



PE PIPING SYSTEMS FOR

**POLY LINED STEEL
SOLUTIONS**



ACU-TECH.COM.AU



About Us

Acu-Tech® Piping Systems (Acu-Tech) specialises in manufacturing and supplying advanced polyethylene (HDPE) pipe systems tailored for efficient fluid or gas transfer and cable protection. Our state-of-the-art pipe systems are predominantly made from polyethylene (PE) thermoplastics, integrating the latest advancements in pipe technology. These systems are extensively utilised across various industries, including mining, resource extraction, civil engineering, plumbing, rural applications, irrigation, and industrial sectors.

Founded in 2000, Acu-Tech commenced its journey within three shipping containers, evolving into a thriving Australian company that is privately owned and operated. The company's founders and owners actively participate in day-to-day operations, fostering a culture of inspiration, strong leadership, flexible decision-making, and unwavering accountability throughout the organisation.

With our expanding operations nationwide, the dedicated Acu-Tech team is committed to providing the highest level of service and support throughout every stage of your project. Our team members bring decades of collective experience and embrace a positive “can-do” attitude, deeply committed to ensuring the sustained success of your business.

We Care.

Acu-Tech prioritises high quality customer service and support, focusing on always having a positive ‘can-do’ attitude.

Our Solutions.

With state-of-the-art manufacturing facilities and decades of combined experience, Acu-Tech prioritises continuous innovation and superior products for your HDPE piping needs. Offering turnkey solutions and project management services with a strong emphasis on customer support and success, we ensure tailored solutions that align perfectly with your requirements, whether it's fluid or gas transfer, cable protection, or any other application.

Your Success.

Your Success is our priority. Our durable and cost-effective products, combined with premium client service and support, demonstrate our unwavering commitment to ensuring the long-term success of your business. At Acu-Tech, we are more than just a supplier; we are your partner in success.



OUR VISION

Building Australia’s future.

OUR MISSION

Delivering the best pipe solutions for our customers.

OUR VALUES



S

Safety



T

Trustworthy



R

Reliable



I

Innovative



V

Value



E

Energy

Safety

We promote wellbeing first – by following our health and safety practices and speaking up immediately if something seems unsafe.

Trustworthy

We move fast with a high level of trust. We honour our commitments to our customers, team, and community.

Reliable

We have grit, perseverance, and bravery to overcome obstacles, and do what we say we will.

Innovative

We bravely challenge, explore, and implement, effective and improved ways to deliver the best solution.

Value

We are humble, hungry, smart and believe that our team is our greatest asset - every role and every person with great attitude brings value.

Energy

We are hungry, driven by fearless energy ‘hustle muscle’ to achieve exceptional outcomes by motivating ourselves and those around us to give our best.

Quality Assurance



ISO 9001: DELIVERING EXCELLENCE

At Acu-Tech Piping Systems, we go above and beyond to ensure exceptional quality, epitomised by our ISO 9001 certification - a symbol of excellence in quality assurance.

Our ISO 9001 certification reflects our unwavering commitment to delivering top-tier products and services, while continually refining our processes.

- ✓ **Elevating Product Excellence**
- ✓ **Prioritising Customer Satisfaction**
- ✓ **Streamlining Efficiency and Enhancing Processes**
- ✓ **Mitigating Risk**
- ✓ **Achieving Global Recognition**

In summary, Acu-Tech Piping Systems' ISO 9001 certification is not just a label; it signifies our commitment to providing excellence in quality assurance, ensuring our customers receive the best products and services available.



What sets us apart?

Consistent reliability: Regardless of the industry or service, we consistently provide the ideal solution at the most cost-effective value.

Client-focused approach: We actively listen and collaborate closely with our clients to grasp the challenges they face.

Tailored solutions: Leveraging our materials, technology, training, and installation methods, we help determine and implement the right solutions for our clients.

Problem-solving expertise: Leveraging our vast knowledge and experience, we address challenges and deliver effective solutions.

Industry-specific delivery: We excel in providing bespoke pipeline solutions specifically tailored to the distinctive requirements of the industries we serve.

ACU-STEEL

The piping system combining the resistance of HDPE and the strength of steel



Acu-Tech's Acu-Steel is a steel piping system that combines the wear and resistance of HDPE and the strength of steel. Compared to standalone HDPE this piping system offers a higher pressure and temperature rating. The HDPE lining provides a smooth internal surface, reducing friction and enhancing flow characteristics. Acu-Steel offers a range of pipe sizes, fittings, and accessories to meet different project needs.

