



An international trade association serving the pipeline industry

**BUYERS' GUIDE &
DIRECTORY OF MEMBERS
2015 – 2016**

*Celebrating 25 Years
Serving the Pipeline Industry*

www.ppsa-online.com

Pigging Products and Services Association
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PIGGING PRODUCTS & SERVICES ASSOCIATION

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The Pigging Products and Services Association (PPSA) was founded in 1990 by Jim Cordell and now has over 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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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,
\$52 US elsewhere

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A.Hak Industrial Services provides integrated industrial, pipeline, inspection and tank services to (petro)chemical, refining and pipeline industries. A.Hak's global presence serves the industry worldwide, having sales and operational bases in northern and southern Europe, Brasil, USA, UAE, South Africa, Malaysia, Australia and 25 agents.

Their service lines:

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

Tank Services: offers integrated tank storage services including profiling, desludging, cleaning, bottom inspection, cleaning and foam inerting.

Alchemy Oilfield Services Ltd

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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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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.



Visit PPSA's Web Site
www.ppsa-online.com
for more information and
Hyperlinks to Members'
Web Sites

Applus RTD

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

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

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

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

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

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

Aubin Group

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Aubin are market leaders in the development and supply of novel pipeline gel technologies for use in oil, water and gas pipelines. They offer a full range of gels and chemical pigs for cleaning, de-oiling/dewatering, debris removal, chemical train separation and spool filling. With the environment one of Aubin's top priorities, they make their products as 'green' as possible and so most of their gels are approved by CEFAS for use in the North Sea as CHARM category Gold.

Aubin also offer specialist gels for applications such as buoyancy (DeepBuoy), leak sealing (DeepSeal) and insulation (DeepGel). Also, they have developed the world's first chemical pig capable of negotiating multi-bore pipelines (L-Gel Pig).

BG Technical Ltd

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BG Technical Inc

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

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

Baker Hughes Process and Pipeline Services

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Pipeline Inspection

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Pipeline Pre-Commissioning and Maintenance

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The Baker Hughes Process and Pipeline Services (PPS) group offers pipeline services in three primary categories to help global operators improve pipeline efficiency, reduce product-to-market time, reduce HSE risk, and meet regulatory standards. Services include pipeline pre-commissioning, flooding, hydrostatic testing, cleaning, drying, and product commissioning; pipeline maintenance services include in-line filtration and separation, gel pigging, chemical and mechanical cleaning, nitrogen purging, online pigging, temporary pumping packages and product transfer; and pipeline inspection services that offer caliper, inertial geometry, cathodic protection surveys, crack detection and metal loss using magnetic flux leakage and ultrasonic technologies, and fit-for-purpose evaluations. Baker Hughes PPS services are available to the natural gas, crude oil, refined products, and petrochemical industries in major oil producing areas across the globe.

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CDI designs, engineers and manufactures technologically advanced pipeline pig tracking and locating equipment. With UL/CSA, ATEX and IECEX certifications, CDI has pigging equipment appropriate for any area of the world whether it be onshore, offshore or subsea.

CDI's onshore equipment includes the TRAXALL Pig Location and Tracking System which tracks up to seven transmitter frequencies simultaneously. Their offshore and subsea equipment has proven itself in all the oceans of the world, and has endured depths of up to 4500m below the surface.

Utilizing an in-house engineering staff enables CDI to custom design equipment to the specific needs of a customer's project. Quality, durability and safety are the focus. On-time delivery and exceptional service is the goal of every CDI associate.

CDRiA Pipeline Services Ltd

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(Managing Director)

CDRiA Pipeline Services Ltd. was established in 1998.

The Company's only shareholder is PERN S.A., the operator of 2500km crude oil pipeline network in Poland.

CDRiA are a member of the PERN Group.

All their services are rendered using the tools developed and fabricated by CDRiA's team of engineers.

CDRiA offers: Ultrasonic Pipeline In-Line Inspection – Metal Loss and Crack Detection, Pipeline Internal Geometry Inspection, Pipeline XYZ mapping.

CDRiA inspection personnel and tools are certified according to Polish and international standards: ISO 9001:2008 Certificate, TÜV Anlagentechnik, PRS, Atex.

CDRiA's mission is rendering pipeline in-line inspections for their customers, providing them with the ability to implement professional pipeline integrity management and achieve their business targets.

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

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DSV Pipetronix Limited, established in 1997 is a leading provider of pipeline services in Nigeria. Their services include; pipeline integrity assessment, cleaning and descaling, tank bottom/facility inspection, pipeline reinforcement/leak repair, auxiliary pumping and Line Pipe/ OCTG tubular equipment supply. DSV also specializes in the provision of services to the oil and gas sector for pre-commissioning and commissioning of pipelines including cleaning, gauging, hydrostatic testing, drying, inerting etc. and undertake nitrogen purging using Nitrogen Plant (NPU) & cryogenic chambers.

DSV owns a bank of specialized equipment and has a qualified team of Nigerian and expatriate engineers with the requisite skills and experience. They have undertaken pipeline inspection of thousands of kilometers of pipelines and have a reputation for prompt service delivery with an impeccable safety record. DSV provides pipeline integrity assessment services in partnership with ROSEN group.

Dacon Inspection Services Co. Ltd

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

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

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

Drinkwater Products

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Drinkwater Products is a distributor for pipeline pigs and pigging equipment. They are located in Franklin, Louisiana and have been in the pigging business for more than 25 years. They offer a wide range of pigging products, consulting services and have the capability to custom design pigs for a variety of unique applications. Drinkwater Products works closely with several manufacturers ensuring that their customers have the best options available for his/her particular pipeline pigging needs.

Enduro Pipeline Services, Inc

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Enduro Pipeline Services corporate headquarters is located in Tulsa, Oklahoma, with additional facilities in

Canada. Enduro provides in-line-inspection services, cleaning pigs, tracking equipment and project management services to the pipeline industry.

Enduro offers MFL Combo tool surveys ranging in sizes 4" through 36" and caliper / geometry tool surveys ranging 4" through 48" sizes. Enduro also manufactures pipeline pigs from 2" through 60" in diameter used for cleaning, purging, batching, filling, dewatering, drying and other related applications for both on stream and new construction projects. Dual diameter and multi-diameter pigs, chemical cleaning services and technical assistance are available from Enduro.

GD Engineering

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GD Engineering, an SPX Brand, is a market leader in the design and manufacture of engineered pipeline pigging solutions to the oil, gas and process industries.

Their Bandlock™ 2 Closure range provides speed of operation with safety benefits. Used on process vessels such as, pig traps and filters, size range to 100" (2.5m) diameter, pressures to ASME #2500 (425 barg).

