks. Saudi hydro is specialized in providing services in the pipeline construction sector as well.

Saudi Hydro is fully equipped and experienced to perform Cleaning Services including hydro jetting, aqua milling, RDR cleaning, 3D nozzle cleaning, Chemical cleaning/ Decontamination, Pipeline pigging, Pickling and passivation, Inspections, Pre-Commissioning, Steam blowing, Flushing & Cleaning, High pressure water flushing, Hydro Testing, Drying, and Nitrogen purging & preservation of line, associated with pipeline cleaning and maintenance.

CLEANING AND REPAIR OF COLUMNS, VESSELS, DRUMS

Saudi Hydro offers a full range of column and vessel maintenance services to the refining, petrochemical and power sectors. We repair and maintain all types of vessels and columns and ensure that equipment is reinstated for safe and efficient use in the shortest possible time.

Saudi Hydro subject matter experts are trained to operate in confined spaces using breathing apparatus and jetting equipment.

Saudi Hydro is fully equipped and experienced to perform Blind to blind isolation, De-sludging, Cleaning services, Welding repairs for shell and internals, Trays, packing and internals removal and replacement, Replacement internals needs from our global manufacturing network, Bolt torqueing & Tensioning, Flange Facing, Cold cutting with hazard free hydro cutting method, associated with columns and vessel repair.



CLEANING AND REPAIR OF TANK AND OIL SUMP PIT

Saudi Hydro is able to clean tanks and vessels from outside without the need to send operatives into these confined areas. Our advanced nozzle positioning technology ensures that the water jet is focused therefore becoming a most effective cleaning.

Saudi Hydro is fully equipped and experienced to perform Isolation of the system, Product transfer using special piping & vacuuming system, Sludge removal & disposal, Cleaning service by hydro jetting, chemical cleaning/ decontamination, 3D nozzle cleaning, automatic flushing unit, Nitrogen purging, Vacuuming, Sludge Depletion, Transfer and Cleaning, Repair of bottom plates and floating roof, Cold cutting with hazard free hydro cutting method, Demolition of tank by Hydro cold cutting Technology and Inspection associated with tank and oil sump pit activities.

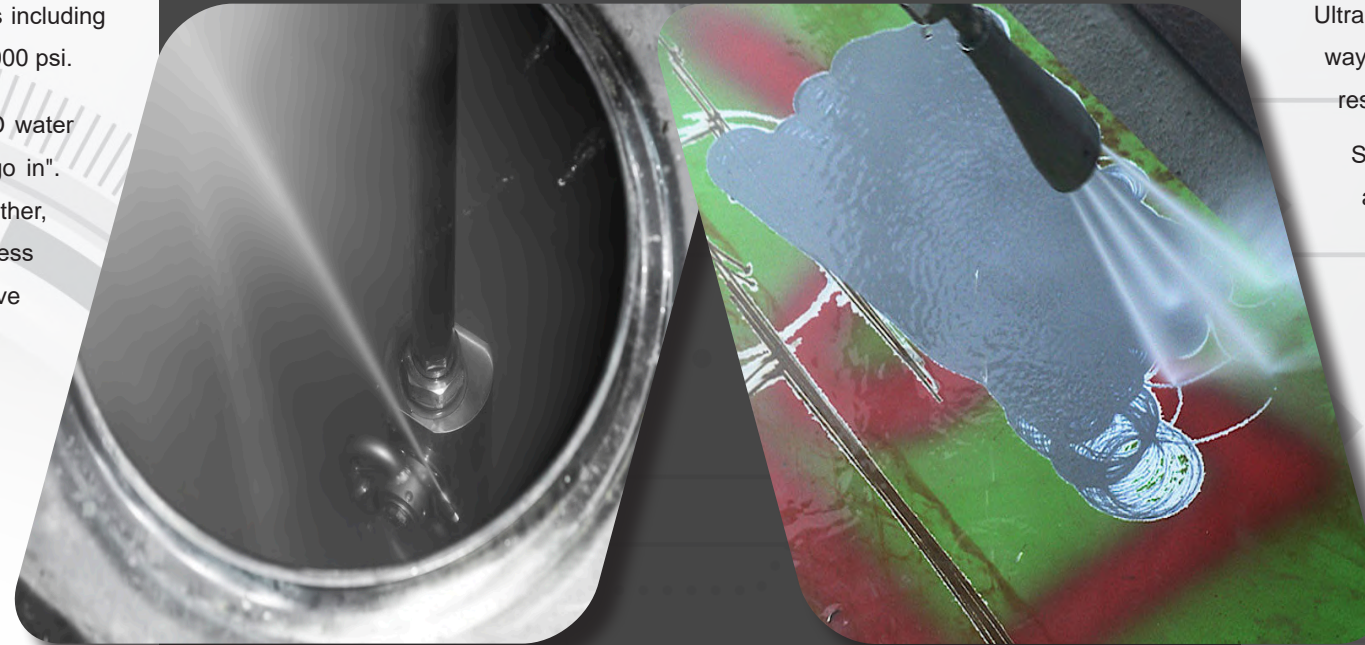
Reliable leadership in PLANT TURNAROUND AND SHUTDOWN SERVICES

AUTOMATED TANK CLEANING SYSTEM

Saudi Hydro's automatic tank cleaning technology removes deposits including hardened materials from tank internal walls at pressures of up to 15,000 psi.

