



PIGGING PRODUCTS & SERVICES ASSOCIATION

An international trade association serving the pipeline industry

34th Edition

Buyers' Guide & Directory of Members 2022 – 2023

Piggings Products and Services Association
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PIGGING PRODUCTS & SERVICES ASSOCIATION

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The Piggings Products and Services Association (PPSA) was founded in 1990 by Jim Cordell and has 100 members, from 20 countries representing the pigging industry throughout the world.

The Association is entirely funded by its members through their annual subscription fees. Its aims are, "To promote the knowledge of pigging and its related products and services by providing a channel of communication between the members themselves, and with users and other interested parties".

PPSA plays a major role in providing information and sourcing equipment and services, for pipeline operators and the industry generally and responds to hundreds of enquiries each year.

The PPSA web site enables visitors to source the products and services they need quickly and easily and provides a link to PPSA's technical information service.

PPSA runs seminars and training courses on pigging, sponsors lectures and meetings about the subject and supports relevant conferences.

Full Members are companies manufacturing or marketing pigging products and services.

Associate Members are companies connected with the industry, e.g. operators, suppliers and allied industries.

Individual Members are anyone with an interest in pigging.

For further information, technical enquiries, or to find out how to join the Association please contact:

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WHY PIG A PIPELINE?

It is generally agreed that a pipeline should be pigged, but the reasons for doing so are not always fully appreciated. This may result in improper pigging programs and/or the use of the wrong type of pig and this could have an adverse effect on the pipeline's operating and maintenance costs.

A pipeline is arguably the most efficient method yet devised for transporting fluids – whether gases or liquids.

Its relative efficiency though, depends upon two fundamental requirements:

1. It must operate continuously.
2. The required throughput must be obtained with the least capital investment and the lowest operating costs.

Utility pigs and In Line Inspection tools ('intelligent/smart pigs') play a major role in both obtaining and maintaining these 'two fundamentals':

1. They help to ensure continuous operation by:
 - removing any substance which might damage the pipeline process systems
 - helping to prevent the formation of corrosion cells
 - providing timely information of any developing problems
 - providing data on any perceived problems to enable informed decisions to be made
 - providing an alternative to shutting down for statutory periodic testing.
2. They help to ensure maximum efficiency by:
 - removing any debris or foreign matter in the line
 - removing any deposits, either liquid or solid, which might otherwise build up and restrict the flow
 - by monitoring the operating and/or physical conditions of the line.

In short, pipeline pigs help to ensure that the pipeline is constructed properly – and that it stays that way.

Pigging is required during each phase in the life of a pipeline, typically:

During construction

- i) Removing debris from the line
- ii) Pressure testing
- iii) Commissioning

During operation

- i) Pipe wall cleaning
- ii) Condensate removal
- iii) Product separation
- iv) Applying inhibitors

For inspection

- i) To check for damage
- ii) To detect corrosion or cracking
- iii) Leak detection
- iv) Sampling
- v) Line cover and spanning

For general maintenance and repair

- i) Corrosion inhibition
- ii) Pre-inspection cleaning
- iii) Decommissioning
- iv) Isolation
- v) Recommissioning

During renovation/rehabilitation

- i) Gel pigging
- ii) Applying in situ coatings
- iii) Chemical cleaning
- iv) Scale removal
- v) Product conversion

Decommissioning

- i) Product removal
- ii) Inerting

Many pipeliners only resort to pigging when a problem becomes apparent and they have no other choice. Often, this is too late. The damage has been done and a multi-million dollar investment is put at risk. Use of the correct type of pig and a proper pigging program will help to maintain the integrity and optimum efficiency of the pipeline; safeguarding both the environment and the assets of the pipeline owner. The PPSA book: "An Introduction to Pipeline Pigging" will provide guidance in this respect, but if in any doubt, contact should be made with a PPSA member company, who will be pleased to advise.



PPSA's book, "An Introduction to Pipeline Pigging"

PRICE:
£21.00 UK,
\$40 US elsewhere
plus P&P

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Alchemy primarily specialise in gels, gel pigs and sealing materials for offshore and onshore oil industry applications. They provide a range of gels and gel pigs for cleaning, debris removal, dewatering, de-oiling, chemical treatment separation and spool filling for seawater ingress prevention. Uniquely Alchemy has perfected the manufacture of gels in kit form and biodegradable gel pigs with low and high temperature stability. All products are environmentally friendly and are approved by CEFAS for use in the North Sea.

Alchemy also manufacture and supply high specification sealing products for wellheads, valve and pipeline applications and provide a solution based response to pipeline emergencies for remediation of difficult and sometimes safety critical applications.

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American Pipeline Solutions is based in the Northeast United States and provides precommissioning services for the oil and gas industry. APS's areas of specialisation include pigging, hydrostatic testing (pipe diameters to 48", pressures to 10,000 psi) drying, inline inspection, tracking and M & R station testing and drying.

Additional industries served are power/nuclear, pulp and paper, chemical and the cleaning of highly restricted underground fire systems.

APS offers both turnkey and on a time and material basis as well as consulting. Their rental programs include launchers/receivers, test heads, testing equipment, pig tracking systems including AGMS, test pumps and a full line of foam pigs/drying cylinders for sale.

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Apache's commitment to quality, service and continual product development provides the industry with "leading edge" technology. Apache Pipeline Products is a major manufacturer of pipeline cleaning and maintenance equipment. The company manufactures a complete range of pipeline cleaners, including foam pigs, mandrel pigs, solid cast urethane pigs and modular all-urethane pigs from 2"-60". Apache also manufactures replacement elements such as discs, scraper cups, conical cups and gauge plates.

The patented pig passage indicator, the Apache "pigPRO™" is also made at the Edmonton, Canada facility and has been designed to install easily on other manufacturers' existing mounts. The units are available with a variety of signals including visual flag/manual reset, electrical/auto reset, or a visual/electrical combination. New to the line of indicators is the Model 67 that incorporates a customized ball valve to allow for safe and simple isolation of the indicator under pipeline pressure for inspection, maintenance or repair. Apache is an ISO 9001:2015 certified facility.



**FREE TECHNICAL
information service**

Email: ppsa@pps-online.com

**Use our service to source pigs and
pigging equipment and for general advice
on the subject.**

**Our members and technical advisers are
on hand to answer your questions about
pigging and pipeline integrity.**

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Applus RTD is a world-wide operating provider of Asset Integrity Services with presence in over 35 countries and has over 4000 employees.

The pipeline division is specialized in internal ultrasonic inspections of "unpiggable" pipelines, municipal heating grids, offshore platform risers, SCRs, casings, etc.

Their inspection tools are self propelled, cable operated ultrasonic crawlers measuring internal and external corrosion, remaining wall thickness, geometrical deviations etcetera. Optionally tools can provide 3D routing data.

The Inspection range is for 4" to 60" and lengths up to 17km, providing full circumferential coverage with fixed/rotating transducer head configurations.

Tailor-made pipeline inspection solutions adapted to local circumstances can be developed by in-house R&D.

Additionally technical services on pipeline integrity, reliability and safety can be provided.

Aubin Group

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Aubin are market leaders in the supply of novel pipeline technologies for use in oil, gas and other types of pipelines.

They offer a full range of pipeline gels and innovative pigs that replace traditional pigs in both piggable, and non-piggable pipelines. The new range of EVO-Pigs are made of non-compressible, deformable materials capable of being launched and received with or without conventional facilities. EVO-Pigs can be used in multi-diameter pipelines with restrictions to 50% of original diameter.

Applications include cleaning, de-oiling, dewatering, debris removal, chemical train separation and spool filling.

With the environment one of Aubin's top priorities, most of their products are certified by CEFAS for North Sea use as Non-CHARMable, OCNS Group E.

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B.G. Technical Limited (BGT) is a leading pipeline service company with significant activity in Africa. Areas of specialization are pigging services; project design and execution, inline inspection service; MFL, Caliper and Impact logger, pipeline commissioning, drying, and nitrogen packing. Other services are chemical cleaning, on-line cleaning in gas pipelines using high volume separators, chemical de-scaling of heat exchangers, HVAC systems, valve servicing/maintenance and supply of launchers/receivers, barrel doors and the like. BGT designs and installs valve interlocking systems for process control and also tamper prevention systems for facility and remote location protection.

A subsidiary company, PPA manufactures various types of pipeline pigs; foam, mandrel, polyurethane systems, and supplies pigging accessories.

Baker Hughes

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For student opportunities

<https://careers.bakerhughes.com/global/en/early-careers>

Baker Hughes is an energy technology company that provides solutions for energy and industrial customers worldwide. Built on a century of experience and conducting business in over 120 countries, their innovative technologies and services are taking energy forward – making it safer, cleaner and more efficient for people and the planet.

