



PIGGING PRODUCTS & SERVICES ASSOCIATION

An international trade association serving the pipeline industry

33rd Edition

Buyers' Guide & Directory of Members 2021 – 2022

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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To receive a complimentary copy of the PPSA Directory please go to
<https://ppsa-online.com/subscriptions>

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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Action Drilling Services and Dewatering LLC provides a large range of services, equipment rentals and personnel provisions. They provide engineered solutions to the pre-commissioning, commissioning and EPC market across all manner of sectors. These services are supported by their engineering team and can be individually designed for each specific application. Working with many high profile clients across the MENA region. Services include: all pipeline pigging pre-commissioning services; complete turnkey equipment spreads; filtration, tanks, pumping and air spreads; flushing, swabbing, gel and chemical cleaning; high pressure and ultra high pressure air drying; hydro and pneumatic testing; chemical treatment, pickling, decontamination and passivation; CS and HDPE installation; equipment rental – pumps/compressors/generators; nitrogen services, leak testing, drying, strength testing, purging and packing.



**FREE TECHNICAL
information service**

Email: ppsa@ppsa-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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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"-56". Apache also manufactures replacement elements such as discs, scraper cups, conical cups.

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.

Applus RTD

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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.

**Attend the
next PPSA Seminar
ONLINE on
9–10th November 2021
Visit www.ppsa-online.com
for more information**

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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.

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



www.clarion.org

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For student opportunities

<https://careers.bakerhughes.com/global/en/aspire>

Baker Hughes is an energy technology company that provides solutions for energy and industrial customers worldwide. Built on a century of experience and with operations 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 IECEX 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. Coming soon is the new 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.

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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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Since incorporation in 2006, Cistom Engineering Limited have established excellent relationships with suppliers and customers, including regularly shipping in excess of 1 million litres each year of finished product worldwide to an industry-leading manufacturing and service customer.

Their team has over 50 years of combined experience within the oil and gas sector. This, in addition to their long-established trading relationships make them ideally placed to offer outstanding products and service levels to meet customer demands.

In addition to their existing products they are happy to work with their customers to create bespoke chemical solutions to meet their needs.

Their mission is to provide innovative, greener chemical solutions that do not compromise on performance or quality whilst providing cost-effective options to their clients.

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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.

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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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Global Technology Center

Toronto, Canada

Operations Facility

Edmonton, Canada

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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Girard Industries Europe Ltd

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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.

GOTTSBERG Leak Detection GmbH & Co. KG

Am Knick 20, 22113 Oststeinbek, Germany
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www.leak-detection.de
Contact (PPSA & Sales): Stephan With
Contact (Sales): Rene Landstorfer

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)

Don Facility, Howe Moss Crescent, Dyce, Aberdeen, AB21 OGN, UK

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Halliburton PPS vision is to: Deliver tailored engineered solutions and standardized project management to

maximize up time and throughput of their customers' pipeline and process assets. HPPS operates worldwide providing a full range of pre-commissioning, commissioning, maintenance and decommissioning services, onshore and offshore.

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 their SPHU systems, debris and blockage analysis using their InnerVue™ non-intrusive diagnostic technology.

Halliburton also provide nitrogen inerting, helium leak detection, bolt torqueing 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.

I2i Pipelines Ltd

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Contact (PPSA & Sales): Steve Banks

i2i Pipelines is a sensor technology company that is pioneering the integration of smart sensors into simple operational pigs for high frequency inspection, the collection of Big Data for enhanced analytics, anomaly monitoring and development of predictive maintenance strategies. Combined with advanced signal recognition software i2i can now apply artificial intelligence to sensor data within hours of tool recovery, highlighting critical problems at an early stage and allowing the in-line tools to monitor integrity and flow assurance conditions over the lifetime of the pipeline.

i2i's Pioneer™ tools deliver an innovative low risk and low cost inspection solution, Inspecting pipelines from 2"- 48", including complex geometry and multi-diameter lines in all production mediums without disrupting production. Pioneer tools can be operated by 3rd party personnel with minimal training, require no specialist facilities and used in pipelines with no prior cleaning.

Below is a brief overview of i2i's in-line tools: Patrol™ pig – designed specifically to target illegal taps in a pipeline; Pioneer™ pig – offers full inspection capability for internal anomalies; Prospector™ pig – can map deposits and wax within the pipeline.

