

COMPANY PROFILE

Sub / Supply Equipment to Exploration, Drilling company.



Dear Sir

Hi-Tech Trading Company LLC is based in Dubai and it is one of the Al Raki group of companies. Our group of companies has been operating in the oil and gas field since 1992, and has extensive experience and a wide range of skills to present to clients. We supply equipment for all stages of the work, and we work with customers to find the best way to meet their requirements. Our supplies and skills with customer support start in exploration and drilling, and continue through extraction, storage, transportation using pipelines or conveyors, refining and distribution.

Our clients include most of the region's international oil companies, government and private companies, and support companies across the industry.

Our companies have supplied a full range of equipment to the oil and gas industry, including exploration equipment such as vibrators and seismic recorders; Drilling rigs and spare parts. Measuring and recording devices for recording; Pipes, valves and fittings for pipelines; Refinery equipment such as distillation towers and specialized pumps; Pumps and distribution lines. And gasoline pumps and storage tanks for distribution and gas filling companies. We also supply chemicals to drilling and refining companies.

In addition to the specialized needs of the oil and gas industry, we also deal with many of their general requirements, such as tools, steel fabrication, motors, power generation, compressors, workshop equipment including compressors, heavy equipment, personal production, fire equipment, laboratory and test equipment, chemicals, dust removal, filtration and oily water treatment equipment. Inspection and measuring devices, tank cleaning, packing lines and foodstuffs. We also supply common requirements for pumps, tubes, clamps, hoses, nozzles, valves, fittings, joints, fastening, sealing, cables and accessories.

One of our companies has its own storage facilities, which support our separate business in trading of crude oil and petroleum products, which we conduct throughout the region.

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Our Range of Supply:

1. Exploration Equipment:



We supply equipment to **survey, test drill, sample and log**. We also supply the necessary laboratory equipment and software to **interpret** the data, and we understand that exploration often has to happen in **difficult conditions** and tough terrain, so we support our customers in any situation, providing the necessary equipment such as heavy specialized equipment, trucks, cranes, staff accommodation, and even telecom systems

1.1 Geophysical Survey Equipment Including:

Exploration for oil, gas and water uses the following methods, which vary according the search and the terrain. We supply all the necessary equipment for the following methods:

- **Seismic:** for fan shooting or refraction method. These include vibrator, special explosion material for exploration, geophone, cables, central oscillography and recorder,
- **Electrical resistivity:** we supply the voltage and current electrodes and distribute them following the processes of 1. Wenner, 2. Schlumberger, or 3. dipole-dipole array.
- **Gravity:** to discover the fault location, and the cracks and hardness in the formations
- **Magnetic:** to discover the fault location, and the cracks and hardness in the formations, and to study the water formations held by basalt or magnetic rock.
- **Thermal:** to find water near the surface.

1.2 Test Drilling:

We supply test drilling rigs, including cable, rotary drilling and jet drilling machines. Our supply includes all accessories and spare parts.

1.3 Sampling:



We supply oil and gas sampling equipment which can work with rotating drilling rigs, and all other kinds of rigs. The samplers include both open drive and piston types, including all spare parts, compressors and all accessories



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2. Drilling Equipment:

We supply the entire range of equipment for drilling, including the rigs, as well as rock bits, heavy and light drill pipe, wellheads, casing, cementing, wirelines, acidizing, mud pumps, coil tubing, oil separator, and mud material. We also supply all the equipment and software to help the customers analyse the data and decide where to place their wells. Drilling also requires special telecommunication equipment, accommodation and even regular food supplies if required, and fuel for the equipment.