Because entry into vessels can be tricky or hazardous, we use 3-D water blast nozzles high volume pump that can eliminate the need to "go in". This technology rotates two jets of water at 90 degrees to each other, to effectively clean an entire vessel. This makes the jobsite far less complicated, because there is no need for a hole watch or to have rescue personnel on standby during the operation.

The wide range of nozzles are with various lengths and shapes that enable the cleaners to be use for many applications. Units can be fitted with one or two arms.



WATER JET SURFACE PREPARATION

Ultra High pressure water blasting is simply the most productive, economical way to achieve the surface you need for good coating adhesion, while fully respecting the environment.

Saudi hydro's water jetting quickly removes coatings, rust, and other tough adherents without the hazards of grit blasting. The resulting surface meets all recognized standards (including the WJ-1 or "white metal" specification of NACE No. 5 and SSPCSP-12, and SIS Sa-3).

Water jetting is also the only way to meet the SC-2 standard for removing soluble salts, which hamper adhesion and often lead to coating failure. Ultra-high pressure (up to 40,000 psi, or 2,800 bar) water jetting cleans deeply enough to prevent these invisible "corrosion cells" from forming, and even restores the surface's original profile.

BUNDLE PULLING SERVICES (TRUCK MOUNTED & AERIAL BUNDLE PULLER)

Our experienced crew with the automated bundle pulling equipment can handle the most obstinate tube exchanger units from the shell, transport it to the wash bay and finally push the bundle back into the shell once the maintenance is complete, giving our customers a double saving in maintenance costs.

Truck Mounted Bundle Puller

Capacity:	25.0 T
Height range:	0.5m to 7.0m
Max length of exchanger:	6.5 m
Max diameter of exchanger:	1.8 m

Aerial Mounted Bundle Puller

Capacity:	50.0 T
Max length of exchanger:	10.0 m
Max diameter of exchanger:	3.0 m



EXCHANGER TUBES MECHANICAL CLEANING AND MICRO BLASTING

With the focus on safety, conventional approaches to heat exchanger cleaning have been revised, and new and innovative cleaning methods have been developed. Saudi Hydro is well-equipped with a range of mechanical cleaning tools for a variety of applications including drilling, brushing, and dart shoot thru. When compared to traditional hydro jetting methods, mechanical cleaning technologies offer superior cleaning of tube internals.

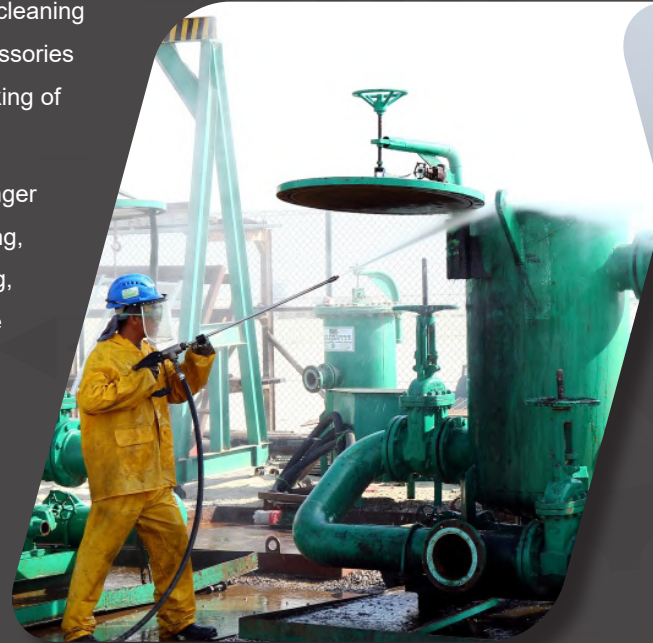
In conjunction with our specially trained and experienced staff and supervision, the distinctive turbine design cleaners featuring different cleaning heads maintain a leading position in treating medium to hard scales and deposits. Saudi Hydro is a professional at employing micro grit blasting to remove stubborn scale and deposits from tube substrate and pits. Fin fans, exchangers, and condensers can now have high integrity data collected on them as a result of Micro blasting.

Reliable leadership in **PLANT TURNAROUND AND SHUTDOWN SERVICES**

HYDRO JETTING SERVICES

Saudi Hydro offers a wide range of high pressure and ultra-high pressure cleaning and allied activities with skill and experience. Our custom designed accessories and tools combined together to achieve any difficult cleaning or de-blocking of exchanger tubes, pipelines etc.

Saudi Hydro is fully equipped and experienced to perform Heat exchanger tube internal cleaning, Fin fan external cleaning, Tube bundle cleaning, Column internal cleaning, Vessel, drums and tanks internal cleaning, Sludge removal and Floor cleaning, Surface preparation, Blocked tube cleaning by using both flexi lance and automatic rigid lancing up to 30000 to 40000 psi pressure rating, Internal pipeline cleaning/de-blocking polymer removal by using high pressure high volume pump 480 HP flow 50-60 USG /minute to remove hard choked polymers, cocks and hard scales etc.

