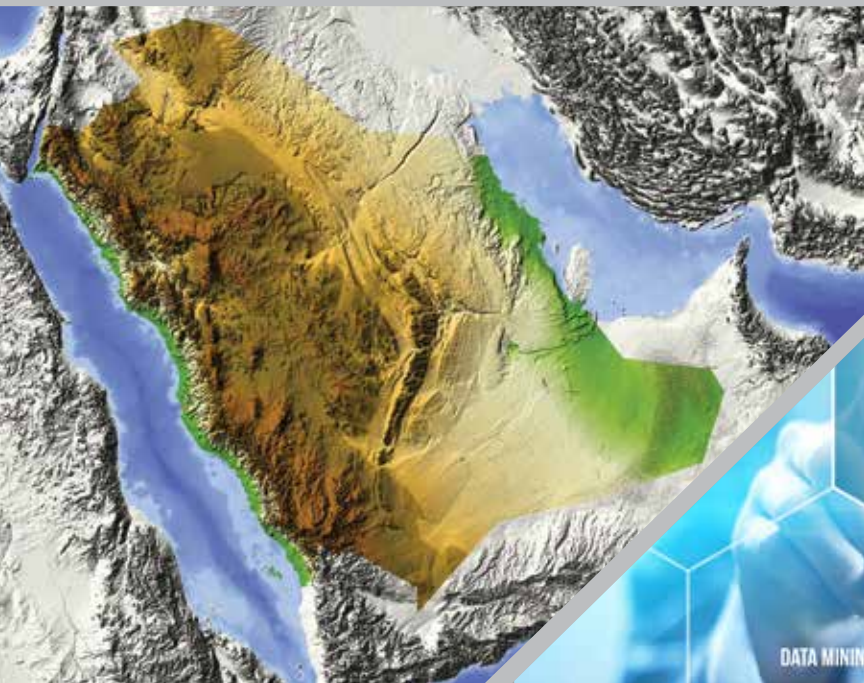




Supply & Support
Service Systems Co. Ltd



About 4S

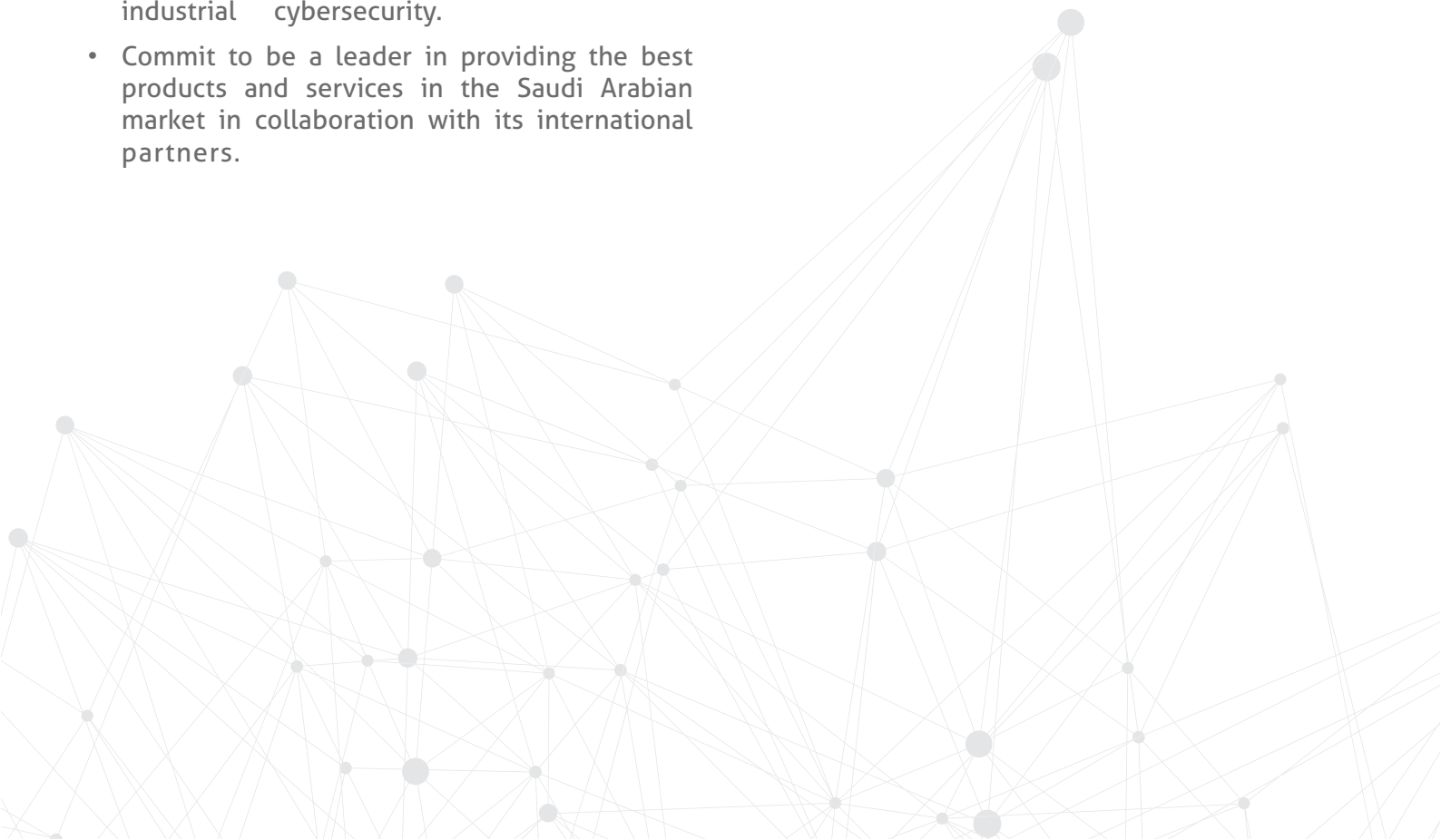
"4S" was established in 2008 as the commercial arm of Al-Moushegah Group to provide comprehensive and integrated services in the oil & gas, petrochemical, power, water, mining and industrial sectors. The Company started its aspirations to invade the promising and extensive market and review of the customer needs with a view to providing the most advanced products and services.

Vision

- Building on the legacy of industrial automation experience.
- Become a leading service provider of advanced services delivered by local talent.
- Seek international technological partnerships, beneficial to in kingdom development.
- Foster home grown innovation and develop local talent to support advanced service offerings.
- Strive to excel in regional initiatives such as Artificial Intelligence and lead in the field of industrial cybersecurity.
- Commit to be a leader in providing the best products and services in the Saudi Arabian market in collaboration with its international partners.

Mission

- To adopt, integrate and adapt advanced technology into products and services beneficial to our clients.
- Develop and support local resources to support advanced products and services.
- Be the first to bring added business value through the use of advanced technologies.
- Be the regional Center of Excellence for industrial Cybersecurity and Cognitive A.I.



Agency & Suppliers



Pietro Fiorentini

PIETRO FIORENTINI of Italy

Pietro Fiorentini is a world leading Italian manufacturing company, internationally oriented and active in all five continents in the design, manufacturing and selling components, packages and plants for the Oil & Gas market.

Since its foundation in 1940, Pietro Fiorentini is constantly growing and today the Company is an international market player, offering a wide range of products and services that covers all the needs of modern Oil & Gas Industry.

Products:

MULTIPHASE FLOW METER - Pietro Fiorentini Multiphase and Wet Gas Flow Meters are non-intrusive, inline systems providing real time measurement of oil, water and gas flow rates in the dispersed phase of the flow avoiding the use of large systems based on phase separation.

Pietro Fiorentini's meters utilize the latest state of the art technologies to provide a more accurate, reliable and robust measurement system to customers.

Pietro Fiorentini established its Branch Service Office in Al-Khobar (KSA) to support its Customers in the Middle East with efficient and prompt response.

