



# PIGGING PRODUCTS & SERVICES ASSOCIATION

*An international trade association serving the pipeline industry*

31st Edition

## Buyers' Guide & Directory of Members 2019 – 2020

Pigging 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 now has almost 120 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

**CONTACT:**  
[ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com)



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## Alchemy Oilfield Services Ltd

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Contact (PPSA & Sales): Alison Taylor

Alchemy primarily specialise in gels 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 sea-water ingress prevention. Uniquely Alchemy has perfected the manufacture of gels from Kits® 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 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.

## Apache Pipeline Products

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Contact (PPSA & Sales): Brett McNabb

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. Apache also manufactures replacement elements such as discs, scraper cups, conical cups and other auxiliary pipeline accessories.

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. 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.



**FREE TECHNICAL  
information service**

**Email: [ppsa@ppsa-online.com](mailto: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.**

## Aubin Group

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**E-mail:** peter.foreman@aubingroup.com

**www.aubin.co.uk**

**Contact (PPSA & Sales):** Peter Foreman

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.

They also offer other specialist products for applications such as buoyancy (DeepBuoy), leak sealing (DeepSeal) and insulation (DeepGel).

## Baker Hughes, a GE company

### Global Headquarters

Pipeline Pre-Commissioning and Maintenance,  
2001 Rankin Road, Houston, Texas, 77073, USA

**Tel:** +1 713 625 4200

**www.bhge.com/**

### Pipeline Inspection

Atley Way, Cramlington, Northumberland,  
NE23 1WW, UK

**Tel:** +44 191 247 3200 **Fax:** +44 191 247 3101

### For student opportunities

**www.ge.com/careers**

Baker Hughes, a GE company (NYSE:BHGE) is the world's first and only fullstream provider of integrated oilfield products, services and digital solutions operating in over 120 countries. With their reliable range of process and pipeline services, BHGE helps pipeline operators confidently manage their assets, partnering to deliver technology, solutions and expertise for smarter

ways of working. The mutual goal – safe operations, asset integrity and enhanced profitability.

Process & Pipeline Services (PPS), a Baker Hughes, a GE business 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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74012, USA

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**Contact (PPSA & Sales):** Eric Farqué, Owner/Vice President of Sales

**Contact (Sales & Marketing):** Michelle Greer, Sales/Marketing Coordinator

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 Pig Location and Tracking System which tracks up to seven different transmitter frequencies simultaneously. For subsea tracking, the new Mantis 820 ROV Tracking System offers multi-frequency detection at depths of up to 3,000m. Both systems detect CDI's X-Series Programmable, Multi-frequency Transmitters or legacy 22Hz frequency transmitters.

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.

## **CEPS a.s.**

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Tel: +420 241 021 511 Fax: +420 241 021 512  
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[www.ceps-as.cz](http://www.ceps-as.cz)  
Contact (Sales): Filip Tesar, Sales Director  
Contact (PPSA): Dr. Ing Petr Crha, President

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.

## **China Petroleum Pipeline Inspection Technologies Co. Ltd**

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Tel: +86 316 2073065 Fax: +86 316 2077274  
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[www.cnpc.com.cn/gdj/cyqy/jsfwdw/jiance/gsjj.htm](http://www.cnpc.com.cn/gdj/cyqy/jsfwdw/jiance/gsjj.htm)  
Contact (PPSA & Sales): Xiao Yingjie

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.

## **CNOOC Inspection Technology Co., Ltd**

No.335, Jinjiang Road, Tanggu HighTech Zone, Binhai New District, 300451, Tianjin, China  
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Mobile: +86 13502045825  
E-mail: [caiyq3@cnooc.com.cn](mailto:caiyq3@cnooc.com.cn)  
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Founded in 2008, CNOOC Inspection Technical Co., Ltd, is a specialized company for production facility test, inspection and evaluation in oil and gas fields both onshore and offshore in CNOOC. Pipeline integrity technical service is one of their core businesses. They built the first pipeline technical verification and evaluation centre in China with large-scale test loops which allow ILI tools to be tested in products of water, nitrogen or compressed air. They offer a full range of pipeline cleaning and inline inspection services with different technologies in more than 50 pipelines each year. As a professional team with rich experience, they also provide multiple value-added services to pipeline owners, like residual strength and life calculation and integrity management based on ILI inspection findings.

## **Dacon Inspection Technologies Company Ltd**

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Tel: +66 (0) 33 012 484-7  
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E-mail: [sid.johnstone@dacon-inspection.com](mailto:sid.johnstone@dacon-inspection.com)  
[www.dacon-inspection.com](http://www.dacon-inspection.com)  
Contact: Sid Johnstone

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.

## Dtaic Inspection Equipment Co., Ltd

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www.dtaic.com

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Dtaic Inspection Equipment (Suzhou) Co., Ltd, located in Suzhou New District, Jiangsu Province, China, mainly engages in R&D of pipeline inspection tools, inspection services, inspection data analysis and pipeline integrity assessment. It is an advanced pipeline inspection company integrating marketing, equipment R&D, internal and external pipeline inspection, and data analysis. They endeavor to provide pipeline pigging services in such areas as long-distance oil and gas pipelines, urban natural gas pipelines, oil and gas field gathering pipelines and refinery pipeline networks.