GD Engineering has many years experience in providing innovative closure designs for a wide range of process vessel applications. The PigAlert Hi-T intrusive and the non-intrusive MAGAlert and ULTRAlert pig signaller range provide reliable pig/sphere passage indication. Multiple Pig Launchers allow remote multiple pig launching without depressurisation.

The Company's quality system is approved to ISO 9001:2008 by LRQA and they feature in the FPAL and Achilles Joint Qualification System.

GOTTSBERG Leak Detection GmbH & Co. KG

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GOTTSBERG Leak Detection GmbH & Co. KG (GLD) located in Hamburg, Germany is a family owned developer and manufacturer of one of the technical leading products in the market of ultrasonic leak detection pigs for pipelines. Its aim is to provide affordable state of the art technology products that are easy to handle and absolutely reliable in their performance for the sales market as well as for service offers.

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

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Contact: John Simpson

Founded in 1968, Girard has over 45 years dedicated to manufacturing high quality pipeline cleaning pigs while providing unmatched customer service. Their product line encompasses the full range of pipeline pigs, including foam pigs (polly-pigs), steel mandrel pigs, solid cast polyurethane pigs, spheres (balls), as well as replacement cups, discs and other urethane parts.

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

Girard also supplies Hi-T PigAlerts, intrusive & non-intrusive pig detectors, pig tracking equipment, and other related products.

Greene's Energy Group

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Greene's Energy Group offers high quality pipeline pigs that are well designed, well maintained, come in a wide variety – traditional/specialty – and are available on short notice.

Whether for onshore or offshore maintenance, abandonment, enhanced productivity or pre-commissioning work, Greene's is equipped to handle any size pipeline project – from 4" to 48" diameter lines. Greene's provides complete turnkey services and specialized rental equipment to meet the needs of any project.

Greene's provides pigging, hydrostatic testing, pipeline filling, dewatering, filtration, cleaning online and offline (mechanical/chemical), drying, nitrogen purge and testing, abandonment, umbilical testing, valve greasing, pig tracking, pig sales and ILLI line preparation services, separation and filtration services, nitrogen services, hot oil flushing, bolting and water treatment.

For 60 years Greene's has provided expertise in helping pipeline operators, E&P companies, construction contractors and diving services build and maintain pipelines.

Gulf Petrochemical Services & Trading LLC

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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.

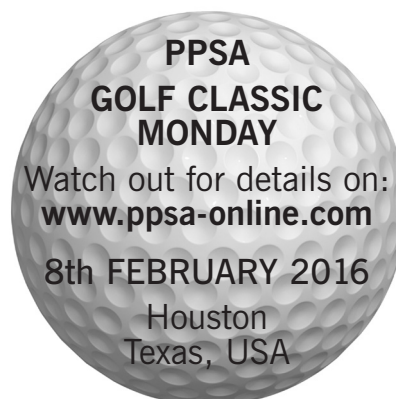
Gulf Strategic Partners WLL (GSP)

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Gulf Strategic Partners (GSP) was established in the Middle East in 2004, with headquarters in Bahrain and offices in Saudi Arabia, Qatar, Dubai, Abu Dhabi, Kuwait and India. Collectively their personnel have over 350 years of industrial cleaning expertise. They are ISO 9001:2008 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.



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Halfwave's Pipeline & Subsea Inspection business is based on the company's proprietary Acoustic Resonance Technology. The services offered have been introduced to provide enhanced information to their clients, ultimately reducing the risk of leaks and increasing the technical safety of pipelines.

Due to Halfwave's unique selected broad-band/medium frequency setup their patented solution provides direct ultrasonic wall thickness measurement in gas pipelines, high inspection performance in bends and inspection in multi-diameter diameter pipelines. Halfwave's ART inspection technology has also shown to provide accurate wall thickness mapping in gas pipelines with wall thicknesses of up to 100mm.

Halliburton (Pipeline & Process Services)/ (Surestream® Flow Assurance Services)

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Halliburton's Pipeline & Process Services (PPS) department operates worldwide providing a full range of pre-commissioning, commissioning, decommissioning, chemical cleaning, umbilical and flow assurance services to the pipeline, construction and process system industries both onshore and offshore. Services include

flooding, cleaning, gauging, decommissioning, mechanical pigging, gel pigging, dewatering, drying and conditioning, chemical cleaning, thermal cleaning, intrusive intervention and pressure jetting. Additional specialist services include subsea pigging, and hydrotesting. Nitrogen inerting, helium leak detection, bolt tensioning and video inspection services are also supplied.

Halliburton's SureStream® Flow Assurance Service provides an integrated range of consultative, analytical, engineering and remediation solutions to address any flow assurance problems in pipelines and flowlines.

IK Norway

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IK Norway is a Norwegian Company established in 1987 to supply the oil and gas industry with pipe and pipeline services and products.

IK has a highly skilled staff of graduated engineers and operators. IK have performed major investments in "state of the art" software including Inventor (3D CAD), analytical tools and facilities to execute the work. IK Norway is comprised of five departments within a carefully selected range of niche disciplines, i.e. PPS – Pigging Products and Services (engineering, supervision, equipment and products related to 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 (provision of bolting services/equipment and calibration of instruments).

IK has a subsidiary, IK-UK Ltd. (UK), specialised in pigging and plugging products.

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IK-UK is a subsidiary of the Norwegian IK Group specializing in the design and in-house manufacture of pipeline pigging and isolation equipment. IK-UK's factory benefits from a programme of continuous investment in new, state-of-the-art plant and technology. In addition to the latest foam and high-output polyurethane dispensing machines with multi-additive injection capability, the factory has computer controlled water-jet and plasma cutting equipment, machining centres and CNC lathes.

IK-UK has an extensive range of pipeline weld testers, high pressure test plugs and isolation tools available for hire. Their field service department have a dedicated team of specialist technicians for deployment both onshore and offshore.

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IKM Testing with its 1050 employees is a part of the IKM Group which has 2800 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, Halifax and Alberta), Spain (Cadiz), Australia (Perth), Singapore, Indonesia (Batam), Malaysia (Kuala Lumpur), Thailand (Rayong), Poland (Gdansk), Brasil (Rio de Janeiro and Bangu), Mexico (Mexico City) 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 system in accordance with ISO 9001:2008, OHSAS 18001:2007 and ISO 14001:2004.

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.

Inline Services Inc

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Inline specializes in Intelligent Pipeline Cleaning pigging products for pipeline maintenance and has one of the largest inventories of Foam Disc Pigs, Urethane and Mandrel pigs to offer fast delivery on any style and quantities of pigs.

Inline has new technology electronic tracking equipment which includes receivers, geophones, and transmitters. Electromagnetic and geophone receivers are available in the same housing.

Inline's experienced team of consultants can manage day to day pigging operations or design complete pigging programs. These services for cleaning and proving pipelines prior to ILI runs can prove extremely cost effective.