IK Group

IK-Norway

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IK Norway, established in 1987, supplies the oil and gas industry with pipeline services and products and is comprised of five departments. PPS – Pigging Products and Services (engineering, supervision, equipment and products for pipeline pigging), Subsea (custom made subsea tools, equipment and operation), Field Services (local pressure test equipment and field support), Pipe Intervention (hot tapping and freeze plugs) and Torque Tension/Instrumentation (bolting services/equipment and calibration of instruments).

IK-UK Ltd, specializes in pigging equipment and plugging products including an extensive hire fleet of certified weld testers, high pressure test plugs and isolation tools. Operating from a modern unit that is capable of manufacturing all products in-house, IK-UK can produce quality pipeline pigging products for both contractors and operators.

With over 20 years' experience, Online Electronics Ltd (OEL) design, manufacture and distribute products employed during pipeline pig monitoring, pipeline data communication and logging operations using acoustic, electromagnetic, magnetic and ultrasonic technologies. Products enable pig tracking and signalling, pressure/temperature data logging, gauge plate condition systems, automated pipeline discharge sampling, ATEX certified products and subsea voltage gradient detection. OEL has offices in Dubai, UAE; Singapore and Houston, USA.

IKM Testing AS

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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.

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 (PPSA & Sales): Edwin Rosier, Sales Manager
Inspection Services

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.

Services: Inspection Services: provides in-line inspection of unpiggable pipelines and furnaces including quick scans, defect assessments, pre-engineering, mechanical works and mechanical cleaning, gauging, calliper runs, UT and MFL inspection, FFS reporting, Remaining Life Assessment, XYZ mapping, Depth of Cover calculations and consulting.

Pipeline Services: includes engineering and construction services, pre-, re-, de- and commissioning services, maintenance and operating services and decommissioning 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, product cleaning, robotic tank bottom inspection and foam inerting.

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

Jee Ltd

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Contact (PPSA & Sales): Jon Davison

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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Contact (Sales): Cees de Haard

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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E-mail: knapp@pollypig.com www.pollypig.com

Contact (PPSA): Tim Owen

Contact (Sales): Brian Harrell

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.



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

for more information and
Hyperlinks to Members'
Web Sites

KTN AS

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KTN AS — A company of the ROSEN group

KTN AS is a technology company specialized in condition assessment and maintenance/inspection of oil and gas pipelines. With extensive experience on/offshore internationally, KTN is especially well-known for their self-propelled tethered tool inspection technology for challenging pipelines. Different types of technologies, including ultrasonic wall thickness and crack measurement (angular beam pulse echo, TOFD and PA) and Eddy Current, and different types of propulsion elements, including bi-directional self-propelled (crawler) and pumped modules, are available for the specialized ILI tools. KTN AS technologies are capable of inspecting pipelines with a 6" or larger diameter, and up to 12 km in length. Due to constant development, every year new technology solutions can be offered to the market.

Limpro Nacional, SA de CV

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Limpro Nacional, SA de CV is an ISO 9001:2008 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.

LIN SCAN Advanced Pipeline & Tank Services

Corporate Office

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

LIN SCAN 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.

LIN SCAN'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.

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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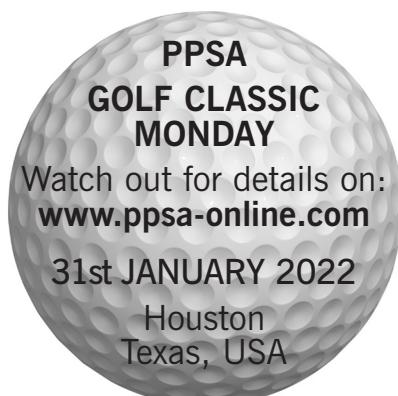
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Morken Group provides to the oil, gas, mining and energy industry, advanced technological solutions that integrates the segments of asset monitoring, inspections, interventions and repairs, anticorrosion solutions, transport of fluids, corrosion protection, 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 GmbH & Co. KG

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NDT Global is a leading supplier of ultrasonic pipeline inspection and pipeline integrity management. Its state-of-the-art inspection fleet provides the entire inline inspection service spectrum for onshore and offshore pipelines.