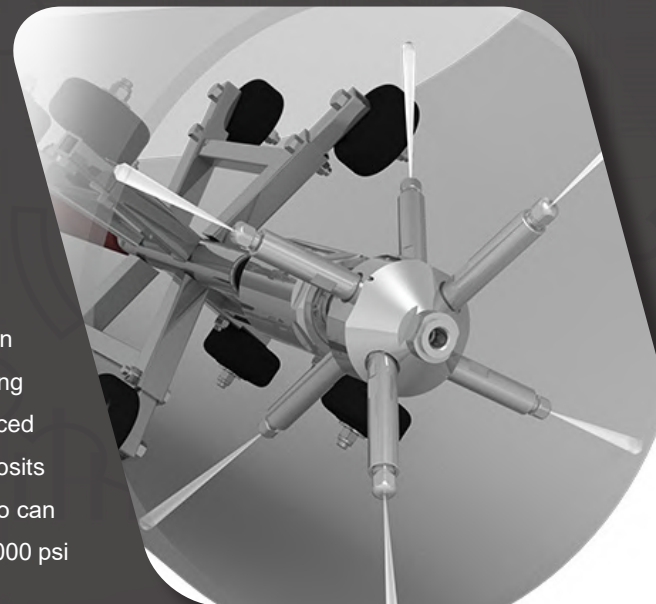


AQUA MILLING AND DE-BLOCKING OF PIPELINES AND TUBES

Aqua Milling is a specialized internal pipe cleaning method using high volume impact of water without additives. Aqua milling has proven to be the most efficient method to remove hard scales/ deposits/foreign materials, which are trapped inside the pipelines.

Saudi Hydro can perform the most effective cleaning using our HVHP pumps, which can deliver up to 198 litres/ Min at 15,000 psi of discharge pressure.

Taking the aqua milling technology to a lighter scale, Saudi hydro can clean/ de-block any blocked tubes of varying sizes. For the de-blocking of tubes, the amount of discharge from the high pressure pump is reduced and the discharge pressure is raised. Whatever be the nature of the deposits inside the tubes, whether it is loose, sticky or hard as rock, Saudi hydro can tackle any such conditions using various power packs ranging from 10,000 psi to 30,000 psi.



LUBE OIL FLUSHING & DECONTAMINATION

Our service delivers excellent results through a range of advanced techniques. We clean the inaccessible areas where conventional methods are restrictive. We begin with a site survey and technical discussion to make sure we understand your needs and expectations.

Using techniques formulated from past two decades of experience in working with Oil & Gas and Petrochemical industries we can provide the most prominent cleaning methods to the client. We will identify the most effective chemistry too for successful and clean a large variety of contaminants whilst considering the metallurgy of client system.

Saudi Hydro specialize in oil and gas decontamination and large-scale turnarounds throughout the Kingdom. Our packaged solutions are based on environmentally safe, proven systems and bespoke chemistry, rapidly decontaminate hydrocarbon processing plants to minimize downtime.



STEAMING AND PIPELINE PRE-COMMISSIONING SERVICES

Saudi hydro have the capability to provide 24 X 7 steaming service to our clients on the requirement of turnaround and shutdowns. Our experienced crew and well maintained and certified boiler fleet, with steam delivery capacity upto 10T/ hr, can tackle almost all challenges.

Pre-commissioning is the series of processes carried out on the pipeline before the final product is introduced.

Saudi Hydro provides the complete suite of pipeline pre commissioning services under a single project management team in order to provide enhanced safety, quality and schedule performance on any project. We offer a comprehensive range of offerings to ensure the successful completion of a pre-commissioning project covering Flushing, Air Blowing including service air blowing and target air blowing, Steam Blowing, RDR Cleaning, Chemical Cleaning, Pipeline Pigging, Leak Testing and Drying to dew point level.