The factory integrates R&D, processing, assembly, testing, cleaning and warehousing. Dtaic relies on its professional R&D team, precise manufacturing process, efficient work flow, strict monitoring service to pursue excellence, serving the global customers in a flexible, high-quality and efficient manner.

## Enduro Pipeline Services, Inc

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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.

## ENTEGR

### Corporate Offices & Flagship Operations Facility

#### Indiana, United States

6159 W. 80th St., Indianapolis IN 46278

#### Global Technology Center

Toronto, Canada

#### Operations Facility

Edmonton, Canada

#### Operations Facility

London, United Kingdom

#### Operations Hub

Texas, United States

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E-mail: contactus@entegrasolutions.com

www.entegrasolutions.com

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acrowder@entegrasolutions.com

ENTEGR is a leading provider of Ultra High Resolution (UHR) Magnetic Flux Leakage (MFL) and Caliper (CAL) combination In-Line Inspection (ILI) services. With multiple locations spread throughout the US, Canada, and Europe, ENTEGRA partners with pipeline operators and owners around the world to help sustain and improve the integrity of pipelines with industry leading tools and technology. Known for having deep rooted and experienced staff, ENTEGRA services the global pipeline world with a fleet of tethered and free-swimming Ultra High Resolution tools ranging from 3 inch through 36 inch. All of ENTEGRA's tool fleet 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. The modern mechanical and electrical designs of our tools enable us to build them shorter and lighter, thus reducing drag and increasing overall collapsibility.



## EnviroCal, Inc

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www.ipigs.net

Contact (PPSA & Sales): Cameron Meyer

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.

## Eureka Efektif Sdn Bhd

No 30, Jalan Perindustrian Suntrack, Hub,  
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www.eureka.com.my/

Contact (PPSA & Sales): Noor Mohd Shah Abu Bakar

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, an SPXFLOW 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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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, geo-phones 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](http://www.leak-detection.de)

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**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. Our 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.

## Gulf Petrochemical Services & Trading LLC

Post Box 1633, Postal Code 114, Jibroo,  
Sultanate of Oman

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Gulf Petrochemical Services & Trading LLC is a contractor commercially registered in the Sultanate of Oman for a number of activities such as engineering, procurement and construction (EPC) contracts for green-field and brown-field projects for facilities and pipelines, infrastructure projects, maintenance contracts for oil & gas facilities, integrity management services of cross country pipelines, pipeline rehabilitation and environmental services.

GPS is responsible for the maintenance of over 90% of oil and gas pipelines currently in operation in Oman. GPS owns one of the biggest fleet of plant and equipment in Oman and directly employs over 5000 multi-disciplined manpower. GPS is also active in UAE, Kuwait, Saudi Arabia and India.

## Gulf Strategic Partners WLL (GSP)

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Gulf Strategic Partners (GSP) was established in the Middle East in 2004. Head Quarters in Al Khobar, Kingdom of Saudi Arabia. Collectively their personnel have over 350 years of industrial cleaning expertise. They are ISO 9001:2015 and ISO 45001:2018 certified.

Gulf Strategic Partners provide services including steam blowing, chemical cleaning, water milling, pipeline services, pigging, hydro testing, de-watering, swabbing, air drying and N2 layup, surfactant cleaning, gauging, gel debris pick up, process system drying, N2 purging and preservation, helium leak testing, lube oil system flushing, fin fan cooler cleaning, process decontamination, tank cleaning, wire brush pigging to remove debris in pipelines.

Pipeline pigging is performed during new construction, decommissioning, abandonment and subsequent removal of pipelines.

## Halfwave AS

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Based in Bergen, Norway, Halfwave is a leading pipeline inspection company for the oil and gas industry. On land or subsea, its patented ultra-HD ART (acoustic resonance technology) system brings exceptional accuracy to its customers. Giving the clearest picture possible of pipeline integrity.

The tools can inspect various assets and across many situations; multi diameter, multi geometry and multi terrain. Pipeline, flowline and riser. Halfwave inspection technology offers integrated wall thickness mapping, geometry and inertial mapping in one run.

Halfwave's own ART Scan and ARTEMIS tools are uninhibited by traditional 'direct wall thickness measurement' inspection methods which need liquid couplants or can't inspect through coatings or deposits like wax. Halfwave can, all the while maintaining the pinpoint accuracy of the inspection data.

## Halliburton Pipeline & Process Services (HPPS)

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[www.halliburton.com/en-US/ps/production-solutions/pipeline-process-services/](http://www.halliburton.com/en-US/ps/production-solutions/pipeline-process-services/)

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Halliburton's 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 PressurePulse™ technology.