2.1 Drilling Rigs:



We supply drilling rigs and horizontal drilling machine for both oil and gas, as well as water (according to requirements), and the digging equipment as required by the formation and planned depth of the well for:

- Production wells
- Recharge wells
- Inspection wells
- Deep wells
- Rotary Drilling Machine
- Reverse Rotary Drilling Rig

All these three kinds of wells need different rigs to make:
 • Cable Tools
 And other wells like:

- Dug Wells
- Driven wells
- Bored Wells
- Injected Wells
- Horizontal Wells
- Tube or vertical wells
- Star Wells or radial collector Wells

Drilling requirements for these wells include:

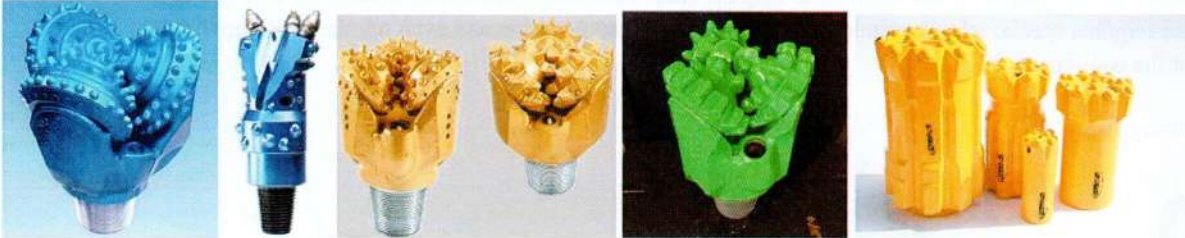
- Heavy and Light Weight Drill Pipe
- Conductor Pipe
- Drill collar
- Shock sub
- String stabilizer
- String stabilize
- String heavy weight drill pipe near bit stabilizer

2.2 Wire Line Unit:



We supply wireline units from different suppliers, with both the wire and measuring unit varying according to the well requirements.

2.3 Rock Bits:



We supply all kinds of drill bits according to the size of the drill pipe and the well, the formation through which it is being drilled, and the product that is in the well.

These include

- Tungsten carbide insert bits
- Rock roller bits with sealed bearing
- Steel tooth bits
- Soft formation drill bits
- Flat tooth

2.4 Pipe Casing:



We supply the different pipe casings and screens needed for oil wells, gas well, or water wells. The casing also varies according to the diameter, formation, product, and pumping rate.

The material for the casing includes:

- Carbon steel
- Alloy steel
- Brass
- Iron
- Copper
- Stainless steel
- Asbestos
- Monel super nickel
- Silicone
- Everdure silicone-bronze

If there is a requirement for a water well, we can supply the different kinds of screens and perforations such as:

- Ashford
- Cook
- Brownile
- Tej
- Bowler
- Esbee
- Layne
- Phoenix



2.5 Cementing Unit:



We supply cementing units, along with the mixer, agitator and pump, with cement and additives.

2.6 Acidizing pumping unit & accessories and spare part:



We supply acidizing units include deck (engine and transmission), displacement tank, triplex pump, hose, boost/filling centrifugal pump, mixing system and control system with spares part.

2.7 Wellhead and Christmas tree:



We supply high pressure choke valves and fittings according to the well reserve and pressure up to 6,000 psi

2.8 Mud pump with spare:



We cover complete range of triplex pump from 300Hp to 2200Hp powered by diesel engine sound proof shelter available along with spare part.



2.9 Coil Tubing:



2.10 Oil Separator:



We can supply test separator skid mounted and trailer mounted the manifold, pump, lab equipment, generator and all the accessories.

3. Logging:



We supply the whole range of measurement and logging instruments, which can be used the many different methods required for either water, or oil and gas. These methods of logging include:

- | | | |
|-----------------------------------|-----------------------|---------------------|
| • Driller logs | • Drilling time logs | • Dowsing |
| • Geological logs | • Well logging | • Gamma-ray logging |
| • Geophysical logging | • Resistivity logging | • Neutron logging |
| • Potential logging | • Temperature logging | • Caliper logging |
| The instruments we supply include | | |
| • Graphical prop | • Potentiometer | • Gamma detector |
| • Recording resistance instrument | • Thermometer | |



3. General Supplies:

a. Instrument:



The instruments that we supply cover the entire range of the processes in the oil and gas industry, including exploration, drilling, pipeline, refineries, distribution, gas filling, and oil transport. The instruments are for both the operating and maintenance of the plant.

