



Industrial & Oil Sector Supply

Solving Engineering & Procurement Problems





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TGS Engineering & Procurement is one of the most experienced multidisciplinary companies serving the Libyan market place with technical procurement and excellence. Over the years, TGS has developed a fast and growing reputation for true innovation and excellence. TGS have an impressive network of agents throughout the global marketplace allowing them to keep their finger on the pulse with regards international developments and opportunities - making for a truly impressive globally focused organisation. TGS is dedicated to supplying the needs of the oil, gas, power and water industries, working with a global network of carefully chosen suppliers, coordinated by a dedicated team of buyers, TGS can provide for an ever increasing range of requirements. Our business partners include some of the foremost innovators and specialists in the world today.

TGS hold numerous distributor arrangements with leading manufacturers throughout the world. This in turn means that the good relationships we have developed with these suppliers can be on passed to you. Our aim is to be the leading company in Libya in the field of sourcing and engineering services.

Industrial, Gas & Oil field Equipment & Parts we supply

Our typical regular refinery, petrochemical, industrial gas & oil field equipment supply includes but is not limited to the following

- 'O' Rings
- Abrasives
- AC Parts and Refrigeration
- Accumulators and Parts
- Actuation
- Adhesives
- Air Clutches
- Air Compressors
- Air Seal Unions and Tubes
- Air Tools
- Alarms
- Anchors
- B.O.P. Hose
- Backholes
- Ball Valves - High and Low Pressure
- Banding Products
- Barges
- Batteries
- Bearings
- Belts
- Bits
- Blocks
- Blowers
- Boats, Crew
- Boilers
- Bolts
- Boots
- BOPs
- Brackets
- Brake Bands and Brake Rims
- Brake Blocks and Hardware
- Brakes
- Brass Hose Fittings
- Bushings Accessories
- Butane Tanks
- Butane Torches
- Butt Weld Fittings and Flanges
- Butterfly Valves
- Cable Accessories
- Calibration
- Camlocks
- Casing and Tubing
- Cathed and Spinning Chain
- Catwalks
- Cementing Equipment
- Centrifugal Pumps and Parts
- Centrifuges
- Chain and Wire
- Chain, Roller
- Gaskets
- Gaskets and Gasket Material
- Gate Valves - High and Low Pressure
- Gate Valves Parts
- Gauges
- Gear Box
- Generators DC
- GPS
- Grating
- Grease
- Hammer Unions and Parts
- Hand and Power Tools
- Hand Cleaners
- Hand Tools
- Handling Tools
- Hangers
- Hardware
- Heat Exchangers
- Hoists
- Hole Opener
- Hooks
- Hose and Fittings -
- Hydraulic and Industrial
- Hose Clamps
- Hose Products
- Hoses and Fittings
- Hubs
- Hydraulic Adapters
- Hydraulic Fittings
- Hydraulic Hose
- Hydraulic Tools
- Hydraulic Units
- Hydraulics
- Hydrocyclones
- Desilters
- Desanders
- Hyperguns
- Industrial Hose
- Instrumentation
- Insulations
- Janitorial and Cleaning Supplies
- Jars
- Joints
- Kelly Cocks
- Kelly Drivers
- Kelly Hoses
- Kelly Spinners
- Polished Rods
- Power Crimpers
- Power Tools
- Pressure Gauges
- Pressure Measurement
- Pressure Roughness
- Hardness Pressure
- Transducers
- Plasticimeters
- Pressure Valves
- Pressure Vessles
- Regulators
- Retrofits
- Pen - Six Recorder
- Rig Masts
- Rig Parts
- Rims and Traps
- Ring Joint Gaskets
- Risers
- Roller Chain
- Rope and Catlines
- Rope, Manila
- Ropes
- Rotary Hose
- Rotary Pumps
- Rotary Table
- Rov's
- Safety Equipment & Products
- Safety Valves
- Sand Separators
- Sealant
- Seals
- Sensors
- Service Rigs
- Shale Shaker
- Screens and Parts
- Shear Relief Valves
- Stabilizer
- Starters
- Steam Traps
- Storage Shelves
- Strainers
- Strainers Strains
- Stripper Rubbers
- Strut, Studs
- Stuffing Box Packing
- Subsea Equipment
- Sucker Rods
- Survival System
- Swings

- Clad Pipes
- Cleaning Solvents
- Coiled Tubing
- Combination Nipples
- Compressors
- Connections
- Connectors
- Control Panels
- Controls
- Conveyor
- Conveyor Belting
- Couplings
- Crane Parts
- Crimping Tools
- Crown Blocks
- Crown Works
- Cutting Tools
- Cylinders