The HDPE-lined steel pipes are created by inserting a HDPE liner inside the steel pipe. Before insertion the HDPE liner has a larger outside diameter than the inside diameter of the steel pipe. The HDPE liners outside diameter is mechanically reduced then pulled through the steel host pipe and left to return to its original outside diameter. This then forms a tight/compressed fit as the HDPE liner expands inside the steel pipe and results in the pipe being restrained by friction throughout its entire length, holding it in place and resisting the usual thermal expansion and contraction of the HDPE pipe.

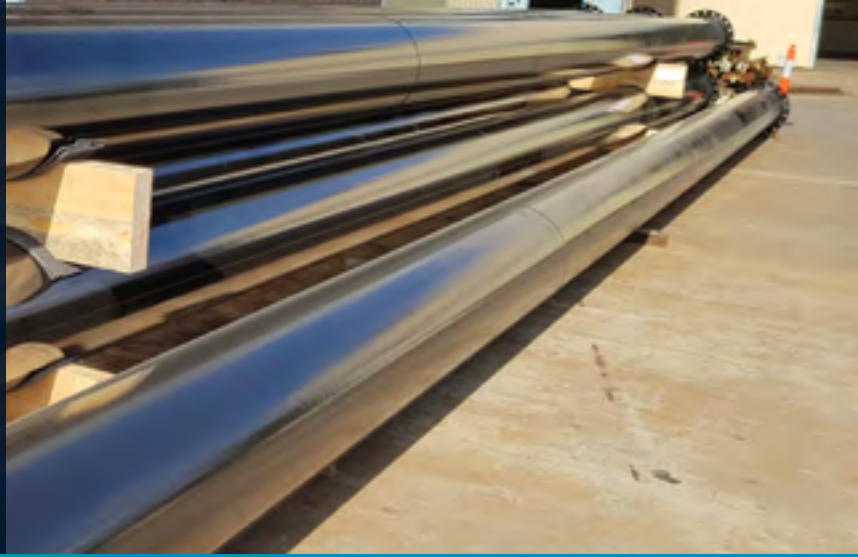
The Liner is then flanged with HDPE stub ends that are butt welded into position.

KEY BENEFITS AND FEATURES

- The durability and structural integrity of steel pipe.
- Full thickness flanging that prevents linear shearing.
- Tight liner method resulting in minimal movement.
- The HDPE provides reduced friction loss and high flow capacity because of its smooth wall and non-wetting features.
- The steel host pipe provides the system, with high pressure capabilities, structural integrity, and mechanical damage resistance.
- Reduced pumping costs.
- Suitable for transmission of various aggressive media.

ACU-STEEL

The piping system combining the resistance of HDPE and the strength of steel



APPLICATIONS

Acu-Steel, HDPE lined steel pipe, is used in within the Mining, Resources, Oil and Gas industries to transport:

- Slurries and tailings.
- Pregnant solutions.
- Raffinate.
- Fly Ash.
- Concentrate (pumped magnetite or other ore).
- Industrial fluids, including chemicals, and acids.
- High pressure water lines.
- Solutions at elevated temperatures.

LINE RANGE

- Pipe spools (up to 24m).
- Diameters from 2" (50mm) to 48" (1200mm).
- Choice of flanged or Victaulic ends.
- Equal Tees and Reducing Tees.
- Reducers and Wafer Valves.
- Bends to 90° (3D & 5D).
- Air and Water release points.



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LINER SELECTION

Acu-Tech is the only HDPE lined steel manufacturer with over 14 years experience in HDPE Extrusion. Manufacturing our own liner results in:

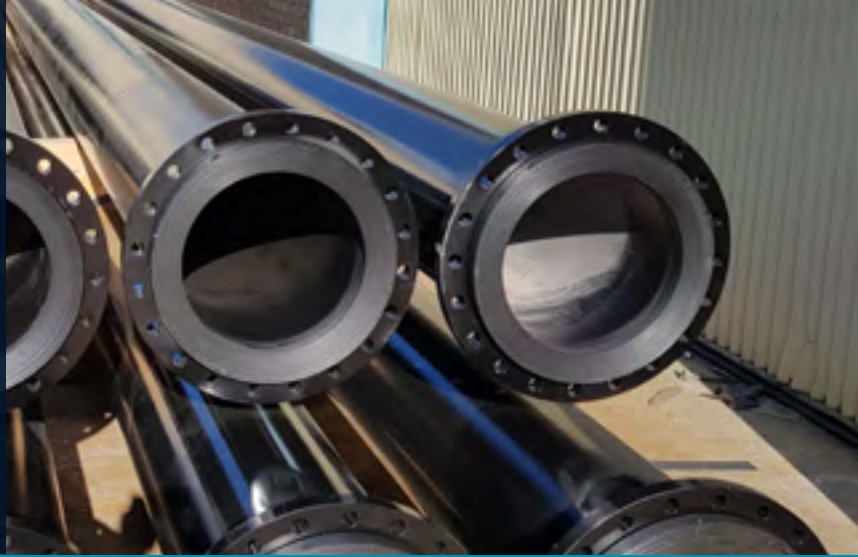
- No restrictions on dimensions, OD, ID and Wall Thickness and is not limited to standard HDPE pipe sizes. Ensuring the best “TIGHT FIT” liner.
- No restrictions on material grade (RCD , ACU-TUFF, PE112, PE100).
- 100% Virgin Material, no regrind.