- RTU/SCADA systems
- Gas Flow Measurement
- Totalizer
- Vibration meter
- Leakage detector
- Drilling meters
- Process control equipment
- Gauges (level, pressure, vacuum and temperature)
- Metering (Turbine, positive displacements, rotameter, ultrasonic, vortex and electromagnetic)
- Cathodic protection with all accessories
- Natural Gas Automation
- Thermocouple
- Electrical heater
- Tachometer
- Flow monitoring
- Data recording
- Transmitters (level, pressure and temperature)
- Limit switches (level, flow and load)

We also supply the necessary software for analysis and interpretation of the results.

3.1 Steel Fabrication:

We manufacturer and fabricate storage tanks, equipment, steel structures, and all equipment for crude oil and oil products loading and terminals both onshore and offshore.

i. Storage Tanks:



We supply and manufacture

- Steel tank for crude oil, diesel, fuel, jet fuel, base oil, lubricant and gas with various capacities made to suit the needs of projects requirement with or without steam jackets and insulation. All our tanks have the required inspection facilities for their proper maintenance and cleaning.
- Chemical and petrochemical storage tank made from stainless steel, carbon steel, and coated with rubber or other material according to the customer requirement include the lining material such as rubber, Teflon, bricks or mortar.



- Truck mounted tank for crude oil and oil products such as fuel, diesel, petrol, bitumen, base oil, and lubricant, and gas. All with pump and flow meter.
- Fire-fighting water tank with all accessories
- Truck mounted drinking water tank with pump and flowmeter
- Cathodic protection
- Pipeline
- Pumping station
- Fire-fighting system

ii. Oil Loading & Equipment :



We manufacturer and supply the equipment for loading stations and terminals for crude oil and oil products, which include:

- Top and bottom loading arms with flow meter and flow control
- Tanker loading system
- Tanker loading gantries and folding stairs
- Safe tanker platforms and fail-prevention system
- Pumping station

Equipment manufacturing and maintenance

- Boiler
- Heat exchanger
- Filling system



iii. Motors, Engine and Electrical Materials:

We supply a wide range of motors to the oil and gas sector companies engaged in drilling, refineries, gas filling, distribution. The motors include high and low voltage, single phase and 3-phase, vertical and horizontal. Engines are operated by either diesel or fuel, and can be either air or water cooled.

Our motors include:

❖ **AC motors:**



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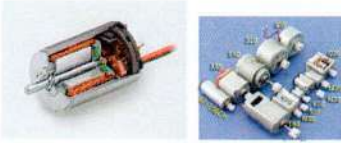
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- High voltage, low voltage motor, single phase, 3-phase
- AC servo motor Vertical and Horizontal.

❖ **DC motors:**



- Brushless DC motors
- Liner DC motors
- DC servo motors

❖ **Engines:**



- Capacity ranges from 100 HP to 2,200 HP
- Powered by diesel or fuel
- With sound proof shelters
- Skid or trailer mounted
- Water or air cooled

iv. **Electrical Materials:**



These materials have to meet varying requirement of operating outdoors and indoors

- Water Proofing
- Heat Resistance
- High Voltage and Low Voltage
- They include
- Electrical panel
- Circuit breaker
- Relay
- Switch gear



v. Cables:



High, Medium and Low voltage and fiber optic with all accessory.

vi. Poles:



Lighting pole and lighting tower with accessories

vii. Transformer:



- Power, auto transformer
- Voltage transformer
- Automatic Voltage Regulators (AVR)
- Distribution transformer
- Special transformer
- Current transformer
- Solar transformer

Viii. Power Generation Plants:



- Water, thermal, fuel and gas generation unit
- Wind energy system
- Solar energy system



Generator:



- Diesel engine water cooled mobile and skid mounted
- Diesel engine air cooled mobile and skid mounted
- Solar generator

ix. Compressors (Electrical and Diesel Engine):



The compressors we supply to the oil and gas sector need to be able to operate both outdoor and indoor, and be able to work in both high and low temperatures. They are able to meet all the requirements of the oil and gas industry, including working in the most extreme environments like the desert. We also supply the necessary heaters and driers to go with the compressors.

Our range includes:

- Mobile air compressor with diesel engine
- Skid mounted air compressor with electrical motor high and low voltage for industrial and medical use
- Air dryer

x. Workshop Equipment:

We specialize in workshop supply, both mobile and permanent.