Halliburton also provide nitrogen inerting, helium leak detection, bolt torqueing & 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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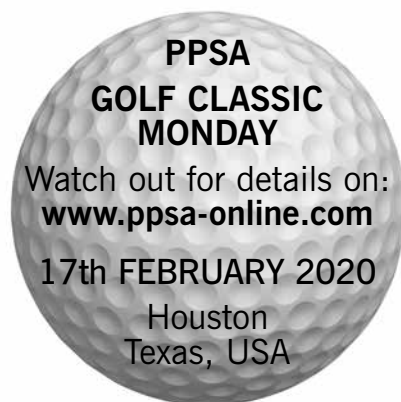
**www.i2ipipelines.com**

**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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### Online Electronics Ltd

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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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### **IKM Testing Australia Pty Ltd**

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**Contact:** Natalie Brown

IKM Testing with its approx. 1000 employees is a part of the IKM Group which has 1950 employees. IKM Testing specializes in providing pipeline services to the oil and gas industries. The head office is located in Stavanger, Norway with daughter companies 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), Brasil (Rio de Janeiro and Serra) and Korea (Busan). IKM has been involved in on-/offshore development projects since 1989. It offers a safe and cost attractive alternative within pipe-/pipeline services including: engineering, commissioning, pressure testing, nitrogen services, pigging, flooding, gel, waxing, drying, preservation, isolation, calibration, chemical cleaning, bolting services, video inspection and hot oil flushing. IKM Testing has a certified Quality Assurance

**Visit PPSA's Web Site**  
**[www.ppsa-online.com](http://www.ppsa-online.com)**

**for more information and**  
**Hyperlinks to Members'**  
**Web Sites**

## **In-Line Pigging Solutions Ltd**

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In-Line Pigging Solutions field services focuses on pipeline integrity management, pipeline operational support and pipeline maintenance support. Their main areas of service include: In-line inspection programs and field execution for liquid and gas pipelines; Pre-inspection cleaning programs; AGM sub-metre survey and pig tracking; Maintenance pigging crews; Integrity dig management and field dig inspection; Pipeline operator support and first call management; Pig sales and pig design.

Whether you need full turnkey project management or one component of their overall service offering, you can trust your project to In-Line Pigging Solutions. They have experience completing hundreds of thousands of kilometers of pipeline inspection and pig tracking throughout Canada.

### **New Book!** **Managing Pipeline** **Threats**

**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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## Inline Services LLC

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Inline specializes in Intelligent Pipeline Cleaning products for pipeline maintenance.

Inline 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 Cleaning Tools 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, manage day to day pigging operations or design complete pigging programs.

Inline also provides complete Process Pigging Systems, components and packages for both industrial and sanitary applications.

## iNPIPE PRODUCTS™

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**Contact:** Peter Fretwell (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

Steenoven 2-6, 4196 HG Tricht, P.O. Box 151, 4190 CD Geldermalsen, Netherlands

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**Contact:** Rienk de Vries, General Manager

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**Contact (Sales):** Niek Bruijnesteijn, Serviceline Manager 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 and Industrial 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, United Kingdom, Germany, Romania, France, Italy, Spain and Serbia.

**Services: Inspection Services:** provides in-line inspection of (non-)piggable pipelines and furnaces including quick scans, defect assessments, pre-engineering, mechanical works and mechanical cleaning, gauging, calliper runs, Ultrasound 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.

## 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

Scheepmakersstraat 17, 3334 KG Zwijndrecht, PO Box 254, 3330 AG Zwijndrecht, The Netherlands

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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

1209 Hardy St, Houston, Texas 77020, USA

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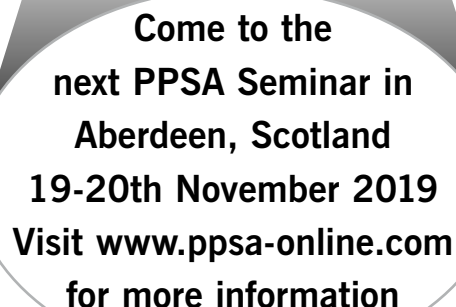
E-mail: [knapp@pollypig.com](mailto:knapp@pollypig.com) [www.pollypig.com](http://www.pollypig.com)

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 H<sub>2</sub>S 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.



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## 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

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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.



## LTS, LLC

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LTS, based in Houston, Texas, was established in 1992 and is one of the world leaders in the design and manufacture of engineered solutions for high pressure pigging systems through 20,000psi used onshore and offshore and ultra deep applications. LTS has over 200 HP/HT systems installed around the world and represents 80% of all major GOM high pressure deepwater projects, and is a leader in the industry in pressure classes of 10,000psi and above.

LTS offers their own ClampTec® Closures, integrated barrel fabrication and supply, pigging valves and complete skid packages ranging from 6" through API 60" and through 20,000psi design pressures, used for onshore, offshore and subsea applications through 10,000ft water depths.

LTS Engineering Services include full R&D, FEED, design and detailed engineering featuring 3D solid modeling, piping and structural analysis as well as FEA to assist international operators and consulting engineers worldwide.

## 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 S.A.

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Morken S.A. 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.