In 2022 Acu-Tech supplied liner for the worlds longest HDPE lined steel project approximately 200km of ≈640mm diametre pipe for the Iron Bridge project in Western Australia.



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QA AND TESTING

- Acu-Tech can provide proof of concept before supply of flange system.
- Test spools.
- In House test in our NATA Accredited Testing laboratory.
- 3rd Party Verification if required.



Our Capabilities

Technical Support:

We provide technical support for designers, engineers, and installers.

Training:

Through our training partner we can offer our clients the ability to train staff with nationally accredited polyethylene plastic welding courses.

QA/QC:

We are also qualified to provide Quality Assurance and Quality Control documentation.

Testing:

We have a fully accredited in-house NATA testing facility to provide destructive and pressure testing as per project requirements.

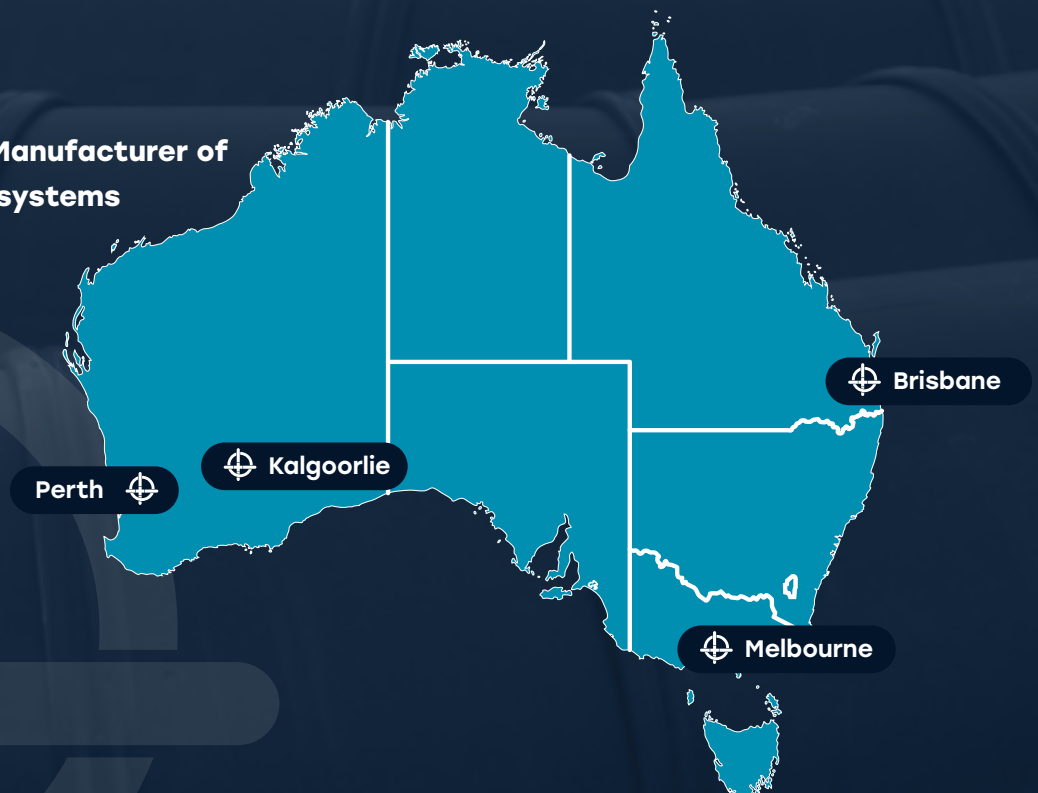
Equipment Hire, Sales, and Servicing:

Acu-Tech offers welding equipment available for hire or sale and providing servicing and calibration for welders.

Transport:

Products are delivered using our own fleet of trucks. By not using an external transport provider we can ensure that the product is delivered directly to site in a safe and timely manner.

**National Manufacturer of
PE piping systems**





The PE Pipe Systems Specialists

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WE CARE. OUR SOLUTIONS. YOUR SUCCESS.