First run success, best data quality and rapid report delivery are their key benchmarks. A skilled engineering and project management team, complemented by one of the best data analysis teams in the industry, has inspected and analyzed millions of kilometers of pipelines worldwide. The full range of services includes geometry and deformation inspection, metal loss, crack inspection, defect assessment and fitness for purpose investigations. NDT Global is part of Eddyfi/NDT, an innovative technology group that strives to develop the most advanced NDT science and technology in the world.

3P Services GmbH & Co KG

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Germany
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E-mail: info@3p-services.com www.3p-services.com
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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 “unpiggable” 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.

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. Tonsco International

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PT. Tonsco International is a leader in pipeline pigging solutions including pre-commissioning, commissioning, decommissioning, chemical cleaning, umbilical and flow assurance services to the pipeline, construction and process system industries both onshore and offshore services in Indonesia.

Below are included but not limited to PT. Tonsco International capabilities: Pipeline cleaning and intelligent pigging services; EPCI (fabrication, maintenance, installation); Services (Pre commissioning, diving, cold cutting, welding habitat, tightening and tensioning, sub sea tensioning); Rentals (welding machine, compressor, Iso tank, evaporator, heavy equipment, diving equipment).

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

PO Box 157, 1823 33rd Street, Fort Madison, IA 52627, USA

Tel: +1 319 372 2051 Fax: +1 319 372 7091

E-mail: tvanaken@plcpigs.com

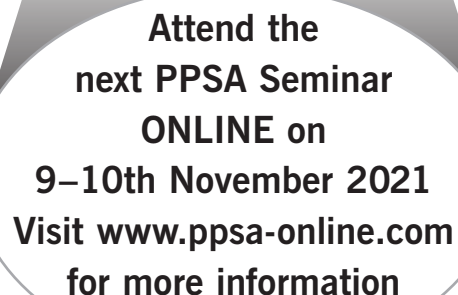
www.plcpigs.com

Contact (PPSA): Terry W. Van Aken

Contact (Sales): Bob Doty (Sales Manager)
bdoty@plcpigs.com

Contact (Sales): Heath Hawthorne (Outside Sales)
sales@plcpigs.com

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.



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ONLINE on
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for more information**

THE PPSA BUYERS' GUIDE

A breakdown of the products and services provided by the Members will be found on the previous three pages. The following is an explanation of some of the less well known terms and items which are listed:

1. "Utility pigs" are used for a variety of purposes such as internal pipe wall cleaning, condensate removal, water fill for pressure testing, gauging, dewatering, drying, commissioning etc. There are many different types available for use in uni-directional, bi-directional and multidiameter pipelines. Utility pigs have been divided into the four different forms in which they are made:
 - a) "Mandrel pigs" are assembled from a number of component parts, and spare parts are available.
 - b) "Foam pigs" are moulded from polyurethane foam with various configurations of solid polyurethane strips and/or wire bristles, studs etc. permanently bonded to them.
 - c) "Solid cast pigs" are moulded in one piece – usually from polyurethane.
 - d) "Spheres" are hollow balls, usually made from polyurethane and inflated to the optimum diameter with water/glycol.
2. "Hyperbaric spheres" and "High DP pigs" are used mainly on subsea pipelines as a temporary plug while the two ends of the line are welded together.
3. "Pig signals" indicate the passage of a pig. Intrusive types are mechanically actuated via a trigger or plunger which protrudes into the line. Non-intrusive and subsea signals may employ magnetic, ultrasonic or radioactive techniques.
4. "Pig locators" are used to locate a pig which may or may not be in motion.
5. "Sphere flow tees" are specially designed to allow a sphere to pass an offtake without stalling. They may be called simply "Sphere tees" or "Flow tees".
6. "Sphere lifters" are usually in the form of tongs or suction devices.
7. "Pig suspension systems" are designed to keep a pig in the centre of a pipeline. They usually comprise spring-loaded skids or wheels and are used for inline inspection tools, or other relatively heavy pigs, and in multi-diameter pipelines.
8. There are two main methods of finding metal loss (corrosion): Magnetic flux leakage (MFL) and ultrasonics (UT). Another emerging technology involves the use of eddy currents.

Further, more detailed information on pigs and pigging will be found in the PPSA book entitled: "An Introduction to Pipeline Pigging". Contact ppsa@ppsa-online.com for details.