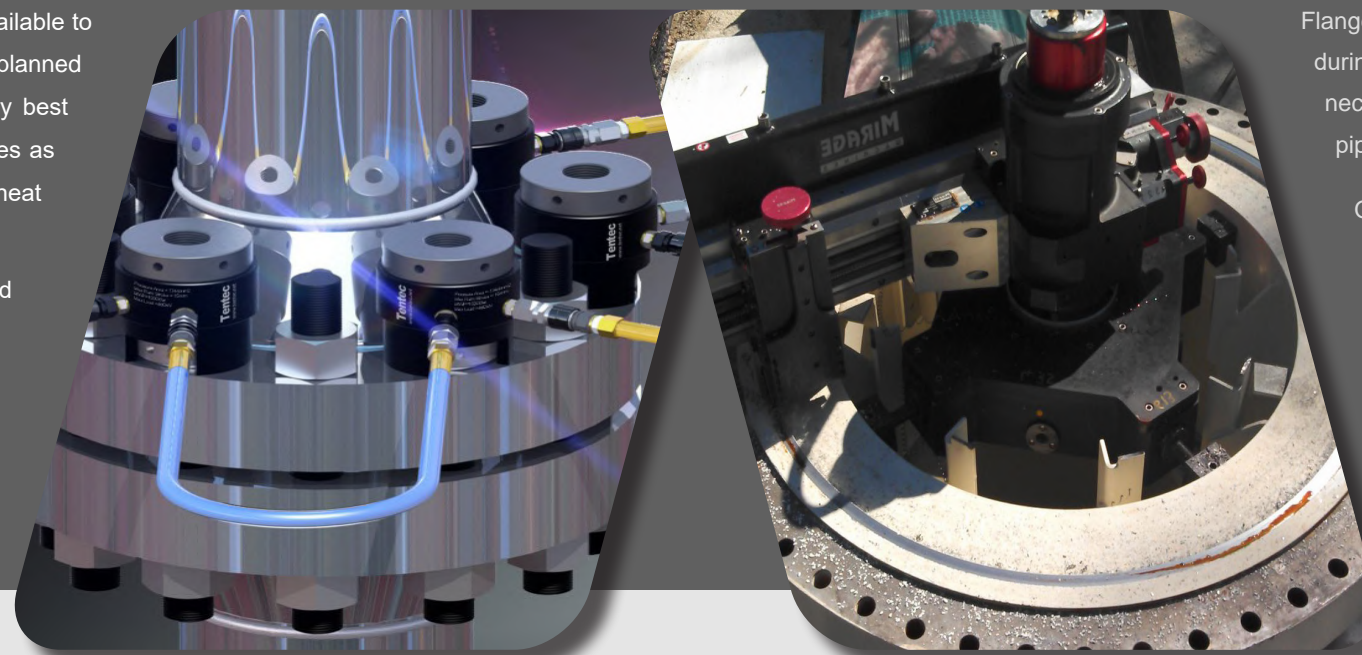
Reliable leadership in

ONSITE BOLTING AND MACHINING SERVICES

HYDRAULIC BOLT TORQUEING & TENSIONING

Saudi Hydro incorporates the latest and most effective techniques available to prevent the failure of bolted joints in your plant or facility. Whether a planned or unplanned outage, you can feel confident that you have the very best on-site services to ensure leak-free start-up of such critical assemblies as pipe flanges, turbines, reactors, vessel man-ways, compressors, and heat exchangers.

Our services are tailored to your specific requirements and performed with the utmost attention to safe, functional, reliable, and efficient execution. Saudi hydro's trained, API certified and experienced team and turnkey services get projects completed quickly and efficiently. Continuous-Turning High-Speed Pneumatic Torque wrenches are up to 20 times faster than traditional tools, which decrease your turnaround time and save you money.



FLANGE FACING

Flange facing is considered to be one of the most crucial repairs performed during plant shutdowns or maintenance. Numerous significant plant outages necessitate the use of machining services, with a sizable share including pipe cutting, weld preparation, and heat exchanger face refacing.

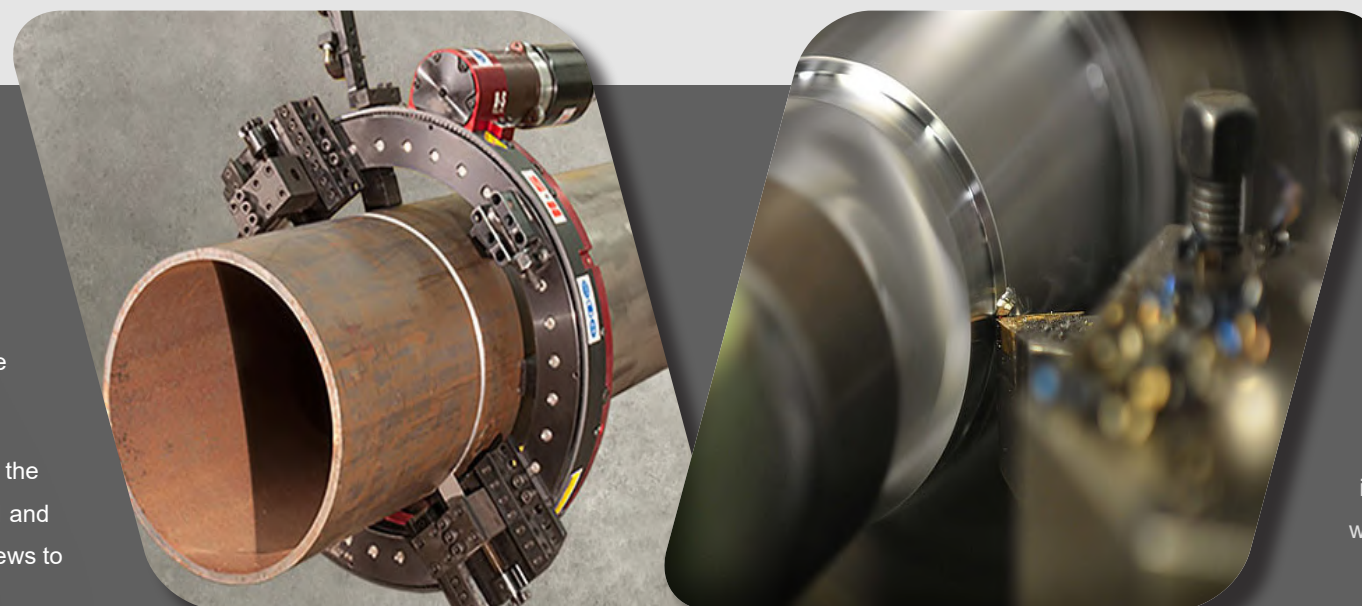
Our team's expertise and fleet of adaptable flange facing equipment allow us to address the particular and intricate needs of bolted gasket assemblies, including raised face and ring-type joint flanges, heat exchanger and manway flanges up to 80 inches.