Mobile workshops include those that operate on site on the rigs and refineries, often used for maintenance. One example is the high pressure hose fixing workshop that conducts mobile valve tests with all accessories including a hydrostatic test bench.

Permanent workshops vary from site to site, some very large with very sophisticated equipment, and others are much smaller devoted to routine maintenance.

The equipment we supply for these workshops include:

X.1 Welding Equipment:



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X.1.1 Welding Machine:



Electrical welding machine with different capacities, both single and multi-machine:

- 3-Phase
- Single Phase
- Circular
- Tractor Type

X.1.2 Argon Welding Machine:



X.1.3 Diesel Welding Machine (air cooled and water cooled engine):



X.1.4 Welding Material:



- Electrode
- Stainless steel (304,308,316L.... etc.).
- Alloy
- Under water cutting Electrode
- Carbon steel welding (E6013 ,7018 ,6010,7010.... etc.).
- Copper
- Under water welding
- Argon wire
- Welding consumables:
- Cable
- Holder
- Welding electrode dryer
- Wire
- Welding electrode oven
- Torch
- Glass
- Nozzle
- Gloves



- Helmet
- Welding inspection material
- X- ray inspection
- Die penetration inspection material

X.2 CNC Machine:



X.3 Lathe Machine:



X.4 Bending and Beveling Machine:

We supply pipe bending machines of all sizes and radius, that can handle different materials.

- ❖ Pipe beveling machine



- ❖ Pipe threading machine

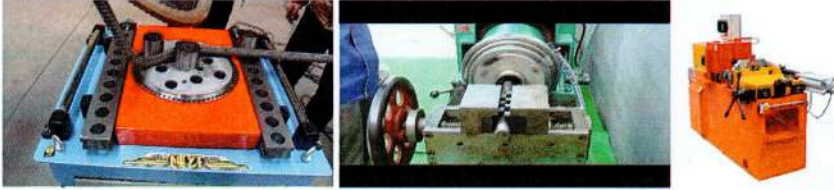


- ❖ Pipe bending machine



❖ Steel bar bending and threading machine

The machines we supply can automatically feed, straighten, bend and cut all ranges of rebar.



• Pipe coating equipment



❖ Heat exchanger maintenance equipment



These include:

- Tube cutter
- Tube expander
- Tube puller
- Torque controller

X.5 Plate Cutting and Bending Machine:



We supply cutting and bending machines which handle all thickness and dimensions and materials such as carbon steel, alloy, stainless steel, copper, galvanized steel, etc. The work is for high pressure tanks and pipes required by the oil and gas industry, including the spherical tanks for gas, and LPG gas cylinders for domestic use.

X.6 Heavy Equipment, Truck and Tanker:



- Helmet
- Welding inspection material
- X- ray inspection
- Die penetration inspection material

X.2 CNC Machine:



X.3 Lathe Machine:



X.4 Bending and Beveling Machine:

We supply pipe bending machines of all sizes and radius, that can handle different materials.

- ❖ Pipe beveling machine



- ❖ Pipe threading machine



- ❖ Pipe bending machine



Our range of supply includes the whole range of heavy equipment that can deliver and install all kinds of pipeline projects, and water treatment projects, including water tankers, fire fighting tankers, and light cars and trucks.

Excavator 	• Wheel loader  	• Back hoe loader 	• Bulldozer 	• Side boom  
• Fork lift 	• Tower and mobile crane  	• Heavy and light truck  	• Cement tanker 	• Tipper truck 
• Fuel tanker 	• Chemical tanker 	• Foam tanker  	• Bus 	• Pick-up  
• Bitumen tanker 	• Fire-fighting Water tanker 			



X.8 Personal Protection Equipment (PPE) and Fire Systems:

We can supply the entire range fire protection systems for the oil and gas industry, and we are used to operating to the very high standards that the oil and gas industry requires. We also supply specialized personal safety clothing for all aspects of work

X.8.1 Personal Clothing and Equipment:



- Complete head and body protection
- Overalls, variously adapted for oil, gas, and other sites
- High-viz vests
- Gas masks
- Breathing masks to protect against dust, etc.
- Survival suits
- Gloves
- Safety boots and shoes
- Protection glasses
- Ear protectors
- Helmets

X.8.2 Firefighting Systems and Equipment



- Fire-fighting water pumps with electrical and diesel motor
- Fire extinguishers
- Fire alarm systems
- Signal, control and communications equipment
- Safety equipment for hazardous areas
- Portable multi-gas detector
- Nitrogen gas detector
- Hoses
- Warning cones and situation tape
- Foam systems
- Fire-fighting vehicles and equipment
- Explosion proof alarm
- Re-breathing systems
- Gas and safety monitoring and control
- Smoke detector
- Leakage detector
- Nozzles

X.9 Testing and Laboratory Equipment



Our range of products includes instruments and equipment for oil, chemical, biological, electrical, mechanical, civil, agricultural, and medical laboratories. The oil and gas business requires a huge range of regular tests across the entire spectrum of activity.



Much of our supplies go to support oil companies' activities, but we also supply specialist customers like the oil institutes where they train students in the oil business and need the full range of our equipment.

Our portfolio includes:

- PH meter
- Soil and rocks testing devices
- Stirring, shaking, mixing and separating systems
- Mineral test instruments
- Thermometer
- Cement and concrete testing devices
- Radiation test instruments
- Spectrometer
- Chemical test instruments
- Biological test instruments

X.10 Chemical Materials



Our range of chemical and mud material supports the oil industry's drilling, refining, pipelines, and gas filling. We supply the chemicals to treat crude oil and oil products in the refineries, and the chemicals that are required by the existing laboratories.

The oil business has extensive use of water, so we also supply the chemicals to treat water to oil companies.

Chemical materials we supply include:

- De-emulsifier
- Tetra ethyl lead (TEL)
- Citric acid
- Nitric acid
- Corrosion inhibitor etc.
- Caustic soda
- Phosphoric acid
- Acetic acid
- Oxygen scavenger
- Soda ash
- Sulfuric acid
- Hydrochloric acid
- H₂S scavenger

Mud and Cement Materials



• Bentonite



• Kaolin



• Barite



• Clay



• Cement etc.

For water and cleaning agents:

- Ethylene diamine tetra acetic acid (EDDA)
- Sodium Tri polyphosphate (Na₅P₃O₁₀)
- Proteolytic Enzymes
- Sodium Ortho silicate (2Na₂SiO₂.5H₂O)
- Borax
- Ethyl
- Lactic acid
- Alkyl aryl sulphonate (Dodecyl benzene sulphonate)
- Non-ionic surfactants
- Tetra sodium Pyrophosphate (Na₄P₂O₇)
- Sodium tetra polyphosphate (Na₆P₄O₁₃)
- Lipolytic Enzymes
- Met sodium meta silicate (Na₂SiO₃.5H₂O)
- Methyl
- Bromil Al amen
- Gluconic acid
- Cationic surfactants
- Poly-ethenoxy-ethers

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- Polyoxy-non-ethylated phenol

X.11 De-dusting and Filtration:



We supply 1. all equipment for all kinds of filter that clean the oil and gas products and make them ready for processing, and 2. de-dusting systems that are vital to keep all equipment running and avoid corrosion and blockage.

We supply equipment and parts for all kinds of **separators** which separate water from oil and gas, or gas from oil, and different kinds and sizes of steam and sand traps.

We also supply different kinds of oil **skimmer**, depending on the customers' requirements.

We supply many sizes and kinds of **filters** used in the oil and gas industry in the refineries, pumping stations, pipelines, etc

We supply equipment for both wet and dry de-dusting systems:

- Wet process needs complete systems including fans, water tanks, water pumps, nozzles and cyclone, etc.
- Dry process needs complete systems including filter bag, wire mesh along with a shaking system, with specifications varying on specific purpose

X.12 Treatment of Oily Water:



We supply complete systems to recover oil and oil products which have mixed with water. These include systems relying on heating, evaporation, and condensation to separate the liquids, along with the required pipes, pumps, insulation, water tank, and product tank, etc.