Inline also provides complete custom-designed Process Pigging Systems, components and packages for the process industry, for both industrial and sanitary applications.

Pipeline Pigging & Integrity Technology

4th Edition, 2013

The latest data on
pigging and inspection tools,
views, and practical solutions

Collected and edited papers
from PPIM conferences and other
sources 2007-2012

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iNPIPE PRODUCTS™ is an acknowledged world leader in the design, manufacture, supply and rental of pipeline maintenance equipment. Operating in the oil, gas, petrochemical and water industries many products are specified by most international operators and contractors.

As a company INPIPE PRODUCTS™ prides itself on innovation, quality and JIT delivery. Investment into R&D has resulted in the patenting of a number of products the first being an intrusive signaller registered in 1986 which continues to be acknowledged as a market leader worldwide.

iNPIPE PRODUCTS™ also offers the largest UK hire fleet of isolation tools, high pressure plugs and internal and flange type weld testers up to 42". iNPIPE PRODUCTS™ offer innovative easy to use tools intrinsically safe in design low-cost time-saving solutions.

KTN AS

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KTN AS is a technology company specialized in condition assessments and periodic maintenance of oil and gas pipelines offshore and onshore internationally. KTN is specially well known for their self propelled BiDi tethered tool inspection technology for challenging pipelines. Their key people have approximately 25 years experience each.

Different types of measuring technologies are offered: Ultrasonic wall thickness and crack measurement, (angular beam pulse echo and TOFD, eddy current and others).

All diameter ≥ 6 " and up to 10km in length are inspectable (4" 2015).

The technology is under a constant development and every year new type of solutions and applications can be offered to the market.

Intelligent Solutions – Inspection of non-piggable pipelines by use of tethered tool technology.

Kleiss & Co bv

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

The company provides soft, medium and high density foam pigs, cup pigs, bidirectional pigs, flexible pigs, gauging pigs, brush pigs, magnetic pigs, pipeline spheres, FDA pigs for food and cosmetics, pencil

brushes, polyurethane, neoprene, nitril, viton, EPDM and silicone pigs. Kleiss also supplies pig locating equipment, pig signalers, high friction pigs and ancillary materials for pipeline repair, coating, maintenance and installation.

Knapp Polly Pig Inc

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

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

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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.

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, steel and pencil brushes, urethane cups and discs and solid cast pigs for cleaning, batching, gauging with different configurations for regular and special operations. Their 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. Limpro also offers pigging related equipment and components such as: tracking equipment, and pig detectors.

MACAW Engineering Ltd

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MACAW Engineering Ltd is a leading independent engineering consultancy working closely with global operators of oil & gas production facilities, pipelines and utility systems to reduce risk, maintain integrity and extend the service life of client assets.

Based in Newcastle (UK), MACAW Engineering Ltd employs over 85 full time staff comprising of principal consultants, senior engineers and engineers covering a multitude of disciplines including mechanical engineering, corrosion engineering, materials engineering, welding and mathematics.

With many of their Principal Engineering Consultants able to draw on more than 25 years of industry experience in materials, corrosion, welding and asset integrity, MACAW Engineering Ltd applies this knowledge to develop and provide cost-effective solutions to their clients across the energy sector.

NDT Global GmbH & Co. KG

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NDT Global is a leading supplier of ultrasonic pipeline inspection and pipeline integrity management. The company counts about 500 specialists based in Germany, the US, Canada, Mexico, Russia, UAE, Malaysia and Singapore. 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 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.

Narmada Offshore Constructions Pvt Ltd

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Narmada Offshore Constructions Pvt Ltd., established in 1994, is a Mumbai, India based company specialising in the provision of services to the oil & gas sector for pre-commissioning & commissioning of pipelines either sub-sea or onshore, including cleaning, gauging, hydro-testing, swabbing, drying, inerting etc. They also undertake EGP Survey (caliper pigging), vacuum drying. To date they have successfully tested almost 5000kms of various sizes (from 4" to 60" diameter) pipelines in offshore field and cross country pipelines. They have worked for almost all operators / EPC contractors.

Narmada Offshore owns a bank of specialised equipment/instruments and has a qualified technical support staff of almost 60. Their equipment bank and staff can undertake 5 projects at different locations at any given time.

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Netherlocks supplies safety products for the oil & gas industry. Their products are used by most of the major end users in the sector to help create a safer working environment. Netherlocks are market leaders in mechanical interlocks and also manufacture several other safety products.

Pigging is one of the main applications for safety interlocks. As part of an interlocking sequence, locks on the closure and different valves, prevent opening the door when it is unsafe. All critical valves can only be operated when the closure is fully closed and locked.

A pigging operation is recognized as highly dangerous and even deadly. Locking systems are recommended to avoid human error and, subsequently, dangerous incidents.

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Oceaneering Pipetech 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 deepwater applications.

Oceaneering Pipetech offers the industry in house developed ultrasonic technologies (UT) for internal and external inspection of pipelines and subsea assets.

Oceaneering Pipetech AS also provides the market with tailor made inspection solutions for both piggable and unpiggable pipelines, rigid and flexible pipelines using high resolution ultrasonic scanners and self-propelled pigs. Core activities are ultrasonic and visual in-line inspection.

Oceaneering Pipetech has previously been known as AGR Pipetech.

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Online Electronics Ltd (OEL) design, manufacture and distribute a cutting edge range of products and systems employed during pipeline pig monitoring, pipeline data communication and logging operations. OEL technology is operated throughout a wide range of applications from deep-water to topside, in pipeline terminals, valve and pumping stations, refineries and terminals. OEL combine acoustic, electromagnetic, magnetic and ultrasonic technologies to produce innovative and flexible solutions.

The range of services enables pig tracking & signalling, pressure/temperature data logging, gauge plate condition systems, automated pipeline discharge sampling, ATEX certified products, special pipeline communication solutions, subsea voltage gradient detection and bespoke design projects.

OEL is part of the IK-Group, their HQ is based in Aberdeen, UK with offices in Dubai, UAE; Singapore; Perth, Australia and Houston, USA.

3P Services GmbH & Co KG

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In-Line inspection using MFL (metal loss), GEO (geometric) and DMR (direct magnetic response) are available for 3" to 42" pipelines at 3P Services. Customer applications to inspect pipelines that are considered "difficult to pig" or even "unpiggable" are a speciality of the company. There are tools for conventional (free swimming), for bi-directional (pump-in/pump-out), and pull-through operation.

3P Services provides associated services including feasibility studies, cleaning, geometric inspection, post-inspection support etc. The company was founded in 1992, is privately owned and based in the oil fields of NW-Germany.

PBJV Group Sdn Bhd

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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.