## NAFTOSERWIS Sp. z o.o.

ul. Finlandzka 10, 03-903 Warszawa, Poland

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**E-mail:** [tomasz.ostrowski@naftoserwis.pl](mailto:tomasz.ostrowski@naftoserwis.pl)

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**Contact (PPSA & Sales):** Tomasz Ostrowski

(Sales Team Manager)

Naftoserwis is the member of PERN GROUP, led by PERN S.A. ([www.pern.pl](http://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 “non man entry” method; 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 safety of strategic energy infrastructure.

## NDT Global GmbH & Co. KG

Friedrich-List-Str. 1, 76297 Stutensee, Germany  
**Tel:** +49 7244 7415 0 **Fax:** +49 7244 7415 97  
**E-mail:** europe@ndt-global.com [www.ndt-global.com](http://www.ndt-global.com)  
**Contact (PPSA):** Thomas Wolf  
**Contact (Sales):** Ben Bergius

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 worldwide. First run success, best data quality and rapid report delivery are our 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 company has offices in Australia, Canada, Germany, Ireland, Mexico, Spain, UAE, UK and USA.

## National Oilwell Varco (NOV)

10353 Richmond Avenue, Houston, TX 77042, USA  
**Tel:** +1-346-223-4458  
**E-mail:** midstream@nov.com  
[www.nov.com/midstream](http://www.nov.com/midstream)  
**Contact (PPSA & Sales):** Mike Hester

With over 65 years of manufacturing closures, as well as providing valves and pumps for the midstream industry, NOV has become an industry leader. Their Midstream division is a leading provider of API 6D valves, ASME "U" stamped quick opening closures and pumps for LACT units to the oil and gas industry. Their products are used throughout the global midstream distribution and transmission markets. These products include their gate valves, ball valves, plug valves, check valves, threaded closure, internal door closures, clamp style closures and progressing cavity pumps. It is their goal to provide safe, quality and reliable products to their customers.

## Oceaneering Asset Integrity AS

PO Box 163, Lonavegen, N-5342 Straume, Norway  
**Tel:** +47 52 91 30 00  
**E-mail:** ejohnsen@oceaneering.com  
[www.oceaneering.com/asset-integrity/](http://www.oceaneering.com/asset-integrity/)  
**Contact (PPSA & Sales):** Erik Johnsen  
Tel: +47 970 99763  
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ejohnsen@oceaneering.com

Oceaneering Asset Integrity AS, is a subsidiary of Oceaneering International which is a global oilfield provider of engineered services and products, primarily to the offshore oil and gas industry, with a focus on deep water applications.

Oceaneering Asset Integrity offers the industry in house developed ultrasonic technologies for external inspection of subsea pipelines and structures. Recent product developments, includes EMAT and subsea digital radiography applications for deep water assets.

Oceaneering Asset Integrity AS also provides the market with tailor made inspection solutions for both piggable and un-piggable pipelines, rigid and flexible pipelines using high resolution ultrasonic scanners and self-propelled pigs. Core inspection applications are based on advanced ultrasonic and visual instrumentation.

## 3P Services GmbH & Co KG

Meitnerstr. 10-12, 49835 Wietmarschen-Lohne, Germany  
**Tel:** +49 5908 2656-0 **Fax:** +49 5908 2656-11  
**E-mail:** info@3p-services.com  
[www.3p-services.com](http://www.3p-services.com)  
**Contact (PPSA & Sales):** Basil Hostage  
sales@3p-services.com

3P Services, founded in 1992, specialises in "hard to pig" or even "unpiggable" pipelines.

The fleet of inspection tools ranges from 2" to 48", which are individually prepared for each pipeline to inspect – using high resolution MFL (Magnetic Flux Leakage), GEO (geometric), DMR (Direct Magnetic Response), XYZ (inertial mapping), SRD (Short Range Distance) and UT (ultrasonic). Tools for conventional (free swimming), for bi-directional (pump-in/pump-out), and pull through (tethered) operation will be offered. Dual diameter, multi-diameter, combo and tools outside the existing range of diameters are available on request.

3P Services provides associated services including feasibility studies, corrosion growth studies of previous inspected pipelines, cleaning, geometric inspection, post-inspection support.

## PBJV Group Sdn Bhd

No 3, Jalan Teknologi, Taman Sains Teknologi 1, Kota Damansara PJU 5, 47810 Petaling Jaya, Selangor, Malaysia

Tel: 00 60 3 6143 0000 Fax: 00 60 3 6143 0003

E-mail: [info@pbjv.com.my](mailto:info@pbjv.com.my)

[www.pbjv.com.my](http://www.pbjv.com.my)

Contact (Sales): Kamaruddin Ismail

Contact (PPSA): Muhamad Taufik Talaat

Established in 2000, PBJV Group Sdn Bhd carries the Petronas Vendor Development Program award for "precommissioning, commissioning and decommissioning of the pipeline upstream sector", the only such service in Malaysia.

With continuous development of technical personnel and investment on technology equipment and strategic assets, PBJV is set to be an established player in offshore installation contract and pipeline, construction and maintenance activities both locally and internationally.

PBJV has expanded its business to include offshore pipe laying works, fabrication and constructions, repair and maintenance of pipelines and topsides and hook up services.