Baker Hughes, Process & Pipeline Services (PPS) brings together a unique portfolio of: Pipeline pre-commissioning services: line integrity validation to a variety of pipeline codes; product commissioning; flooding; and cleaning and drying new lines to reduce corrosion, improve efficiency, and maximizing throughput.

Pipeline maintenance services: proprietary chemical products to control corrosion and protect new assets so that operators can reduce costs and meet deadlines; mechanical, chemical, or gel technology cleaning services to help mitigate long-term corrosion; air, vacuum, nitrogen or chemical swabbing to reduce drying time so that operators can get into production quickly; technology to remove deposits, including wax, liquids, black powder, rust, and millscale to improve efficiency without going offline.

Pipeline inspection and integrity services: advanced inspection technologies (mechanical damage, metal loss, crack detection and mapping surveys), integrity engineering expertise and powerful data management software tools to drive enhanced pipeline safety.

CDI

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Established in 1982, CDI is the world's foremost leader in non-intrusive pipeline pig tracking, locating, and signaling technology. With UL/CSA, ATEX and IECX certifications, they have pigging equipment appropriate for any area of the world whether it be onshore, offshore or subsea.

Onshore tracking equipment includes the TRAXALL System which tracks up to seven different pig transmitter frequencies simultaneously. Newly introduced is the GlobalTrack web-based tracking, monitoring, notification and reporting platform for pipeline assets and events. CDI also offers the Mantis 820 which is an ROV system for subsea pig tracking and detection.

Quality, durability and safety are the focus. On-time delivery and exceptional service is the goal of every CDI associate. CDI is an ISO 9001:2015 certified company.

Managing Pipeline Threats

Published February 2020

Occurrence, detection, and mitigation of
major threats to pipeline integrity, from
manufacturing, corrosion and cracking
to mechanical damage and illegal tapping

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CEPS a.s pipeline services and pipeline integrity services experience on high pressure steel pipelines ranges from mechanical and chemical cleaning with proprietary formula cleaning agents, hydrostatic testing with liquids or gaseous mediums, pipeline drying with superdry air or vacuum, nitrogen services, leak detection, manufacturing and installation of repair sleeves and other. CEPS also provides off-line internal inspection of pipeline – propelling of ultrasonic, MFL, TFI and any other inspection tool through the pipeline when the flow of transported medium is insufficient or medium is not available. Their services cover all stages of pipeline life from pre-commissioning and commissioning through regular operational services, integrity revalidation, upgrading, extending the pipeline lifetime, repair and rehabilitation up to pipeline de-commissioning and abandonment.

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Founded in 1992, CPPI provides a full range of pipeline services world-wide. They include: pipeline cleaning, inline intelligent pigging (geometry/deformation, mapping, metal loss/corrosion) and fitness for purpose evaluations. CPPI employs specialists in pipeline operation, data analysis and integrity to serve all of its customers and to provide effective and efficient operations.

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Dacon Inspection Services was incorporated in Oslo, Norway in 1979 as a diving and sub-sea inspection company. With their global headquarters in Thailand they specialize in pipeline inspection services and Advanced NDT Inspections.

Dacon increases pipeline performance and reduces maintenance costs with a full suite of services from inline inspection through to risk based inspection regimes and fitness for service evaluations. By tailoring specific solutions to meet your project needs they offer a cost-effective solution to ensuring optimized pipeline performance.

With many years of experience around the world in some of the most challenging work environments they have built the expertise needed to ensure your pipeline is operating at peak performance.

Drinkwater Products

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Drinkwater Products is a distributor for pipeline pigs and pigging equipment. They are located in Franklin, Louisiana and have been in the pigging business for more than 25 years. They offer a wide range of pigging products, consulting services and have the capability to

custom design pigs for a variety of unique applications. Drinkwater Products works closely with several manufacturers ensuring that their customers have the best options available for his/her particular pipeline pigging needs.

Elastomeros PVM SAS

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PVM SAS, is a Latin American engineering company located in Colombia, with more than 35 years of experience in technological applications for the manufacture and transformation of products for the maintenance and internal cleaning of pipelines (LID).

PVM SAS within its portfolio of solutions to the industry offers:

Cleaning and internal integrity of pipelines: manufacture of cleaning, calibration, displacement and separation, double diameter, collection, drying, flexible compact, foam scrapers, parts and accessories.

Manufacture of sealing equipment for maintenance and repair of pipelines.

Manufacture of external integrity solutions for pipelines: (H-frame, rollers and supports), seals and insulators in rubber and plastic wall bushings, complementary products in the construction stage of pipelines and fluid transport or transfer lines.

In the provision of services PVM SAS performs pigging consulting, simulation and CFD in pipelines, service and support for location and tracking, training and maintenance and storage of pigs.

PVM SAS manufactures its products under quality standards ISO 9001:2015, ISO14001:2015 RUC ISO 45001:2018.

All their products are manufactured under the brand URELAST PIPELINE SERVICES and their slogan "We work from the inside".

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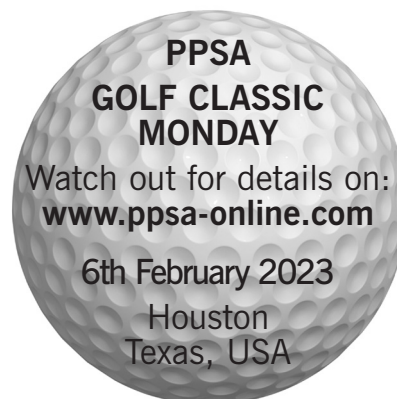
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Enduro Pipeline Services corporate headquarters is located in Tulsa, Oklahoma, USA with additional facilities in Canada. Enduro provides in-line-inspection services, cleaning pigs, tracking equipment, pig passage indicators, tracking and project management services to the pipeline industry.

ILI Services include MFL Multiple Technology tool surveys ranging in pipe sizes 4" through 36". Caliper / Geometry Survey tools ranging 4" through 48" pipe sizes. Enduro also manufactures Pipeline Pigs pipe sizes 2" through 60" in diameter used for cleaning, purging, batching, filling, dewatering, drying and other related applications for on stream and new construction applications. Dual Diameter and Multi-Diameter Pigs, Chemical Cleaning Services, Tracking Services, plus Technical Assistance is offered by Enduro's experienced staff.



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EnerMech is a Specialist Service Company delivering integrated solutions for complex energy and infrastructure projects. Delivering value to their customers by combining experts, equipment, and technology across the entire asset lifecycle. Their empowered experts are here to connect the dots, working closely with you in key locations across the globe, listen intently, respond intelligently and provide bespoke, critical and seamless solutions to take your project forward in the most efficient, cost-effective way. They help you drive efficiencies across commercial, technical and safety while delivering a wide range of specialist services, bundled or as an integrated package. Working side by side with you at every step, they establish long-lasting relationships and a highly collaborative approach to deliver safer, smarter solutions.

ENTEGRA

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Operations Facility

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Operations Facility

London, United Kingdom

Operations Hub

Texas, United States

ENTEGRA is a global provider of Ultra-High-Resolution (UHR) In-Line Inspection (ILI) Systems, specializing in Magnetic Flux Leakage (MFL) and Caliper (CAL) combination ILI services, and Cathodic Protection Current Mapping (CPCM) technologies and services.

Known for having a deep-rooted and experienced staff, ENTEGRA services the global pipeline industry with a

fleet of tethered and free-swimming MFL/CAL/IMU tools ranging from 3 inch through 36 inch, and a fleet of CPCM/IMU tools that range from 6 inch through 24 inch. The modern mechanical and electrical designs of their tools enable them to build them shorter and lighter, thus reducing drag and increasing overall collapsibility and data quality. All of ENTEGRA's tool fleets have identical sensor spacing and sampling rates making all tools capable of collecting data in 4X the resolution of standard High-Resolution tools on the market. ENTEGRA's system, combining UHR tools, its CPCM platform and its team of data analysts and support professionals, is setting the bar for first run success, increased throughput, reduced cost, risk mitigation and ROI.

With multiple locations throughout the US, Canada, and Europe, ENTEGRA partners with pipeline operators and owners, worldwide, to help sustain and improve the integrity of pipelines with industry leading technology and In-Line Inspection Systems.

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EnviroCal Pipeline Solutions has provided the pipeline industry with inline inspection services and products since 2011, delivering both high and low resolution geometry inspections to operators. The RS Caliper's remote reporting options for both new and existing pipelines provides minimum delivery on data turn around.

In addition to inspection services, EnviroCal offers cleaning pigs and 3 sizes of disposable transmitters for pre ILI cleaning or maintenance of pipelines.



Visit PPSA's Web Site
www.ppsa-online.com

for more information and
Hyperlinks to Members'
Web Sites

Eureka Efektif Sdn Bhd

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Technical know-how and years of experience running cleaning pigs become the pillar of Eureka Efektif's pipeline pigging solution. With an experienced team and advanced machinery technology, they design, develop, test and produce the solution that will most benefit their client.