HIPPS (High Integrity Pressure Protection Systems) are specific application of Safety Instrumented System (SIS). The purpose of HIPPS is to protect downstream equipment against overpressure or upset conditions coming from the upstream. The protection against over-pressure is obtained by quickly isolating the source causing the overpressure.

HIPPS package consists of: Initiators, Logic solver and Final Element. The initiators are field sensors to detect the hazardous condition. The logic solver accepts these inputs and drives the final elements to isolate the hazardous overpressure condition. Pietro Fiorentini HIPPS are IEC 61508 and SIL 3 certified.

HIPPS safety systems are used in the oil & gas industries in order to provide pressure protection of pipelines, piping, vessels and process packages against over pressure.



FioSonic
Ultrasonic Flow Meter
For custody transfer



Agency & Suppliers



HYUNDAI HEAVY INDUSTRY TURBOMACHINERY (HHI TMC) of South Korea



HHI TMC has manufactured and then supplied since 1978 a wide variety of pumps, centrifugal compressors and steam turbines for industrial and marine use including ships, offshore oil and gas facilities, thermal and nuclear power generation, desalination, and petrochemical plants. Notably, HHI-TMC has supplied main turbo machinery for Al-Khobar Power & Desalination Plant Phase 2 in 1981 and Uljin Nuclear Power Plant in 1986.

Products:

- **Vertical Pumps (Major Applications:** Power Plants such as cooling water, circulating water, sea water lift pumps; Desalination Plants such as brine recirculation, brine blow-down, distillate and sea water intake pumps; Sewage Treatment Plants; and other water works such as rain water drainage pump, irrigation pump, firefighting pump, doc dewatering pump, and others)

- **Horizontal Pumps (Major Applications:** Power Plants such as feedwater booster, boiler feedwater and circulating pumps; Desalination Plants such as RO high pressure, product water and process pumps; Sewage Treatment Plants; Oil & Gas such as crude transfer/booster, offshore export and water injection plants; and other water works such as de-scaling, district heating and general industrial pumps)

- **Turbo Air Compressors (Major Applications:** Industrial Manufacturing Plants such as shipbuilding, automobile manufacturing, steel mill, glass factory, textile mill, electronics factory and others; Power Generation Plants such as thermal/steam power generation and combined cycle power plant; Petrochemical Plants; and Oil & Gas refineries)

- Turnkey Project for Pumping Station



Agency & Suppliers



SAMIC SPA OF ITALY

SAMIC is a company specialized in projecting, constructing, setting up and assembling industrial components and plants of considerable size and complexity. SAMIC dates back to 1965 with a constant attention and dedication to the quality of its products, reinforcing through the years its structures and constantly investing in improving the know-how of its workers. The company only uses state of the art equipment allowing the development of a highly complex manufacturing process and providing the maximum productivity.

Products:

VESSELS & EXCHANGER (Projected according to: ASME, TEMA, AD MERKBLATT, BS, VSR ISPELS, PED and more).

COMBUSTION CHAMBER (Complete combustion chambers, with or without secondary air, with components such as: Shell, Covers, Flametubes with fire-proof support and fire proof bricks, Frames for flametubes, Mixing chambers with a transition ring, Gas distributors and Feeding pipes).

COMPONENTS FOR UREA, METHNAOL AND AMMONIA PLANTS (built with Special internals for reactors, Rod Baffle, Ass embly of plate heat exchangers, Interconnection pipes, Cartridges).

BOP or Balance of Plant (Complete projects, Piping, Vessel/heat exchangers, Structures, Skid additives, Electro-Instrumental, Insulation and Surface treatment and Assembly on site).

TURBINE SPARE PARTS (Hot gas, Inner liner, U-duct, Heat shields and Vane carrier).

PIPING (Standard and special pipes, Main Steam Pipes, Water feeding pipes, Evaporators, Superheating Plates and Energy Savers).

SKID (Complete projects, Pipes, Pressure Vessels, Heat exchangers, Electro Instrumental, Insulation, and Frames).