PBJV has its own 137m mid shallow water pipelay barge to undertake bigger offshore pipe laying activities.

PBJV's business also provides a full spectrum of an EPCC / EPIC services to clients, positioning them to be a "one stop" centre for installation and transportation of pipeline related services.



## PSI – Pipeline Services International GmbH & Co KG

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Tel: +49 5937 980908 215

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Mobile: +49 171 387 9201

E-mail: [m.strohecker@pressuretest.de](mailto:m.strohecker@pressuretest.de)

[www.pressuretest.de](http://www.pressuretest.de)

Contact (PPSA & Sales): Michael Strohecker

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. Tonsco International

Jl. Karang Tengah Raya Rukan Bona Indah Business Centre No.8J, RT.1/RW.3, Lebak Bulus, Cilandak, Kota Jakarta Selatan, DKI Jakarta 12440, Indonesia

Tel: +62-21 29237053 Fax: +62-21 29237051

E-mail: [sales@tonscoindo.com](mailto:sales@tonscoindo.com) [www.tonscoindo.com](http://www.tonscoindo.com)

Contact (PPSA & Sales): Mr Lilis Munfa'adi

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; EPIC (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).



# 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](mailto:ppsa@ppsa-online.com) for details.*



## PIGGING PRODUCTS & SERVICES ASSOCIATION

*Pipeline Pigging Seminar on  
"Commissioning and Operational Pipeline Pigging" in Aberdeen*

- **Evening Reception – 19th November 2019**
- **Exhibition – 19th/20th November 2019**
- **Technical Paper Presentations – 20th November 2019**

*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:*

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**Tel: +44 1473 635863 Fax: +44 1473 353597 E-mail: [ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com)**

**[www.ppsa-online/seminar](http://www.ppsa-online/seminar)**

**An International trade association serving the pipeline industry**

## Penspen

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Newcastle upon Tyne, NE1 3AZ, UK

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**www.penspen.com/**

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Tel: +44 191 260 6236

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**Contact:** Houston/Mexico Tel: +1 713 402 8120

Penspen provides pipeline and pigging technical consultancy services and project management, a focussed capability on integrity management and risk assessment of onshore and offshore pipelines. Penspen is independent of construction and ILI vendors and provides best practice advice and solutions to pipeline operators, onshore & offshore.

**Pigging services:** Inspection consultancy including: inspection needs assessment; pre commissioning, de-commissioning strategies, engineering assessment; design and remedial works; pig design and specification; tendering; contract management and operational supervision.

**Integrity services:** Integrity assessment; dig verification; repair and rehabilitation, pipeline integrity management systems; risk, reliability and RBI; assessment of geo-hazards; Pipeline Defect Assessment Manual (PDAM); FEA, fracture and fatigue; specialist training.

Penspen has 70 technical specialists experienced in operations, fieldwork and integrity assessment.

The Penspen Group is an established international engineering company providing; pipeline routing and design consultancy; construction support; asset management and O&M services.

## Pigs Unlimited International, LLC

15719 Treichel Road, Tomball, Texas, TX 77377, USA

**Tel:** +1 281 351 2749 or 800 578 7436

**Fax:** +1 281 351 4658

**E-mail:** sales@pigsunlimited.com

**www.pigsunlimited.com**

**Contacts (PPSA & Sales):** Allen Pennington and  
John Pennington

**Contacts:** Sheena Engledow – Sales Director

Pigs Unlimited International LLC supplies pipeline pigs, pigging components and equipment, and provides

consultancy services. Its manufacturing division produces a full line of pigs from ½"-96" including foam pigs, steel mandrel pigs (cup, disc, brush, blade), and solid cast pigs (sphere, cup, disc). These pigs are utilized for various functions including drying, batching, cleaning, dewatering and displacement. It also offers pigging related components and equipment, including launchers, receivers, pig detectors, trackers, pigging valves, diverters, and closures.

It also offers customer classes designed for educating clients and employees that may be new to pigging operations, or are needing to implement new pigging programs.

## Pigtek Limited

Unit 2, Langham Park, Mansfield Road, Corbriggs,  
Chesterfield, Derbyshire, S41 OGG, UK

**Tel:** +44 1246 850220

**E-mail:** sales@pigtek.com

**www.pigtek.com**

**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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IA 52627, USA

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[www.plcpigs.com](http://www.plcpigs.com)

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

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

Pipeline Cleaners began over 125 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.

## Pipeline Engineering & Supply Co. Limited

### Headquarters:

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Pipeline Engineering, a Circor Energy Company, designs, tests and manufactures pipeline pigging and flow assurance products and provides pipeline, engineering and project management services.

Pipeline Engineering supplies a full range of pipeline pigging tools, pipeline spheres, pig launchers and pig

receivers, quick opening closures and pig signallers. Pipeline Engineering also designs and produces bespoke client specific polyurethane products. With fabrication, machining, polyurethane moulding and testing facilities, Pipeline Engineering provides a turnkey service for clients.

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 is an ISO/TS 29001, ISO 9001, ISO 14001 and BH OHSAS 18001 registered company.