Their commitment is to provide total customer satisfaction by delivering superior quality products within the specified time. This is possible by having QA/QC process which is in line with ISO9001:2008 Standard.

They believe after sales service of a product is crucially important and they aim to have a long-term relationship with their customers by providing excellent customer experience.

GD Engineering

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GD Engineering, a Celeros Flow Technology Brand, is a market leader in the design and manufacture of Pressure Vessel and Pipeline Access Solutions to the oil, gas and process industries.

Their Bandlock™ 2 Closure range provides speed of operation with safety benefits. Used on process vessels e.g. pig traps and filters, size range to 100" diameter, pressures to ASME #2500, with standard butt weld or integral flanged connections.

GD Engineering also supplies very high temperature quick opening closures suitable for pressures up to 1480 psig at 327°C (620°F) using advanced sealing materials.

The Hi-T intrusive and non-intrusive Magalert/Ultralert pig signallers provide reliable pig/sphere passage indication.

Automated multiple pig launchers allow remote multiple pig launching without depressurisation, GD Engineering has available technology to support this application.

The company's quality system is approved to ISO 9001:2015.

Girard Industries

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Contact: John Simpson

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For over 50 years Girard Industries has manufactured high quality pipeline cleaning pigs with unmatched customer service. Girard manufactures the full range of pipeline pigs, including polly-pigs (foam pigs), steel mandrels, solid cast polyurethane, and polyurethane spheres (balls) for both pipeline and meter proving applications. Girard also manufactures replacement cups, discs and other urethane wear parts to fit most pigs on the market.

For those applications requiring rubber, Girard supplies Neoprene and Nitrile spheres, cups and discs.

Girard also supplies Hi-T Pigalerts, intrusive and non-intrusive pig detectors, pig tracking equipment, geophones and other related equipment.

Whether you are cleaning, batching, gauging, coating, proving, tracking, testing, or pushing liquids, there is a Girard pig that will work for you.

Global Process and Pipeline Services Limited

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Global Process & Pipeline Services Limited (GPPSL) is a service company strategically set up to provide pipeline solutions to its customers through detailed engineering and development of fit-for-purpose solutions, while reducing customer OPEX waste and increasing efficiency.

GPPS specializes in full pipeline pre-commissioning (flooding, cleaning, gauging, hydrotesting, pipeline dewatering, drying, and nitrogen services) as well as specialized in-line inspection services. GPPS work on flange management and bolting services, as well as the pre-commissioning of subsea umbilical risers and flowlines.

GPPS have built an impressive track record of success over the years, and made significant investments in pipeline, nitrogen-specific, vessel/tank cleaning, and specialized equipment.

GPPS currently owns and operates the largest inventory of brand-new fluid pumping, air and nitrogen equipment in Nigeria-West Africa

GOTTSBERG Leak Detection GmbH & Co. KG

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GOTTSBERG Leak Detection GmbH & Co. KG located in Hamburg, Germany is a family owned developer and manufacturer providing a technical leading ultrasonic leak detection pig for pipelines to identify and locate even the smallest defects or illegal tapping spots. Their aim is to provide affordable state of the art technology that is easy to handle and absolutely reliable in performance for sales market as well as leak detection services.

The intelligent pigs are approved for ATEX Zone 0 (Class 1 Div. 1), which means that no regulations concerning explosive atmospheres must be fulfilled. With its specialists GOTTSBERG Leak Detection can look back on nearly 40 years of experience in the field of pipeline integrity.

Halliburton Pipeline & Process Services (HPPS)

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Halliburton Pipeline and Process Services deliver engineered technical solutions from pre-com to de-com to maximise efficiency and integrity of their customers' assets.

HPPS operates globally in the midstream and downstream sectors, providing a full range of precommissioning, maintenance, and decommissioning services across the asset life cycle – along with extensive capabilities for complex projects that might be onshore, offshore, in deepwater, remote, or harsh environments

Services include: flooding, cleaning, gauging, dewatering, drying, conditioning, pipeline inspection, mechanical and gel pigging, flushing, hydrotesting and nitrogen testing.

Additional specialist services include subsea pigging and hydrotesting using our Phorcys™ systems, debris and blockage analysis using our InnerVue™ non-intrusive diagnostic technology.

Halliburton also provide nitrogen inerting, helium leak detection, bolt torquing and tensioning, flange management, on-site machining, pipefreezing, video inspection, umbilical testing and flushing, electrical and fibre optic cable testing, and a variety of engineering, analysis, equipment and pumping services.

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Contact: Stuart Reid

IKM Testing with its approx. 1000 employees is a part of the IKM Group which has 2400 employees. The head office is located in Stavanger, Norway with subsidiaries in the United Kingdom (Newcastle and Aberdeen), Canada (St. John's and Halifax and Alberta), Australia (Perth), Singapore, Indonesia (Batam), Malaysia (Kuala Lumpur), Thailand (Rayong), Poland (Gdansk), Brazil (Rio de Janeiro and Serra) and Korea (Busan). IKM has been involved in on-/offshore development projects since 1989.

IKM Testing performs all services related to pre-commissioning, commissioning and decommissioning of pipeline systems, including maintenance of existing pipes and pressure systems. They work actively together with their clients to find optimal technical solutions, accommodating efficiency, environment and economy. IKM Testing also performs FEED studies in the design phase of subsea development projects.

IKM Testing has a certified Quality Assurance system in accordance with ISO 9001:2015, OHSAS 18001:2007 and ISO 14001:2015.

Inline Services LLC

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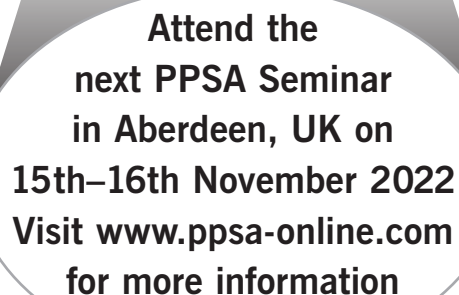
Contact (Sales): Jessica Nichols

Inline specializes in Intelligent Pipeline Cleaning products for pipeline maintenance and carries one of the largest inventories of poly foam, foam disc, urethane and mandrel pigs to offer fast delivery on any style and quantity. They also carry electronic tracking equipment including receivers, geophones, and transmitters.

Inline offers a fleet of 1.5D capable Speed Control Pigs for high velocity pipelines that can maintain optimal cleaning speeds of 6 to 10 mph within a gas flow velocity of up to 33 mph.

Inline's team can design and manufacture custom pig configurations and complete pigging programs.

Inline also provides complete Process Pigging Systems, components and packages for both industrial and sanitary applications, as well as Pipeline Intervention Services including Hot Tapping, Line Plugging, Pipe Freezing, Equipment Maintenance and Operator Training & Qualification.



**Attend the
next PPSA Seminar
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15th–16th November 2022
Visit www.ppsa-online.com
for more information**

INPIPE PRODUCTS™

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Contact: Peter Fretwell (Pigging Consultant)

iNPIPE PRODUCTS™ is an acknowledged world leader in the design, manufacture, supply and hire/rental of pipeline pigging, maintenance and testing products for 35 years.

The company engineers a comprehensive range of Standard & Bespoke products including foam and metal bodied pigs, cup pigs, bi-directional cleaning / gauging pigs, pig handling equipment, isolation tools, spheres, pig signallers, pig tracking, pig diverters, pig launchers and receivers as well as reliable and cost effective engineered solutions to meet specific client project requirements.

iNPIPE HIRE™ offers one of the largest worldwide hire fleets of isolation tools, high pressure plugs and internal and flange type weld testers up to 56". The company has an extensive range of simple, easy to use tools for pipeline testing and isolation which provide a priceless solution.

Intero Integrity Services BV

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Contact (Sales): Winifred Meester, Business Director Industrial and Inspection Services

Intero Integrity provides a complete range of integrated solutions to the oil, gas and petrochemical industries around the world. Through their Pipeline, Inspection, Storage Tank, Industrial and Environmental Service lines, Intero Integrity assists you in every step of your plant operation, from design and ongoing maintenance to end-of-life, to assure maximum plant integrity and sustainable operation.

Intero Integrity Services BV is based in the Netherlands and serves pigging and inspection projects all over the world through its offices in: United States, Canada,

Brazil, United Arab Emirates, Saudi Arabia, Malaysia, Australia, China, Germany, Romania, France, Italy, Spain and Serbia.

Inspection Services: provides in-line inspection of unpiggable pipelines and furnaces including quick scans, defect assessments, pre-engineering, project management, mechanical works and (mechanical or chemical) cleaning, gauging, calliper runs, UT and MFL inspections (free-swimming and crawler), FFS reporting, Remaining Life Assessment, CGA analyses, XYZ mapping (incl DGPS measurement), Depth of Cover calculations and PRIMS consulting.

