



ROYAL
POLY PRODUCTS



Australia's Premier Pipeline Pig Manufacturer

62nd
**Australian
Export Awards**

2024 Winner - RoyalPoly Products **Emerging Exporter**

Royal Poly Products is pioneering Australian-made pipeline solutions designed for quality, innovation, and performance.

www.royalpolyproducts.com



About Us

Royal Poly Products is Australia's first pipeline pig manufacturer, proudly based in Jandakot, WA. Founded with a vision to create high-performance, Australian-made pipeline solutions, we are driven by our commitment to quality, innovation, and sustainability. Using locally sourced materials and collaborating with 95% Australian suppliers, we deliver world-class products that embody precision, durability, and the highest standards of craftsmanship.

Mission

Our mission is to support industries with cutting-edge pipeline technologies that ensure efficiency, reliability, and sustainability.

We stand for Australian excellence, bringing unmatched quality to every pipeline pig we produce.



What sets us apart

Australian-Made Quality

Every product from Royal Poly Products is crafted with precision and care, proudly made in Australia using local materials. Our focus on Australian manufacturing supports local jobs and promotes sustainable practices that benefit both our clients and the environment.

Innovative Engineering Solutions

Our dedication to R&D allows us to develop technologies like The Quokka™ Smart Foam Technology, which redefines pipeline pigging for enhanced cleaning, efficiency, and longevity. With advanced solutions tailored to your pipeline needs, we're setting new industry standards.

Customization & Flexibility

From dual-diameter pigs to custom density, length, and diameter options, we adapt our products to solve the unique challenges of every pipeline project. Whatever your requirements, Royal Poly Products has the expertise to deliver.



Industries We Serve

Royal Poly Products serves a diverse range of industries, including:

- **Oil & Gas:** Delivering advanced solutions to maintain integrity and cleanliness in oil and gas pipelines.
- **Water Treatment:** Providing essential tools for maintaining clean and efficient water treatment systems.
- **Food Processing:** Ensuring high standards of cleanliness for pipelines in the food and beverage industry.
- **Chemical Processing:** Supporting chemical industry with specialized solutions for safe, reliable pipeline operations.

Client Success Stories:

“ **Innovative Solutions for Complex Pipelines.** When a client in the oil and gas sector faced challenges with dual-diameter pipelines, RoyalPoly Products designed a custom pig that seamlessly navigated complex bends and variations by enhancing operational efficiency and reducing maintenance downtime, our solution provided significant cost savings and reliability for the client. ”

You are in Good Company



HALLIBURTON

INPEX

CR3

MCDERMOTT



Alseas

subsea 7

ROYAL
POLY PRODUCTS

62nd
Australian
Export Awards

Congratulations
Royal Poly
Products

Awards & Recognition



Royal Poly Products continues to be celebrated for its commitment to **quality, innovation, and collaboration** - driving Australian manufacturing onto the global stage.

Australian Export Awards 2025 – National Finalist

- Following last year's national win, Royal Poly Products was again recognised among Australia's best, as a national finalist at the 63rd Australian Export Awards. This back-to-back recognition underscores our continued international growth and leadership in Australian-made pipeline technology.

Western Australian Export Awards 2025 – Winner

- For the second consecutive year, Royal Poly Products was named a WA Export Awards Winner, reaffirming our role as one of Western Australia's most dynamic and globally competitive manufacturers.

Australian Export Awards 2024 – Emerging Exporter of the Year

- Winner of the **Emerging Exporter of the Year** at the 62nd Australian Export Awards, marking our rapid export growth of over **100% within three years** and recognition for innovation, quality, and global partnerships.

Subsea Energy Australia Awards

- Finalist in the 2024 Industry Collaboration Award with Pacific Urethanes, highlighting innovation in subsea polyurethane technology.

Also ranked Top 3 in 2022 for both Innovation & Technology and Industry Collaboration, reflecting our consistent pursuit of excellence in pipeline and subsea sectors.

Foam Pigs:

Reliable Pipeline Performance

Royal Poly Products' Foam Pigs are trusted for efficient pipeline cleaning, drying, batching, and product separation. Built from durable, open-cell polyurethane foam, our foam pigs navigate complex pipeline networks with ease, ensuring seamless operation and cost-effective maintenance.

Why Choose Our Foam Pigs?