## Pipeline Equipment, Inc

8403 S 89th West Avenue, Tulsa, Oklahoma 74131,  
USA

Tel: 918-224-4144 Fax: 918-224-4455

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[Brent@PipelineEquipment.com](mailto: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 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.

## Pipeline Services LLC (PLS)

PO Box 4500, Abu Dhabi, United Arab Emirates

**Tel:** +971 2 555 45 13 **Fax:** +971 2 555 39 93

**E-mail:** mail@pls.ae

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Mohamed Habbouly

### Altabyss Technical Services LLC (ALTABYSS)

PO Box 126815, Abu Dhabi, UAE

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Arnoldous Maas

Founded in 1960 and established in the United Arab Emirates in 1979, Pipeline Services LLC (PLS) has an in-depth knowledge of the performance requirements set by the regional oil and gas operating companies and EPC contractors.

PLS expertise and package services covers: Pipeline pre-commissioning, commissioning, decommissioning, rehabilitation, hot tapping & stoppling; Cathodic protection systems including designs and engineering, procurement and installation, commissioning, surveys, external coating defects assessment, maintenance and rehabilitation; GRE/GRV/GRP piping systems including stress analysis, shop fabrication, field installation, pipe system repairs, retrofit, rehabilitation and reinforcement.

ALTABYSS, founded in Abu Dhabi in 2010, is now a multidiscipline company covering the following activities: GRE/GRV/GRP piping systems (EPC): onshore/offshore/marine; Site survey, spool fabrication, field installation, rehabilitation; air pigging and hydrotesting; piping, clamps fabrication & installation, hydraulic bolt tightening; pipeline and utilities rehabilitation, commissioning and decommissioning; Integrity management, geometry and corrosion in-line inspection; Underwater works at waste management plants, chemical and nuclear plants; Treatment of water and aquatic environment.



## Pipesurvey International CV

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Contact (PPSA): Peter van Beugen

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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.

## Pipetech Corporation Ltd

3311-114 Avenue SE, Calgary, AB T2Z 3X2, Canada

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Pipetech has built a reputation around the world for helping companies maintain the integrity of their pipeline assets. Every pipeline system has its challenges and Pipetech's pigging programs are designed to ensure the integrity of pipelines while optimizing flow rates.

Tasks from maintenance and heavy solids removal to preparation & implementation of corrosion inhibitor chemical in virtually any pipeline are accomplished with a line of industry-leading pigging products with superior sealing and scraping properties. Pig Signallers, pig location and tracking equipment, transmitters, meter prover spheres and pig valves round out their pigging product offering.

Their years of experience, deep expertise and quality products help ensure the safe operation of pipelines and the safe-keeping of communities.

## Q-Inline

14411 West Road, Houston, Texas 77041, USA

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www.q-inline.com

Contact (PPSA): Stephanie Hamm

Q-Inline is a full service inline inspection company which currently provides deformation and MFL inspection services for diameter sizes from 6 through 32 inch. The MFL tools have tri-axial sensors and can be combined with deformation tools and an IMU to provide a full combo tool inspection. In addition, Q-Inline can provide turnkey services for pipeline cleaning, waste disposal, temporary launchers/receivers, full in-house tethered services, crane truck, sub centimeter GPS survey and tracking. Q-Inline is capable of customizing its analysis as well as provide enhanced analysis reporting, dent and bend strain analysis and run to run comparisons. Q-Inline is capable of reviewing difficult to inspect features by using pipe samples at its pull test/flow loop facility in La Grange, Texas, USA.



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

for more information and  
Hyperlinks to Members'  
Web Sites

# 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

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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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## 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](http://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

Rue de la Croix 29-31, P.O. Box 31, CH-2822  
Courroux, Switzerland

Tel: +413 242 16080 Fax: +413 242 16081

[www.rhc-sa.ch](http://www.rhc-sa.ch)

**Contact (PPSA):** Robert Reinhart  
rbr@rhc-sa.ch

**Contact (Sales):** Giacomo Reinhart  
gr@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

No 8 Jalan 5/91A, Taman Shamelin Perkasa,  
56100 Kuala Lumpur, Malaysia

Tel: +603 9282 3434 Fax: +603 9282 4434

E-mail: [romstar@romstargroup.com](mailto:romstar@romstargroup.com)

[www.romstargroup.com](http://www.romstargroup.com)

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**Contact (Sales):** Adam Harith Baharom,  
Assistant to President  
[adam.baharom@romstargroup.com](mailto:adam.baharom@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, coating loss, 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](mailto:shamshur@analyticpipe.com.my)

[www.analyticpipe.com.my](http://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.

### New Book! Managing Pipeline Threats

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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[www.clarion.org](http://www.clarion.org)

## STATS Group

STATS House, Tofthills Way, Midmill Industrial Estate,  
Kintore, Aberdeen, AB51 0QG, UK

**Tel:** +44 1224 772461 **Fax:** +44 1224 772491

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**Contact (PPSA & Sales):** Dale Millward  
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Houston, Texas 77041, USA

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### Asia Pacific

Advanced Isolation & Testing Services Sdn Bhd, C-2-  
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Perdana, 43300 Seri Kembangan, Selangor D.E.