Pipeline Services: includes engineering and construction services, pre-, re-, de- and commissioning services, maintenance and operating services and decontamination and (chemical) pipeline cleaning services.

Industrial Services: offers nitrogen-related services including reactor cooling, nitrogen or helium leak detection, system purging, furnace decoking and chemical cleaning.

Tank Services: offers integrated tank storage services including sludge profiling, ATEX-0 online robotic tank bottom inspection, external critical zone inspection and foam/nitrogen inerting.

Environmental Services: offers environmental services specializing in emission management and pipeline integrity programs.

Jee Ltd

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Offering specialist engineering consultancy services, including technical assurance and project management, Jee has a long track record of undertaking pigging and plugging projects worldwide. Jee's services cover all phases of the asset lifecycle from feasibility studies, commissioning pigging and baseline in-line inspections (ILI), through operational cleaning and life-of-field ILI campaigns, to cleaning for decommissioning. Focused on reducing risk and maximising the probability of a successful operation, Jee's engineers are specialists in defining and solving the challenges associated with scenarios such as "unpiggable" pipelines, subsea launch/receipt, ultra-deepwater HPHT lines, multi-diameter pipelines and flexible risers.

Jee also offers a range of technical training courses covering integrity management, pigging and plugging, helping build competencies and skills for you and your team.

Kleiss & Co bv

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Kleiss & Co has manufactured and distributed pipeline equipment since 1967. The company provides in-house design, engineering, manufacturing and testing of pipeline pigs for all purposes, from 1" up to 100" and from soft foam up to sophisticated tools for cleaning. CAD facilities, computer and climate controlled manufacturing and process equipment, test facilities guarantee constant quality.

The company provides soft, medium and high density foam pigs, cup pigs, bidirectional pigs, flexible pigs, gauging pigs, brush pigs, magnetic pigs, pipeline spheres, FDA pigs for food and cosmetics, pencil brushes, polyurethane, neoprene, nitril, viton, EPDM and silicone pigs. Kleiss also supplies pig locating equipment, pig signalers, high friction pigs and ancillary materials for pipeline repair, coating, maintenance and installation.

Knapp Polly Pig Inc

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Knapp Polly Pig Inc., the original manufacturer of the Polly Pig, has been manufacturing pipeline cleaners for over 55 years. The company's product lines, in addition to a full line of urethane foam pigs, include urethane cups (conical and scraper), discs, spheres, and several all-urethane pig designs such as the Nova-cast™, Ultra-Seal™, NOVA™, Polly Tri-Cup™, SUD pig, Ultra-Cast™, Polly-Cast™, Foam Disc, Hand-Launch™, Blackbelt™ and K-Disc™. Knapp also supplies steel mandrel assemblies.

Knapp serves the oil & gas, water & wastewater, chemical & food processing sectors of the piping industry. The company specialises in custom designs and materials to suit all applications. Products are available to be used in adverse cleaning situations, pipe size reductions, long distance pig runs, sour gas lines (with H₂S present), automatic pigging operations and other special procedures. The products are available in sizes up to 90 inch, and the company offers assistance to pipeline operators in optimising the cost and efficiency of pigging by analysing their current pigging procedures and making recommendations on improvements.

Limpro Nacional, SA de CV

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Limpro Nacional, SA de CV is an ISO 9001:2015 certified company and began manufacturing urethane products in 1987.

Limpro manufactures a full range (2" to 48") of foam pigs, steel mandrel pigs, pencil and flat wire and round steel brushes, urethane cups and discs and solid cast pigs for cleaning, batching and gauging with different configurations for regular and special operations. Replacement parts fit most available pigs in the market.

Limpro also performs complete pigging projects including cleaning, batching, dewatering, pig tracking and complete geometry pig services.

Limpro designs and manufactures special pigs to solve specific problems under special conditions and Limpro also offers pigging related equipment and components such as: tracking equipment, and pig detectors.

Majestic Offshore Sdn Bhd

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Majestic Offshore was incorporated in January 2012. Their office is located in Shah Alam, Malaysia with employees having vast experiences in oil and gas pipeline inspection services and maintenance.

With the dynamic and experienced team of engineers and skilled workers, Majestic Offshore is geared to deliver specialised, customised and tailor made solutions to their clients in timely manner.

Combined with their in-house R&D capabilities, they provide full range of pipeline inspection services from pipeline cleaning, geometry inspection, magnetic flux leakage inspection to fitness for purpose requirements.

Morken Group

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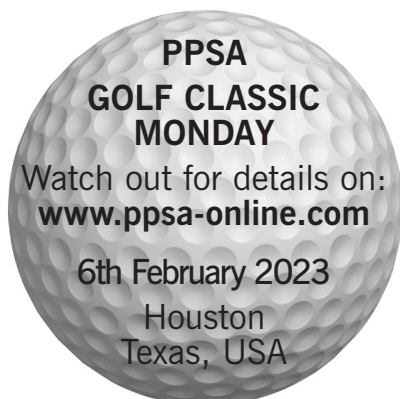
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Morken Group provides to the oil, gas, mining and energy industry, advanced technological solutions that integrates the segments of asset monitoring, inspections, interventions and repairs, anticorrosion solutions, transport of fluids, corrosion protection, and solutions for power generation and energy efficiency.



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Naftoserwis is the member of PERN GROUP, led by PERN S.A. (www.pern.pl), the operator of the Polish network of crude oil pipelines and the leader of petroleum logistics in Poland; CDRIA Pipeline Services Ltd. has been merged with Naftoserwis on December 17, 2018; All Naftoserwis In-Line-Inspection services are rendered using the inspection tools developed and fabricated by Naftoserwis team of engineers; Naftoserwis offers: Ultrasonic Pipeline In-Line Inspection – Metal Loss and Crack Detection, Pipeline Internal Geometry Inspection, Pipeline XYZ mapping; Naftoserwis offers oil tanks cleaning using the Blabo® “non man entry” technology; Naftoserwis inspection personnel and tools are certified according to Polish and international standards: ISO 9001:2008, ISO 14001:2004, PN-N-18001:2004 Certificate, EC-Type ATEX; They have twenty years of In-Line-Inspection services experience in Poland, Europe, South America and MENA regions; Naftoserwis mission is ensuring the integrity and safety of oil and gas infrastructure in Poland and abroad.

NDT Global

NDT Global Corporate Ltd

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NDT Global is a leading provider of ultra-high-tech diagnostic inspection solutions, advanced data analysis and integrity assessment services for ensuring the safety and longevity of energy-sector infrastructure assets. Recognized as the forerunner in ultrasonic inspection technologies comprising Pulse Echo, Pitch-and-Catch and Phased Array, as well as Acoustic

Resonance (ART Scan) methodologies, the company also deploys a range of non-ultrasonic technologies, such as Inertial Measurement Units, with more under development. NDT Global strategically applies its inspection technologies to detect, diagnose and model various types of threat—circumferential or axial cracks, metal loss, geometry, mapping, and more—across diverse classes of assets. By providing predictive, decision-ready insights driven by the world's most accurate data, NDT Global enables the conditions for asset owners to optimize infrastructure health and drive operational efficiencies while reducing risk and minimizing their carbon footprint.

NDT Global is part of Previa, formerly known as Eddyfi/NDT. Previa is an industrial tech group that provides organizations with the data and insights they need to uphold the performance, safety, health, and sustainability of their critical assets and infrastructures, thus providing the best line of defense against their inevitable decline and degradation..

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Online Electronics, an IK Group company, have 25 years' experience in design and manufacture of pipeline pig locating and signalling equipment and advanced pipeline datalogging and testing systems.

Their main objective is to provide operators and installation companies with the means to achieve significant cost savings by minimising vessel time offshore and minimising downtime onshore.

Their innovative and flexible product range utilises a variety of technologies to support clients through the stages of a pipeline's life, from pre-commissioning to inspection, repair and maintenance and finally, decommissioning.

OEL has offices in Dubai, UAE; Singapore and Houston, USA.

3P Services GmbH & Co KG

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3P Services provides in-line inspection (ILI) services for pipelines in the oil, gas, and petrochemical industries for over 28 years – using high resolution MFL (Magnetic Flux Leakage), GEO (geometric), DMR (Direct Magnetic Response), XYZ (inertial mapping), SRD (Short Range Distance) and UT (ultrasonic).

The fleet comprises more than 300 “live” ILI tools ranging from 2” to 48”. There are tools for conventional (free swimming), for bi-directional (pump-in/pump-out), and pull through (tethered) operations. Dual or multi-diameter, high temperature, vertical casing, small diameter and combo tools are available on request. The company's specialty is pipelines that are considered “difficult to pig” or even “unpigable” and of course ILI of standard pipelines.

3P Services provides associated services including feasibility studies, pre-inspection proving and cleaning, geometric inspection, post-inspection support, corrosion growth studies comparing the results of different ILI and other.