Saudi Hydro has skilled specialists who can operate safely close to pipes, vessels, and heat exchangers. To accommodate the wide range of pipe sizes, wall thicknesses, and difficult-to-access places, special purpose machines are offered.

PNEUMATIC COLD CUTTING AND BEVELLING

Split frame pneumatic cutting is one of the most opted pipe cold cutting methods, where any hot cutting of the pipeline is prohibited due to the presence of hydrocarbons or LELs. The system is generally a field-portable clamshell-style pipe cutting and bevelling machine tool (lathe) that splits to mount to in-line pipe, tube, and flanges. Structurally it features a fixed rigid frame or ring for support and mounting, and a rotating ring for attaching machining modules and tooling. Both rings split to allow the whole machine to clamp or hinge around a pipe, tube, or flange's outside diameter (O.D.), prior to machining.

Saudi Hydro is equipped with systems ranging from 2" to 60" and the adept crew can handle almost all critical jobs demanding special skill and experience. Saudi Hydro is capable of providing enough number of crews to meet any critical shutdown activities.



IN HOUSE PRECISION MACHINING SERVICES

Our in-shop turning services provide precise and effective solutions for your industrial components by using cutting-edge machinery run by qualified professionals. Whether it's contour, taper, or cylindrical turning, we emphasize precision first to satisfy your requirements. Our commitment to quality ensures that your components receive the attention to detail they deserve, with the added benefit of streamlined processes within our controlled environment.

At Saudi Hydro Dynamics, we deliver turning services that exceed industry standards, enhancing the performance and durability of your machined parts. Choose us for in-shop turning excellence, where innovation and expertise come together to bring your projects to fruition with precision and reliability.

Reliable leadership in

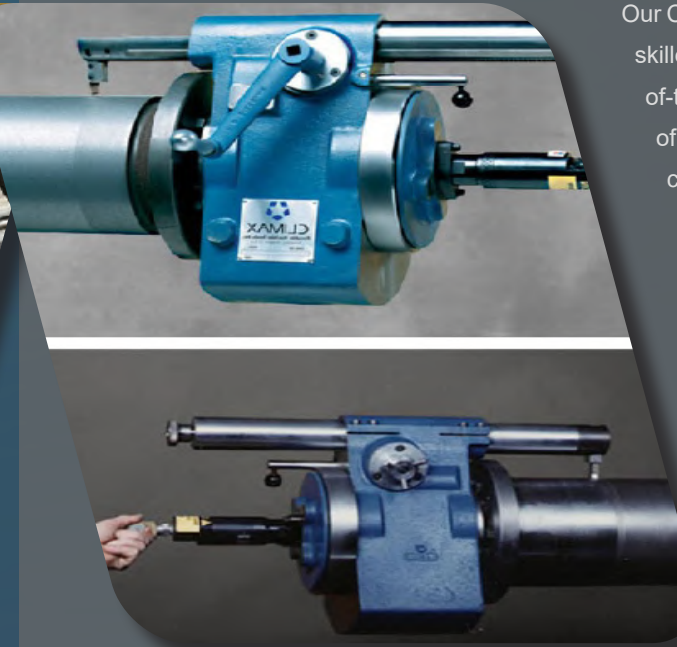
ON SITE AND INHOUSE MACHINING

MILLING

Our onsite milling expertise brings cutting-edge technology and skilled professionals directly to your facility, eliminating the logistical challenges of transporting large components.

Whether it's profiling, contouring, or custom milling, our on-site solutions are tailored to your specific needs, ensuring top-tier results without compromise.

Equipped with advanced portable milling equipment, we uphold the highest standards of accuracy and efficiency. Saudi Hydrodynamics takes pride in delivering superior on-site milling, saving you time and ensuring the quality your industrial projects demand. Choose us for a seamless blend of convenience and precision, where our commitment to excellence transforms your on-site milling requirements into a reality that exceeds expectations.



CYLINDRICAL GRINDING

Our Cylindrical grinding service represents a fusion of cutting-edge technology, skilled craftsmanship, and unwavering commitment to excellence. Our state-of-the-art machinery, operated by highly trained technicians, is the heartbeat of a service designed to elevate the shaping and finishing of cylindrical components to an art form.

Whether you require precision grinding for shafts, cylinders, or other cylindrical parts, our dedicated team delivers superior results.