**Tel:** +603 8959 8231 **Fax:** +603 8957 9231

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**Contact:** Gareth Campbell, Regional Sales Manager,  
Asia Pacific

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](http://www.tdwilliamson.com)

### North & South America

**Tel:** +1 918 447 5000

### Europe / Africa / Middle East

**Tel:** +32 67 28 3611

### Asia Pacific

**Tel:** +65 6364 8520

### Offshore Services

**Tel:** +47 5144 3240

Drawing upon a nearly 100-year history of industry leadership, TDW is a global solutions provider for the owners and operators of pressurized piping systems. T.D. Williamson delivers a comprehensive portfolio of safe integrity pipeline system solutions for onshore and offshore applications, including advanced isolation and repair, integrated pigging and integrity assessment solutions.

## TRAPIL

1, rue Charles-Edouard Jeanneret, 78260 POISSY,  
France

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TRAPIL was established in 1950 and is the oldest and largest refined products pipeline operator in Europe. Operations include Le Havre/Paris pipeline system and many other civil and military networks throughout France. It represents some 4800 km of pipeline and 160 pumping and delivery stations. There are also more than 850 000 cubic meters of storage tanks.

To monitor and maintain the integrity of this pipeline network, TRAPIL has developed a range of instrumented pigs and other specific products. This combination of operational experience and instrumented pig applications enables TRAPIL to provide solutions to many pipeline inspections and leak detection/location problems.

The services provided include acoustic measurement for leak detection and ultrasonic pigging for metal loss features, corrosion and geometric anomalies detection.

## Topline Limited

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[www.toplinelimited.com](http://www.toplinelimited.com)  
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[c.maduakoh@toplinelimited.com](mailto:c.maduakoh@toplinelimited.com)

### Western Nigeria

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PO Box 772 Udu Effurun, Delta State, Nigeria  
Tel: +234 803 375 1321

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.

## Tracerco Ltd

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Hall Technology Park, Billingham, TS23 4ED  
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### Tracerco Asia


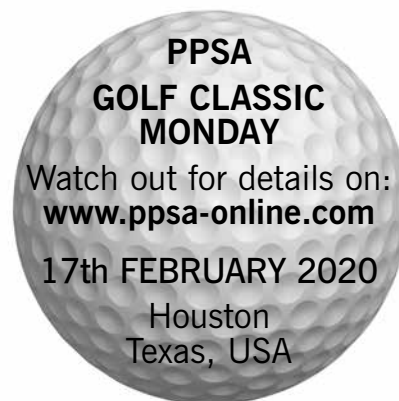
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[www.tracercoasia.com](http://www.tracercoasia.com)  
Contact: Ahmad Nazrin Alias

Tracerco's field proven Discovery™ is 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™ for Flow Assurance provides pipeline operators with a reliable screening service to determine the location of deposition build-up for further investigation. Explorer™ unique technology allows many kilometres of subsea pipeline to be quickly scanned, enabling the location of deposits causing flow abnormalities to be easily identified.

Tracerco's radioisotope pig tracking systems provide safe, fast, reliable and accurate subsea pig tracking. This allows tracking of pig positioning and pig location.



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information service**  
Email: [ppsa@ppsa-online.com](mailto: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.

# Trans Asia Pipeline Services

## Middle East and North Africa, South Asia, India

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www.transasiapipelines.com

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E-mail: surendra@transasiapipelines.com

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## Trans Asia Pipeline Services Pte Ltd

### East Asia & Australia

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Contact: Sachin Sanghai, CEO  
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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 and Singapore, they provide a wide range of pipeline and specialty services and have successfully completed projects in the Middle East, South East Asia 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, hydromilling 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

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## VKV Oilfield & Pipeline Services Co Pvt Ltd

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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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Chennai 600 041, India

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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.

## WSG Industrial Services b.v.

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**Contact:** G Turner

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.

## Western Bell International Limited

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**E-mail:** western\_bell@yahoo.com

[www.westernbellintl.com](http://www.westernbellintl.com)

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**Contact (Sales):** Goodhead Boyacha

Western Bell International Limited has earned a reputation for providing reliable services to the oil and gas industry. They offer solutions in the process and pipeline services; pipeline cleaning, inspection, coating and repairs, facility maintenance and industrial support services.

They are ISO 9001:2015 certified with experienced man power.

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## 3X Engineering

### PIPELINE REINFORCEMENT SYSTEM

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Fax: +377 92 05 72 71

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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 energy 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.

Their range of products: REINFORCEKiT® 4D: composite repair for pipe reinforcement; TANKiT® and REINFORCEKiT® PATCH: composite repair for damaged tank; STOPKiT®: online leak sealing; ROLLERKiT®: pipe & support protection; REFLANGEKiT®: online repair for SF6 leaking flange.