We also supply equipment for the treatment of drinking water to the projects for either catering needs or industrial purposes.



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X.13 Inspection and Measuring Equipment:



We supply for inspection, measuring and calibrating all kinds of equipment, including drilling rigs, pipes, tanks, turbines, heat-exchangers, distillation and cooling towers, engines and machinery. For example, for **drilling rigs** we supply a team to inspect and detect the efficiency of the instruments and electrical parts in the rigs. For **pipelines**, we inspect and supply the equipment to test the thickness, find cracks, measure inner sludge, flow, integrity of welding joints, and hydrostatic inspection for all kinds of valves whether in refinery, pipeline or pumping stations. For **tanks**, we supply equipment for and inspect the insulation, plate thickness, cracks, and sludge inside the tank, as well as the outer and inner coating. This includes different kinds and sizes of tank provers, some skid mounted or mobile. For **heat-exchangers** we supply the equipment and inspect for the maintenance and repair to either damage in the shell or blockage in the tube. For **distillation towers** we measure the efficiency of the tower, and if there is any defect we supply equipment for repair and maintenance.

X.14 Tank Cleaning:



We supply the equipment with different technologies. We offer the chemicals and material for the both the chemical and mechanical processes. We recommend the new technology of the mechanical process that removes the sludge from the tanks and re-uses it as a raw product to be re-processed into a finished product. We supply all the materials and chemicals for the chemical process, as well as the mixing system including the pump, hose, and nozzle; as well as the system to remove the water and the ash from the tank and send to industrial waste water treatment.

X.15 Filling lines with packaging materials:



We supply the equipment to build and operate filling lines in terminals, petrol stations, and packaging stations.

- ❖ **Terminals** need us to build structures of the loading stations like platforms and gantries, as well as installing the loading arms and flow meters.
- ❖ **Petrol stations** handle a variety of product, all of which need to be both delivered to the station in bulk and then delivered to the customers.
- ❖ **Gas filling** companies need filling systems for gas cylinders.
- ❖ **Manufacturers of:**
 - **Bitumen** need filling systems with in-built heating systems to fill their tankers.
 - **Lubricant** need filling systems to fill their containers.
 - **Engine oil** need filling system for drums, cans and bottles.
 - **Brake fluid** and **hydraulic fluid** need filling system for drums, cans and bottles.
- ❖ **Filling and packaging stations** needs a wide range of specialist equipment.
 - At the bulk level, we supply **flexibags** of up to 20 tons.
 - We supply the production line to make **steel drums**, which includes cutting, bending, welding, paint, and testing. We also supply the raw material like plate and workshop equipment
 - We can design the **bottles** and **plastic drums** according to the customers' requirements, produce the dies to make the bottles, supply the bottle production lines including the raw material tank and filling lines including filling, capping, labelling, and stamping of production and expiry date.

We also provide the equipment to package containers in groups with polyethylene shrink or carton.

- Shrink Wrapping Machine
- Carton Packing Machine
- Pallets and Stacking Equipment
- The delivery equipment includes
- Delivery trucks with racks
- Loading and unloading equipment

X.16 Foodstuff:

One of the companies in the Group has extensive experience of manufacturing, packaging and trading foodstuffs. It is very experienced in supplying food to labor camps and large company canteens, in both bulk, raw, and pre-prepared meals.

4. Common Supplies:

4.1 Pumps:



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We have a very wide range of vertical, horizontal, or deep well pumps, which can be multistage and single stage, which we supply along with diesel engine or electrical motor high and low voltage operated by air or solar. The pumps come mobile or skid-mounted with sound proof shelter:

- Centrifugal
- Booster
- Radial, Axial, And Mixed Flow
- Submersible for sewage and clear water and deep well
- Vacuum
- Reciprocating
- Dosing
- Adductor-Jet
- Gear
- Self-priming
- Metering
- Gravity
- Valve-less
- Piston

Our range of activities covers the following industries: oil and gas, metallic and non-metallic minerals, water (drilling and treatment), cement, chemical and petrochemical, fertilizer (with a special pump for urea and phosphoric acid), power production and distribution, food processing and packaging.