4Pipe Hidropig Engenharia Industrial LTDA

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With over 30 years of experience in the Brazilian pipeline market, 4Pipe-Hidropig is today a leading manufacturer of cleaning pigs in South America. They own the most modern factory in the country, where they manufacture 100% of polyurethane Pigs and accessories. In the service department, they meet most diverse demands of the segment, from pipeline cleaning to pipeline inspection with Instrumented Pigs. They have a group of specialized professionals who have a solid knowledge of pipeline engineering.

PIPECARE Group

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PIPECARE GROUP has been serving the oil and gas industry worldwide providing in-line inspection and integrity support services since 2001.

PIPECARE GROUP certifications include ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004, TS/29001:2007, API Q1, 94/9/EC ATEX Directive, GOST R and CE Marking.

PIPECARE GROUP's core activities include:

In-line Inspection services using MFL, TFI, Caliper/Geometry & UT technology. Services including pipeline cleaning, gauging, removing dust (black powder) using cyclones, removing wax, pigging solutions for "un-piggable" pipelines, speed reduction. Supply of pig traps, cleaning pigs & accessories. Pipeline repair services Integrity management support services including FFP, RRR reports. Project management and field execution carried out by professionals certified as per API 1163.

PSI – Pipeline Services International GmbH & Co KG

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PSI – Pipeline Services International, provides special services for pipeline pre-commissioning, rehabilitation and pipeline inspection. Pipeline inspection is a part of PSI, which uses its own fleet of single, and the new multi-channel caliper tools for baseline surveys, passage control for third party intelligent inspection tools and the usual inspection of deformation of the inner diameter of pipelines. The advantage of the new multi-channel system is to give additional information about

the o'clock position and the shape of the detected indication.

PSI also provides the following services: hydrostatic testing by water, air or gas; chemical/mechanical cleaning; pipeline drying by air, nitrogen, or vacuum; intelligent pigging; leak detection; construction/sale of pigs; supervision of all above mentioned services.

PT Tri Mulya Gemilang

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PT Tri Mulya Gemilang is an Indonesian company which focuses its business in providing services especially for pipeline cleaning, inspection and services for oil and gas industry.

PT. Farrel Internusa Pratama

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PT. Farrel Internusa Pratama is an Indonesian company established in May 2001. Their services include pre-commissioning and commissioning, hot tapping, stopple plug, cold bending, cold cutting and pipeline cleaning and intelligent pigging services.

Their product supply are pigging materials, split tees, pig signalers, pig launchers/receivers and quick opening closures (QOC).

Pigs Unlimited International, LLC

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Pigs Unlimited International, LLC is a leading manufacturer of a full line of pigging products including foam, solid-cast urethane, and steel-mandrel pigs, as well as spare components (cups, discs, and brushes) of pigs from ½"–96". PUI also manufactures and supplies ancillary tools and equipment often needed to complete a pigging job such as pig trackers, pig poles, pig passage indicators, traps and more. These pigs are utilized for various functions including drying, batching, cleaning, dewatering and displacement.

Pigs Unlimited's ability to have stock always available and quick production times on durable custom-built pigs has made it one of the leading manufactures in the market.

Pigtek Limited

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Contacts (PPSA): Ralph Hyslop & Richard Kershaw

Contacts (Sales): Ralph Hyslop & Richard Kershaw

Pigtek design and supply specialist high performance pigging equipment and services for applications where proprietary "off the shelf" equipment will not perform efficiently.

Pigtek products and services have evolved from years of on-site international pigging experience.

Products are available on a sale or hire basis and include: dual/multi diameter pigs, heavy-duty magnetic cleaning pigs, heavy duty brush pigs, HDR de-scaling pigs, advanced by-pass pigs, pig tracking and location equipment.

On-site services include pipeline proving and gauging, advanced pipeline cleaning for flow improvement, pre-inspection proving and cleaning, pig tracking, stuck/lost

pig location / removal, training / supervision during pigging operations.

Development services include specialist pig design, pig verification trials, feasibility studies, developing pigging procedures.

Full technical support is assured and Pigtek are certified to ISO 9001:2015.

Pipeline Cleaners Inc

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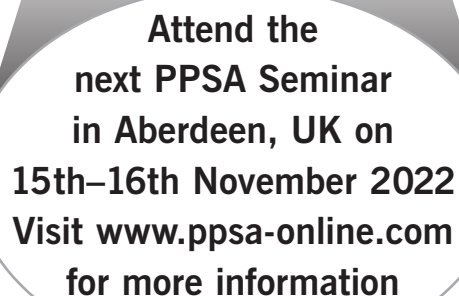
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Pipeline Cleaners began over 130 years ago as a boiler and flue brush manufacturer. Through the pursuit of new markets, the company evolved in to the pipeline industry. Today, with more than 80 years of experience in making brushes and steel mandrel bodies for the pipeline pigging industry, Pipeline Cleaners is well known as a leader in both industries. PLC continues to strive to improve quality and efficiency. PLC now has two fully automated pipeline brush machines. Steel mandrel pigs can be custom built to meet or exceed customers' requirements.



**Attend the
next PPSA Seminar
in Aberdeen, UK on
15th–16th November 2022
Visit www.ppsa-online.com
for more information**

Pipeline Engineering & Supply Co. Limited

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Circor Pipeline Engineering design, tests, and manufactures pipeline pigging and flow assurance products and has provided pipeline engineering and project management services all around the world for over 50 years. Pipeline Engineering supplies a full range of quick opening closures, pig signalers, pipeline pigging tools, and pipeline spheres, as well as designing and producing bespoke client specific polyurethane products with fabrication, machining, polyurethane moulding, and advanced testing facilities.

Industries serviced include oil, gas, process and renewables, where a strong reputation has been built for quality, expertise and providing project specific and innovative product and service solutions.

Pipeline Engineering holds ASME U/U2, PED, ISO/TS 29001, ISO 9001, ISO 14001 and BH OHSAS 18001 certifications.

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in Aberdeen, UK on
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Pipeline Equipment, Inc

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www.PipelineEquipment.com

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Larry@PipelineEquipment.com

Contact: Brent Lollis

Brent@PipelineEquipment.com

Pipeline Equipment, Inc. provides quality equipment for the energy and other industries. Products include: Twinlock Quick Opening Closure, pigs and spheres, launcher and receiver barrels and systems, automated systems for pigs and spheres, mainline valve assemblies, liquid and gas measurement equipment, pressure and flow control skids and station buildings including EGM, analyzer, MCC, and control. The Machine Division provides closures and custom machining. The Extrusion Division provides single and multiple outlet headers, reinforcing weld saddles, full encirclement saddles, drum drilling, and other custom extruded products. PEI also has a full-service blasting and coating division. PEI is an ASME and ISO 9001 certified facility with offices in Tulsa, Oklahoma; Houston, Texas, Denver, Colorado and representatives throughout the USA.

Pipeline Innovations Ltd

Unit 41B, Colbourne Crescent, Nelson Park Industrial
Estate, Cramlington, Northumberland, NE23 1WB, UK

Tel: +44 1670 618861

E-mail: info@pipeinn.com

www.Pipeline-Innovations.com

Contact (PPSA & Sales): Peter Ward

Pipeline Innovations Limited (PIL) provide pipeline geometry and data acquisition services across all stages of a pipeline life cycle from construction, pre-commissioning, commissioning, production, operations and inspection right through to decommissioning and abandonment.

Technologies include multi-channel, multi diameter caliper for onshore, offshore and deepwater pipeline commissioning. The Pathfinder foam geometry pig, is a unique product which is designed for proving, measuring and locating changes in diameter, restrictions, dents, debris mapping and assessment in difficult to pig

pipelines. PIL also provide a range of robust and compact pipeline data loggers that can be installed on utility pigs and used to measure and record environmental and ride parameters in onshore and offshore liquid and gas pipelines.

PIL support a broad range of pipeline cleaning, inspection and integrity activities and work with a wide range of international pipeline operators, pipeline service companies, flow assurance and integrity providers.

Pipeline Pigging Products Inc

PO Box 692005, Houston, Texas 77269, USA

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Tel: +1 281 351 6688, (800) 242 7997 (US)

Fax: +1 281 255 2385

E-mail: shannonkerr@pipepigs.com

www.pipepigs.com

Contact (PPSA & Sales): Shannon Kerr,
Spencer Cubage

Pipeline Pigging Products Inc, a company with over sixty years of combined pig manufacturing experience, offers a full line of flexible polyurethane foam pigs, commonly known to the trade as "poly pigs". Available in drying, wiping and scraping types for pipe sizes below 2" to over 78" in diameter.

The company also has a pipeline cleaning division, Flowmore Services. This group which was founded in 1977, provides PPP customers with the technical "know-how" to use their pipeline cleaning products properly. In addition, Flowmore provides constant product feedback to the manufacturing group in order to ensure the products meet the tough needs of the pipeline cleaning industry.