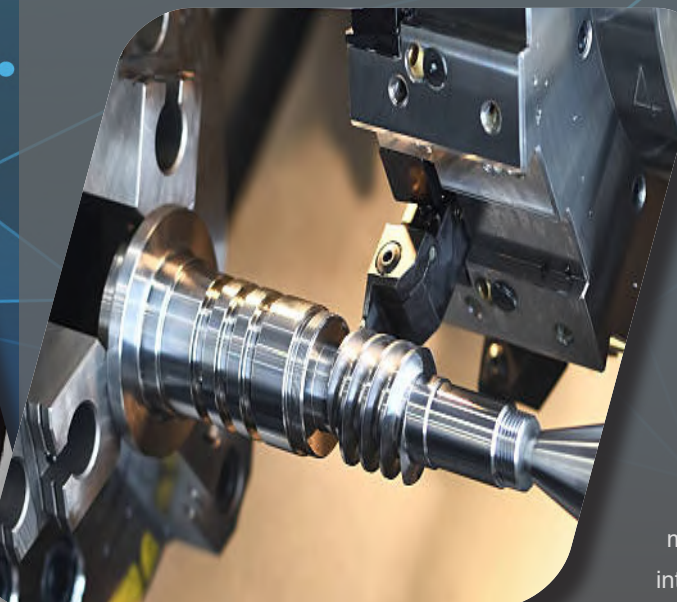
At the core of our cylindrical grinding offering is a dedication to achieving exact tolerances and impeccable surface finishes. This meticulous approach ensures that whether it's standard shafts, intricate cylinders, or custom-designed components, each piece undergoes a process tailored to meet the unique specifications of your project.

BORING, BURNISHING THREADING

Our specialized services in Boring, Threading, and Burnishing redefine industry standards. With state-of-the-art equipment and a skilled team, our Onsite Boring services guarantee accurate resizing, aligning, and custom bores without the hassle of component transportation.

Threading services deliver perfectly crafted threads, whether standard or customized, ensuring optimal functionality for your projects. Our Burnishing services provide superior surface finishes, enhancing component performance and longevity.

At Saudi Hydrodynamics, we bring the workshop to you, offering seamless solutions tailored to your specific needs. Choose us for Boring, Threading, and Burnishing expertise that elevates the precision and efficiency of your industrial components.



ALL TYPES OF MACHINING AND FABRICATIONS

At Saudi hydrodynamics, we redefine excellence in all types of machining and fabrications. Our comprehensive service encompasses a wide array of machining and fabrication solutions, providing a one-stop-shop for your industrial needs. Whether it's precision machining, turning, milling, or intricate fabrication projects, our skilled team and cutting-edge technology ensure the highest quality outcomes.

From concept to completion, Saudi hydro dynamics is your reliable partner, offering customized solutions to meet diverse specifications. With a commitment to innovation and precision, we excel in delivering components that exceed industry standards. Trust us for all your machining and fabrication requirements and experience the seamless integration of expertise and technology for unparalleled results.

Inherited excellence in

SPECIAL AND UNIQUE SERVICES

HYDRO COLD CUTTING TECHNOLOGY

In situations where a risk of hydrocarbons being present rules out any hot cutting, Saudi Hydro have the absolute safest method of hydro cold cutting where water acts as the cutting tool. Water jet cold cutting method is fast, safe, and efficient and this will help in reducing exposure of Pyrophoric contents to the air while cutting a pipeline or vessel.

Saudi hydro's full-fledged equipment fleet along with specially trained, certified and experienced team have been providing high precision hydro cold cutting services for the past three decades in the kingdom, which is the safest, faster, accurate, and environment friendly for the demolition of plant facilities, bottom plates removal of process storage tanks like crude oil or flammable materials storage tanks, providing access to tanks and columns, removing refractory; both internal and external, concrete cutting and scrabbling.



CONCRETE HYDRO DEMOLITION TECHNOLOGY

Hydro demolition is an efficient means of removing de-laminated or unsound concrete from structure.

The Hydro-demolition method of concrete removal is non-vibration and does not affect existing structure, unlike other conventional methods such as jack hammering etc. Hydro demolition causes no damage to existing reinforcement, leaving a perfect skeletal frame to replace the new concrete and no micro or macro cracks are formed during demolition. It is also possible to cut right through the concrete and reinforcement to varying depth using water abrasive cold cutting system.

Saudi Hydro employs many methods of hydro demolition ranging from hand held jetting lances to advanced robotic systems. We will design our own systems to suit your needs and we have the necessary experience for determining the right methods for the client.

DECOMMISSIONING OF FLAMMABLE STORAGE TANKS, COLUMNS, DRUMS

Saudi Hydro's specially trained and experienced team is proficient to provide reliable and cost effective decommissioning and demolition services as well as the dismantling of mobile equipment customized to meet client requirement.

Our decommissioning projects are always stringently planned to ensure the project is completed safely, in the most cost effective manner and in compliance with legislative requirements and industry best practice.

Saudi Hydro offers Decommissioning/ dismantling non-operational Gas/ Refineries and its equipment systems, tanks, drums in safest and fastest manner by Hydro cold cutting method instead of traditional method. The waterjet cutting technique, often referred to as hydro cold cutting, has emerged as one of the safest ways to decommission dangerous Vessels, Drums, Tanks and Het Exchnagers.



DEMOLITION AND REMOVAL OF CHOKED POLYMER LUMPS

In certain circumstances, the process material inside the pipelines, drums, exchangers, and reactors may solidify and form polymer lumps. This process material that has been toughened may have developed because of changes in operational parameters or the presence of contaminants. The removal of such hardened process products, which are frequently found as lumps inside the vessels, is typically difficult and time-consuming when done using traditional high pressure water jetting.