PII Pipeline Solutions, a GE Oil & Gas and Al Shaheen joint venture

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Contact: Chris Hallam (Regional Sales Leader)

PII Pipeline Solutions is one of the industry leaders in inspection and integrity services for gas and liquid pipelines in every known environment and operating condition. From in-line inspection and integrity engineering, to revolutionary new services such as UltraScan™ Duo for crack assessment and SmartScan™ for unpiggable pipelines, and powerful data management tools, they provide the comprehensive technologies, skills and experience needed to confidently determine the present and future condition of a pipeline. Their solutions go beyond defect detection to proactive risk assessment and threat management to maintain a balance of safety and productivity while helping pipeline operators meet stringent regulations. PII Pipeline Solutions operates globally as a joint venture between GE Oil & Gas and Al Shaheen Holdings, a wholly owned subsidiary of Qatar Petroleum.

PNS – Pipeline Nitrogen Services bv

Phileas Foggstraat 65, NL-7825AL Emmen, The Netherlands
Tel: +31 591 668155 **Fax:** +31 591 668150
Email: PNederveen@pns-services.com
www: pns-services.com
Contact (PPSA & Sales): P B Nederveen

PNS UK Ltd

Foxbridge Way, Normanton, Wakefield, WF6 1TN, UK
Tel: +44 845 6040281 **Fax:** +44 845 604 0282
Contact (Sales): Gareth Turner
gturner@pnsuk.com

PNS Asia Pacific Pte Ltd

32 Tuas South Street 3, Singapore 638029
Tel: +65 6265 0709 **Fax:** +65 6264 0809
E-mail: peter.smith@pns-asiapacific.com
Contact: Peter A Smith

The founders and directors of PNS BV 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 BV merged with its partner company, Coil Services BV, to form one company employing 350 people worldwide. Today PNS BV is a member of Well Service Group BV.

Pipeline Nitrogen Services (PNS) is an integrated services 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, pharmaceuticals and manufacturing industry. PNS Pipeline Nitrogen Services are designed to optimize production and minimize downtime during the whole lifecycle of the pipeline and / or process plant.

PRS International

Kanaalweg 16, 7761 PH, Schoonebeek, The Netherlands

Tel: +31 524 599980 **Fax:** +31 524 599988

E-mail: pbergsma@prs-international.nl

www: prs-international.nl

Contact (PPSA & Sales): Pieter Bergsma

PRS International is an integrated services company offering a range of solutions for the onshore and offshore oil and gas industry, LNG industry, petrochemical industry, renewable energy industry, power generation industry and the maritime/construction industry.

Pipeline services – pigging and pig tracking utilising cleaning, gauging, calliper and inspection pigs, product displacement, hydrostatic testing, ethylene / gas filtration and pipeline drying.

Nitrogen services – purging, helium leak testing, drying, pneumatic testing, accelerated cool downs and pipe-freezing, hot stripping and regeneration of catalyst and absorber materials.

Bolting services – including torqueing and tensioning and joint integrity management software.

Chemical cleaning services – oil flushing and steam-blowing for pipelines, installations and power plants.

PRS Offshore Services, offering a broad range of specialized services using equipment according the latest offshore specifications. In addition to the standard services PRS offers the Offshore pipeline pre-commissioning services including the cleaning and gauging of infield pipelines between platforms and to FPSO's.

PSI – Pipeline Services International GmbH & Co KG

Thyssenstr. 2, 49744 Geeste-Dalum, Germany

Tel: +49 5937 980908 215

Fax: +49 5937 980908 190

Mobile: +49 171 387 9201

E-mail: m.strohecker@pressuretest.de

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.

Paradigm Flow Services Ltd

Paradigm House, Drumoak Business Park, Drumoak, Banchory AB31 5AZ

Tel: +44 1467 631234 **Fax:** +44 1467633917

E-mail: callum.jones@paradigmflow.com

www: paradigm.eu/companies/flow-services

Contact (PPSA & Sales): Callum Jones

Paradigm Flow Services is a technology driven service company delivering engineered flow remediation services worldwide to their customers in the upstream oil & gas sector. Areas of expertise include: Subsea Blockage Location & Remediation; Subsea Umbilical Flushing & Fluid Recovery; Stuck pig removal

Their focus is simple and addresses two of the main priorities of operating companies: Safeguarding of asset integrity and production assurance.

Paradigm is committed to engineering and delivering innovative solutions for flow remediation that enable their clients in the upstream oil and gas industry to maximise revenue and minimise risk through operating systems with full bore flow.

BUYERS' GUIDE

Note: Inspection companies can generally arrange for the pipeline to be cleaned/prepared prior to inspection.

- Manufacturer and/or Service Company
- ▲ Distributor

BUYERS' GUIDE

www.ppsa-online.com

Company	Industrial Piggng	Consultancy Services	In Line Inspection Services	Pipeline Piggng Services	Pipeline Piggng Components and Equipment	Pipeline Pigs
A.Hak Industrial Services BV						
Alchemy Oilfield Services Ltd						
Apache Pipeline Products	●	●	●	●	●	●
Applus RTD		●	●	●	●	●
Aubin Group	●	●	●	●	●	●
B.G. Technical Ltd	●	●	●	●	●	●
Baker Hughes Process & Pipeline Services	●	●	●	●	●	●
CDI						
CDRIA Pipeline Services Ltd						
China Petroleum Pipeline Inspection	●	●	●	●	●	●
DSV Pipetronix Limited	●	●	●	●	●	●
Dacon Inspection Services Co., Ltd	●	●	●	●	●	●
Drinkwater Products	●	●	●	●	●	●
Enduro Pipeline Services, Inc	●	●	●	●	●	●
GD Engineering						
GOTTSBERG Leak Detection GmbH & Co KG	●	●	●	●	●	●
Girard Industries	●	●	●	●	●	●
Greene's Energy Group	●	●	●	●	●	●
Gulf Petrochemical Services & Trading LLC	●	●	●	●	●	●
Gulf Strategic Partners WLL (GSP)	●	●	●	●	●	●
Halfwave AS	●	●	●	●	●	●
Halliburton (Pipeline & Process Services)	●	●	●	●	●	●
IK-Norway	●	●	●	●	●	●
IK-UK Limited	●	●	●	●	●	●
IKM Testing AS	●	●	●	●	●	●
In-Line Piggng Solutions Ltd	●	●	●	●	●	●
Inline Services Inc	●	●	●	●	●	●
Inpipe Products Ltd	●	●	●	●	●	●
KTN AS	●	●	●	●	●	●
Kleiss & Co. bv	●	●	●	●	●	●
Knapp Polly Pig Inc	●	●	●	●	●	●
LIN SCAN Advanced Pipeline & Tank Services	●	●	●	●	●	●
LTS, LLC	●	●	●	●	●	●
Limpro Nacional, SA de CV	●	●	●	●	●	●
MACAW Engineering Ltd	●	●	●	●	●	●
NDT Global GmbH & Co. KG	●	●	●	●	●	●
Narmada Offshore Constructions Pvt Ltd	●	●	●	●	●	●
Netherlocks Safety Systems BV	●	●	●	●	●	●