- Densimeter
- Detectors
- Diesel Engines
- Dock Fenders
- Downhole Motors
- Downhole Tools
- Drawworks
- Dresser Couplings
- Dresser Sleeves
- Drill Bits
- Drill Collars
- Drilling Fluids
- Drilling Heads
- Drilling Jars
- Drilling Peration
- Drilling Pipes
- Drilling Rigs
- Drilling Tools
- Duplex Pumps

- Elbows
- Electric Actuators
- Electric Equipment
- Electric Tools
- Electrical and Lighting
- Elevator
- Engines
- Expansion Joints
- Expl. Prf. Fittings

- Fan Coils
- Fasteners
- Filters
- Fishing Tools
- Fittings
- Flanges
- Float Equipment
- Float Valves and Parts

- Laboratory Equipment
- Level Switches
- Lifting Equipment
- and Accessories
- Lightings
- Longitudinally welded Pipes
- Logging Tools
- Lubricants

- Machine Tools
- Manifold Fittings
- Manifolds
- Mast / Substructure
- Master Bushings
- Material Handling
- Measuring Equipment
- Meters
- Milling Tools
- Mills
- Misc. Parts
- Monitors
- Motor Controller
- Motors
- Mud Agitators
- Mud Chemicals
- Mud Buckets and Parts
- Mud Gate Valves and Parts
- Mud Gauges
- Mud Hoses
- Mud Pump Hose
- Mud Pumps
- Mud Saver Buckets
- Mud Pump Sheaves

- Needle Valves
- Nuts and Bolts

- OCTG
- Oil Coolers
- Oils Bulk and Container
- O-Lets Air and Twin Disk Clutches
- Orifice Fittings
- Overrunning Clutches

- Paint
- Paint and Accessories
- Pipe Dope-Tool Joint and Drill Collar
- Pipe Fittings
- Pipe Handling Equipment
- Pipe Line Pigs
- Pipe Wipers, Pipe Layer

- Pipe, Pipe Fittings, and Accessories
- Line Pipes
- Plant Supplies
- Plug Valves
- Polished Rod Clamps

- Triplex Pump
- Tachometers
- Tank
- Tanks Fuel / Water
- Tees
- Thermometers
- Thermowells
- Transformers
- Transmissions
- Trees
- Tubular Goods
- Turbine Gas / Steam
- Turbochargers
- Ultrasonic Meters
- Unions
- Unit Heaters

- Vacuum Eqp
- Valve Lubricants
- Valve Positioners
- Valves
- Valves Parts
- V-Belts
- Vibrator Hose
- Vinyl Tubing
- Viscometer

- Washdown Hose
- Washers
- Water Desalination
- Watermakers
- Welding Equipment
- Welding Supplies
- Wellhead/Components
- Winches
- Wire
- Wire Rope
- Wire Rope and Assemblies
- Wireline Guide Units
- Wireline Rollers
- Wireline Units
- Workover
- Worm Gear Clamps

Industrial & Oilfield Safety Equipment

TGS supplies a wide range of personal safety and fire protection equipment and parts.

Survival, Safety and Protection

- Escape Systems for the Offshore Industry
- Explosion Proof Alarm, Signal, Control and Communications Equipment
- Explosion Proof Alarms and Beacons, Marine and Industrial Signalling
- Fall Protection, Head Protection and Body Protection Equipment
- Fire and Explosion Proof Doors for Offshore Platforms and Ships
- Life Saving Equipment and General Maritime Equipment
- Lifeboats, Rescue and Freefall Boats
- Lifeboats, Rescue Boats and Davits
- Life-Saving Equipment for Marine Protection
- Personal Fall Protection Equipment
- Solutions and Techniques for Work-At-Height and Difficult-Access Rescue
- Survival Suits, Re-Breather Systems and Other Survival Products
- Technical Safety Equipment for Hazardous Working Environments
- Worker Safety Solutions and Personal Protective Equipment

Gas Safety Equipment

- Gas and Safety Monitoring and Control
- Portable Multi-Gas Detector
- Nitrogen Gas Purging

Fire Protection Equipment

TGS supplies a wide range of fire protection equipment.

- Protective Clothing
- Breathing Apparatus
- Hose
- Nozzles
- Valves
- Fittings
- Special Tools
- Rescue Equipment
- Fixed and portable combustible and toxic gas monitoring systems
- Optical fire detection systems
- Hazardous area alarm devices
- Passive fire protection systems for cable trays, valve actuators and other electrical equipment.