With the use of specialized, ultra high pressure water jet cutting devices, Saudi Hydro can handle such circumstances with the support of customized nozzles. Saudi Hydro can provide high pressure demolition services in such situations where a high volume waterjet with a discharge up to 200LPM is capable of breaking down the bonds between polymers to make it possible to remove polymer lumps while avoiding damage to the exchanger shell or tubes or to the vessel.

TESTIMONIALS

"Saudi Aramco WR Terminal Maintenance Division take this opportunity to appreciate Saudi Hydrodynamics for the successful and safe completion of bottom plates cutting of Rabigh 1 Million BBL. Tank F-56T-01 using Ultra High Pressure Water jet Cold cutting during shutdown."

Mohammad M Al-Hazmi,
Superintendent, Saudi Aramco WR Terminal Division, Yanbu



"We wholeheartedly appreciate the team of Saudi Hydrodynamics for their outstanding performance and the successful completion of maintenance activity in First Pass of Boiler Unit 01 during shutdown."

Mohammed Abu Halal,
Plant General Manager. SQIWPP. Shuqaiq

"Saudi Aramco would like to appreciate Saudi Hydrodynamics Co Ltd for their valuable contribution for the safe and successful completion of major T&I of ShGP GT-4."

Yasser M Al-Yahya,
ShGP Maintenance Superintendent. Shedgum.

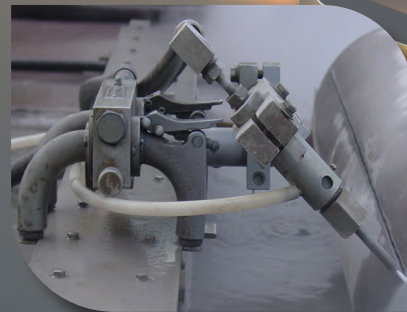


"Highly appreciate the excellent High-Pressure Water Jet Cold Cutting job (Removal/ Repair of the Bottom Plate of Upper CHSU at the Leaked Well Head) accomplished at KARAN-45, successfully, safely and timely, for Saudi Aramco Drilling Department. Saudi Aramco admire Saudi Hydrodynamic Co. Ltd.'s ingenuity in creating that outstanding performance, duties, responsibilities and prodigious knowledge about the job."

Donald Whiteside,
Sr Drilling Foreman/ Saudi Aramco Drilling Unit

"Sadaf appreciates Saudi Hydrodynamics for their great effort in successfully carrying out the hydro cold cutting of 27E6 header line as per the requirement and specification safely and sufficiently"

K M Al-Gannam
Maintenance Superintendent Sadaf, Jubail



CLIENTELE



Disclaimer: All trademarks (including pictures, logos and icons) referenced by Saudi Hydrodynamics remain the property of their respective owners. All references by Saudi hydrodynamics to client/ third party trademarks are to identify the corresponding clients/ third party and intended to constitute nominative fair use under applicable trademark laws.

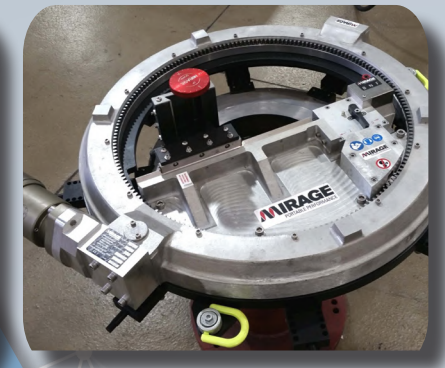
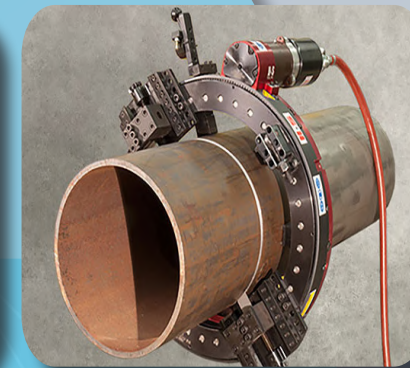
www.saudihydro.com

info@saudihydro.com

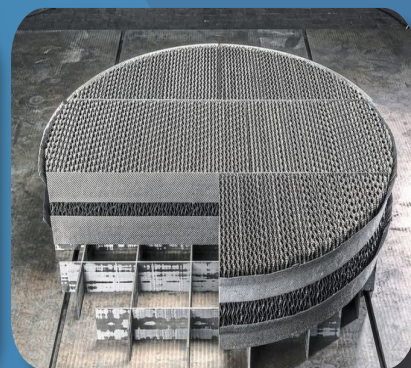
PICTURE GALLERY



Shell and Tube Heat Exchanger Overhauling and Repair Services



Hydraulic Bolt Torquing and Tensioning, Pneumatic Cold Cutting and Flange Facing Services