Company	Industrial Piggng	Consultancy Services	In Line Inspection Services	Pipeline Piggng Services	Pipeline Piggng Components and Equipment	Pipeline Pigs
Oceaneering Pipetech AS						
Online Electronics Ltd						
3P Services GmbH & Co KG						
PBJV Group Sdn Bhd						
PII Pipeline Solutions	●	●	●	●	●	●
PNS - Pipeline Nitrogen Services by PRS International	●	●	●	●	●	●
PRS International	●	●	●	●	●	●
PSI - Pipeline Services International GmbH & Co KG	●	●	●	●	●	●
Paradigm Flow Services Ltd	●	●	●	●	●	●
Penspen Integrity	●	●	●	●	●	●
Pigs Unlimited International, Inc	●	●	●	●	●	●
Pigtek Limited	●	●	●	●	●	●
Pipeline Cleaners Inc	●	●	●	●	●	●
Pipeline Engineering & Supply Co. Limited	●	●	●	●	●	●
Pipeline Innovations Ltd	●	●	●	●	●	●
Pipeline Piggng Products Inc	●	●	●	●	●	●
Pipeline Services LLC (PLS)	●	●	●	●	●	●
Pipelines 2 Data (P2D) Ltd	●	●	●	●	●	●
Pipesurvey International CV	●	●	●	●	●	●
Pipetech Corporation Ltd	●	●	●	●	●	●
Precision Piggng LLC	●	●	●	●	●	●
PureHM	●	●	●	●	●	●
Quest Integrity Group, LLC	●	●	●	●	●	●
RAS Rohrleitungs- und AnlagenService GmbH	●	●	●	●	●	●
ROSEN Group	●	●	●	●	●	●
Reinhardt Hydrocleaning SA	●	●	●	●	●	●
Romstar Sdn Bhd	●	●	●	●	●	●
STATS Group	●	●	●	●	●	●
Shenyang Longchang Pipeline Testing Center	●	●	●	●	●	●
Sriram Foams (P) Ltd	●	●	●	●	●	●
T. D. Williamson	●	●	●	●	●	●
TRAPIL	●	●	●	●	●	●
Taeseung E&C Co. Ltd	●	●	●	●	●	●
Tianjin Greentising Pipeline Technology Co., Ltd.	●	●	●	●	●	●
Topline Limited	●	●	●	●	●	●
Tracerco	●	●	●	●	●	●
Trans Asia Pipeline Services FZC	●	●	●	●	●	●
"Transneft Diacan", JSC	●	●	●	●	●	●
Tulsa Valve	●	●	●	●	●	●
VP Engineers	●	●	●	●	●	●
Veekay Vikram & Co. LLP	●	●	●	●	●	●

FREE TECHNICAL INFORMATION SERVICE
 Contact our members and panel of advisers to answer your questions about piggng and pipeline integrity at:
ppsa@ppsa-online.com

Company	Industrial Piggng	Consultancy Services	In Line Inspection Services	Pipeline Piggng Services	Pipeline Piggng Components and Equipment	Pipeline Pigs
Mandrel pigs						
Foam pigs						
Solid cast pigs						
Spheres						
Hyperbaric spheres						
High DP (plugging) pigs						
Pig signals – intrusive						
Pig signals – non-intrusive						
Pig signals – subsea						
Pig locaters – onshore						
Pig locaters – offshore						
Pig/sphere traps						
Closures & Interlocks						
Pig/sphere launch valves						
Sphere launch pins/flaps						
Sphere flow tees						
Diverter						
Convergers (Wyes)						
Pig handling systems						
Pig Suspension Systems						
Sphere lifters						
Testing						
Drying						
Commissioning						
Cleaning – general						
Cleaning – pre-inspection						
Gel piggng						
Slug (batch) inhibition						
Insitu internal line coating						
Pig tracking/locating						
Isolating/plugging						
Pipeline repair						
Metal loss/corrosion (MFL)						
Metal loss/corrosion (UT)						
Metal loss/corrosion (other)						
Geometry						
Crack detection						
Leak detection						
Photographic/video						
Bend detection						
Profile/Mapping						
Spanning/line cover						
Smart Utility Piggng						
Feasibility studies						
Pig/system design						
Pig development						
Pig testing/trials						
Defect assessment						
Fitness for purpose assess						
Safety						
Pigs						
Components/fittings						
Controls						
System Design						
Installation						

THE PPSA BUYERS' GUIDE

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

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

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



PIGGING PRODUCTS & SERVICES ASSOCIATION

*One Day Seminar on
"Operational Pipeline Pigging"
Aberdeen 18th November 2015*

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

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

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

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

An International trade association serving the pipeline industry

Penspen Integrity

Bishops Court 29, Albyn Place, Aberdeen, AB10 1YL, UK

Tel: +44 1224 288700

E-mail: pigging@penspen.com

www.penspenintegrity.com

Contact: John Dixon (Aberdeen)

Tel: +44 1224 288721

Contact: Lee Dudridge (Aberdeen)

Tel: +44 1224 288706

Contact: Lee Walker (Aberdeen)

Tel: +44 1224 288728

Contact: Razwan Arshad (Abu Dhabi)

Tel: +971 2 6792526

Contact: Houston/Mexico

Tel: +1 713 402 8120

Penspen Integrity 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 Integrity 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; 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 Integrity 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 through Penspen Asset Management.

Pigs Unlimited International, Inc

23802 FM 2978, Suite C-1, Tomball, Texas 77375, 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

Pigs Unlimited International, Inc. supplies pipeline pigs, pigging components and equipment, cleaning and related services and consultancy. Its manufacturing division produces a full line of pigs from 1/2"-96" including foam pigs, steel mandrel pigs (cup, disc, brush, blade), solid cast pigs (sphere, cup, disc) for various functions including drying, batching, cleaning, de-watering 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 designed classes for educating clients and employees both new to pigging operations, or needing to implement new pigging programs.

Pigtek Limited

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

Tel: +44 1246 850220 **Fax:** +44 1246 856191

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

Contacts (PPSA): Ralph Hyslop & Richard Kershaw

Contacts (Sales): Ralph Hyslop & Richard Kershaw

Pigtek supply specialist 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, non-intrusive pig signalers, 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 9001:2008.