PIGGING PRODUCTS & SERVICES ASSOCIATION

Pipeline Pigging Seminar on

"Operational pipeline pigging and Future of Pipelines"

Aberdeen

on 9th/10th November 2021

At the time of going to print the programme was not yet finalised but full details will be available soon.

To find out more and book your place, please contact the Secretary at:

PPSA, PO Box 30, Kesgrave, Ipswich, Suffolk, IP5 2WY, UK

Tel: +44 1473 635863 Fax: +44 1473 353597 E-mail: ppsa@ppsa-online.com

www.ppsa-online/seminar

An International trade association serving the pipeline industry

Pipeline Innovations Ltd

Unit 13E, Atley Way, North Nelson Industrial Estate,
Cramlington, Northumberland, NE23 1WA, 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

11238 Timber Tech Ave. Tomball, TX 77375, USA

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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117, 3330 AC Zwijndrecht, The Netherlands

Tel: +31 78 610 1428 **Fax:** +31 78 610 2128

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 International

Praça Mário Nazaré, 40 – São Cristóvão, Rio de
Janeiro, RJ – CEP: 20940-080, Brazil

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.

PolyEurope bv

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The Netherlands

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E-mail: sales@polyeurope.com

www.polyeurope.com

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 9001:2008, PolyEurope bv is well placed to make a significant impact on the oil and gas market worldwide.

Quest Integrity Group, LLC

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Quest Integrity, a Team Industrial Services company, is a global leader in the development and delivery of asset integrity and reliability management services. The company's integrated solutions consist of technology-enabled, advanced inspection and engineering assessment services and products that help organizations in the pipeline, refining, chemical, syngas and power industries improve operational planning, increase profitability, and reduce operational and safety risks. Quest Integrity is headquartered in Seattle, Washington, USA.

RAS Rohrleitungs- und AnlagenService GmbH

Lanzstrasse 5, 49716 Meppen, Germany

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

E-mail: info@ras-pipeline.de

www.ras-pipeline.de

Contact (PPSA & Sales): Daniel Benscheidt

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Mobile: +49 170 540 79 42

RAS Rohrleitungs- und AnlagenService GmbH provides globally pre-commissioning, rehabilitation as well as de-commissioning services on- and offshore. Representing almost 25 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 SCCP by DNV – GL.

ROSEN Group

Headquarters

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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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Contact (PPSA): Robert Reinhart
rbr@rhc-sa.ch
Contact (Sales): Giacomo Reinhart
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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Contact (Sales): Baharom Hamzah, President and
Group CEO

Contact (Sales): Mohd Bazli Kasim, General Manager
Business Development Manager
bazli.kasim@romstargroup.com

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.

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

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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

Tel: +91 98412 98423

E-mail: muthukumar@sriramfoams.com

www.pipelinepig.in

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.

STATS Group

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Contact: Scott McNae – General Manager

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Contact: Vinu Vijayan, Business Development Manager
vinu.vijayan@statsgroup.com

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.



T. D. Williamson

www.tdwilliamson.com

North & South America

Tel: +1 918 447 5000

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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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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Tracerco Ltd

Measurement Technology Centre, The Moat, Belasis Hall Technology Park, Billingham, TS23 4ED

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Tracerco Asia

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Tel: +603 7803 4622 **Fax:** +603 7803 9312

E-mail: Ahmad.Nazrin@tracerco.com

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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Contact: Robert Fraser, Regional Manager

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Trans Asia Group is 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 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.

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

Tel: +91 79 40506111 (99 lines)

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VKV Oilfield & Pipeline Services Co Pvt Ltd

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Contact (PPSA): Vineet Sood & Viraen Sood
Mobile: +91 98252 30624 & +91 98795 90464

Vee Kay Vikram & Co was established in 1969, is accredited to ISO9001:2000. VKVC manufactures pig barrels, quick opening closures, flow tees, pig wyes, tees, online leak repair clamps, pin hole repair clamps, reinforcement epoxy grout sleeves, insulation joints, pipeline connectors and pig indicators.

VKVC quick opening closures and leak repair clamps are offered with API-6H Monogram under license number 6H-0012. The closures are also available with ASME 'U' STAMP and are supplied with complete cladding.

VKVC pig launching and receiving valves are offered with 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 offers pig tracking services and is authorized sales & service distributor for CDI – USA Pig Tracking Equipment.

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

VP Engineers

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Mobile: +91 9445003988

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.