Vessels, Columns, Tanks, Sump Pits, Cleaning and Repair Services



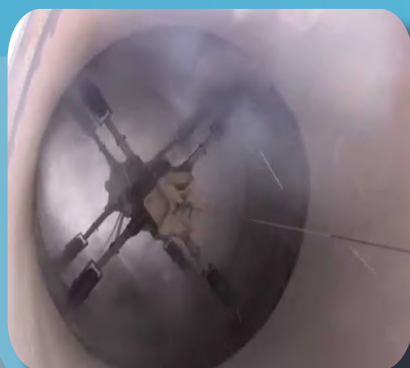
Automated Tank Cleaning, Tube Internal Mechanical Cleaning and Micro grit Blasting



Hydro jetting (MHP, UHP), Decontamination/ Chemical Cleaning and Vacuuming Services



Demolition of Concrete by Robotic Method and Hydro Cold Cutting Method



Pipeline Aqua-milling (RDR), Tube De-blocking, and UHP Surface Preparation Services



Hydro Cold Cutting and Decommissioning of Flammable Vessels/ Columns by Hydro Cold Cutting

Disclaimer: All trademarks (including pictures, logos and icons) referenced by Saudi Hydrodynamics remain the property of their respective owners. All references by Saudi hydrodynamics to client/ third party trademarks are to identify the corresponding clients/ third party and intended to constitute nominative fair use under applicable trademark laws.

info@saudihydro.com

www.saudihydro.com

Disclaimer: All trademarks (including pictures, logos and icons) referenced by Saudi Hydrodynamics remain the property of their respective owners. All references by Saudi hydrodynamics to client/ third party trademarks are to identify the corresponding clients/ third party and intended to constitute nominative fair use under applicable trademark laws.

ON GOING MID FORM PROJECTS

Contract Type	Contract No.	Title	Other Disciplines Involved	Job Remarks	Plant
Mid Form	6511013245	T&I 's of Reboilers at Abqaiq Plants	Mechanical activities covering, isolation, removal of heads, spools, removal and re-installation of tube bundle, welding repair, blasting and coating of internals, hydro jetting, box-up, hydro test, hydraulic torqueing.	Ongoing project for continuous heat exchanger overhauling plant wide.	Abqaiq Plants
Mid Form	6511047119	Continous maintenenece services for GT1&2	Mechanical activities covering, isolation, filter drum overhauling, hydrocarbon strainers overhauling, hydraulic torqueing and other associated mechanical activities	Ongoing project for continuous maintenance activities at Gas Treat 1 and 2.	Shaybah NGL
Mid Form	6511043363	Torquing and Tensioning for plant-wide T&Is	Plant-wide torqueing and tensioning for T&Is.	Ongoing project for torquing and tensioning services for plantwide T&Is	Uthmaniyah Gas Plant
Mid Form	6511041377	Mechanical Cleaning @ T&I's area @ HGP	Cleaning of tube internal using pneumatic mechanical cleaning device, including brushes, drills. Covers both wet and dry cleaning methods.	Ongoing project for mechanical cleaning of tube internal for plant wide exchangers.	Hawiyah Gas Plant
Mid Form	6511092580	Tube Bundle Pulling/ Re-installing	Cleaning of tube bundle and shell internal.	Ongoing project for pulling, cleaning and re-installing of various tube bundles at SRUs, RMUs, HPDG/TEG, and GTs.	Shedgum Gas Plant
Mid Form	6511091018	Mechanical Cleaning of Tubes	Cleaning of tube internal using pneumatic mechanical cleaning device, including brushes, drills. Covers both wet and dry cleaning methods.	Ongoing project for mechanical cleaning of tube internal for plant wide exchangers.	Haradh Gas Plant
Mid Form	6511093437	Mechanical Cleaning of Tubes	Cleaning of tube internal using pneumatic mechanical cleaning device, including brushes, drills. Covers both wet and dry cleaning methods.	Ongoing project for mechanical cleaning of tube internal for plant wide exchangers.	Shedgum Gas Plant
Mid Form	6511097911	Mechanical Cleaning of Tubes	Cleaning of tube internal using pneumatic mechanical cleaning device, including brushes, drills. Covers both wet and dry cleaning methods.	Ongoing project for mechanical cleaning of tube internal for plant wide exchangers.	Berri Gas Plant Wasit Gas Plant Kursaniyah GP Fadhili GP
Mid Form	6511131850	Flange Facing Services	Performing flng facing services for flange sizes ranging from 2" to 60"	Ongoing project for flange facing services for plant wide requirements.	Wasit Gas Plant

VENDOR REGISTRATIONS OF MAJOR CLIENTS

Oil & Gas and Petrochemical

Saudi Aramco	10006222
Sabic	502406
Ma'aden	13798
KJO	103452
S-Chem	125904
Satorp	11052
Tasnee	102108
Sasref	1002481
Sipchem	101147
Yasref	101061

Utility and Power Generation

SWCC	3514
SEC	50000550
Marafiq	4208
Nomac	20681



SCAN CODE



ADD TO CONTACT



COMPANY BROCHURE

Saudi Hydrodynamics Co. Ltd

P.O. Box 8099, Dammam 31482, Kingdom of Saudi Arabia

Mob: +966 50 482 1026, Tel: +966 13 384 6894, Email: info@saudihydro.com, Web: www.saudihydro.com