The material of the pumps that we supply cover all the customers' activities, so we can supply pumps of stainless steel, carbon steel, PVC, rubber lined; and coated with rubber, Teflon or PVC.

Sizes start from half an inch up to one meter, and larger on occasion if the customer requires different capacities.

Our pumps operate in all conditions. For cold areas we offer steam jackets with different insulation, and other pumps that work in very hot temperatures.

Every industry and each specific purpose requires variations in the pumps, with different materials for the pumps' impeller, casing and shaft.

i.Engine and Motor:



Pumps are driven by diesel or petrol engine, electrical AC or DC motor, or air. Increasingly electrical pumps are powered by solar power.

- **Diesel and petrol engine:** Air or and water cooled. Mobile and skid mounted.



- **Electrical motor:** High and low voltage motor. Vertical or horizontal.
- **Solar panel:** Pump driven by solar power with different capacities
- **Air pump:** Compressors and all accessories



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4.1.2:

All our pumps are supplied with full spare parts and maintenance

❖ **Mechanical seal**



- Rubber mechanical seal
- Anti-acid mechanical seal

- Teflon mechanical seal
- Double side mechanical seal

- Thermal mechanical seal

❖ **Gland packing**

- Teflon
- Graphite

❖ **Impelle**



- Open and closed type

❖ **Shaft**

- Carbon Steel
- Alloy Steel
- Stainless Steel
- Copper

Coupling and Belt



- Mechanical
- Driven belt between motor, engine and pump
- Hydraulic
- V-Belt



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4.2 Pipes, Clamps, Pigs, Hoses and Nozzles:



Our dedicated years' experience of supplying pipes to a wide range of industries have given us the knowledge to understand our customers' needs. We have worked in the following industries: oil and gas, metallic and non-metallic minerals (mining and processing), water (drilling and treatment), cement, chemical and petrochemical, fertilizer, power production and distribution, food processing and packaging.

We supply a wide range of pipes including

- Seamless
- Alloy Steel
- Cold Drawn
- Ductile Pipe
- Reinforced Concrete
- Pipes for Pile Support in Bridge Construction and Underwater
- ERW
- Casing Pipe for Water and Oil Wells
- Cold Work
- Cement Pipe
- PVC Lined Corrosion-Resistant Reinforced
- SSW
- Screens for Water Well
- Galvanized Pipe
- Precast Concrete
- GRP

We also handle all kinds of

- Tubes – all kinds for boiler and heat exchangers
- Pipes - for water networks
- Pipes - for all kinds of domestic and commercial use.

According to the industry requirements, the pipes are manufactured in different materials including carbon steel, stainless steel, galvanized steel, brass, aluminum, alloy, copper, ductile iron, as well as pipes coated with rubber, Teflon, and PVC. The pipes are either threaded or beveled with coupling.

The sizes range from 1 inch all the way up to 56 inches.

4.2.1 Clamps:



We have many years' experience in supplying pipes to government entities and private sector companies, which has given us ample opportunity to supply both internal and external clamps to pipeline contractors.

- Hydraulic Internal clamp
- External clamp



4.2.2 Pigs:



We supply all kinds pigs including steel and foam, which are used for drying, cleaning, batching, and product removal operations, in industries including oil and gas, metallic and non-metallic minerals, municipality, food and beverage, mining, chemical and petrochemical, cosmetic and pharmaceutical industries.

The sizes of the steel and foam pigs range from one inch to 60 inches.

Foam pigs are able to negotiate uncommon piping, fittings and valves, with industry standard densities of foam ranging from 2, 5, 8-pound per cubic foot. Configurations include bare, criss-cross, wire brush, plastic bristle, and silicon carbide with various design option such as double dish, double nose, special coating patterns (single-spiral, turning pattern, totally coated, etc.). These all come in various lengths and diameters, with pulling /handling ropes or cables, bypass jets, and transmitter cavities. Special configurations can be designed for unique pigging applications.