WSG Industrial Services b.v.

Phileas Foggstraat 65, NL-7825 AL Emmen, The Netherlands

Tel: +31 591 668155 **Fax:** +31 591 668150

E-mail: hschepers@wellservices-group.com

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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.

Xingke Small-medium Enterprise Service Center of Shenyang University of Technology

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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.

Associate Members

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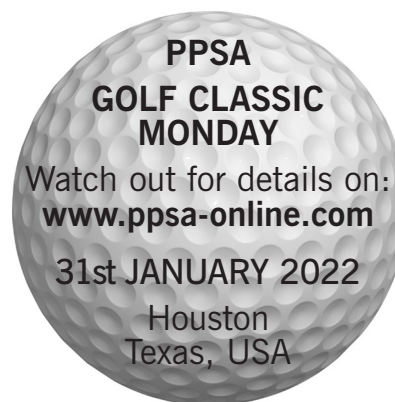
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3X ENGINEERING

PIPELINE REINFORCEMENT SYSTEM

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

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

Founded in 1990, 3X ENGINEERING is one of the leading companies in pipeline repair using composite technology. Mainly operating in the oil & gas industry, their expertise also includes the power and construction sector. They not only manufacture and commercialize their own products but they also offer a complete integrated service, from the design of the repair to onsite installation. From their head offices in Monaco, they operate worldwide, onshore and offshore/subsea, thanks to their large distribution network, today made of over 50 partners.

Their range of products: REINFORCEKIT® 4D: High-performance composite repair solution for pipe reinforcement; REINFORCEKIT® 4D SUSBEA: Subsea composite repair solution for pipe reinforcement; REINFORCEKIT® 1D: Composite prepreg solution for protection and reinforcement; REINFORCEKIT® PATCH: Long-term composite repair solution for tank reinforcement; TANKIT®: Emergency composite repair solution for tank reinforcement; STOPKIT®: Online leak sealing solution for emergency repair; ROLLERKIT®: Pipe and support protection against corrosion under support; REFLANGEKIT®: Online SF6 leak sealing solution for flange repair; REINFORCEKIT® BEAM: Composite repair solution for structure reinforcement; DKIT®: Anti-corrosion solution for structure protection.

Cottam Brush Ltd

BRUSH MANUFACTURER

Unit 7, Monkton Business Park North,
Hebburn NE31 2JZ, UK

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E-mail: eddie.moon@cottambrush.com

www.cottamtechnicalbrushes.com

Contact (PPSA): Ben Cottam

Contact (Sales): Eddie Moon, David Leathead

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DB Progetti S.r.l.

DESIGN ENGINEERING

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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 petrochemical 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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E-mail: rickmarshall@engineeredpower.com

www.engineeredpower.com

Contact: Rick Marshall

Mobile: +1 403 660 3108

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 sulfuryl 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

3613 63rd Avenue NE, Calgary, Alberta, T3J 5K1, Canada

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Fax: +1 800 661 3137 or +1 403 275 4718

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.

Fiberbuilt® manufactures with a variety of wire types, diameters and sleeve dimensions. For the past 50 years, Fiberbuilt® has used its innovative engineering and experience to customize industrial brushes to meet industry requirements.

Galaxy Brushes

BRUSH MANUFACTURER

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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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E-mail: w.markus@innotech-electronic.de

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

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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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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 UK 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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Tel: +1 304 624 7002 Fax: +1 304 624 7020
E-mail: b.blundell@stockmeier.us.com
www.stockmeier-urethanes.com
Contact: Ben Blundell, Business Director Americas

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.

S.N.T.G.N. Transgaz S.A.

PIPELINE SYSTEM OPERATOR

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E-mail: irina.stefan@transgaz.ro www.transgaz.ro
Contact: Ms Irina Stefan

SNTGN TRANSGAZ SA Mediaș, as the sole technical operator of the Romanian Gas Transmission System (consisting of approximately 14000 km of pipelines and related facilities) provides following services: domestic gas transmission, international gas transmission, dispatching and research-design, in compliance with the national and EU regulations and standards of quality, performance, environment and sustainable development.

The company is committed to become an international 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.