Combustible and Toxic Gas Detector

- Combustible and toxic gas detector (sensor, transmitter and relays)

Infrared Hydrocarbon Gas Detector

- Infrared hydrocarbon gas detector
- Electrocatalytic gas detectors
- Open-Path Infrared Hydrocarbon Gas Detector
- Sensor and Transmitter
- Gas Detection Control System
- Optical Fire Detector
- Clean Room Optical Fire Detector
- Fire Protection and Enclosures
- Fire and Security - Fire and Gas Detection System for the Oil, Gas and Petrochemical Industry

TGS is also supplying fire-safety equipment for applications on land, at sea and in petrochemical, oil and gas industry.

Fire Protection & Detection Systems and Materials

- Infrared Combustible Gas Detection
- Fire and Gas Detection System
- Passive Fire and Blast Protection Systems
- Optical Flame and Combustible and Toxic Gas Detection Systems
- Engineering, Design and Building of Fire Protection Systems
- High Pressure Water Mist Fire Protection Systems
- Passive Fire Protection Systems
- Flame and Gas Detectors
- Fire, Thermal and Acoustic Insulation
- Infrared Gas Detectors For Detection of Combustible Gases
- Fire, Heat and Gas Detection Systems

Equipment for Hazardous Area

TGS supplies diverse range of intrinsically safe and explosion protected electrical and electronic equipment. We offer an extensive range of products that are all certified for use in potentially explosive atmospheres. We also provide a wide range of equipment for various requirements and applications including Process Automation, Monitoring and Control, Electrical Installation, Test, Calibration and Communication.

Hazardous Area Equipment includes Specialist Alarm, Signal and Control Equipment, for use in potentially explosive atmospheres and extreme environmental conditions.

Explosion Proof Electrical Items

TGS supplies some of the following Hazardous Area Equipment

- Bells and Horns
- Cable Glands
- Call Point
- Continuous Lights
- Control Stations
- Control Systems
- Electronic Sounders
- Flashing Lights
- Heaters
- Junction Boxes
- Motorized Sirens
- Plugs & Sockets
- Sounders & Beacons
- Pushbuttons, Breakglasses Speakers
- Status Lamps

Control Stations and Junction Boxes

Control Stations and Junction Boxes intended for use in potentially explosive atmospheres. All these products are corrosion resistant and come in a wide variety of options, including:

Fire and Flame Detection

- Flame Detectors
- Intrinsically Safe Smoke and Heat Detectors

Portable Gas Detectors

- Multigas - Portable Gas Detector
- Single Gas - Portable Gas Detectors

Toxic Gas Detection Equipment

- Chemcassette Detection Technology
- Portable Gas Detectors
- Toxic Gas Management Systems
- Multi-point Analyzers

Explosion Protected Equipment for Offshore Projects

We supply explosion protected equipment for the offshore projects for almost every application in hazardous areas for the use for exploration, transport, processing and distribution of oil and natural gas.

- Switchgear
- Light Fittings
- Intrinsically Safe Components and Systems for Measurement, Control and Regulation
- Hazardous Area Alarms, Signals and Controls

Mechanical and Electrical Parts

TGS provides a wide array of Electrical and Mechanical Spare parts. We offer a wide range of electrical and mechanical spare parts and accessories. The products are highly competitive in quality and pricing.

Industrial Diesel Engine

TGS are capable of offering a wide range of Diesel Engines for various different applications for industrial, marine, heavy plant, offshore projects, etc.

- | | | | |
|-------------------------|-----------|-----------------|--------------|
| • Detroit Diesel Engine | • VM | • Allison | • Deutz |
| • Cummins Diesel Engine | • Scania | • Transmissions | • John Deere |
| • Mercedes | • Iveco | • Caterpillar | • Ford |
| • Volvo Penta | • Gardner | • Perkins | • Yamaha |

Industrial Diesel Engine Parts

We can also provide a wide range of new and genuine diesel engines and parts. We offer a full range of diesel engine models.

- | | | |
|------------------|-----------------|-----------------|
| • After-Coolers | • Engine Blocks | • Starters |
| • Alternators | • Flywheels | • Turbochargers |
| • Bell Housings | • Fuel Pumps | • Water Pumps |
| • Crankshafts | • Oil Pans | |
| • Cylinder Heads | | |

We supply diesel engine parts for most major Brands truck engine. We offer a variety of diesel engines, transmissions, front axles, rear axle cutoffs and many more parts and accessories. We can supply replacement parts for heavy-duty diesel engines and equipment, specializing in Caterpillar, Cummins, Detroit Diesel, Komatsu, etc.

Laboratory Equipment

TGS regularly supplies a wide range of Laboratory and Scientific equipment and instruments.