We supply the following types of pig:

- Bare foam
- Silicon carbide foam
- Brush foam
- Coated foam
- Special design foam
- Foam spheres
- Plastic bristle foam
- Foam wiping

4.2.3 Hoses and Nozzles:



We supply a wide range of hoses and nozzles as required by the industries listed above, and their many different functions and pressures, with different materials such as Low-density polyethylene (LDPE), Polytetrafluoroethylene (PTFE), Rubber reinforced by stainless steel, and hoses coated with corrosion and acid resistant material according to the customer's needs.

In addition, our staff can visit sites and prepare industry-specific hoses to fit and connect according the sites' requirements.

4.3 Valves:



Valves are used throughout many industries, and we have excellent experience in matching customers' requirements with supply. We have worked for over 20 years, supplying valves to the following industries: oil and gas, metallic and non-



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metallic mineral mining and processing, water (drilling and treatment), cement, chemical and petrochemical, fertilizer (with a special valve for urea and phosphoric acid), power production and distribution, food processing and packaging. We have both mobile and on-site workshop for maintenance and hydrostatic testing of all kinds of valves including new and used, of different sizes and pressures. These allow us to:

- Maintain and hydrostatically test the valves
- Engineer between valve and actuator (pneumatic, hydraulic, and electrical)
- Calibrate the settings for safety and control valves.

We supply many kind of valve ranging from flange-type, threaded, or welded. They include valves that are manually operated or actuated by motor, hydraulics, or pneumatics, and include:

- **Ball** (floating, trunnion ball, full weld body, top entry, side entry)
- **Check valve** (wafer type, dual plate, swing, tilting, renewable seat)
- **Butterfly valve** (flexible wedge and solid wedge)
- **Gate valve** (lubricate, non-lubricated and taper)
- **Globe valve**
- **Control valve**
- **Moisture drain valve**
- **Rubber lined valve**
- **Choke valve**
- **Plug valve**
- **Needle**
- **Rubber coated valve**
- **PVC valve**
- **Solenoid valve**
- **Safety valve**
- **Non-return valve**
- **Teflon coated valve**

These many valve types require materials which include stainless steel, carbon steel, galvanized steel, brass, aluminum, copper and alloy, and some valves that are rubber lined or coated with rubber, Teflon, or PVC. Sizes vary from one inch up to 56 inches, and the pressure from 150 psi up to 6,000 psi.

4.4 Fitting, Joints, Fastening and Sealing:



We supply flanges, tee, elbow, cross, cap, plug, nipple, unions, spacer, reducer, socket, gaskets, bolts and nuts, O-ring, rod as well as adhesive and different sealing tags including electronic tags.

We cover the following industries: oil and gas, metallic and non-metallic minerals (mining and processing), water (drilling and treatment), cement, chemical and petrochemical, fertilizer (with a special valve for urea and phosphoric acid), power production and distribution, food processing and packaging.

The materials for the fittings that we supply to all the above sectors include stainless steel, carbon steel, galvanized steel, brass, aluminum, rubber and alloy for special use.

The size varies from 1 inch to 56 inch according to requirements.

The rate flow varies from 150 psi up to 6000 psi.

❖ Flange:

- | | | |
|-------------------|-------------|---------------|
| • Ring joint type | • Blind | • Threaded |
| • Weld neck | • Flat face | • Girth |
| • Slip on | • Lap joint | • Raised face |
| • Orifice | | |
| • Tee | • Elbow | • Cross |
| • Cap | • Plug | • Nipple |
| • Unions | • Spacer | • Reducer |

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- Socket
- ❖ **Gaskets**
 - Spiral wound
 - Sheet
- ❖ **Bolts and nuts**
 - Bolts
- ❖ **O-Ring**
 - Rubber
 - Teflon
- ❖ **Rod – threaded and non-threaded**
 - Teflon
- ❖ **Adhesive**
 - Metal (carbon steel, stainless steel, alloy and copper)
- ❖ **Sealing tag**
 - Electronic Sealing
 - GPS Detector
- Double metal jacket
- Stud bolts
- Steel
- Plastic
- Wood
- Rubber
- E- lock standard
- Rubber
- RTJ
- Nuts
- Graphite
- Metal
- Rubber
- Alert lock
- Steel

Regards,

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