Vitrocell USA, Inc

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Vitrocell USA, Inc., formerly Exium Technologies, Inc., a division of Vitrocell Co. LTD, is a manufacturer and distributor of Lithium Metal Batteries for use in Pigging and Downhole operations for the oil and energy industries. Vitrocell USA products are used worldwide in oil and gas operations, providing excellent performance and long life under extreme conditions (high temperature, shock and vibration). Vitrocell USA currently provides batteries to major corporations in Houston, Calgary and Europe, and is expanding its business to new markets in Asia including China, Middle East, and ROW.

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Pipeline & pigging consultant. Routine & specialist applications; feasibility studies & appraisals; testing and pig verification; modelling & software; expert witness. Technical Adviser to PPSA.

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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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Gill Hornby

Retired Executive Secretary of PPSA

Chris Kershaw

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

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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.



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

for more information and
Hyperlinks to Members'
Web Sites

Some useful conversion factors

LENGTH

1 in	= 25.40 mm
	= 2.540 cm
	= 0.0254 m
1 ft	= 304.80 mm
	= 30.480 cm
	= 0.3048 m
1 mile	= 1.6094 km
1 mm	= 0.0394 in
1 cm	= 0.3937 in
1 m	= 39.370 in
	= 3.2808 ft
	= 0.6214 miles

VOLUME

1 barrel	= 42 US gallons (liquid)
	= 34.9909 Imperial gallons
	= 5.6146 cu ft
	= 158.9871 li
	= 0.1590 cu m
1 US gallon (liquid)	= 0.0238 barrel
	= 0.1337 cu ft
	= 0.00379 cu m
	= 3.7854 li
1 US gallon (liquid)	= 0.0038 cu m
	= 0.8327 Imperial gallons
1 Imperial gallon	= 0.0286 barrel
	= 0.1605 cu ft
	= 277.4171 cu in
	= 4.5460 li
	= 0.0045 cu m
	= 1.2009 US gallons (liquid)
1 li	= 0.001 cu m
	= 1000.0000 cu cm
	= 0.2200 Imperial gallons
	= 0.2642 US gallons (liquid)

VELOCITY

1 mile/hour (mph)	= 0.0167 miles/min
	= 0.0003 miles/sec
	= 88.000 ft/min
	= 1.4667 ft/sec (fps)
	= 1.6094 kilometres/hour (kph)
	= 26.8225 m/min
	= 0.4470 m/sec
1 kilometre/hour (kph)	= 0.01667 kilometres/minute
	= 0.0003 kilometres/sec
	= 16.6667 m/min
	= 0.2778 m/sec

	= 0.6214 mph
	= 54.6800 ft/min
	= 0.9113 ft/sec
1 ft/sec	= 0.6818 mph
	= 1.0973 kph
	= 0.3048 m/sec
1 m/sec	= 3.6000 kph
	= 2.2369 mph
	= 3.2808 ft/sec

MASS

1 pound (lb)	= 0.4536 kg
1 kg	= 2.2046 lb

WEIGHT OF WATER @ 62°F/16.67°C

1 barrel	= 349.9860 lbs
	= 158.7512 kg
1 US gallon	= 8.337 lbs
	= 3.7820 kg
1 Imperial gallon	= 10.0122 lbs
	= 4.5420 kg

APPROX WEIGHT OF CARBON STEEL

1 cu in	= 0.283 lbs
	= 0.128 kg
1 cu ft	= 489.0 lbs
	= 221.8 kg
1 cu cm	= 0.008 kg
	= 0.017 lbs
1 cu m	= 7810 kg
	= 17300 lbs

PRESSURE

1 ft head water @ 60°F	= 0.4335 pounds/square inch (psi)
	= 0.0305 kilogrammes/square centimetre
	= 0.0299 bars
	= 0.3048 m of water
1 m of water	= 0.1000 kg/sq cm
	= 0.0967 bars
	= 3.2808 ft of water
1 psi	= 0.0689 bars
1 bar	= 14.5039 psi

MISCELLANEOUS CONVERSIONS

1 Newton	= 0.225 lbs
1 lb	= 4.448 Newtons

USEFUL FORMULAE

Flow in a pipeline:	m/sec = (brl/day) / 275d ²
	ft/sec = (brl/d) / 83.82d ²
	where d = inside diameter of pipe in inches

This material is reproduced from the PPSA publication "An introduction to Pipeline Pigging"



PIGGING PRODUCTS & SERVICES ASSOCIATION

Visit the PPSA Web Site to find out more about Pigging

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