MATERIALS (Carbon steel, Low Alloy Steel, Stainless steel, Austentic/ferritic/martensitic, Nickel Alloy, Copper Alloy and Titanium)



Agency & Suppliers

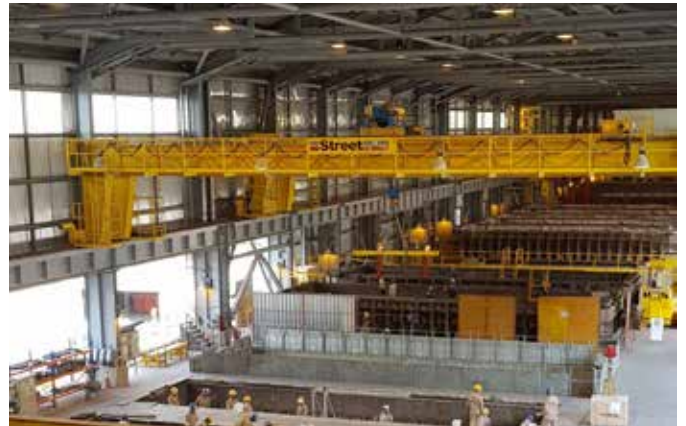


BRASCO INTERNATIONAL INC. OF Canada

Brasco International is a proud World Leader of Potlining & Cathode Sealing, with accomplishments comprising of 10400+ electrolysis pots, and sealing of 90 000+ cathodes & 44000+ anodes. Scope of work as follows:

- Major Refractory Installations & Related Mechanical Works.
- Demolition, Repairs, & Rebuilds of Linings or, Maintenance per Client's Programs; Pot Relinings, Metal Ladles, Anode Baking Furnaces.
- Potshell & Superstructure Disconnections / Reconnections with Start-up of Electrolysis Cells; standard, coke/graphite bed on metal pad, soaking start-up, & auto start electrolytic bath generator.
- Foundry Works; Fusion, Batching, Pouring & Analysis of Metal.

The company's international presence continues to strengthen through its association with major partners of the aluminium industry.



Our proven, in depth Industrial Automation knowledge and expertise can help your facility - and your bottom line - perform better. From front-end engineering through plant construction and full operation of the facility, our Process Automation, Industrial IT/IIoT/OT and Industrial Cyber Security knowledge and experience combine to assure that your facility runs smoothly, securely and, of course, profitably. So, from IO to the boardroom, 4S has the foresight to bring value to any stage of your industrial automation project.

Our local Advanced Industrial Automation services:

- Certified Industrial Cybersecurity Experts
 - Development of CyberPHA, vulnerability assessments and Cyber security Requirement Specifications (CRS), Cyber FAT/SAT testing and procedures
 - Cybersecurity risk and vulnerability assessments, countermeasure design, and implementations
 - Passive Network Asset discoveries
 - Training - Customized cybersecurity awareness or standards programs
 - Penetration Testing

- Cybersecurity Consultancy – from as simple clarifications against a standard or establishing a full CSMS, we have services for every requirement

- Cognitive Artificial Intelligence – Establishing leading edge Cognitive A.I. solutions for industrial applications – we are the regional representatives of www.aismartstack.com

- Industrial Automation Consultancy – Effective Integration Design Reviews, provide quality assurance for logic and systems integration, minimize schedule delays during construction/commissioning

- Process Control Systems and OT Integration – Operational Availability and Cybersecurity aware integration of disparate systems

Industrial Cybersecurity



ISA/IEC 62443



Cognitive Artificial Intelligence



In line with the Saudi Vision 2030, we are a local Saudi business who endeavor to provide advanced services locally; services such as cybersecurity risk assessments, conducted by Saudi nationals, benefitting supply-chain local content requirements.



www.4s.net.sa

CONTACT DETAILS:

Supply and Support Service Systems (4S) Co. Ltd
Prince Mohammad corner 2nd Street
PO Box 1557, Al-Khobar 31952
Kingdom of Saudi Arabia
Email: inquiry@4s.net.sa

4scompanyco