Test Equipment

We offer a wide variety of test equipment used to test, analyze, control, calibrate, display and record data, including

- Analyzers
- Antennas
- Calibrators
- Chromatography Instruments
- Coaxial Component
- Data Acquisition Equipment
- Distortion Analyzers
- Electrical Test Meters
- Electronic Loads
- Frequency Counters
- Injection Test Sets
- LCR Analyzers
- Lightwave Equipment
- Loggers
- Logic Analyzers
- Meters, Multimeters
- Network Analyzers
- Noise Meters
- Optical Measuring Equipment
- Optics, Lasers
- Integrators
- Spectrophotometers
- Oscilloscopes
- Panel Meters
- Plotters & Data Loggers
- Power Supplies
- Process Controllers
- Product & Material Testers
- Pulse Generators
- RF & Microwave Equipment
- Semiconductor Test Equipment
- Sensing Instruments
- Signal Generators
- Spectrum Analyzers
- Synthesizers
- Telecom Equipment
- Thermo Hydrographs
- Waveguide Hardware
- Wet Chemical Analysis

Laboratory, Scientific Equipment Instruments

We supply a wide variety of devices that are used in laboratory and other situations.

- Chromatography
- Electrical Test Meters
- Environmental Instruments
- Test Equipment
- Loggers
- Multimeters
- Panel Meters
- Process Controllers
- Product and Material Testers
- Recorders
- Sample Preparation
- Sensing and Measurement Instruments
- Separation Devices
- Spectrometers & Analytical Photometer
- Wet Chemical Analysis
- Biotech
- Centrifuges
- Electrophoresis
- Evaporators
- Freezers, Fridges
- Incubators, Ovens
- Sterilizers
- Lab Furniture
- Microwave Digestion Sys.
- Mixer, Stirrer, Shaker
- Optics, Lasers
- Parts Machines
- Pharmaceuticals
- Processing Equipment
- Pumps
- Purge & Trap Concentrators
- Recorders, Integrators
- Robotics
- Scientific Software
- Spectrophotometers
- Water, Gas Purification

Analytical Instruments

- Calorimeters and Thermal Analyzers
- Capillary Electrophoresis Separators
- Centrifuges
- Chemical Analyzers
- Conductivity Electrodes
- Specific Gravity Equipment
- Durometers - Hardness Testing
- Environmental Test Chambers
- Fluorometers
- Gas Testers and Analyzers
- Hydrometers
- Ion Specific Electrodes and Meters
- Laboratory Filters
- Moisture, Humidity Analyzers
- Conductivity Instruments
- Ph and ORP Devices
- Rheometers
- Spectrometers
- Tension Instruments
- Turbidity and Opacity Testers

Control Systems

- Automation and Electronic
- Positioned & Programmable Controllers
- AC & DC Electronic Motors
- Electronic Measuring Instruments
- Electronic Motion Control Equipment
- Encoders
- Linear Measuring Equipment
- Positioning Components

Sensor

TGS supply detection instruments for pipeline projects

- Pipe and Cable Locators
- Portable Gas Detectors
- Fixed Gas Monitor
- Fixed Gas Sensors
- Calibration Gas
- Metal Detectors
- Sheaf Fault Locators
- Sondes
- Electronic Markers
- Water Leak Detection
- Pressure and Flow Dataloggers
- Pressure Reduction Valve Controllers
- Turbidity Meter
- StreTGSng Current Monitor
- Ultrasonic Level Indicators

Brands we supply for Laboratory & Instrument

- ABB
- Agilent
- Ameritec
- Anritsu
- AstroMed
- AVO
- Boonton
- Bruel & Kjaer
- California
- Instruments
- Cushman
- Eip Microwave
- Fluke
- Fukudas
- Giatronics
- Endress+Hauser
- Phoenix
- Systech
- Scinco
- AMETEK
- HP
- IFR
- Microtest
- Pacific
- Measurements
- Phoenix
- Rod-L
- Electronics
- Rohde & Schwarz
- Siemens
- Solatron
- Sorensen
- Tektronix
- TTC
- Valhalla
- Wiltron
- Yokogawa

Onshore & Offshore Piping and Pipelines

TGS supply flowlines, riser pipes and other equipment for topsides (platform FBSOs) as well as line pipes.

- Duplex and superduplex offshore & onshore pipes
- Metallurgically clad riser pipes
- For projects in water depths of more than 1,000m, we can supply special metallurgically clad riser pipes in welded construction with very tight tolerances.
- Mechanically bonded offshore pipes
- Metallurgically clad plate pipes
- Longitudinally welded offshore pipes