- Built to Last: Premium, abrasion-resistant foam for long-term reliability.
- Flexible Design: Handles tight bends and multi-diameter pipelines effortlessly.
- Perfect Seal: Coated rear maximizes pressure, preventing contamination.
- Cost-Effective: High performance, low maintenance costs.

Available Types & Sizes

- Densities: Choose from low (26-28 kg/m³) for gentle cleaning, intermediate (35-40 kg/m³) for light-to-medium duty, medium (80 – 112 kg/m³) for standard tasks, and high (128 – 160 kg/m³) for abrasive cleaning and debris removal.
- Sizes: Standard 2"-60" and custom diameters and lengths.



Configurations

- Bare • Criss Cross • Fully Coated
- Spiral/ Criss Cross Wire Brush Pigs
- Total Wire Brush pigs • Silicon carbide

with custom add-ons like pulling ropes | transmitter cavities | double dish & many more

Applications

- Ideal for cleaning, dewatering, wax removal, product separation, pre-commissioning, and blockage clearance.

Reach out to learn how our foam pigs can elevate your pipeline maintenance!

Sales@royalmechgroup.com

Bidirectional Pigs:

Durable Solutions for Challenging Pipeline Environments

Royal Poly Products' Bidirectional Pigs are engineered to handle tough pipeline conditions, providing resilient and versatile solutions for cleaning, product separation, and pipeline integrity checks across industries such as oil & gas, water treatment, and chemical processing. Built with a solid steel frame, they can withstand high pressures and handle thick scale deposits, offering unmatched durability for critical maintenance tasks.

Types and Configurations

- **Disc Pigs:** Ideal for cleaning, product separation, and occasional pipeline integrity checks. Available in configurations like Standard, High Seal and Long Run Pigs to suit your specific operational needs.
- **Disc Gauging Pigs:** Designed to detect internal obstructions, dents, and deformations, ensuring pipeline integrity. Commonly used for pre-inspection runs and post-construction checks.
- **Disc Brush Pigs:** Equipped with both scraping discs and brushes, these pigs offer a more aggressive cleaning solution, effectively removing wax, scale, and corrosion.

Available Sizes

Standard sizes ranging from 2" to 60" with customization options to fit specific pipeline requirements.

Applications

- **Pipeline Cleaning and Maintenance:** Scrapes off debris, wax, scale, and other deposits to keep pipelines clear and efficient.
- **Product Separation:** Essential for separating different fluid batches, minimizing mixing, and maintaining product purity.
- **Dewatering and Drying:** Removes residual water after hydrotesting to prevent corrosion.
- **Pipeline Integrity Checks:** Detects physical obstructions or deformations for pre-inspection and post-construction validation.

Additional Options

Available in add ons such as engineered lifting points, transmitter cavities and various seal and guide designs optimised to pipeline geometry and inline features.

Contact us to explore how our bidirectional pigs can enhance your pipeline operations and improve efficiency!

Sales@royalmechgroup.com



Cup Pigs:

Versatile Pipeline Cleaning and Separation

Royal Poly Products' Cup Pigs are effective tools for pipeline cleaning, product separation, and liquid removal. Made from flexible polyurethane cups, they create a strong seal against pipeline walls, smoothly pushing out debris and liquids for efficient cleaning and drying.

Types and Configurations

- 3 Cup Pig & 4 Cup Pig: For general-purpose cleaning and enhanced debris removal.
- 2 Cups with Support Discs: For added stability and flexible use.
- Brush Pigs (Carbon Steel, Stainless Steel, Nylon Wire): For tougher cleaning applications where, additional scrubbing is required.



Available Sizes

Standard sizes ranging from 2" to 60" with customization options to fit specific pipeline requirements.



Applications

- Pipeline Cleaning & Debris Removal: Clears dirt, deposits, and wax in oil, gas, and water pipelines.
- Product Separation: Prevents fluid mixing in multi-product pipelines, maintaining product quality.
- Water and Liquid Removal: Ideal for drying pipelines after hydro testing, preventing corrosion.
- Low-Pressure Pipelines: Works well in pipelines with lower pressure requirements.

Best suited for separation of products, pipelines with tight bends and varying pipe schedules. Contact us to find the right configuration for your pipeline maintenance needs!