Pipesurvey International CV

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E-mail: info@pipesurveyinternational.com

www.pipesurveyinternational.com

Contact (PPSA): Peter van Beugen

Contact (Sales): Ralph van Wijgerden

Pipesurvey International is a service provider for pipeline inspection, intelligent pigging and pipeline integrity. From the start, Pipesurvey International tools are designed to offer solutions for piggable and

non-piggable pipelines, such as reverse-flow operation, multi-diameter pigging, pigging at low pressure and flow or using active speed control in high flow gas pipelines.

The small to medium sized company is customer-oriented, flexible and innovative and has gained thousands of kilometres experience on a global basis, both onshore and offshore.

Pipesurvey International has developed propriety technique for pipeline inspection, ranging 3" up to 56", including Geometry, XYZ, MFL, TFI, camera, UT, robotic inspection, Datsurvey® software, defect assessment, Fitness-for-Purpose and Risk-based Assessment, engineering and consultancy, as well as specialized pipeline cleaning.

PipeWay Engenharia

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Tel: +1 877 3594848

E-mail: rmiranda@pipeway.com

www.pipeway.com/

Contact (PPSA & Sales): Raphael Miranda

PipeWay has 19 years experience in ILI inspection. It was formed through the licensing of technology developed by Petrobras to solve integrity monitoring issues in its onshore and offshore pipelines and plant piping. The high resolution MFL equipment for piggable pipelines is controlled by powerful software that allows the integration of prior run data from both PipeWay and competitors. Patented Porcupine technology is used to detect and measure internal defect anomalies that are problematic for all MFL tools. These defects include channeling corrosion, erosion, general corrosion, general wall thinning and encrustations that can hide bacterial corrosion colonies. GIP is MFL technology applied externally to the pipeline for use in non-piggable pipelines, plant piping, pier piping and for localised prove up.



Visit PPSA's Web Site
www.ppsa-online.com

for more information and
Hyperlinks to Members'
Web Sites

PolyEurope bv

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Contact (PPSA & Sales): Rick Jägers

Contact (Sales): Ronald Jägers

PolyEurope bv is located in the heart of The Netherlands. Founded in 1974, the company has become Europe's full line leading company in the manufacture, design and supply of high performance pipeline cleaning and testing pigs to the oil, gas and municipal industry. Its management team has more than a century's combined experience in the pigging and pipeline industry. With production, storage facilities, a research & development centre in the Netherlands and quality accreditation to BS EN ISO 9001:2015, PolyEurope bv is well placed to make a significant impact on the oil and gas market worldwide.

RAS Rohrleitungs- und AnlagenService GmbH

Lanzstrasse 5, 49716 Meppen, Germany

Tel: +49 5931 98 50 00 **Fax:** +49 5931 98 50 50

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RAS Rohrleitungs- und AnlagenService GmbH provides globally pre-commissioning, rehabilitation as well as de-commissioning services on- and offshore. Representing 30 years of experience the service range includes pipeline cleaning, testing with liquid or gaseous mediums, drying with air, nitrogen or vacuum, inerting etc. and pigging for multiple applications such as cleaning, batching, leak detection and caliper pigging.

Since early 2011 RAS has provided pipeline inspection by means of its own GPI-tool, providing true multi-channel measurement, XYZ-mapping etc.

RAS was founded in 1992, has 60 employees and is certified in accordance to ISO9001, ISO14001, ISO45001 and SCC^P by DNV – GL.

ROSEN Group

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E-mail: info@rosen-group.com

www: rosen-group.com

Employment opportunities

<https://jobs.rosen-group.com/Jobs>

The ROSEN Group is a globally leading provider of cutting-edge solutions in all areas of the integrity process chain. Since its origins as a one-man business in 1981, ROSEN has rapidly grown and continues to do so. Today, the business is still privately owned and consists of a team of more than 3,300 employees, operating in more than 120 countries.

For more information about the ROSEN Group, please go to www.rosen-group.com.

ROSEN offers: Pipeline cleaning tools, cleaning analytic services, accessories and electronic instruments, in-line inspection, high-resolution geometry inspection, XYZ mapping, high-resolution metal loss inspection utilizing magnetic flux leakage, ultrasound and eddy current technologies, pipe grade and material properties inspection, girth weld and long seam inspection, EMAT crack and coating disbondment detection, Ultrasonic crack detection, multi-diameter and robotic pipeline inspection, bi-directional and tethered pipeline inspection, leak detection, video inspection, inspection of plant and terminals, coiled tubing, flow and gathering lines, integrity management software, integrity engineering & consultancy, inspection solutions, integrity solutions, R&D solutions, product solutions, internal and external pipe coating, monitoring solutions, education systems and services.

Reinhart Hydrocleaning SA

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Courroux, Switzerland

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www: rhc-sa.ch

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info@rhc-sa.ch

Family business in third generation with 20 employees established in Switzerland 1952 with focus on pipeline cleaning. Close client communication to provide best service from design to development, in-house testing

and execution in the fields to fit clients' expectations. Pre-commissioning, maintenance, operational and pre-inspection cleaning.

Romstar Sdn Bhd

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Group CEO

Contact (Sales): Mohd Bazli Kasim, General Manager
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Romstar offers a full range of pipeline related services, from standard pre-inspection related services-cleaning, gauging, enhanced cleaning (for more difficult lines), to high resolution inspection services deploying intelligent pigs to measure metal loss, internal and external corrosion, pipeline mappings, mechanical deformations and many other features without interrupting the pipeline transportation process.

Romstar possess in-house research and development capabilities and develops its own data interpretation software known as ROMSOFT which is capable of producing pipeline integrity reports for clients with precision and accuracy.

Romstar manufactures the entire range of cleaning pigs and other polyurethane products through its Polymer Division.

STATS Group

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STATS Group are market leaders in the supply of pressurised pipeline isolation, hot tapping and plugging services to the global oil, gas and petrochemical industries. STATS DNV GL type approved isolation tools provide leak-tight double block and bleed isolation that enables safe and efficient maintenance and repair of onshore, topsides and subsea pipeline infrastructure.

Their Process Plant Solutions offer hot-work barriers and localised hydrostatic test tools to verifying the integrity of welds or fittings, reducing system downtime, minimising environmental impact and increasing work-site safety. Mechanical pipe connectors replace the need for welding, significantly reducing expenditure and associated risks with hot-work.

Shenyang University of Technology

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Economic and Technological Development Zone,
Shenyang City, Liaoning Province, China

Tel: +86 15962253969 **Fax:** +86 02425496061

E-mail: fred.lee@pipelineip.com

www.pipelineip.com

Contact: Mr Fred Lee

Pipeline integrity management services, including pipeline pigging equipment, pipeline geometry defect detection (Geo pig), pipeline magnetic leakage detection (MFL+TFI), pipeline crack detection, and pipeline centerline mapping (IMU).

They have 20 years experience in pipeline inspection engineering. Their markets are in Asia, Africa, America and so on. They sell magnetic flux leakage equipment, geometric deformation equipment for long distance pressure pipeline testing equipment.

Sofield Analytic Pipe Asia SDN BHD

1-4-3A City Garden Commercial Centre, Taman Nirwana 68000 Ampang, Selangor, Malaysia
Tel: +603 9212 3036 Fax: +603 9212 3038
E-mail: shamshur@analyticpipe.com.my
www.analyticpipe.com.my
Contact (PPSA & Sales): Mr. Shamshur Abd Aziz,
Managing Director

Data integrity is paramount in every intelligent pigging service. That is justified by the ability of the tool to map the actual condition of a pipeline and locate defects along the line. Meeting accepted quality and specification necessitates the integration of precise mechanical parts and appropriate calibration of electronics.

Analytic Pipe Asia is committed to serve the oil & gas industry by providing reliable intelligent pigging services. Having years of experience in the industry and expertise in multiple physics are the core strength in developing high precision tools. APA has a dedicated R&D team that continually finds every possible solution to maintain the integrity of the deliverables. All this is to ensure the safety of the pipeline hence avoiding any operational risks for customers.

Sriram Foams (P) Ltd

Plot No. GT -46/1, S.NO 2pt, 132 pt, Vadagal -A, Sipcot Industrial Park, Vallam Vadagal, Sriperumbudur Taluk, Kanchipuram Dt- 602 105. India
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www.piganomics.com

M/s Sriram Foams Private Limited established in the year 1999 is an ISO 9001:2015, ISO 14001:2015, and ISO: 45001:2018 company. Integrated Management System certified by Quality Austria. They have been manufacturing various types of polyurethane products from 1999. They specialize in developing and producing all types of pipeline cleaning pigs. They have wide experience in making PU foam pigs in various densities, sizes and mandrel pigs like batching pigs, bi directional pigs PU elastomer cups, discs, magnets, brushes (circular or spring loaded brushes). They specialize in pipeline cleaning services like cleaning, gauging, swabbing and EGP/ caliper pigging as well as designing custom made cleaning pigs and its spares. A high-quality work team with professional engineers, ample equipment, united workers and scientific

management won a reputation for their pipe cleaning equipment. "Customer Satisfaction" based on excellent ability of quality, sales after service & innovation.