Pipeline Cleaners Inc

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

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

E-mail: tvanaken@plcpigs.com

www.plcpigs.com

Contact (PPSA): Terry W. Van Aken

Contact (Sales): Bob Doty

Began in 1889 making industrial flue brushes. Began making pipeline brushes and steel mandrel pigs in 1936. First fully automatic pipeline brush machine in world. Can specially design and manufacture pigs to customers needs. Can manufacture all types of pipeline brushes for any type of pig.

Pipeline Engineering & Supply Co. Limited

Headquarters:

Gatherley Road, Catterick Bridge, Richmond,
North Yorkshire DL10 7JQ, UK

Tel: +44 1748 813000 Fax: +44 1748 813501

E-mail: sales@pipelineengineering.com

www.pipelineengineering.com

Contact (PPSA): Andrew Marwood

Aberdeen Office:

Tel: +44 1224 879302

Email: sales@pipelineengineering.com

Middle East Office:

Tel: 971 4 8866128 Fax: +971 4 8866129

Email: enquiries@pe-middleeast.com

Far East Office:

Tel: +65 6692 9238 Fax: +65 6692 9293

Email: enquiries@pe-fareast.com

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 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 Ltd (PIL) offers a range of multi-channel caliper pigs to support pipeline construction, commissioning and cleaning operations around the world. In addition to their standard product types, PIL specialise in the supply of caliper and electronic gauging pigs for commissioning of deep and shallow water subsea pipelines. A recent development is a foam caliper pig, which is intended for use as a bore proving tool for 'unpiggable' pipelines and for the measurement of scale and wax deposits in operational pipelines. Whilst the multi-channel caliper is their main product line, they also offer a subsea digital pressure gauge for monitoring and logging hydrotest operations on subsea pipelines.



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

Contact (PPSA & Sales): Patrick Hivert and
Mohamed Habbouly

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. The expertise, resources and professionalism of their engineers and technicians provides efficient performance in all areas. Completing projects on time to the entire satisfaction of their customers is a key strength.

Pipeline Services LLC (PLS) expertise and package services covers: Pipeline pre-commissioning, commissioning, decommissioning, rehabilitation, hot tapping & stopping; 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.

Pipelines 2 Data (P2D) Ltd

3 Minto Place, Minto Commercial Park, Aberdeen,
AB12 3SN, UK

Tel: +44 1224 708778 **Fax:** +44 1224 708588

E-mail: sales@pipelines2data.com

www: pipelines2data.com

Contact (Sales): Stephen Mayo
steve.mayo@pipelines2data.com

Contact (Sales): Chris Thomson
chris.thomson@pipelines2data.com

Pipelines 2 Data (P2D) provide pipeline pigging support management & engineering services to the Oil and Gas industry, worldwide.

As part of an overall 'pipeline healthcare' package, P2D offer a complete, intelligent, integrated, risk-averse approach to pipeline pigging.

Through a combination of P2D's ATEX certified 'smart pigging' technologies, major results can be achieved in the form of pig performance, pipeline cleanliness, preventative maintenance, safety and pipeline operating conditions.

Working alongside pipeline owners and operators, the holistic P2D approach gives customers a one-stop, trusted solution for pipeline asset integrity, flow assurance and efficiency.

Pipesurvey International CV

Schrijnwerkerstraat 13, 3334 KH Zwijndrecht,
PO Box 117, 3330 AC Zwijndrecht, The Netherlands

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

E-mail: info@pipesurveyinternational.com

www: pipesurveyinternational.com

Contact (PPSA): Peter van Beugen

Contact (Sales): Joost Verbrugge

Pipesurvey International provides high-end inspection and cleaning services for pipelines. Its innovative inspection tools, developed in-house, provide accurate information about the structural integrity of piggable and non-piggable pipelines. Their team of engineers cover all the required disciplines of mechanical and electrical engineering, software development, physics, materials science, defect assessment, NDT technology, pipeline operations and pigging experience.

Pipesurvey offers MFL inspection with compact-size flexible and bidirectional tools, suitable for short radius bends and high wall thickness. It also offers ultrasonic pipeline inspection, accurate multichannel geometric

pipeline inspection, GPS pipeline mapping using IMU, defect assessment and fitness-for-purpose analysis, free-swimming camera inspection, pipeline cleaning using Kathar chemicals or gel pigging and removal of black powder, wax and scale.

Pipetech Corporation Ltd

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

Tel: +1 403 287 3558 Fax: +1 403 243 6279

www.pipetechcorp.com

Contact (PPSA & Sales): Terry Lotwin
terry@pipetechcorp.com

Pipe-tech Corporation has been focused on providing pipeline Pigging products and consulting services for 25 years. Every pipeline system has its challenges and Pipe-tech Corporation's technicians can help clean and maintain virtually any production system, gathering system or transmission line. They work with all levels of a customer's integrity management team to help them analyze and diagnose problems and offer recommendations for determining a cost-effective solution for the pipeline cleaning project. Their broad range of premium pigging products evolves continuously to keep pace with customer needs and changes in the industry.

Precision Pigging LLC

5868 Westheimer #544, Houston, Texas, 77057, USA

Tel: +1 877 773 2744 Fax: +1 832 830 8982

E-mail: lorrainecoats@precisionpigging.com

www.precisionpigging.com

Contact (PPSA & Sales): Lorraine Coats

Now celebrating 15 years in the business, Precision Pigging provides high-resolution multi-channel digital geometry/deformation inspection services. Tools range from 4" to 48" and serve both on-stream and new construction pipeline operations throughout North and South America, Europe, Asia, Australia and the Middle East. Precision Pigging's personalised single-contact project management capably offers high quality rapid on-site deployment.

With virtually no exaggeration or chatter, Precision Pigging's digital tools are capable of determining anomalies, wrinkles, buckles, ovality, expansion, valves, tees, welds, pipe wall thickness, the o'clock positioning on the pipeline wall and bend data. The company's geometry/deformation tools have a resolution accuracy to within 0.01 inch (0.254mm) for detecting anomalies. Precision Pigging proudly delivers incomparable customer service paired with exceptional technology and results around the globe.

PureHM

Bldg 3, 9703 45 Avenue, Edmonton, Alberta, T6E 5V8

Tel: +1 780 436 4400 Fax: +1 780 989 0040

E-mail: sales@pureHM.net www.purehm.net

Contact (PPSA): Shamus McDonnell

Acquired by Pure Technologies in 2014 as Hunter McDonnell Pipeline Services, PureHM continues to offer a range of technology-driven pipeline products and services to pipeline. They also offer third-party consulting, data management options and training seminars.

PureHM is a safety-conscious company dedicated to customer satisfaction. They offer trained technicians with an outstanding safety record in the industry. PureHM excels in challenging projects, and is prepared to quickly mobilize for any size pipeline pigging or direct assessment project. An in-house team of software programmers, IT and R&D personnel ensure complete project support.