Sales@royalmechgroup.com

Solid Cast Pigs:

Reliable, Durable Pipeline Maintenance

Royal Poly Products' Solid Cast Pigs are single-piece polyurethane pigs designed for tough, high-wear environments, offering effective solutions for pipeline cleaning, product separation, and corrosion inhibition. With their robust construction, they excel in demanding applications, delivering consistent performance with minimal maintenance.

Available Configurations

- 3 Cup Pig: Ideal for general cleaning, liquid removal, and product separation, providing a secure seal with three flexible cups.
- 4 Cup Pig: Enhanced sealing for greater debris removal, suited for extended pipeline runs.
- Disc Pig: Versatile and effective for regular cleaning and product separation, maintaining consistent contact along the pipeline.



Applications

- Perfect for routine cleaning, high-wear environments, product separation, and corrosion inhibition, particularly in low to medium-pressure pipelines.
- Solid Cast Pigs offer durable, low-maintenance performance across a range of pipeline conditions. Reach out to find the best configuration for your operations!

Contact us to find the right solid cast pig for your pipeline maintenance needs!

Sales@royalmechgroup.com



Dual Diameter Pigs:

Versatile Solutions for Variable Pipeline Sizes

Royal Poly Products' Dual Diameter Pigs are specially designed to handle pipelines with varying diameters, providing a seamless solution for cleaning, dewatering, and product separation in multi-diameter systems. Constructed with flexibility and durability in mind, these pigs adjust to pipeline size changes, maintaining a secure seal and consistent contact throughout.

Types of Dual Diameter Pigs

- **Dual Diameter Foam Pigs:** Lightweight and highly adaptable, ideal for gentle cleaning and dewatering in pipelines with smaller diameter differences.
- **Dual Diameter Brush Pigs:** Equipped with wire or nylon brushes, these pigs offer more aggressive cleaning for pipelines that require debris and scale removal across varying diameters.
- **Dual Diameter Cup Pigs:** Featuring flexible polyurethane cups, these pigs maintain a strong seal even in pipelines with significant diameter variations, ensuring efficient product separation and liquid displacement.



Applications

- Dual Diameter Pigs provide the versatility needed to navigate complex pipeline systems, making them a valuable asset in industries like oil & gas, water treatment, and chemical processing.

Contact us to find the ideal dual diameter pig for your pipeline needs!

Sales@royalmechgroup.com

Pigging Services:

Expert Solutions for Comprehensive Pipeline Maintenance

Royal Poly Products' sister company, Royal PPS, provides complete pigging services to support all aspects of pipeline management. Through their P MEC™ (Project Management and Engineering Consultancy) services, they bring industry expertise to every phase of pipeline operations, ensuring safe, efficient, and compliant project execution.

Pipeline Services

- Pipeline Cleaning, Gauging, and Hydrotesting: Comprehensive planning for optimal cleanliness and structural integrity checks.
- Dewatering & Drying: Effective protocols to remove moisture post-testing, readying pipelines for safe transport.
- Mothballing & Decommissioning: Preservation strategies for inactive pipelines and safe decommissioning plans.
- Wet Buckle Contingency: Solutions for offshore wet buckle incidents, minimizing risks and downtime.



Pre - Commissioning & Maintenance Services

- Chemical Cleaning & Flushing: Prepares pipelines for operation by removing contaminants.
- Nitrogen Helium Leak Detection & Purging: Validates system integrity and displaces contaminants to ensure operational readiness.
- Decontamination: Safely eliminates hazardous substances, protecting personnel and compliance standards.

Royal PPS combines local expertise with global best practices, guiding clients through complex pipeline projects with customized solutions, from commissioning to maintenance and decommissioning.

Visit www.royalpps.com to explore their full range of pigging and pipeline services!

Sales@royalmechgroup.com

Pigability Studies and Trials

At Royal Poly Products, we offer specialized Pigability Studies and Trials to ensure your pipeline is ready for safe, efficient pigging. With over 50 years in pipeline pigging, we provide end-to-end solutions that maximize pipeline integrity, safety, and operational efficiency.

Pigability Studies: Assessing Pipeline Readiness

Our studies evaluate:

- Pipeline Design: Ensuring smooth pig navigation through bends and diameter changes.
- Material Compatibility: Selecting pigs that protect both pipeline and pig.
- Flow Conditions: Matching pigs to your pipeline's pressure, fluid, and temperature needs.
- Obstruction Identification: Detecting and addressing debris or corrosion.
- Launch Systems: Ensuring safe, efficient pig launching and receiving.