## Charger Industries

### BATTERY MANUFACTURER

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Tel: +1 403-208-8173 Fax: +1 403-208-8174

E-mail: [sales@chargerind.com](mailto:sales@chargerind.com) [www.chargerind.com](http://www.chargerind.com)

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Charger Industries is an ISO 9001 certified custom battery pack manufacturing company specializing in high reliability battery packs for the Oil and Gas industry. They have over 20 years of experience building custom batteries for a wide variety of applications, including some of the most extreme environments on earth. They are able to bring innovation and experience to every phase of a battery project including: engineering design (both mechanical and electrical), testing, integration, training, and technical support. All of that expertise is coupled with competitive pricing and a level of customer service that is unmatched in the industry.



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## Cottam Brush Ltd

### BRUSH MANUFACTURER

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

**Tel:** +44 191 428 2510 **Fax:** +44 191 428 3078

**E-mail:** eddie.moon@cottambrush.com

[www.brushesforindustry.com/](http://www.brushesforindustry.com/)

**Contact (PPSA):** Ben Cottam

**Contact (Sales):** David Leathead, Eddie Moon

COTTAM's pipeline team supply specialist products for existing fleets of pigs or custom made to your specification. They manufacture to suit any pig to the required size and abrasion level for your job.

With over 30 years of design and manufacturing experience with the latest materials and techniques, they ensure a great result for your customer.

Their inline inspection bristles provide the optimal magnetic permeability and enhanced conductivity to enable the collection of accurate and reliable data.

The QUATTRO-FLEX pipeline cleaning brush features pencil brush technology with full 360° deflection, providing better cleaning performance from start to finish.

Worldwide shipping available.

## Dow Polyurethanes

### POLYURETHANE MANUFACTURER

Station Road, Birch Vale, High Peak, Derbyshire,  
SK22 1BR

**Tel:** +44 1663 746518 **Fax:** +44 1663 746605

**E-mail:** [help@dowhyperlast.com](mailto:help@dowhyperlast.com)

[www.dowhyperlast.com](http://www.dowhyperlast.com)

**Contact (PPSA & Sales):** Paul Fitzgerald

Dow Polyurethanes manufacture elastomer systems (REACH compliant 2018) for a variety of PIG wear components amongst many other engineering applications. Their aim is to be the material technology provider of choice, offering application development and processing support to grow your business with their range of innovative solutions for the most demanding industrial engineering applications. Dow Polyurethanes offer more than 40 years experience of MBoCA-free elastomer systems, together with reliable service, and creative polymer design, as well as the vast resources of one of the world's largest and most respected chemical companies.

## Engineered Power

### BATTERY MANUFACTURER

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T2A 7N6

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Engineered Power provides the oilfield industry with innovative power solutions to extreme environments. Engineered Power (EP) produces primary lithium thionyl chloride batteries specifically for pigging, oil and gas applications. EP's rigorous cell testing and intensive product inspections ensure maximum performance, reliability and shelf life.

## Equinor ASA

### OIL AND GAS PRODUCTION AND EXPLORATION

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International Energy Company

Visit PPSA's Web Site  
[www.ppsa-online.com](http://www.ppsa-online.com)

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## Excell Battery Corporation USA

### BATTERY MANUFACTURER

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USA

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E-mail: OSmyth@excellbattery.com

www.excellbattery.com

Contact: Oisin Smyth

Excell Battery with over 30 years' experience specializes in design and assembly of custom battery packs, predominately Lithium Primary and Li-ion. Acting as master distributor and value add assembler for several tier one cell manufacturers. Their four ISO 9001 locations in North America (Houston, Vancouver, Calgary and Toronto) each have their own full production and sales capability. Along with EE and ME services based from their corporate office in Vancouver. Excell Battery is heavily involved in supplying battery packs for oil and gas downhole applications, pipeline inspection, metering, industrial GPS, leak detection, lighting, asset tracking, data collection, back up power and more. Additional services include battery recycling, regulatory testing facilitation and drop ship programs.

## 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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E-mail: Leeb@galaxybrushes.com

www.galaxybrushes.com

Contact (PPSA & Sales): Lee Batzel, President

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Contact (PPSA & Sales): Andreas Boenisch

Innospection Ltd is a provider of advanced and innovative inspection services and solutions for the integrity and lifetime assessment support of onshore and offshore topside, splash zone and subsea assets. An expert in electromagnetic inspection technologies such as Eddy Current and Magnetic Eddy Current (MEC), Innospection has delivered advanced NDT services to the worldwide process industries since 1998.

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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.

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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.

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E-mail: info@linalog.com

Contact (PPSA & Sales): Zainol Abidin Abdul

Providing services in the oil and gas pipeline sector. Owner of MFL Intelligent pig with brand name LINALOG.

## Osborn GmbH

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Contact (PPSA & Sales): Hendrik Böhnisch

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Contact: Gerald Stark

Stark Pipeline Services provides a variety of services to the pipeline integrity industry including pipeline mapping and surveying, pig tracking, pig cleaning, NORM decontamination, project management, infield transportation, and crane. In addition to these services Stark technicians are also trained to build and refurbish smart pigs and cleaning pigs. Stark has been part of the pigging industry for over 15 years and the company prides itself in maintaining a high level of safety and professionalism.

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# 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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