An extensive inventory of pipeline pig tracking and ECDA equipment is kept on-hand and ready for service 24/7. This includes the Spectrum XLI inspection system, the ARMADILLO real-time pig tracking system, SmartBall confirmation of containment technology and the PipeWise data management solution.



**FREE TECHNICAL
information service**

Email: ppsa@pps-online.com

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

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

Quest Integrity Group, LLC

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Tel: +1 832 500 1000 Fax: +1 832 500 1019

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Asia-Pacific

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Lower Hutt 5045, New Zealand
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Tel: +44 1642 320142

Contact (Sales): Stefan Papenfuss
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sales@questintegrity.com

Quest Integrity Group, a Team Industrial Services company, provides turnkey pipeline integrity management services, including advanced inspection and engineering assessment solutions focused on challenging and difficult to inspect pipelines, as well as project management and in-line inspection support. InVista™ is an ultrasonic in-line inspection technology that accommodates 3 – 24 inch diameters, is bi-directional and provides 100% overlapping coverage of geometry and metal loss features in a single pass. LifeQuest™ Pipeline software provides high resolution 2D and 3D views of wall thickness and inner profile and high-level fitness-for-service assessment using 100% of the inspection data. This integrated pipeline integrity management solution includes MAOPr for the entire pipe length and follows API 579-1/ASME FFS-1 local thinning assessment methodology.

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 ISO9001:2008, ISO14001:2004, BS OHSAS18001:2007 and SCCP by Det Norske Veritas.

ROSEN Group

Headquarters

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ROSEN is a leading privately owned company that operates in more than 120 countries with over 2,000 employees. They are a worldwide provider of cutting-edge solutions in all areas of the integrity process chain suiting a wide range of industries: Oil & Gas, Energy, Process, Mining, Manufacturing, Telecommunications and Transportation for a wide range of assets.

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

ROSEN offers: Pipeline cleaning tools, accessories, in-line inspection, high-resolution geometry inspection, XYZ mapping, high-resolution metal loss inspection utilizing magnetic flux leakage, ultrasound and eddy current technologies, EMAT crack and coating disbondment detection, Ultrasonic crack detection, multi-diameter and robotic pipeline inspection, leak detection, video inspection, inspection of plant and terminals, coiled tubing, flow and gathering lines, integrity management software, engineering & consultancy, inspection solutions, integrity solutions, R&D solutions, product solutions.

Reinhart Hydrocleaning SA

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Pipeline family-company since 1952, offshore since 1996. They have 20 employees with own devices manufacture and testing facilities.

Romstar Sdn Bhd

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Romstar offers a full range of pipeline related services, from standard pre-inspection related services-cleaning, gauging, enhanced cleaning (for more difficult lines), to high resolution inspection services deploying intelligent pigs to measure metal loss, internal and external corrosion, 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 cleaning pigs and other polyurethane products through its Polymer Division.

STATS Group

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Contact: Angus Bowie, Regional Director

STATS Group is a specialist engineering company and service provider. Their comprehensive range of products and services, enable pipeline isolation, intervention, repair, subsea and shutdown services.

Innovative solutions and proprietary technologies include: The Tecno Plug™ provides fail-safe double block and bleed pipeline isolation tools for high pressure applications while the system remains live and at operating pressure. Pipeline intervention and isolation can be achieved using STATS patented leak-tight BISEP™. The BISEP™ provides fail-safe double block and bleed isolation deployed through a single hot tap penetration.

STATS partner with major operators in the development and support of Emergency Pipeline Repair Systems to minimise the downtime of damaged pipelines. STATS Group operates globally through a network of operational bases and project support offices.

Shenyang Longchang Pipeline Testing Center

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Shenyang Longchang Pipeline Testing Center was founded in 1993 and provides professional pipeline services including pigging, comprehensive testing, non-destructive testing, external testing and cathodic protection operation maintenance. They offer their customers the best service and technical support.

Sriram Foams (P) Ltd

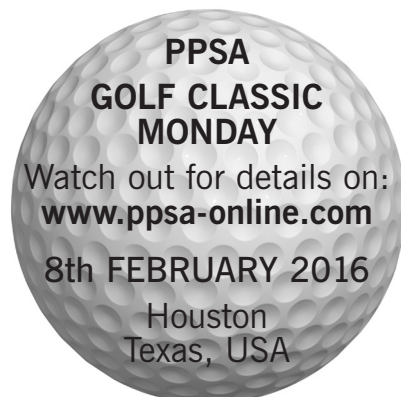
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Sriram Foams Private Limited established in the year 1999 is an ISO 9001 – 2008 company accredited by Vincotte Belgium. They have been manufacturing various types of polyurethane products for the past 15 years. They specialize in developing and producing all types of pipeline cleaning pigs. They have wide experience in making PU foam pigs in various densities and also mandrel pigs like batching pigs, bi directional pigs PU elastomer cups, discs, magnets, brushes (circular or spring loaded brushes). A high-quality work team with professional engineers, ample equipment, united workers and scientific management won a reputation for their pipe cleaning equipment. "Customer Satisfaction" based on excellent ability of quality, sales after service and innovation.



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Drawing upon a 95-year history of industry leadership, TDW is a global solutions provider for the owners and operators of pressurized piping systems. TDW delivers a comprehensive portfolio of solutions for onshore and offshore applications, including hot tapping and plugging, pipeline cleaning, integrity inspection, pigging and non-tethered plugging pig technology.

TRAPIL

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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.

Taeseung E&C Co. Ltd

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Taeseung E&C was established in 2002. Taeseung provides optimum solutions for customers on the basis of superior business performing capabilities and know how across the whole range of projects such as cleaning related projects in the fields of semiconductor, petro-chemical industry, LNG, steelmaking, shipbuilding and power generation (chemical Pig, water jet and oil flushing), gas facility construction work (proof testing and gas plant construction and machinery construction).

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Tianjin Greentsing Pipeline Technology Co., Ltd. (hereinafter referred to as GTPT) was founded in 2004, which is located in Jingbin Industrial Park, Tianjin, China. GTPT is a national high technology company, which is based on manufacturing pigging equipment, pipeline inspection and maintenance and repair equipment. Meanwhile, the research, manufacturing, trading and engineering and technical services are integrated.

GTPT is specialized in manufacturing the pipeline pigging equipment, inspector, hot-tapping and plugging devices, automatic tank cleaning equipment and the corresponding spare parts. Also, GTPT can provide the engineering and technical service including pipeline installation, changing, pigging, drying, inspection of inside and outside the pipeline, hot-tapping and plugging for nonstop transmission pipeline and oil tank mechanical cleaning.

Topline Limited

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

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



Tracerco

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Field proven, Discovery™ is the world's first 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.