Pigability Trials: Verifying Performance

- Controlled trials confirm pipeline readiness, minimizing risks and optimizing pig selection for flawless operations.
- As Australia's first pipeline pig manufacturer, Royal Poly Products delivers proven expertise for both new and existing pipelines. Contact us to learn how we can support your pigging needs with precision and confidence.

Contact us to learn how we can support your pigging needs with precision and confidence.

Sales@royalmechgroup.com



Pig Detection Solutions:

Advanced Technologies for Precise Pipeline Monitoring

Accurate pig detection is essential for maintaining pipeline integrity, safety, and operational efficiency. Our advanced detection systems - acoustic, electromagnetic, and non-intrusive - offer real-time tracking across all types of pigging operations, ensuring smooth runs and preventing costly delays.

Acoustic Detection

Tracks the unique sound signature of the pig as it travels through the pipeline.

- **Ideal for:** Foam or non-metallic pigs, and areas with electromagnetic interference.
- **Benefits:** Non-intrusive, precise, and effective across liquid, gas, and product pipelines.

Electromagnetic (EM) Detection

Uses sensors to detect magnetic or conductive pigs in real time.

- **Ideal for:** Steel-bodied or intelligent pigs, long-distance and subsea pipelines.
- **Benefits:** High accuracy, versatile, and suitable for complex inspection pigs.

Non-Intrusive Detection

External sensors identify acoustic, pressure, or EM changes without modifying the pipeline.

- **Ideal for:** High-pressure, hazardous, or buried lines where access is limited.
- **Benefits:** Safe, quick to install, minimal downtime, real-time monitoring.

Talk to Our Experts

Selecting the right detection method depends on your pig type, operating environment, and project goals.

Let our engineering team help design the best solution for your operation.



Why Choose Advanced Pig Detection?

External sensors identify acoustic, pressure, or EM changes without modifying the pipeline.

- **Prevent Pig Loss:** High-pressure, hazardous, or buried lines where access is limited.
- **Monitor in Real Time:** Ensure cleaning, dewatering, or inspection tasks are completed efficiently.
- **Maintain Pipeline Integrity:** Correlate data precisely for accurate maintenance and inspection.

Inline & Camera Inspection Solutions:

Comprehensive pipeline inspection combining inline tools + camera (EV PigCam®) for full-spectrum data.

Capabilities

- **Inline Tools:** MFL, UT, EMAT, Caliper & Combo runs — detect corrosion, geometry, weld anomalies, cracks.
- **Camera (EV PigCam):** 360° HD visual verification - blockages, coating, corrosion, clean-up checks across liquid, gas, and product pipelines.

How It Works

- Scope & prep → pig runs (inline + camera) → live tracking → analysis & report → integrity plan
- Data delivered as GIS, CSV, visual packages, prioritized repair list



Why Us

- Australian-engineered with global standards
- End-to-end service: cleaning → inspection → reporting
- Works on tough lines: low flow, tight access, sour environments

Get in Touch

Let us tailor an inspection plan for your pipeline.

Sales@royalmechgroup.com



Quality Assurance & Certifications

As an **ISO 9001-certified company**, Royal Poly Products is dedicated to upholding the highest standards of quality and safety. Each product undergoes rigorous testing and quality control processes, ensuring it performs reliably in even the toughest conditions. Our commitment to quality assurance gives our clients confidence in every Royal Poly Products solution.



Sustainability Commitment

Royal Poly Products prioritizes sustainability, using locally sourced materials and working with Australian suppliers. Our approach reduces our carbon footprint and supports local industries, while our innovative manufacturing practices focus on creating durable, long-lasting products that minimize waste. We are proud to lead by example, promoting sustainability throughout our industry.



Contact Us

Ready to learn more about how Royal Poly Products can meet your pipeline needs? Reach out to our team:

Phone: +61 (08) 61025151

Email: sales@royalmechgroup.com

Website: www.royalpolyproducts.com

Address: 5/41 Biscayne Way, Jandakot, WA 6155

Quick Notes:



Experience the Strength of Australian-Made Pipeline Solutions
**Pioneering excellence in pipeline integrity, backed by
quality, innovation, and performance.**