T. D. Williamson

www.tdwilliamson.com

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Europe / Africa / Middle East

Tel: +32 67 28 3622

Asia Pacific

Tel: +65 6364 8520

Offshore Services

Tel: +47 5144 3240

T.D. Williamson (TDW) draws upon more than 100 years of industry leadership to help operators of pressurized pipeline systems keep the world's energy life-lines running safely and reliably. TDW delivers a comprehensive portfolio of safe integrity pipeline system solutions for onshore and offshore applications, including advanced isolation and intervention, integrated pigging and integrity assessment solutions.

TRAPIL

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www.trapil.com/en/engineering-integrity-metering-training.php#integrity

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TRAPIL was created by the French government in 1950 to build and operate more than 4700 km of main lines supplying more than 50% of the French refined petroleum consumption.

TRAPIL has developed its own fleet of inline inspection tools based on Ultrasound and Phased Array technologies enabling the detection and sizing of a wide range of defects from metal loss features and geometry to cracks. In addition, TRAPIL offers acoustic leak detection. Their dedicated Integrity Department conducts analysis applying international standards.

The unique situation of TRAPIL as a pipeline operator and service provider enables to qualify its tools on its own lines and stay aware of the needs of other pipeline operators, driving its R&D to propose cutting-edge technologies.

Pipeline integrity is a major challenge and TRAPIL can assist you with customized solutions.

Topline Limited

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Western Nigeria

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Topline Limited, established in 1982, provides pipeline cleaning, pipeline descaling, pipeline integrity surveys and inspection, cathodic protection, pipeline coating, valve maintenance and replacements, manifold maintenance, GRE piping and pumping services in the oil and gas industry.

The company has a team of Nigerian and expatriate engineers with several years of international and local experience. Topline also has a relationship with Weatherford Pipeline and Specialty Services TAPECOAT Inc., USA, and VAL-TEX Houston, USA for the provision of pipeline and valve integrity management planning and related services.

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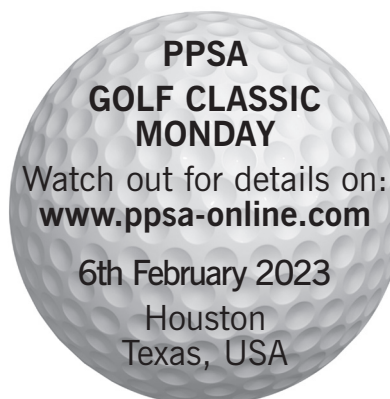
Contact: Ahmad Nazrin Alias

Tracerco is a world-leading industrial technology company that provides companies with the insights they need to make informed decisions about their operations. Their offering includes:

Tracerco Discovery™ – a subsea CT Scanner that allows the non-intrusive inspection of coated pipelines. Discovery™ scans through coatings and provides a high-resolution image of pipeline contents and pipe wall thickness, enabling pipeline integrity flaws and flow assurance conditions to be accurately visualised in real-time.

Tracerco Explorer™ – allows many kilometres of subsea pipeline to be quickly scanned, enabling the location of deposits causing flow abnormalities to be easily identified.

Tracerco Diagnostics™ Pig Tracking – enables operators to monitor the passage of all pigs and rapidly locate any lost or stuck pigs in real time.



Trans Asia

Middle East and North Africa

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Trans Asia Saudi for Pipeline Services

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Transpipe Integrity Solutions (wholly owned subsidiary of Trans Asia Group)

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Contact: Girish Lokwani
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girish.lokwani@transpipe.in

Trans Asia Group and its subsidiary Transpipe are a leading contractor, specialized in Pipeline and Specialty Services for the oil & gas, petrochemical and power industry. Through their offices in UAE, Saudi Arabia, Kuwait, India, Singapore and UK, they provide a wide range of pipeline and specialty services and have

successfully completed projects in the Middle East, South East Asia, Americas, Europe, Africa, Caspian and Indian region for the oil companies and EPC contractors.

Services offered by Trans Asia: Pipeline Services: pre-commissioning and commissioning, pigging, testing, calliper and ILI inspections, nitrogen services, decommissioning of pipelines, gel pigging, chemical cleaning, mothballing pig tracking, stuck pig removals, pig design and piggability studies.

Pipeline Maintenance Services: Online pigging, dewaxing, black powder/scale/wax removals, leak detection/repairs.

Trans Asia also provides full spectrum of process pre-commissioning and commissioning services such as chemical cleaning, oil flushing, nitrogen-helium leak testing, hydro milling, bolting & flange management services, etc.

Transpipe Integrity Solutions Middle East, FZE

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E-mail: info@transpipe.in

www.transpipeintegrity.com

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girish.lokwani@transpipe.in

Transpipe Integrity Solutions Pvt Ltd is a leading Research and Development based company providing In-Line Inspection technologies and solutions to the oil and gas pipeline industry with a plethora of different products and services.

Whether you need cleaning, geometry inspection, deformation analysis and metal loss inspection – their experience and industry expertise enable them to develop, test and validate their high resolution inspection tools developed in-house for global usage.

They work closely with global leaders in oil & gas industry to identify and ensure best-in-class asset integrity solutions with their indigenous developed tools re-assuring their service life. Their affiliate companies and industry partners have vast experience, skilled manpower to deliver high value projects for various services in pipeline pre-commissioning and manufacturing cleaning pigs.

Vee Kay Vikram & Co. LLP

VKVC, "VKV House", 'D' Shivalik Business Center,
Opp. Golf Academy, Rajpath Club X- Road,
S.G. Highway, Ahmedabad – 380 054, Gujarat, India

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VKV Oilfield & Pipeline Services Co Pvt Ltd

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Tel: +91 79 40506119

VKVC – Healing Pipelines since 1969. Established in 1969, VKVC is a Market Leader in Pipeline Pigging Equipment Industry. VKVC is accredited by technical and quality certifications – ASME U, U2, & UM stamp, National Board of Boiler and Pressure Vessel – NB & R stamp, ISO closures, flow tees, Pig wyes, tees, online leak repair clamps, pin hole repair clamps, reinforcement epoxy grout sleeves, hot tap fittings, insulation joints, pipeline connectors, Pig valves and Pig indicators.

VKVC quick opening closures and leak repair clamps are offered with ASME 'U' STAMP and are supplied with corrosion resistant cladding. The sizes range from ANSI 150# to 2500# and sizes up to 64".

VKVC pig launching and receiving valves are offered as per API-6D. VKVC certified for API-6D Monogram under license number 6D-0622.

VKVC also manufactures various types of pipeline pigs up to 56". NB: size, including Bi Di, spherical, commissioning and special purpose pigs.

VKVC dedicated crew are available at various sites in India, Bangladesh and Middle East for carrying out pipe jobs on contract including geometric (EGP) survey of Pipelines & Pig tracking services.

VP Engineers

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VP Engineers manufacture specialized industrial products for pipeline industry, petrochemicals & processing plants.

VP Engineers products for pigging are: Cleaning pigs, batching pigs, gauging pigs, bi-di pigs, commissioning pigs, foam pigs, criss-cross foam pigs, heavy duty foam pigs, swabbing pigs, de-watering pigs, magnetic pigs, decoking pigs, honey comb pigs etc.

VP Engineers also provide customised Pigs – with varieties of spring loaded brushes, circular brushes, silicon carbide strips, tungsten carbide studs, carbon and stainless steel wire bristles attached to the steel mandrel/aluminium mandrel and foam bodied pigs with or without PU elastomer coatings.

Other pipeline related products offered by VP Engineers include casing insulators/spacers, casing end seals, pipe end caps, monolithic insulation joints and ring joint gaskets.



**FREE TECHNICAL
information service**

Email: ppsa@pps-online.com

Use our service to source pigs and pigging equipment and for general advice on the subject.

Our members and technical advisers are on hand to answer your questions about pigging and pipeline integrity.

WSG Industrial Services b.v.

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The founders and directors of PNS b.v. (now known as WSG Industrial Services b.v.) have more than 20 years of experience in the pipeline and process industry. It is their desire to provide a service to the company's clients with an excellent pitch towards safety, efficiency, innovation and quality. During 2009 PNS b.v. merged with its partner company, Coil Services b.v. (now known as WSG Coil Services b.v.) and later on merged with WSG Slickline Services b.v. to form one company employing 350 people worldwide. Today WSG Industrial Services b.v. is a member of the Well Services Group.