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 effective and accurate subsea pig tracking, and hence control of pig positioning and pig location.

Trans Asia Pipeline Services FZC

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Contact: Sachin Sanghai, Regional Manager

Trans-Asia Pipeline Services, headquartered in United Arab Emirates, is a leading provider of pipeline and process services to the oil, gas and petrochemical industry. Established in the United Arab Emirates in 2001, the company now has over 300 employees working in 12 countries providing a variety of pipeline and process pre-commissioning and commissioning services for the oil and gas industry. Since their inception in 2001 they have successfully executed a number of projects for some renowned oil companies and EPC contractors through their offices in the Middle East, South East Asia and Indian Subcontinent.

“Transneft Diascan”, JSC

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Contact: Sergey V Ermish, General Director

Diascan was formed in 1991 and currently inspects an average of 25,000 to 30,000km of pipelines each year.

The company's inspection tools detect and size defects with high accuracy and applicable software calculates strength and durability of pipes with defects.

Diascan has its own test loops with both artificial defects and spools with defects taken from live pipelines. This allows it to develop its own in-line inspection tools and to enhance data analysis methods. A hydraulic facility enables the company to calculate strength and operating life by pressurization and bending tests.

Diascan also provides the following services: visual measurement testing, ultrasonic thickness measurement, acoustic emission inspection, ultrasonic flaw detection of welds and X-ray inspection of welded seams.

Tulsa Valve

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Tulsa Valve has been manufacturing and delivering pigging valves internationally since 1996. Both the Shut-off and By-pass designs have evolved to serve today's pipeline customers. Sizes 2"-16" in A350 LF2 NACE are standard with larger sizes and material options available upon request. Estimated saving in costs and footprint requirements are estimated to be 25-60% over traditional barrel and trap systems. The By-pass pig valve provides the smallest footprint and has often been preferred in offshore applications where space is severely limited.

VP Engineers

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VP Engineers manufacture specialized industrial products for refineries, 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 and magnetic pigs.

VPE 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.

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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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.

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PIPELINE REINFORCEMENT SYSTEM

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Founded in 1990, 3X Engineering is a company specialized in pipe repair without shutdown, by external application with patented composite technology and leak repair.

Their expertise includes all industry sectors and particularly oil & gas.

Their range of products: REINFORCEKIT 4D: Association of Kevlar tape and Epoxy resin, this product is designed to reinforce a pipe which has lost up to 80% of wall thickness. STOPKIT: Leak repair system which can be applied under pressure on a pipe without shutdown. REFLANGEKIT: Flange leaking repair without shutdown. ROLLERKIT: Stop contact corrosion on pipe support.

Atlas Copco Nederland B.V.

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Atlas Copco Nederland B.V. provides compressors, dryers, nitrogen and power generators for the pipeline industry. They respond to the needs of the pipeline industry, by providing temporary oil-free and oil-injected air, nitrogen and power solutions. With their on- and offshore rental fleet, it is their highest priority to be your trusted partner for air solutions, offering reliable, safe and cost-effective equipment and services. That's how they envision building long term relationships with their customers.

Their on- and offshore trained engineers provide total solutions to specific issues, 24/7. With this approach they look beyond continuity and are committed to your sustainable productivity.

Bakercorp UK Ltd

RENTAL SERVICES

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Contact: Kevin Jackson

Bakercorp provide mobile storage tanks for the temporary storage of liquids. These liquids can be at the beginning, middle and end of process applications, such as raw materials, intermediate materials and final effluents. Fluids might also include water solutions for pipeline pigging.

Brenntag Nederland BV

PIPELINE SERVICES PROVIDER

European Oil & Gas Department

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Brenntag, a world-leading distributor of industrial and specialty chemicals, provides a full line of products and services to the oil and gas producing and processing industry. Its product range includes process, production and cleaning chemicals. Brenntag pipeline services include high quality pigging activities, chemical and geometry surveys.

Whatever the contamination in the pipeline, Brenntag provides a solution. Its unique chemicals and services allow pipeline operators to clean lines online, combining task specific surfactants with advanced surface cleaning effects and non-hazardous carrier fluids. Brenntag's team of highly trained specialists provides these services on a project or turn key basis.

The Clock Spring Company, L.P.

PIPELINE REINFORCEMENT SYSTEM

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Highly effective, ingeniously simple, the Clock Spring pipeline reinforcement system redefines the economics of pipeline repair. With the patented Clock Spring system, permanent field repair and reinforcement of pipe sections weakened by corrosion or mechanical damage is easy, fast and inexpensive.

The Clock Spring sleeve is a specially developed, 0.06" sheet of high strength composite material. Its unique coil-shaped configuration creates a matrix memory which allows the Clock Spring® to wrap tightly around

pipe of virtually any size. Applied with a patented fast-curing yet incredibly strong adhesive, it forms a composite wrap which actually exceeds the yield strength of the original pipe.

Cottam Brush Ltd

BRUSH MANUFACTURER

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COTTAM'S specialist Pipeline team supply off the shelf products for existing fleets of pigs or custom made to specification. They manufacture to suit any pig, to a required size and abrasion level for your job.

With over 30 years design and manufacturing experience with the latest materials and manufacturing 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.

Dow Polyurethanes

POLYURETHANE MANUFACTURER

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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.

Exium Technologies Inc.

BATTERY MANUFACTURER

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Exium Technologies Inc., a Division of Vitzrocell Co. LTD., is a manufacturer and distributor of Lithium Metal Batteries for use in Pigging and Downhole operations for the oil and energy industries. Exium products are used worldwide in oil and gas operations, providing excellent performance and long life under extreme conditions (high temperature, shock and vibration). Exium Technologies currently provides batteries to major corporations in Houston, Calgary and the United Kingdom and expanding to new markets in Central America, South America and Europe.

Fiberbuilt® Manufacturing Inc

BRUSH MANUFACTURER

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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.

Innospection Limited

NON-DESTRUCTIVE TESTING

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Innospection Ltd is a specialist provider of innovative inspection services and solutions.

An expert in electromagnetic inspection technologies such as Eddy Current and Saturation Low Frequency Eddy Current (SLOFEC), Innospection has delivered advanced NDT solutions and services to the worldwide process industries since 1998 for the inspection of pipelines, storage tank floors, pressure vessels and heat exchanger tubes.

In the offshore and subsea area, Innospection offers sophisticated equipment and technologies to solve niche inspection challenges for flexible and rigid risers, caissons, subsea structures and pipelines, non-piggable pipelines, flat surfaces like ship hulls and complex areas like subsea manifolds.

Innovative Polymers Inc.

POLYURETHANE MANUFACTURER

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Contact (PPSA & Sales): Jon Davison

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Contact (PPSA & Sales): Peter Vemmelund

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