WSG Industrial Services b.v. is an integrated service company offering a range of solutions for the onshore and offshore oil & gas industry, the LNG industry, petrochemical industry, pipeline industry, renewable energy industry, industrial chemical industry, power generation industry, pharmaceutical and manufacturing industry. WSG Industrial Services is designed to optimize production and minimize downtime during the whole lifecycle of the pipeline and / or process plant.

Visit PPSA's Web Site
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Hyperlinks to Members'
Web Sites

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3X ENGINEERING

PIPELINE REINFORCEMENT SYSTEM

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E-mail: 3x@3xeng.com www.3xeng.com

Contact (PPSA & Sales): Stanislas Boulet d'Auria

For over 30 years, 3X ENGINEERING is one of the world leading companies specialized in pipeline maintenance using composite technology. Mainly operating in the oil and gas industry, 3X expertise also extends to power and construction sectors. Developer, manufacturer, seller and installer of their products they offer their clients a complete integrated service. From their head offices in Monaco, they operate worldwide (onshore, offshore and subsea), thanks to their large qualified distribution network of over 60 partners.

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Cottam Brush Ltd

BRUSH MANUFACTURER

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Tel: +44 191 428 2510

E-mail: eddie.moon@cottambrush.com

www.cottamtechnicalbrushes.com

Contact (PPSA): David Leathead

Contact (Sales): Eddie Moon

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DB Progetti S.r.l.

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www.db-progetti.it

Contact (PPSA): Margherita Lorusso

DB Progetti is a private company founded near Milan, Italy in 1996, with the goal to provide technical support to the major companies operating in the petro-

chemical and oil & gas industries.

Their core business focuses on pressure vessel engineering, mechanical filtration, Quick opening closures and pig signallers. They provide design engineering and manufacture a wide range of products for the downstream sector, relying on highly skilled staff and only purchasing European raw materials. Their products are completely designed and engineered in their factory in Italy.

Engineered Power

BATTERY MANUFACTURER

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Engineered Power provides the oilfield industry with innovative power solutions for extreme environments. Engineered Power (EP) produces primary lithium thionyl chloride batteries (3.6V), and lithium sulfur chloride batteries (3.9V) specifically for pigging, oil and gas applications. EP's cells are rated up to 225C and are designed and tested to high shock and vibration levels. EP's rigorous cell testing and intensive product inspections ensure maximum performance, reliability and shelf life. Worldwide distribution ensures short lead time for cells & battery packs.

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Contact (PPSA): Robin Veldt

International Energy Company

Fiberbuilt® Manufacturing Inc

BRUSH MANUFACTURER

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E-mail: brush@fiberbuilt.com

www.fiberbuilt.com

Contact (PPSA & Sales): Dan Fletcher

Fiberbuilt® a leading brush manufacturer in the pipeline industry. Fiberbuilt®'s patented MFL brushes and pipeline cleaning brushes have been laboratory tested for best magnetic flux conductivity, strength and wear resistance.

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Galaxy Brushes

BRUSH MANUFACTURER

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Tel: +1 570-457-5199

E-mail: Leeb@galaxybrushes.com

www.galaxybrushes.com

Contact (PPSA & Sales): Lee Batzel, President

Galaxy Brushes is an industry leading brush manufacturer that prides itself on being a customer focused organization that produces creative and high-quality solutions with dependable results.

Innotech Electronic GmbH

ELECTRONICS AND PRESSURE

TIGHT CABLES

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www.innotech-electronic.de

Contact (PPSA & Sales): Wolfgang Markus

Cable Tailoring: Innotech Electronic cables are successfully used in the Oil & Gas Industry and prove themselves daily under adverse ambient conditions. The

cables are exposed to dynamic high pressures in different pipeline media such as crude oil, natural gas, salt water and diesel and are additionally exposed to vibrations and impacts. All cables are manufactured according to customer requirements.

Electronic Manufacturing: Innotech Electronic assembles PCBs, from prototype to mid-sized series. PCBs with SMD are soldered by vapour phase.

Also they offer: the manufacturing and testing according to customer specification; assembling of electronic components and complete device units.

The encapsulating of electronic parts for direct operating in pipelines is completing their range.

KOTI-Dawson Ltd

BRUSH MANUFACTURER

Clayton Wood Rise, West Park Ring Road, Leeds, LS16 6RH, UK

Tel: 0113 275 9321 Fax: 0113 275 2761

E-mail: enquiry@dawsonbrush.co.uk

www.koti-eu.com

Contact (PPSA & Sales): Trevor Wheeler

Established in 1966, KOTI has developed into a specialist manufacturer of industrial and technical brushes for all branches of industry. Part of their range includes internal and external tube cleaning brushes, brushes for attaching to "Pigs" for pipeline cleaning. Their objective is to ensure that their brushes provide additional value to their customer's production processes. KOTI combines decades of craftsmanship with the latest manufacturing technology.

KOTI has established itself as a global group company with a considerable reputation as a market leader.

Osborn GmbH

BRUSH MANUFACTURER

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Tel: +49 6451 588-160 Fax: +49 6451 588-206

E-mail: thildebrandt@osborn.de

www.osborn.com

Contact (PPSA & Sales): Torsten Hildebrandt, Vice President Industrial Tools

Osborn offers weld cleaning brushes for stringer bead, root and hot pass cleaning, all sizes of cup brushes for pipe end and bevel cleaning, double joint cleaning brushes, encapsulated brushes for automatic welding processes, weight coating brushes, brushes for line travelling machines, brushes for internal and external

pipe cleaning, brushes for cut back of multilayer PPN and PE coatings, hand wire scratch brushes, welder's anti-spatter spray (liquid or powder type).

They also offer a wide assortment of cutting wheels, grinding wheels, flap discs, diamond cutting wheels, diamond tools, coated abrasives and vitrified wheels.

Shell International Ltd

OIL AND GAS EXPLORATION AND PRODUCTION

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Stark Pipeline Services

PIPELINE SERVICES PROVIDER

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E-mail: sales@starktrans.com

www.starkpipelineservices.com

Contact: Doug Shanks

Stark Pipeline Services has been a part of the pipeline inspection industry for over 20 years and the company prides itself in maintaining a high level of safety and professionalism. Stark provides a variety of ILI support services including AGM surveying, tool tracking, NORM survey, NORM decontamination, tool cleaning, tool launching and receiving, tool transportation, dig staking, and crane/lifting support. Their technicians receive extensive training and certifications such as task oriented OQs, First Aid/CPR, HAZCOM, TWIC, Rigging Safety, NORM certification, Mobile Crane Operator certification, and more. The goal of Stark is to provide a turnkey operation for its clients.

STOCKMEIER Urethanes USA, Inc

POLYURETHANE MANUFACTURER

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STOCKMEIER Urethanes USA, Inc., located in Clarksburg, WV, is a subsidiary of the STOCKMEIER Group which was founded in 1991 in Bielefeld,

Germany as a polyurethane systems house focused on the development and production of coatings, adhesives, sealants and elastomers. They currently operate four manufacturing facilities worldwide specializing in developing customized urethane solutions for products in numerous markets such as pipeline pigging, subsea, electrical, automotive, and sport surfaces to name a few. With years of experience and research, STOCKMEIER Urethanes is able to provide their clients with the support they need to select the perfect product to meet their needs. Their clients will receive the most efficient and cost-effective polyurethane system every time making STOCKMEIER Urethanes The Smart Solution.

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SNTGN TRANSGAZ SA is the technical operator of the National Gas Transmission System (NTS) which ensures the transmission, under safe, efficient and competitive conditions, of over 90% of the natural gas consumed in Romania, in accordance with the EU performance and environment standards.

As sole technical operator of the Romanian Gas Transmission System, SNTGN TRANSGAZ SA provides, in accordance with the EU and national standards on quality, performance, environment and sustainable development, the following: Domestic and international gas transmission services; Dispatching and research – design activities for natural gas transmission.

The company intends to become an internationally reputable gas transmission operator, a leader on the regional energy market, with a modern national gas transmission system, integrated at European level and a very competitive management system.

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Manufacturers of PiggBettr carbide appendages for pipeline pigs, designed to improve and speed up pigging operations and reducing costs.

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Founder member of PPSA. First President (1991–1992). Treasurer (1991–2000).

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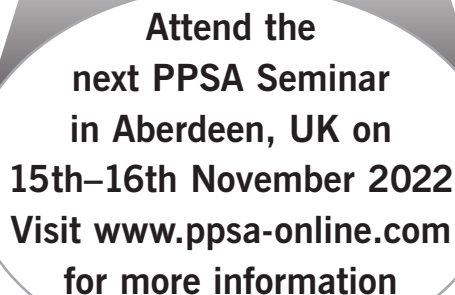
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45 years in the International service, manufacturing and consulting sectors of the pigging industry. Gary was also President of PPSA from 1992 to 1994.



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